

## IES Report

# ZipTwo® | 707 | Square 3572, Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-H6-X-WH-0

|  | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt               | 113   | 117   | 119   | 121   |
| Total Lumens, 4' rail length (1219mm)    | 1682  | 1735  | 1771  | 1788  |
| Lumens per foot (305mm)                  | 421   | 434   | 443   | 447   |
| Input Power (W), 4' rail length (1219mm) | 14.9  | 14.9  | 14.9  | 14.9  |
| Watts per foot (305mm)                   | 3.8   | 3.8   | 3.8   | 3.8   |
| CRI                                      | 95    | 95    | 95    | 95    |

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_H6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011201 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-359-H6-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 1771                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 119                 |
| Total Luminaire Watts           | 14.89               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Semi-Direct         |
| Spacing Criterion (0-180)       | 2.40                |
| Spacing Criterion (90-270)      | 1.24                |
| Spacing Criterion (Diagonal)    | 2.08                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 0.13 ft             |
| Luminous Width (90-270)         | 4.00 ft             |
| Luminous Height                 | 0.23 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3190             | 2916              | 2904              |
| 55                  | 3164             | 2864              | 2765              |
| 65                  | 3032             | 2758              | 2636              |
| 75                  | 2811             | 2622              | 2697              |
| 85                  | 2577             | 2484              | 2649              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_H6\_WH.IES**

