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IES INDOOR REPORT PHOTOMETRIC FILENAME : C3DX-FL-0-6-3TW2S-LG-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4185
[_ECN] 4072
[TESTLAB] Tempo LLC
[ISSUEDATE] 4/9/2020 10:53:16 AM
[MANUFAC] Tempo LLC
[LUMCAT] C3DX-FL-0-6-3TW2S-LG-1
[LUMINAIRE] Gray PVC housing with frosted lens
[LAMP] Twenty-One (21) White LEDs (1600K, 3000K, 5000K)
[_ELECTRICALS] 23.98 VDC, 0.25 A, 1.00 PF

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 526 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 89 |
| Total Luminaire Watts | 5.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.06 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 | 22279 | 22641 | 26242 |
| 55 | 19991 | 20133 | 23977 |
| 65 | 17909 | 17655 | 21252 |
| 75 | 16073 | 15266 | 16958 |
| 85 | 15108 | 13285 | 8674 |

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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 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 |
| 2.5 | 169.70 | 169.62 | 169.53 | 169.46 | 169.39 | 169.32 | 169.23 | 169.18 | 169.12 | 169.03 |
| 5.0 | 169.21 | 169.11 | 168.99 | 168.90 | 168.81 | 168.74 | 168.66 | 168.58 | 168.49 | 168.39 |
| 7.5 | 168.22 | 168.13 | 168.05 | 167.97 | 167.88 | 167.76 | 167.64 | 167.56 | 167.47 | 167.33 |
| 10.0 | 166.87 | 166.79 | 166.72 | 166.64 | 166.55 | 166.41 | 166.26 | 166.14 | 166.02 | 165.86 |
| 12.5 | 165.19 | 165.13 | 165.06 | 164.93 | 164.80 | 164.62 | 164.44 | 164.29 | 164.13 | 163.92 |
| 15.0 | 163.10 | 163.03 | 162.96 | 162.84 | 162.72 | 162.49 | 162.25 | 162.06 | 161.87 | 161.62 |
| 17.5 | 160.66 | 160.55 | 160.44 | 160.33 | 160.21 | 159.96 | 159.70 | 159.47 | 159.23 | 158.89 |
| 20.0 | 157.90 | 157.74 | 157.58 | 157.44 | 157.30 | 157.03 | 156.74 | 156.44 | 156.13 | 155.74 |
| 22.5 | 154.71 | 154.59 | 154.47 | 154.28 | 154.10 | 153.73 | 153.37 | 153.03 | 152.69 | 152.22 |
| 25.0 | 151.23 | 151.08 | 150.92 | 150.69 | 150.46 | 150.08 | 149.70 | 149.28 | 148.85 | 148.36 |
| 27.5 | 147.38 | 147.22 | 147.06 | 146.82 | 146.58 | 146.14 | 145.70 | 145.21 | 144.71 | 144.13 |
| 30.0 | 143.31 | 143.13 | 142.94 | 142.64 | 142.33 | 141.86 | 141.38 | 140.84 | 140.29 | 139.63 |
| 32.5 | 138.89 | 138.67 | 138.45 | 138.17 | 137.89 | 137.35 | 136.79 | 136.20 | 135.60 | 134.86 |
| 35.0 | 134.24 | 134.04 | 133.83 | 133.51 | 133.19 | 132.58 | 131.97 | 131.30 | 130.62 | 129.80 |
| 37.5 | 129.44 | 129.23 | 129.02 | 128.63 | 128.23 | 127.60 | 126.97 | 126.21 | 125.44 | 124.55 |
