

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3R-LL-00-3-35-LG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3156
 [ECN] 3166
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 6/28/2017 12:47:48 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3R-LL-00-3-35-LG
 [LUMINAIRE] Gray PVC housing with lightly frosted lens
 [LAMP] Twenty-four (24) white LEDs (3500K)
 [ELECTRICALS] 24.47 VDC, 0.13 A, 1.00 PF

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 343 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 106 |
| Total Luminaire Watts | 3.24 |
| Ballast Factor | 1.00 |
| CIE Type | Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.05 ft |
| Luminous Width (90-270) | 1.00 ft |
| Luminous Height | 0.02 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 0 | 0 | 0 |
| 55 | 29 | 34 | 103 |
| 65 | 71 | 107 | 382 |
| 75 | 131 | 252 | 867 |
| 85 | 496 | 958 | 2172 |

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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> |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60.0 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.27 | 0.27 |
| 70.0 | 0.29 | 0.30 | 0.31 | 0.33 | 0.34 | 0.36 | 0.38 | 0.41 | 0.43 | 0.45 |
| 80.0 | 0.53 | 0.54 | 0.54 | 0.58 | 0.62 | 0.67 | 0.71 | 0.78 | 0.84 | 0.89 |
| 90.0 | 1.82 | 1.91 | 2.01 | 2.04 | 2.08 | 2.15 | 2.21 | 2.34 | 2.47 | 2.69 |
| 92.5 | 3.26 | 3.40 | 3.54 | 3.61 | 3.67 | 3.74 | 3.81 | 3.92 | 4.03 | 4.27 |
| 95.0 | 5.65 | 5.77 | 5.88 | 5.96 | 6.05 | 6.04 | 6.03 | 6.06 | 6.09 | 6.20 |
| 97.5 | 7.94 | 7.86 | 7.78 | 7.75 | 7.72 | 7.60 | 7.47 | 7.39 | 7.30 | 7.50 |
| 100.0 | 8.27 | 8.20 | 8.13 | 8.04 | 7.95 | 7.88 | 7.80 | 8.02 | 8.23 | 8.93 |
| 102.5 | 7.93 | 7.96 | 7.99 | 8.07 | 8.15 | 8.46 | 8.77 | 9.52 | 10.27 | 11.47 |
| 105.0 | 8.61 | 8.85 | 9.08 | 9.46 | 9.84 | 10.65 | 11.44 | 12.76 | 14.06 | 15.62 |
| 107.5 | 11.68 | 12.04 | 12.39 | 13.16 | 13.92 | 15.24 | 16.55 | 18.30 | 20.04 | 21.51 |