**CANDELA TABULATION**

|            | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 162.0    | 162.0    | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     |
| <b>5</b>   | 170.0    | 170.0    | 169.5     | 169.5     | 169.0     | 168.5     | 167.5     | 167.0     | 166.0     | 165.0     |
| <b>10</b>  | 188.0    | 188.0    | 187.5     | 187.0     | 185.5     | 184.5     | 182.5     | 181.0     | 179.0     | 176.5     |
| <b>15</b>  | 207.0    | 207.0    | 206.0     | 205.0     | 203.0     | 201.0     | 198.0     | 195.0     | 191.5     | 188.0     |
| <b>20</b>  | 226.0    | 225.5    | 224.5     | 222.5     | 220.0     | 217.0     | 213.0     | 208.5     | 203.5     | 198.0     |
| <b>25</b>  | 244.5    | 244.0    | 242.5     | 240.0     | 236.5     | 232.5     | 227.0     | 221.0     | 214.5     | 207.0     |
| <b>30</b>  | 262.0    | 261.5    | 259.5     | 256.5     | 252.0     | 246.5     | 240.0     | 232.5     | 224.0     | 215.0     |
| <b>35</b>  | 278.0    | 277.5    | 275.0     | 271.0     | 266.0     | 259.0     | 251.0     | 242.5     | 232.0     | 221.5     |
| <b>40</b>  | 291.5    | 291.0    | 288.0     | 283.5     | 277.5     | 269.5     | 260.5     | 250.0     | 238.5     | 226.0     |
| <b>45</b>  | 302.0    | 301.0    | 298.0     | 293.0     | 286.0     | 277.0     | 267.0     | 255.0     | 242.0     | 228.5     |
| <b>50</b>  | 308.0    | 307.0    | 304.0     | 298.5     | 291.0     | 281.0     | 270.0     | 257.5     | 243.5     | 228.5     |
| <b>55</b>  | 309.5    | 308.0    | 305.0     | 299.5     | 291.5     | 281.5     | 269.5     | 256.5     | 241.5     | 226.0     |
| <b>60</b>  | 305.5    | 304.5    | 301.0     | 295.5     | 287.5     | 277.5     | 265.5     | 252.0     | 236.5     | 220.5     |
| <b>65</b>  | 297.0    | 296.0    | 292.5     | 287.0     | 279.5     | 269.5     | 258.0     | 244.0     | 229.0     | 212.5     |
| <b>70</b>  | 284.0    | 283.0    | 280.0     | 275.0     | 267.5     | 258.0     | 247.0     | 233.5     | 218.5     | 202.5     |
| <b>75</b>  | 267.5    | 267.0    | 264.0     | 259.0     | 252.5     | 243.5     | 233.0     | 220.5     | 206.5     | 191.0     |
| <b>80</b>  | 249.5    | 249.0    | 246.5     | 242.0     | 236.0     | 227.5     | 218.0     | 206.0     | 192.5     | 178.0     |
| <b>85</b>  | 230.5    | 230.0    | 228.0     | 224.0     | 218.5     | 211.0     | 202.0     | 191.0     | 178.0     | 165.0     |
| <b>90</b>  | 213.0    | 212.0    | 210.0     | 206.5     | 201.5     | 194.5     | 186.5     | 176.0     | 165.0     | 152.0     |
| <b>95</b>  | 199.5    | 199.0    | 197.0     | 194.0     | 189.5     | 183.0     | 175.5     | 166.5     | 156.0     | 143.5     |
| <b>100</b> | 189.0    | 188.0    | 186.5     | 183.5     | 179.5     | 173.5     | 167.5     | 158.5     | 148.0     | 137.0     |
| <b>105</b> | 178.5    | 178.0    | 176.5     | 174.0     | 169.5     | 165.0     | 158.5     | 150.5     | 141.0     | 130.0     |
| <b>110</b> | 169.0    | 168.5    | 167.0     | 165.0     | 161.0     | 156.0     | 149.5     | 142.0     | 133.5     | 123.5     |
| <b>115</b> | 160.0    | 159.5    | 158.0     | 155.5     | 152.0     | 147.5     | 141.5     | 134.0     | 125.5     | 116.5     |
| <b>120</b> | 150.0    | 149.5    | 148.0     | 146.0     | 142.5     | 138.0     | 132.5     | 125.5     | 117.5     | 109.0     |
| <b>125</b> | 139.5    | 139.5    | 138.0     | 136.0     | 132.5     | 128.5     | 123.0     | 116.5     | 109.0     | 101.0     |
| <b>130</b> | 129.0    | 128.5    | 127.5     | 125.5     | 122.0     | 118.0     | 113.5     | 107.5     | 100.5     | 92.0      |
| <b>135</b> | 118.0    | 117.5    | 116.5     | 114.5     | 111.5     | 108.0     | 103.0     | 97.0      | 89.0      | 81.0      |
| <b>140</b> | 106.0    | 105.5    | 104.5     | 103.0     | 100.0     | 96.5      | 91.5      | 84.5      | 77.0      | 70.0      |
| <b>145</b> | 94.0     | 93.5     | 92.5      | 91.0      | 88.5      | 84.0      | 77.5      | 71.5      | 65.5      | 60.0      |
| <b>150</b> | 81.0     | 80.5     | 80.0      | 78.5      | 75.0      | 69.0      | 64.5      | 59.5      | 55.5      | 51.5      |
| <b>155</b> | 68.0     | 67.5     | 67.0      | 64.5      | 59.5      | 55.5      | 51.5      | 49.0      | 46.5      | 43.0      |
| <b>160</b> | 54.0     | 54.0     | 53.0      | 48.5      | 45.0      | 42.0      | 40.5      | 38.5      | 36.0      | 32.5      |
| <b>165</b> | 39.0     | 39.0     | 35.5      | 33.0      | 31.0      | 30.0      | 29.5      | 28.0      | 25.0      | 23.0      |
| <b>170</b> | 24.5     | 23.0     | 20.0      | 18.5      | 19.0      | 19.0      | 18.5      | 17.5      | 16.5      | 15.0      |
| <b>175</b> | 11.0     | 9.0      | 8.5       | 9.5       | 10.0      | 9.5       | 9.5       | 9.5       | 9.0       | 8.5       |
| <b>180</b> | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |

**Vert. Angles**      **Horizontal Angles**

|           | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     | 162.0     |
| <b>5</b>  | 164.0     | 163.0     | 162.0     | 161.5     | 161.0     | 161.0     | 161.5     | 161.5     | 161.5     |
| <b>10</b> | 174.0     | 171.5     | 168.5     | 166.0     | 163.0     | 160.0     | 158.5     | 158.5     | 158.5     |
| <b>15</b> | 183.5     | 179.5     | 175.0     | 170.5     | 166.0     | 161.5     | 156.5     | 154.5     | 155.0     |
| <b>20</b> | 192.5     | 186.5     | 180.0     | 173.5     | 167.5     | 161.0     | 154.5     | 149.5     | 149.5     |
| <b>25</b> | 199.5     | 191.5     | 183.5     | 175.0     | 167.0     | 159.0     | 151.0     | 143.0     | 142.5     |
| <b>30</b> | 205.5     | 196.0     | 186.0     | 175.5     | 165.5     | 155.5     | 146.0     | 136.5     | 134.0     |
| <b>35</b> | 210.0     | 198.5     | 186.5     | 174.5     | 163.0     | 151.0     | 140.0     | 129.5     | 125.0     |
| <b>40</b> | 213.0     | 199.5     | 186.0     | 172.0     | 158.5     | 145.5     | 133.0     | 121.0     | 115.5     |
| <b>45</b> | 214.0     | 198.5     | 183.5     | 168.0     | 153.5     | 139.0     | 125.0     | 112.5     | 105.0     |
| <b>50</b> | 212.5     | 196.0     | 179.5     | 163.0     | 147.0     | 131.5     | 116.5     | 103.0     | 94.0      |
| <b>55</b> | 209.0     | 191.5     | 174.0     | 156.5     | 139.5     | 123.0     | 107.0     | 93.0      | 83.0      |
| <b>60</b> | 203.0     | 185.0     | 167.0     | 148.5     | 131.0     | 114.0     | 97.5      | 82.5      | 72.0      |

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**CANDELA TABULATION - (Cont.)**

|            |       |       |       |       |       |       |      |      |      |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|
| <b>65</b>  | 195.0 | 176.5 | 158.5 | 140.0 | 122.0 | 104.0 | 87.5 | 72.5 | 60.5 |
| <b>70</b>  | 185.0 | 167.0 | 149.0 | 130.0 | 112.0 | 94.0  | 77.0 | 61.5 | 49.0 |
| <b>75</b>  | 171.5 | 157.0 | 139.0 | 120.0 | 102.0 | 84.0  | 67.0 | 51.0 | 41.0 |
| <b>80</b>  | 162.0 | 145.0 | 127.5 | 109.0 | 91.5  | 74.0  | 57.0 | 41.5 | 28.0 |
| <b>85</b>  | 149.0 | 132.5 | 116.0 | 98.5  | 81.0  | 63.5  | 47.5 | 33.0 | 18.5 |
| <b>90</b>  | 137.0 | 121.5 | 105.0 | 87.5  | 71.0  | 53.5  | 39.0 | 22.5 | 9.5  |
| <b>95</b>  | 130.0 | 115.0 | 99.5  | 83.0  | 67.0  | 51.0  | 37.5 | 20.5 | 8.0  |
| <b>100</b> | 124.0 | 110.0 | 95.5  | 80.0  | 65.0  | 49.5  | 37.0 | 20.0 | 7.5  |