| 40.0 | 124.35 | 124.17 | 123.98 | 123.57 | 123.15 | 122.47 | 121.78 | 120.95 | 120.11 | 119.18 |
| 42.5 | 119.25 | 119.01 | 118.77 | 118.33 | 117.89 | 117.18 | 116.46 | 115.57 | 114.67 | 113.64 |
| 45.0 | 113.97 | 113.74 | 113.52 | 113.04 | 112.55 | 111.78 | 111.00 | 110.05 | 109.10 | 108.00 |
| 47.5 | 108.55 | 108.35 | 108.14 | 107.63 | 107.11 | 106.32 | 105.52 | 104.50 | 103.47 | 102.30 |
| 50.0 | 103.17 | 102.95 | 102.74 | 102.18 | 101.62 | 100.78 | 99.95 | 98.87 | 97.79 | 96.55 |
| 52.5 | 97.81 | 97.58 | 97.35 | 96.78 | 96.20 | 95.28 | 94.35 | 93.25 | 92.13 | 90.81 |
| 55.0 | 92.45 | 92.21 | 91.98 | 91.38 | 90.77 | 89.82 | 88.87 | 87.65 | 86.43 | 85.05 |
| 57.5 | 87.12 | 86.86 | 86.59 | 85.99 | 85.38 | 84.40 | 83.40 | 82.13 | 80.85 | 79.36 |
| 60.0 | 81.84 | 81.59 | 81.34 | 80.72 | 80.08 | 79.03 | 77.98 | 76.66 | 75.32 | 73.71 |
| 62.5 | 76.65 | 76.37 | 76.08 | 75.44 | 74.79 | 73.71 | 72.63 | 71.23 | 69.83 | 68.13 |
| 65.0 | 71.51 | 71.22 | 70.92 | 70.27 | 69.62 | 68.49 | 67.35 | 65.90 | 64.44 | 62.68 |
| 67.5 | 66.33 | 66.06 | 65.79 | 65.13 | 64.47 | 63.33 | 62.19 | 60.67 | 59.14 | 57.31 |
| 70.0 | 61.38 | 61.10 | 60.81 | 60.11 | 59.41 | 58.26 | 57.11 | 55.60 | 54.08 | 52.16 |
| 72.5 | 56.62 | 56.36 | 56.09 | 55.36 | 54.64 | 53.45 | 52.25 | 50.67 | 49.09 | 47.16 |
| 75.0 | 52.08 | 51.82 | 51.55 | 50.84 | 50.13 | 48.90 | 47.67 | 46.01 | 44.34 | 42.26 |
| 77.5 | 47.82 | 47.55 | 47.27 | 46.55 | 45.81 | 44.55 | 43.28 | 41.54 | 39.80 | 37.59 |
| 80.0 | 43.73 | 43.46 | 43.19 | 42.43 | 41.66 | 40.36 | 39.06 | 37.25 | 35.44 | 33.16 |
| 82.5 | 39.82 | 39.54 | 39.25 | 38.47 | 37.69 | 36.36 | 35.04 | 33.22 | 31.39 | 29.06 |
| 85.0 | 36.09 | 35.81 | 35.52 | 34.73 | 33.94 | 32.61 | 31.29 | 29.44 | 27.60 | 25.27 |
| 87.5 | 32.59 | 32.29 | 31.99 | 31.22 | 30.44 | 29.14 | 27.83 | 25.99 | 24.15 | 21.84 |
| 90.0 | 26.37 | 26.14 | 25.91 | 25.22 | 24.51 | 23.35 | 22.18 | 20.58 | 18.97 | 16.97 |
| 100.0 | 15.31 | 15.11 | 14.91 | 14.38 | 13.85 | 13.02 | 12.18 | 11.08 | 9.97 | 8.72 |
| 110.0 | 8.84 | 8.71 | 8.58 | 8.21 | 7.83 | 7.20 | 6.57 | 5.76 | 4.94 | 4.28 |
| 120.0 | 4.31 | 4.26 | 4.20 | 4.05 | 3.89 | 3.63 | 3.36 | 3.02 | 2.67 | 2.41 |
| 130.0 | 2.49 | 2.47 | 2.44 | 2.29 | 2.13 | 1.98 | 1.82 | 1.67 | 1.51 | 1.28 |
| 140.0 | 1.21 | 1.17 | 1.13 | 1.04 | 0.95 | 0.84 | 0.74 | 0.63 | 0.53 | 0.44 |
| 150.0 | 0.24 | 0.23 | 0.22 | 0.21 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 |
