



1961 McGaw Ave, Irvine, CA 92614
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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R-DL-0-5-35NA-.5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4264
 [ECN] 4047
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 6/4/2020 6:45:12 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4S-DL-0-5-35NA-.5
 [LUMINAIRE] Natural anodized aluminum housing with half round dome lens, lightly frosted
 [LAMP] Seven (7) white LEDs (3500K)
 [_ELECTRICALS] 24.02 VDC, 0.10 A, 1.00 PF

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 288 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 121 |
| Total Luminaire Watts | 2.37 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.06 ft |
| Luminous Width (90-270) | 0.43 ft |
| Luminous Height | 0.04 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 22284 | 23530 | 33263 |
| 55 | 18896 | 19678 | 30638 |
| 65 | 15163 | 15352 | 27496 |
| 75 | 9973 | 10148 | 22399 |
| 85 | 4911 | 5378 | 10336 |

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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 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 |
| 2.5 | 93.18 | 93.04 | 92.89 | 92.92 | 92.94 | 92.95 | 92.95 | 92.97 | 92.98 | 92.97 |
| 5.0 | 93.24 | 93.09 | 92.94 | 93.00 | 93.04 | 93.06 | 93.07 | 93.09 | 93.11 | 93.12 |
| 7.5 | 93.14 | 92.99 | 92.83 | 92.90 | 92.96 | 93.00 | 93.04 | 93.05 | 93.07 | 93.12 |
| 10.0 | 92.58 | 92.42 | 92.26 | 92.33 | 92.40 | 92.43 | 92.46 | 92.55 | 92.64 | 92.69 |
| 12.5 | 91.53 | 91.42 | 91.31 | 91.39 | 91.45 | 91.53 | 91.59 | 91.72 | 91.84 | 91.91 |
| 15.0 | 90.28 | 90.27 | 90.26 | 90.42 | 90.59 | 90.67 | 90.75 | 90.82 | 90.89 | 91.04 |
| 17.5 | 89.47 | 89.38 | 89.29 | 89.43 | 89.57 | 89.64 | 89.72 | 89.82 | 89.90 | 89.99 |
| 20.0 | 88.41 | 88.32 | 88.22 | 88.37 | 88.52 | 88.56 | 88.59 | 88.69 | 88.79 | 88.80 |