| <b>105</b> | 118.5 | 105.0 | 91.5  | 76.5  | 62.0  | 47.0  | 33.5 | 18.5 | 7.0  |
| <b>110</b> | 112.0 | 100.0 | 86.5  | 72.5  | 59.0  | 45.0  | 32.0 | 16.5 | 7.0  |
| <b>115</b> | 105.5 | 94.0  | 82.0  | 69.0  | 56.0  | 43.0  | 29.5 | 15.0 | 6.5  |
| <b>120</b> | 99.0  | 88.0  | 76.5  | 64.5  | 52.5  | 40.0  | 26.5 | 13.0 | 6.0  |
| <b>125</b> | 92.0  | 81.5  | 70.5  | 59.0  | 47.5  | 36.0  | 23.0 | 11.5 | 6.0  |
| <b>130</b> | 82.5  | 72.5  | 62.5  | 52.5  | 42.0  | 31.0  | 19.5 | 10.0 | 5.5  |
| <b>135</b> | 72.5  | 64.0  | 55.0  | 46.0  | 36.5  | 26.5  | 16.5 | 9.0  | 5.5  |
| <b>140</b> | 62.5  | 55.5  | 48.0  | 39.5  | 31.0  | 22.5  | 13.5 | 8.0  | 5.5  |
| <b>145</b> | 54.5  | 48.5  | 41.0  | 33.0  | 25.5  | 18.0  | 11.5 | 7.0  | 5.0  |
| <b>150</b> | 47.0  | 40.5  | 34.0  | 27.5  | 21.0  | 15.0  | 10.0 | 6.5  | 5.0  |
| <b>155</b> | 37.5  | 32.5  | 27.5  | 22.0  | 17.5  | 13.0  | 9.0  | 6.0  | 5.0  |
| <b>160</b> | 28.5  | 25.0  | 21.0  | 17.5  | 14.0  | 11.0  | 8.0  | 5.5  | 5.0  |
| <b>165</b> | 20.5  | 18.0  | 16.0  | 13.5  | 11.0  | 8.5   | 6.5  | 5.0  | 5.0  |
| <b>170</b> | 14.0  | 12.5  | 11.0  | 9.5   | 8.0   | 6.5   | 5.5  | 5.0  | 5.0  |
| <b>175</b> | 8.0   | 7.5   | 6.5   | 6.0   | 5.5   | 5.0   | 5.0  | 4.5  | 4.5  |
| <b>180</b> | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_H6\_WH.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 68.55   | N.A.  | 3.90   |
| 0-30    | 161.89  | N.A.  | 9.10   |
| 0-40    | 296.07  | N.A.  | 16.70  |
| 0-60    | 657.50  | N.A.  | 37.10  |
| 0-80    | 1042.25 | N.A.  | 58.90  |
| 0-90    | 1205.58 | N.A.  | 68.10  |
| 10-90   | 1189.51 | N.A.  | 67.20  |
| 20-40   | 227.51  | N.A.  | 12.80  |
| 20-50   | 396.79  | N.A.  | 22.40  |
| 40-70   | 559.45  | N.A.  | 31.60  |
| 60-80   | 384.75  | N.A.  | 21.70  |
| 70-80   | 186.73  | N.A.  | 10.50  |
| 80-90   | 163.33  | N.A.  | 9.20   |
| 90-110  | 263.38  | N.A.  | 14.90  |
| 90-120  | 366.27  | N.A.  | 20.70  |
| 90-130  | 446.83  | N.A.  | 25.20  |
| 90-150  | 539.45  | N.A.  | 30.50  |
| 90-180  | 565.10  | N.A.  | 31.90  |
| 110-180 | 301.72  | N.A.  | 17.00  |
| 0-180   | 1770.68 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 16.07  |
| 10-20   | 52.48  |
| 20-30   | 93.33  |
| 30-40   | 134.18 |
| 40-50   | 169.28 |
| 50-60   | 192.15 |
| 60-70   | 198.01 |
| 70-80   | 186.73 |
| 80-90   | 163.33 |
| 90-100  | 140.58 |
| 100-110 | 122.80 |
| 110-120 | 102.89 |
| 120-130 | 80.56  |
| 130-140 | 57.10  |
| 140-150 | 35.52  |
| 150-160 | 18.31  |
| 160-170 | 6.46   |
| 170-180 | 0.87   |