| 160.0 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 |
| 170.0 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 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 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 | 169.32 |
| 2.5 | 168.94 | 168.89 | 168.83 | 168.80 | 168.75 | 168.72 | 168.69 | 168.77 | 168.85 |
| 5.0 | 168.30 | 168.22 | 168.14 | 168.10 | 168.07 | 168.03 | 167.98 | 168.01 | 168.04 |
| 7.5 | 167.18 | 167.12 | 167.05 | 166.98 | 166.90 | 166.82 | 166.74 | 166.80 | 166.85 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10.0 | 165.69 | 165.55 | 165.41 | 165.32 | 165.23 | 165.15 | 165.07 | 165.10 | 165.13 |
| 12.5 | 163.71 | 163.56 | 163.40 | 163.25 | 163.09 | 162.98 | 162.87 | 162.91 | 162.94 |
| 15.0 | 161.37 | 161.13 | 160.89 | 160.70 | 160.50 | 160.38 | 160.24 | 160.29 | 160.33 |
| 17.5 | 158.54 | 158.27 | 157.99 | 157.72 | 157.43 | 157.29 | 157.14 | 157.14 | 157.14 |
| 20.0 | 155.34 | 155.03 | 154.71 | 154.37 | 154.03 | 153.83 | 153.62 | 153.58 | 153.53 |
| 22.5 | 151.75 | 151.35 | 150.95 | 150.56 | 150.17 | 149.94 | 149.70 | 149.64 | 149.57 |
| 25.0 | 147.86 | 147.37 | 146.88 | 146.43 | 145.98 | 145.69 | 145.39 | 145.29 | 145.18 |
| 27.5 | 143.55 | 143.01 | 142.45 | 141.91 | 141.36 | 141.02 | 140.68 | 140.56 | 140.44 |
| 30.0 | 138.96 | 138.34 | 137.71 | 137.11 | 136.51 | 136.12 | 135.72 | 135.55 | 135.38 |
| 32.5 | 134.12 | 133.40 | 132.67 | 131.99 | 131.30 | 130.84 | 130.38 | 130.23 | 130.07 |
| 35.0 | 128.98 | 128.20 | 127.41 | 126.64 | 125.86 | 125.37 | 124.86 | 124.67 | 124.47 |
| 37.5 | 123.65 | 122.78 | 121.90 | 121.09 | 120.28 | 119.69 | 119.10 | 118.88 | 118.64 |
| 40.0 | 118.25 | 117.27 | 116.28 | 115.36 | 114.44 | 113.82 | 113.19 | 112.96 | 112.73 |
| 42.5 | 112.61 | 111.56 | 110.51 | 109.52 | 108.52 | 107.84 | 107.16 | 106.87 | 106.57 |
| 45.0 | 106.89 | 105.75 | 104.61 | 103.58 | 102.55 | 101.78 | 101.01 | 100.71 | 100.40 |
| 47.5 | 101.12 | 99.92 | 98.73 | 97.60 | 96.46 | 95.64 | 94.82 | 94.47 | 94.11 |
| 50.0 | 95.31 | 94.04 | 92.76 | 91.54 | 90.32 | 89.45 | 88.56 | 88.17 | 87.78 |
| 52.5 | 89.48 | 88.14 | 86.79 | 85.47 | 84.14 | 83.21 | 82.26 | 81.86 | 81.45 |
| 55.0 | 83.66 | 82.22 | 80.78 | 79.39 | 78.00 | 76.97 | 75.94 | 75.50 | 75.06 |
| 57.5 | 77.87 | 76.36 | 74.84 | 73.35 | 71.85 | 70.77 | 69.67 | 69.17 | 68.67 |
| 60.0 | 72.10 | 70.48 | 68.85 | 67.30 | 65.73 | 64.55 | 63.35 | 62.80 | 62.24 |
| 62.5 | 66.42 | 64.71 | 62.99 | 61.31 | 59.63 | 58.36 | 57.08 | 56.50 | 55.92 |