| 22.5 | 87.25 | 87.06 | 86.86 | 86.99 | 87.11 | 87.24 | 87.36 | 87.43 | 87.49 | 87.34 |
| 25.0 | 85.84 | 85.58 | 85.31 | 85.47 | 85.63 | 85.75 | 85.87 | 85.91 | 85.95 | 85.62 |
| 27.5 | 84.11 | 83.89 | 83.67 | 83.87 | 84.06 | 84.04 | 84.02 | 84.01 | 84.00 | 83.59 |
| 30.0 | 81.73 | 81.65 | 81.56 | 81.80 | 82.03 | 82.00 | 81.96 | 81.85 | 81.75 | 81.25 |
| 32.5 | 78.95 | 78.95 | 78.94 | 79.24 | 79.53 | 79.64 | 79.75 | 79.58 | 79.41 | 78.83 |
| 35.0 | 76.54 | 76.45 | 76.35 | 76.60 | 76.84 | 77.02 | 77.20 | 76.95 | 76.69 | 76.14 |
| 37.5 | 73.98 | 73.83 | 73.69 | 73.96 | 74.24 | 74.26 | 74.27 | 73.89 | 73.49 | 73.08 |
| 40.0 | 71.27 | 71.17 | 71.07 | 71.26 | 71.44 | 71.33 | 71.21 | 70.70 | 70.19 | 69.86 |
| 42.5 | 68.31 | 68.20 | 68.10 | 68.25 | 68.40 | 68.25 | 68.10 | 67.45 | 66.80 | 66.69 |
| 45.0 | 65.19 | 65.02 | 64.85 | 65.09 | 65.33 | 65.18 | 65.03 | 64.33 | 63.62 | 63.62 |
| 47.5 | 61.69 | 61.57 | 61.44 | 61.87 | 62.29 | 62.08 | 61.87 | 61.14 | 60.41 | 60.45 |
| 50.0 | 58.15 | 58.12 | 58.08 | 58.44 | 58.79 | 58.58 | 58.37 | 57.69 | 57.01 | 56.98 |
| 52.5 | 55.23 | 55.13 | 55.03 | 55.16 | 55.28 | 55.06 | 54.85 | 54.15 | 53.45 | 53.32 |
| 55.0 | 52.52 | 52.38 | 52.23 | 52.13 | 52.02 | 51.66 | 51.30 | 50.54 | 49.77 | 49.64 |
| 57.5 | 49.72 | 49.33 | 48.93 | 48.85 | 48.77 | 48.24 | 47.71 | 46.82 | 45.93 | 45.74 |
| 60.0 | 46.29 | 45.82 | 45.34 | 45.36 | 45.36 | 44.83 | 44.29 | 43.24 | 42.19 | 41.83 |
| 62.5 | 42.54 | 42.23 | 41.93 | 41.83 | 41.73 | 41.22 | 40.70 | 39.73 | 38.76 | 38.23 |
| 65.0 | 38.65 | 38.39 | 38.13 | 38.02 | 37.90 | 37.47 | 37.03 | 36.23 | 35.42 | 34.77 |
| 67.5 | 34.39 | 34.09 | 33.79 | 33.76 | 33.72 | 33.38 | 33.04 | 32.41 | 31.78 | 31.17 |
| 70.0 | 30.08 | 29.85 | 29.61 | 29.54 | 29.47 | 29.10 | 28.73 | 28.27 | 27.81 | 27.43 |
| 72.5 | 26.06 | 25.89 | 25.72 | 25.50 | 25.27 | 24.87 | 24.45 | 24.08 | 23.71 | 23.54 |
| 75.0 | 22.35 | 22.18 | 22.01 | 21.83 | 21.65 | 21.13 | 20.61 | 20.30 | 19.98 | 19.67 |