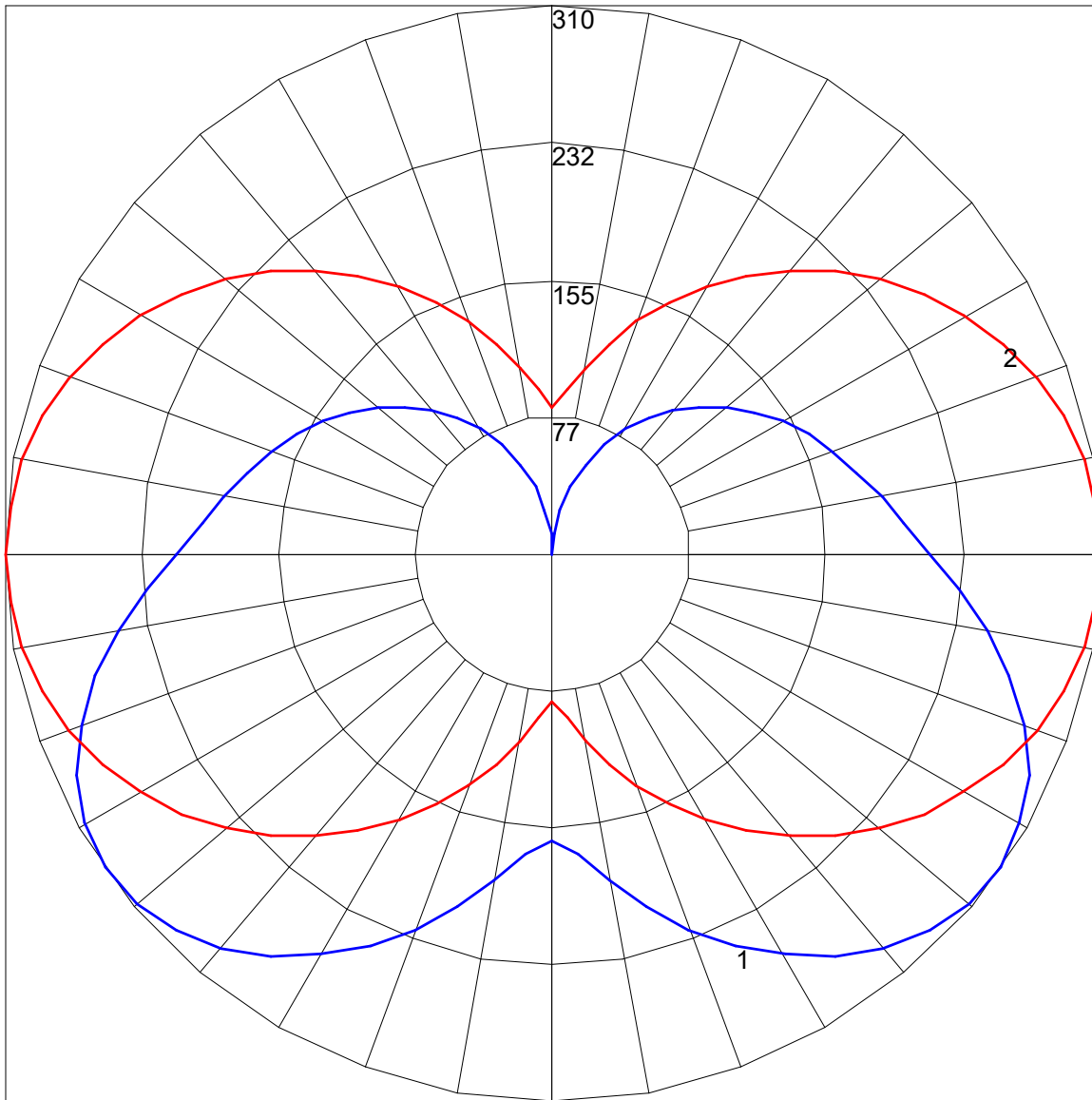
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |
| 1  | 97  | 91  | 85  | 80  | 91  | 85  | 80  | 75  | 75 | 71 | 67 | 66 | 62 | 59 | 57 | 54 | 52 | 48 |
| 2  | 86  | 76  | 68  | 61  | 81  | 72  | 64  | 58  | 63 | 57 | 52 | 55 | 50 | 46 | 47 | 43 | 40 | 36 |
| 3  | 78  | 66  | 56  | 49  | 72  | 62  | 53  | 46  | 54 | 47 | 41 | 47 | 41 | 37 | 40 | 36 | 32 | 28 |
| 4  | 70  | 57  | 47  | 40  | 65  | 54  | 45  | 38  | 47 | 40 | 34 | 41 | 35 | 30 | 35 | 30 | 26 | 23 |
| 5  | 64  | 50  | 40  | 33  | 60  | 47  | 38  | 32  | 41 | 34 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 19 |
| 6  | 59  | 45  | 35  | 28  | 55  | 42  | 33  | 27  | 37 | 29 | 24 | 32 | 26 | 21 | 28 | 23 | 19 | 16 |
| 7  | 54  | 40  | 31  | 24  | 50  | 38  | 29  | 23  | 33 | 26 | 21 | 29 | 23 | 18 | 25 | 20 | 16 | 14 |
| 8  | 50  | 36  | 27  | 21  | 47  | 34  | 26  | 20  | 30 | 23 | 18 | 26 | 20 | 16 | 23 | 18 | 14 | 12 |
| 9  | 47  | 33  | 24  | 19  | 43  | 31  | 23  | 18  | 27 | 21 | 16 | 24 | 18 | 14 | 21 | 16 | 12 | 10 |
| 10 | 43  | 30  | 22  | 16  | 41  | 28  | 21  | 16  | 25 | 19 | 14 | 22 | 17 | 13 | 19 | 15 | 11 | 9  |

POLAR GRAPH



Maximum Candela = 309.5 Located At Horizontal Angle = 0, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)