| 110.0 | 18.13 | 18.60 | 19.07 | 20.17 | 21.27 | 22.98 | 24.68 | 26.28 | 27.88 | 28.70 |
| 112.5 | 28.87 | 29.31 | 29.74 | 30.89 | 32.03 | 33.33 | 34.63 | 35.40 | 36.16 | 36.06 |
| 115.0 | 41.98 | 42.13 | 42.26 | 42.94 | 43.62 | 44.00 | 44.37 | 44.02 | 43.66 | 42.78 |
| 117.5 | 53.76 | 53.53 | 53.31 | 53.33 | 53.36 | 52.65 | 51.94 | 50.79 | 49.64 | 48.51 |
| 120.0 | 61.10 | 60.72 | 60.34 | 59.77 | 59.20 | 58.12 | 57.04 | 55.88 | 54.71 | 53.82 |
| 122.5 | 64.06 | 63.83 | 63.60 | 63.11 | 62.62 | 61.89 | 61.16 | 60.50 | 59.83 | 59.20 |
| 125.0 | 66.36 | 66.40 | 66.44 | 66.23 | 66.02 | 65.78 | 65.53 | 65.33 | 65.12 | 64.65 |
| 127.5 | 69.74 | 69.87 | 70.01 | 70.08 | 70.16 | 70.29 | 70.42 | 70.40 | 70.39 | 70.02 |
| 130.0 | 73.96 | 74.19 | 74.41 | 74.62 | 74.82 | 75.07 | 75.31 | 75.32 | 75.31 | 75.07 |
| 132.5 | 78.62 | 78.82 | 79.01 | 79.26 | 79.50 | 79.70 | 79.89 | 79.96 | 80.02 | 79.87 |
| 135.0 | 83.33 | 83.43 | 83.53 | 83.73 | 83.91 | 84.08 | 84.24 | 84.30 | 84.35 | 84.26 |
| 137.5 | 87.89 | 87.87 | 87.84 | 87.96 | 88.07 | 88.15 | 88.22 | 88.29 | 88.35 | 88.26 |
| 140.0 | 91.98 | 91.91 | 91.84 | 91.89 | 91.94 | 91.95 | 91.95 | 91.97 | 91.98 | 91.88 |
| 142.5 | 95.35 | 95.34 | 95.33 | 95.37 | 95.39 | 95.37 | 95.34 | 95.30 | 95.26 | 95.22 |
| 145.0 | 98.30 | 98.32 | 98.34 | 98.39 | 98.44 | 98.40 | 98.35 | 98.33 | 98.31 | 98.35 |
| 147.5 | 101.02 | 101.06 | 101.10 | 101.14 | 101.17 | 101.15 | 101.13 | 101.17 | 101.19 | 101.26 |
| 150.0 | 103.65 | 103.65 | 103.64 | 103.66 | 103.68 | 103.70 | 103.71 | 103.76 | 103.81 | 103.88 |
| 152.5 | 106.10 | 106.08 | 106.06 | 106.04 | 106.01 | 106.06 | 106.10 | 106.17 | 106.23 | 106.31 |
| 155.0 | 108.33 | 108.27 | 108.20 | 108.17 | 108.13 | 108.20 | 108.26 | 108.37 | 108.48 | 108.52 |
| 157.5 | 110.24 | 110.19 | 110.13 | 110.11 | 110.08 | 110.17 | 110.26 | 110.34 | 110.42 | 110.46 |
| 160.0 | 111.92 | 111.92 | 111.92 | 111.88 | 111.84 | 111.94 | 112.04 | 112.08 | 112.11 | 112.16 |
| 162.5 | 113.50 | 113.49 | 113.48 | 113.49 | 113.50 | 113.55 | 113.60 | 113.63 | 113.65 | 113.67 |