| 77.5 | 18.64 | 18.65 | 18.64 | 18.46 | 18.26 | 17.82 | 17.38 | 17.00 | 16.61 | 16.21 |
| 80.0 | 15.45 | 15.39 | 15.33 | 15.17 | 15.01 | 14.65 | 14.29 | 13.97 | 13.65 | 13.26 |
| 82.5 | 12.42 | 12.30 | 12.18 | 12.10 | 12.02 | 11.78 | 11.53 | 11.27 | 11.01 | 10.68 |
| 85.0 | 9.16 | 9.12 | 9.07 | 9.03 | 8.98 | 8.88 | 8.78 | 8.67 | 8.55 | 8.35 |
| 87.5 | 6.77 | 6.71 | 6.65 | 6.62 | 6.57 | 6.56 | 6.55 | 6.51 | 6.46 | 6.37 |
| 90.0 | 5.29 | 5.26 | 5.22 | 5.18 | 5.13 | 5.14 | 5.14 | 5.12 | 5.10 | 5.04 |
| 100.0 | 3.70 | 3.66 | 3.61 | 3.54 | 3.47 | 3.41 | 3.36 | 3.24 | 3.12 | 2.97 |
| 110.0 | 2.31 | 2.26 | 2.19 | 2.04 | 1.89 | 1.72 | 1.54 | 1.34 | 1.15 | 0.96 |
| 120.0 | 0.43 | 0.43 | 0.43 | 0.41 | 0.38 | 0.36 | 0.32 | 0.30 | 0.27 | 0.23 |
| 130.0 | 0.21 | 0.20 | 0.19 | 0.19 | 0.19 | 0.18 | 0.17 | 0.16 | 0.15 | 0.15 |
| 140.0 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.17 | 0.00 | 0.00 | 0.00 |
| 150.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 | 93.17 |
| 2.5 | 92.96 | 93.02 | 93.09 | 93.23 | 93.37 | 93.42 | 93.45 | 93.49 | 93.52 |
| 5.0 | 93.12 | 93.16 | 93.21 | 93.33 | 93.44 | 93.50 | 93.56 | 93.60 | 93.63 |
| 7.5 | 93.17 | 93.18 | 93.18 | 93.33 | 93.48 | 93.57 | 93.64 | 93.67 | 93.70 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.0 | 92.73 | 92.78 | 92.82 | 92.96 | 93.09 | 93.12 | 93.15 | 93.20 | 93.24 |
| 12.5 | 91.97 | 92.04 | 92.09 | 92.23 | 92.36 | 92.38 | 92.39 | 92.41 | 92.42 |
| 15.0 | 91.18 | 91.26 | 91.33 | 91.39 | 91.44 | 91.45 | 91.47 | 91.53 | 91.59 |
| 17.5 | 90.07 | 90.17 | 90.28 | 90.34 | 90.40 | 90.30 | 90.20 | 90.21 | 90.21 |
| 20.0 | 88.79 | 88.82 | 88.84 | 88.81 | 88.78 | 88.65 | 88.52 | 88.47 | 88.41 |
| 22.5 | 87.20 | 87.07 | 86.95 | 86.86 | 86.77 | 86.51 | 86.25 | 86.22 | 86.19 |
| 25.0 | 85.29 | 85.04 | 84.78 | 84.64 | 84.49 | 84.15 | 83.80 | 83.80 | 83.78 |
| 27.5 | 83.17 | 82.83 | 82.49 | 82.34 | 82.18 | 81.87 | 81.56 | 81.46 | 81.35 |
| 30.0 | 80.75 | 80.36 | 79.97 | 79.89 | 79.80 | 79.58 | 79.36 | 79.34 | 79.32 |
| 32.5 | 78.24 | 77.75 | 77.24 | 77.24 | 77.24 | 77.26 | 77.28 | 77.26 | 77.25 |
| 35.0 | 75.58 | 75.14 | 74.69 | 74.76 | 74.83 | 74.98 | 75.12 | 75.08 | 75.03 |
| 37.5 | 72.66 | 72.44 | 72.21 | 72.31 | 72.42 | 72.59 | 72.77 | 72.72 | 72.66 |
| 40.0 | 69.52 | 69.51 | 69.49 | 69.68 | 69.86 | 70.00 | 70.12 | 70.07 | 70.02 |
| 42.5 | 66.57 | 66.64 | 66.71 | 66.88 | 67.04 | 67.14 | 67.24 | 67.22 | 67.19 |
| 45.0 | 63.60 | 63.76 | 63.90 | 63.99 | 64.08 | 64.07 | 64.06 | 64.07 | 64.08 |
| 47.5 | 60.48 | 60.70 | 60.92 | 60.95 | 60.97 | 60.83 | 60.68 | 60.73 | 60.78 |
| 50.0 | 56.95 | 57.19 | 57.43 | 57.52 | 57.60 | 57.40 | 57.20 | 57.23 | 57.26 |
| 52.5 | 53.19 | 53.44 | 53.68 | 53.80 | 53.92 | 53.75 | 53.57 | 53.56 | 53.55 |
| 55.0 | 49.50 | 49.68 | 49.86 | 49.99 | 50.11 | 49.93 | 49.76 | 49.73 | 49.70 |
| 57.5 | 45.55 | 45.72 | 45.89 | 46.02 | 46.15 | 45.93 | 45.70 | 45.73 | 45.75 |
| 60.0 | 41.47 | 41.58 | 41.69 | 41.74 | 41.79 | 41.65 | 41.50 | 41.60 | 41.70 |
| 62.5 | 37.70 | 37.52 | 37.33 | 37.35 | 37.36 | 37.43 | 37.49 | 37.86 | 38.23 |
| 65.0 | 34.12 | 33.67 | 33.21 | 33.08 | 32.95 | 33.43 | 33.89 | 34.39 | 34.88 |
| 67.5 | 30.55 | 29.92 | 29.29 | 28.99 | 28.69 | 29.41 | 30.13 | 30.64 | 31.15 |
| 70.0 | 27.05 | 26.28 | 25.51 | 25.06 | 24.61 | 25.44 | 26.28 | 26.91 | 27.54 |
| 72.5 | 23.36 | 22.61 | 21.85 | 21.31 | 20.75 | 21.48 | 22.21 | 22.90 | 23.58 |
| 75.0 | 19.36 | 18.81 | 18.27 | 17.71 | 17.15 | 17.64 | 18.12 | 18.88 | 19.63 |
| 77.5 | 15.81 | 15.26 | 14.71 | 14.22 | 13.74 | 13.97 | 14.19 | 14.97 | 15.75 |
| 80.0 | 12.86 | 12.27 | 11.67 | 11.15 | 10.64 | 10.60 | 10.55 | 11.20 | 11.85 |
| 82.5 | 10.35 | 9.79 | 9.22 | 8.66 | 8.09 | 7.79 | 7.49 | 7.73 | 7.98 |
| 85.0 | 8.15 | 7.73 | 7.30 | 6.78 | 6.24 | 5.74 | 5.24 | 4.99 | 4.73 |