| 165.0 | 114.94 | 114.91 | 114.89 | 114.89 | 114.89 | 114.89 | 114.89 | 114.93 | 114.98 | 115.02 |
| 167.5 | 116.14 | 116.08 | 116.02 | 116.02 | 116.01 | 116.06 | 116.10 | 116.08 | 116.07 | 116.15 |
| 170.0 | 117.23 | 117.13 | 117.03 | 117.03 | 117.02 | 117.05 | 117.07 | 117.07 | 117.06 | 117.07 |
| 172.5 | 118.02 | 117.93 | 117.84 | 117.80 | 117.75 | 117.80 | 117.83 | 117.80 | 117.76 | 117.75 |
| 175.0 | 118.56 | 118.44 | 118.32 | 118.28 | 118.23 | 118.26 | 118.29 | 118.24 | 118.19 | 118.18 |
| 177.5 | 118.85 | 118.72 | 118.59 | 118.56 | 118.54 | 118.56 | 118.59 | 118.55 | 118.50 | 118.49 |
| 180.0 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 |

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> |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 40.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60.0 | 0.26 | 0.26 | 0.25 | 0.30 | 0.33 | 0.42 | 0.49 | 0.54 | 0.59 |
| 70.0 | 0.46 | 0.44 | 0.41 | 0.39 | 0.36 | 0.51 | 0.65 | 0.85 | 1.04 |
| 80.0 | 0.93 | 0.93 | 0.91 | 0.83 | 0.73 | 0.73 | 0.73 | 1.02 | 1.30 |
| 90.0 | 2.91 | 3.16 | 3.41 | 3.27 | 3.12 | 2.34 | 1.55 | 1.26 | 0.97 |
| 92.5 | 4.50 | 4.76 | 5.00 | 4.88 | 4.75 | 3.86 | 2.97 | 2.41 | 1.84 |
| 95.0 | 6.31 | 6.55 | 6.78 | 6.81 | 6.84 | 6.03 | 5.21 | 4.55 | 3.89 |
| 97.5 | 7.69 | 8.25 | 8.80 | 9.13 | 9.45 | 8.73 | 8.00 | 7.35 | 6.70 |
| 100.0 | 9.61 | 10.60 | 11.59 | 12.13 | 12.66 | 11.94 | 11.22 | 10.59 | 9.96 |
| 102.5 | 12.68 | 14.05 | 15.41 | 15.94 | 16.45 | 15.70 | 14.94 | 14.32 | 13.70 |
| 105.0 | 17.18 | 18.62 | 20.06 | 20.41 | 20.76 | 19.95 | 19.13 | 18.52 | 17.90 |
| 107.5 | 22.97 | 24.09 | 25.19 | 25.23 | 25.26 | 24.34 | 23.43 | 22.88 | 22.33 |
| 110.0 | 29.51 | 29.91 | 30.31 | 30.01 | 29.71 | 28.83 | 27.94 | 27.48 | 27.01 |
| 112.5 | 35.97 | 35.55 | 35.12 | 34.62 | 34.11 | 33.31 | 32.51 | 32.13 | 31.74 |
| 115.0 | 41.90 | 40.98 | 40.05 | 39.37 | 38.67 | 37.88 | 37.09 | 36.78 | 36.46 |
| 117.5 | 47.38 | 46.33 | 45.28 | 44.40 | 43.51 | 42.76 | 41.99 | 41.67 | 41.35 |