| 87.5 | 6.27 | 6.01 | 5.75 | 5.33 | 4.91 | 4.38 | 3.84 | 3.26 | 2.67 |
| 90.0 | 4.98 | 4.83 | 4.66 | 4.35 | 4.03 | 3.58 | 3.13 | 2.59 | 2.04 |
| 100.0 | 2.82 | 2.54 | 2.25 | 1.72 | 1.18 | 1.00 | 0.81 | 1.39 | 1.97 |
| 110.0 | 0.76 | 0.59 | 0.43 | 0.28 | 0.13 | 0.12 | 0.10 | 0.10 | 0.10 |
| 120.0 | 0.19 | 0.16 | 0.13 | 0.12 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130.0 | 0.14 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 34.58 | N.A. | 12.00 |
| 0-30 | 73.81 | N.A. | 25.60 |
| 0-40 | 121.30 | N.A. | 42.10 |
| 0-60 | 216.11 | N.A. | 75.10 |
| 0-80 | 272.24 | N.A. | 94.60 |
| 0-90 | 281.10 | N.A. | 97.70 |
| 10-90 | 272.21 | N.A. | 94.60 |
| 20-40 | 86.71 | N.A. | 30.10 |
| 20-50 | 136.33 | N.A. | 47.40 |
| 40-70 | 129.85 | N.A. | 45.10 |
| 60-80 | 56.13 | N.A. | 19.50 |
| 70-80 | 21.09 | N.A. | 7.30 |
| 80-90 | 8.85 | N.A. | 3.10 |
| 90-110 | 5.84 | N.A. | 2.00 |
| 90-120 | 6.47 | N.A. | 2.20 |
| 90-130 | 6.62 | N.A. | 2.30 |
| 90-150 | 6.71 | N.A. | 2.30 |
| 90-180 | 6.71 | N.A. | 2.30 |
| 110-180 | 0.87 | N.A. | 0.30 |
| 0-180 | 287.81 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 8.89 |
| 10-20 | 25.70 |
| 20-30 | 39.23 |
| 30-40 | 47.49 |
| 40-50 | 49.61 |
| 50-60 | 45.20 |
| 60-70 | 35.04 |
| 70-80 | 21.09 |
| 80-90 | 8.85 |
| 90-100 | 3.91 |
| 100-110 | 1.93 |
| 110-120 | 0.63 |
| 120-130 | 0.15 |
| 130-140 | 0.07 |
| 140-150 | 0.02 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

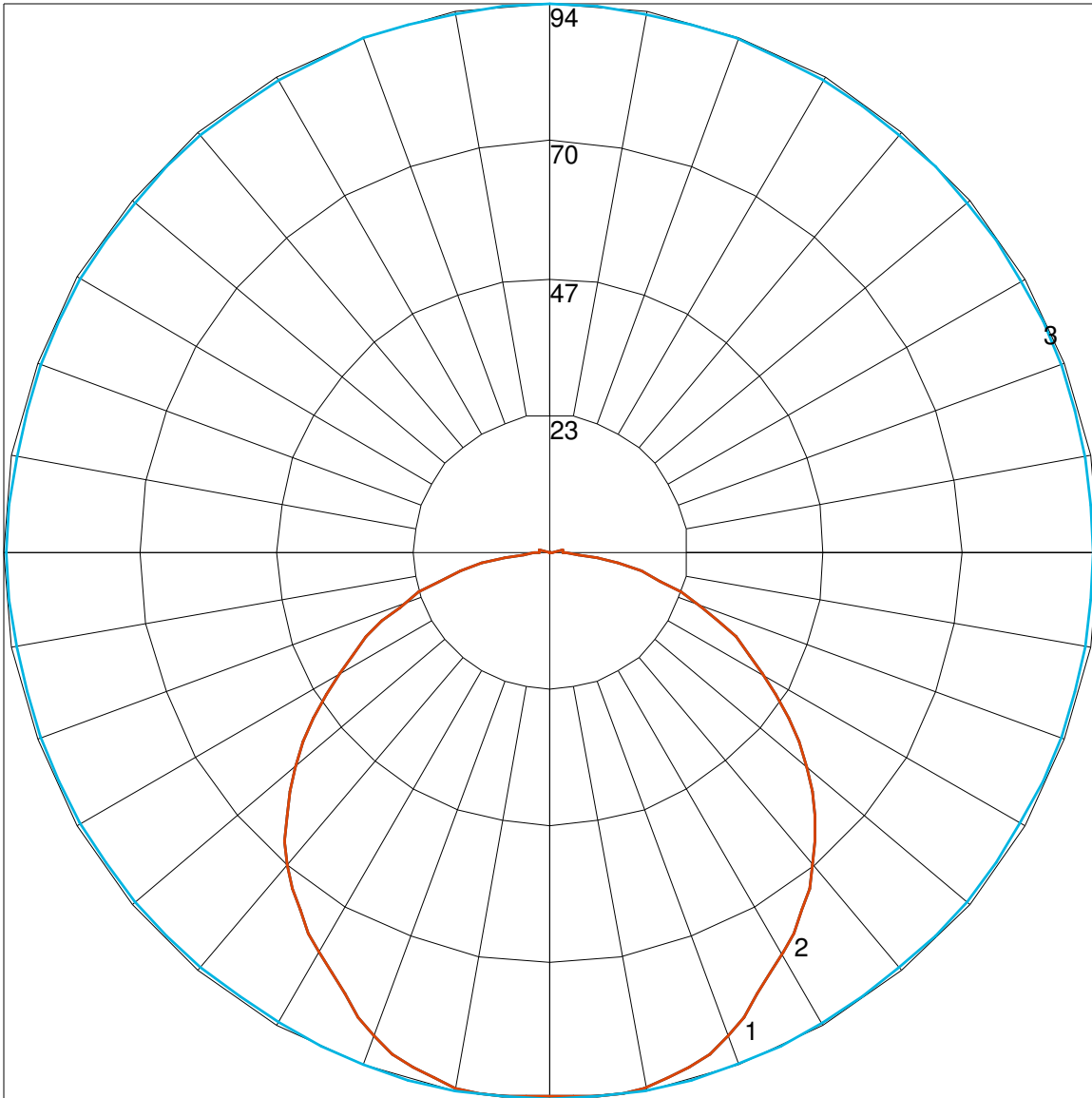
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 108 | 102 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 80 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 60 | 54 | 50 | 47 |
| 5 | 75 | 61 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 34 | 30 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 |

POLAR GRAPH



Maximum Candela = 93.7 Located At Horizontal Angle = 90, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)