| 120.0 | 52.92 | 51.93 | 50.93 | 49.86 | 48.78 | 47.97 | 47.15 | 46.85 | 46.55 |
| 122.5 | 58.57 | 57.70 | 56.83 | 55.68 | 54.52 | 53.61 | 52.69 | 52.39 | 52.09 |
| 125.0 | 64.18 | 63.47 | 62.75 | 61.66 | 60.55 | 59.68 | 58.80 | 58.48 | 58.16 |
| 127.5 | 69.64 | 69.09 | 68.53 | 67.60 | 66.66 | 65.92 | 65.17 | 64.86 | 64.55 |
| 130.0 | 74.82 | 74.39 | 73.95 | 73.24 | 72.53 | 72.00 | 71.47 | 71.26 | 71.04 |
| 132.5 | 79.70 | 79.31 | 78.92 | 78.44 | 77.95 | 77.60 | 77.25 | 77.09 | 76.94 |
| 135.0 | 84.16 | 83.84 | 83.52 | 83.22 | 82.91 | 82.68 | 82.44 | 82.32 | 82.20 |
| 137.5 | 88.16 | 88.00 | 87.84 | 87.64 | 87.44 | 87.24 | 87.04 | 86.95 | 86.85 |
| 140.0 | 91.78 | 91.78 | 91.76 | 91.69 | 91.61 | 91.46 | 91.29 | 91.25 | 91.20 |
| 142.5 | 95.16 | 95.24 | 95.32 | 95.36 | 95.41 | 95.30 | 95.20 | 95.20 | 95.20 |
| 145.0 | 98.39 | 98.48 | 98.56 | 98.58 | 98.60 | 98.65 | 98.69 | 98.73 | 98.77 |
| 147.5 | 101.32 | 101.40 | 101.48 | 101.49 | 101.49 | 101.59 | 101.68 | 101.76 | 101.84 |
| 150.0 | 103.94 | 104.01 | 104.07 | 104.11 | 104.14 | 104.24 | 104.33 | 104.40 | 104.46 |
| 152.5 | 106.38 | 106.39 | 106.40 | 106.41 | 106.42 | 106.53 | 106.64 | 106.73 | 106.82 |
| 155.0 | 108.56 | 108.55 | 108.54 | 108.55 | 108.56 | 108.63 | 108.69 | 108.74 | 108.78 |
| 157.5 | 110.49 | 110.52 | 110.54 | 110.53 | 110.53 | 110.51 | 110.49 | 110.51 | 110.53 |
| 160.0 | 112.20 | 112.25 | 112.29 | 112.30 | 112.32 | 112.28 | 112.24 | 112.21 | 112.18 |
| 162.5 | 113.70 | 113.74 | 113.77 | 113.78 | 113.78 | 113.73 | 113.68 | 113.68 | 113.67 |
| 165.0 | 115.06 | 115.06 | 115.05 | 115.06 | 115.08 | 115.00 | 114.91 | 114.89 | 114.86 |
| 167.5 | 116.23 | 116.21 | 116.18 | 116.16 | 116.14 | 116.04 | 115.93 | 115.93 | 115.93 |
| 170.0 | 117.07 | 117.08 | 117.07 | 117.03 | 116.98 | 116.90 | 116.82 | 116.84 | 116.86 |
| 172.5 | 117.73 | 117.72 | 117.70 | 117.64 | 117.58 | 117.52 | 117.45 | 117.47 | 117.49 |
| 175.0 | 118.16 | 118.15 | 118.14 | 118.10 | 118.06 | 118.03 | 117.99 | 118.03 | 118.07 |
| 177.5 | 118.47 | 118.46 | 118.43 | 118.42 | 118.41 | 118.37 | 118.32 | 118.35 | 118.37 |
| 180.0 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 0.00 | N.A. | 0.00 |
| 0-30 | 0.00 | N.A. | 0.00 |
| 0-40 | 0.00 | N.A. | 0.00 |
| 0-60 | 0.14 | N.A. | 0.00 |
| 0-80 | 1.16 | N.A. | 0.30 |
| 0-90 | 2.87 | N.A. | 0.80 |
| 10-90 | 2.87 | N.A. | 0.80 |
| 20-40 | 0.00 | N.A. | 0.00 |
| 20-50 | 0.00 | N.A. | 0.00 |
| 40-70 | 0.52 | N.A. | 0.20 |
| 60-80 | 1.02 | N.A. | 0.30 |
| 70-80 | 0.64 | N.A. | 0.20 |
| 80-90 | 1.70 | N.A. | 0.50 |
| 90-110 | 23.36 | N.A. | 6.80 |
| 90-120 | 63.56 | N.A. | 18.50 |
| 90-130 | 120.52 | N.A. | 35.10 |
| 90-150 | 246.39 | N.A. | 71.80 |
| 90-180 | 340.11 | N.A. | 99.20 |
| 110-180 | 316.75 | N.A. | 92.40 |
| 0-180 | 342.98 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.00 |
| 10-20 | 0.00 |
| 20-30 | 0.00 |
| 30-40 | 0.00 |
| 40-50 | 0.00 |
| 50-60 | 0.14 |
| 60-70 | 0.38 |
| 70-80 | 0.64 |
| 80-90 | 1.70 |
| 90-100 | 6.48 |
| 100-110 | 16.88 |
| 110-120 | 40.20 |
| 120-130 | 56.97 |
| 130-140 | 64.30 |
| 140-150 | 61.56 |
| 150-160 | 50.01 |
| 160-170 | 32.47 |
| 170-180 | 11.24 |

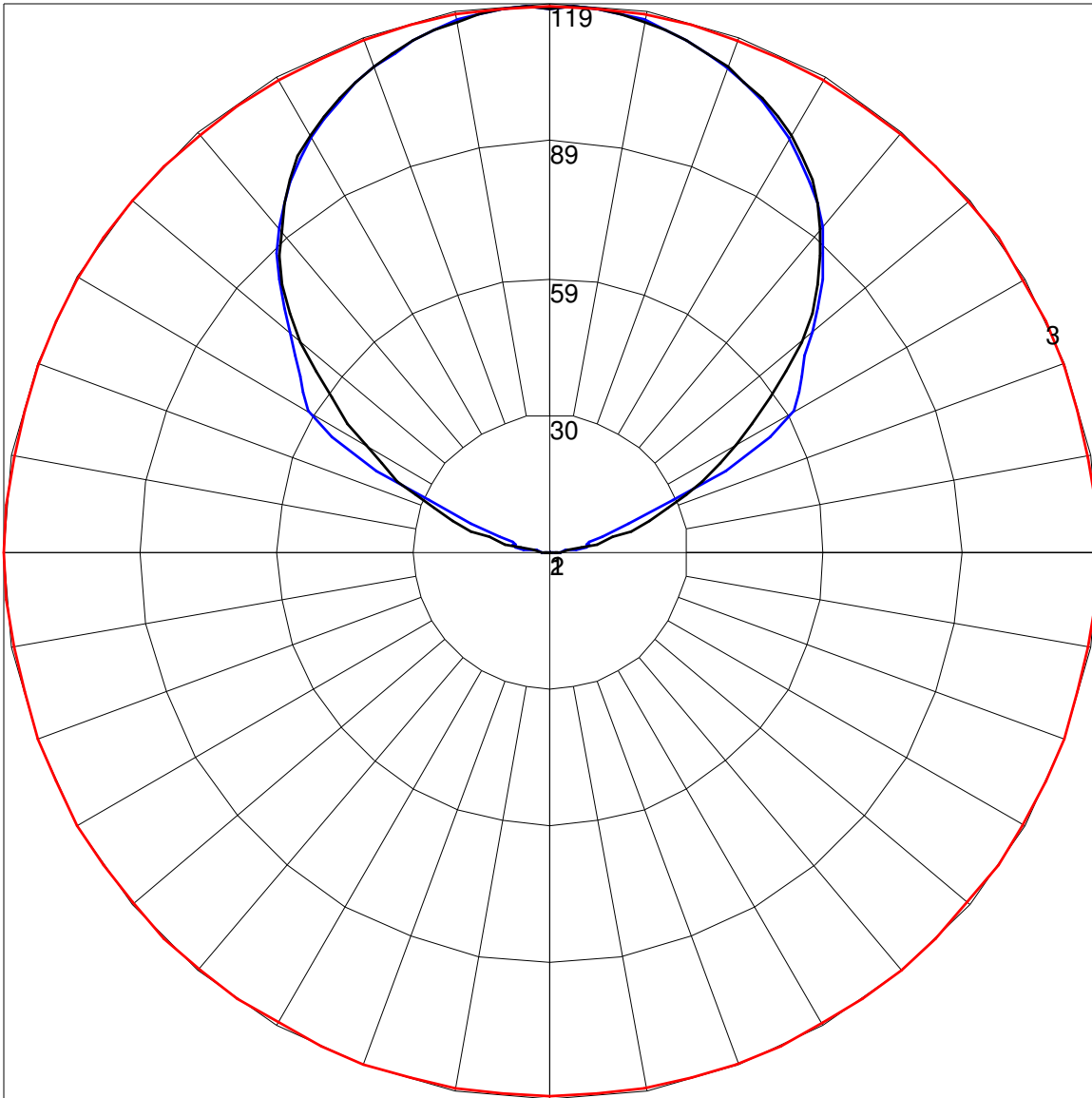
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | |
| 0 | 95 | 95 | 95 | 95 | 82 | 82 | 82 | 82 | 56 | 56 | 56 | 33 | 33 | 33 | 11 | 11 | 11 | 1 |
| 1 | 87 | 82 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 9 | 0 |
| 2 | 79 | 72 | 66 | 61 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 25 | 23 | 22 | 8 | 8 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 22 | 20 | 18 | 7 | 7 | 6 | 0 |
| 4 | 65 | 55 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 15 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 16 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 46 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

POLAR GRAPH



Maximum Candela = 118.85 Located At Horizontal Angle = 0, Vertical Angle = 177.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)