| 65.0 | 60.90 | 59.06 | 57.21 | 55.43 | 53.65 | 52.31 | 50.96 | 50.35 | 49.73 |
| 67.5 | 55.47 | 53.54 | 51.60 | 49.71 | 47.81 | 46.36 | 44.90 | 44.20 | 43.50 |
| 70.0 | 50.24 | 48.21 | 46.19 | 44.12 | 42.03 | 40.43 | 38.83 | 38.07 | 37.30 |
| 72.5 | 45.22 | 43.04 | 40.85 | 38.57 | 36.28 | 34.54 | 32.80 | 31.96 | 31.12 |
| 75.0 | 40.18 | 37.89 | 35.61 | 33.19 | 30.76 | 28.84 | 26.91 | 25.99 | 25.07 |
| 77.5 | 35.37 | 32.94 | 30.52 | 27.99 | 25.46 | 23.36 | 21.25 | 20.27 | 19.28 |
| 80.0 | 30.87 | 28.29 | 25.71 | 23.08 | 20.46 | 18.21 | 15.97 | 14.91 | 13.84 |
| 82.5 | 26.72 | 24.09 | 21.44 | 18.69 | 15.93 | 13.61 | 11.28 | 10.13 | 8.98 |
| 85.0 | 22.94 | 20.29 | 17.65 | 14.88 | 12.11 | 9.73 | 7.35 | 6.16 | 4.96 |
| 87.5 | 19.53 | 16.97 | 14.41 | 11.75 | 9.08 | 6.85 | 4.60 | 3.41 | 2.21 |
| 90.0 | 14.95 | 12.77 | 10.59 | 8.41 | 6.22 | 4.48 | 2.74 | 1.98 | 1.21 |
| 100.0 | 7.45 | 6.18 | 4.90 | 3.71 | 2.52 | 1.95 | 1.37 | 1.21 | 1.05 |
| 110.0 | 3.61 | 3.04 | 2.47 | 1.97 | 1.46 | 1.18 | 0.88 | 0.90 | 0.90 |
| 120.0 | 2.14 | 1.79 | 1.43 | 1.10 | 0.76 | 0.73 | 0.70 | 0.72 | 0.73 |
| 130.0 | 1.05 | 0.84 | 0.62 | 0.59 | 0.55 | 0.58 | 0.60 | 0.60 | 0.61 |
| 140.0 | 0.35 | 0.35 | 0.34 | 0.35 | 0.37 | 0.38 | 0.39 | 0.39 | 0.40 |
| 150.0 | 0.21 | 0.21 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.24 |
| 160.0 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 |
| 170.0 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 61.57 | N.A. | 11.70 |
| 0-30 | 129.86 | N.A. | 24.70 |
| 0-40 | 210.90 | N.A. | 40.10 |
| 0-60 | 369.55 | N.A. | 70.30 |
| 0-80 | 473.85 | N.A. | 90.20 |
| 0-90 | 499.35 | N.A. | 95.00 |
| 10-90 | 483.35 | N.A. | 92.00 |
| 20-40 | 149.33 | N.A. | 28.40 |
| 20-50 | 232.38 | N.A. | 44.20 |
| 40-70 | 219.87 | N.A. | 41.80 |
| 60-80 | 104.30 | N.A. | 19.80 |
| 70-80 | 43.09 | N.A. | 8.20 |
| 80-90 | 25.50 | N.A. | 4.90 |
| 90-110 | 19.90 | N.A. | 3.80 |
| 90-120 | 23.37 | N.A. | 4.40 |
| 90-130 | 25.06 | N.A. | 4.80 |
| 90-150 | 26.09 | N.A. | 5.00 |
| 90-180 | 26.20 | N.A. | 5.00 |
| 110-180 | 6.30 | N.A. | 1.20 |
| 0-180 | 525.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 16.00 |
| 10-20 | 45.58 |
| 20-30 | 68.28 |
| 30-40 | 81.05 |
| 40-50 | 83.05 |
| 50-60 | 75.60 |
| 60-70 | 61.21 |
| 70-80 | 43.09 |
| 80-90 | 25.50 |
| 90-100 | 13.05 |
| 100-110 | 6.85 |
| 110-120 | 3.47 |
| 120-130 | 1.69 |
| 130-140 | 0.77 |
| 140-150 | 0.26 |
| 150-160 | 0.08 |
| 160-170 | 0.02 |
| 170-180 | 0.00 |

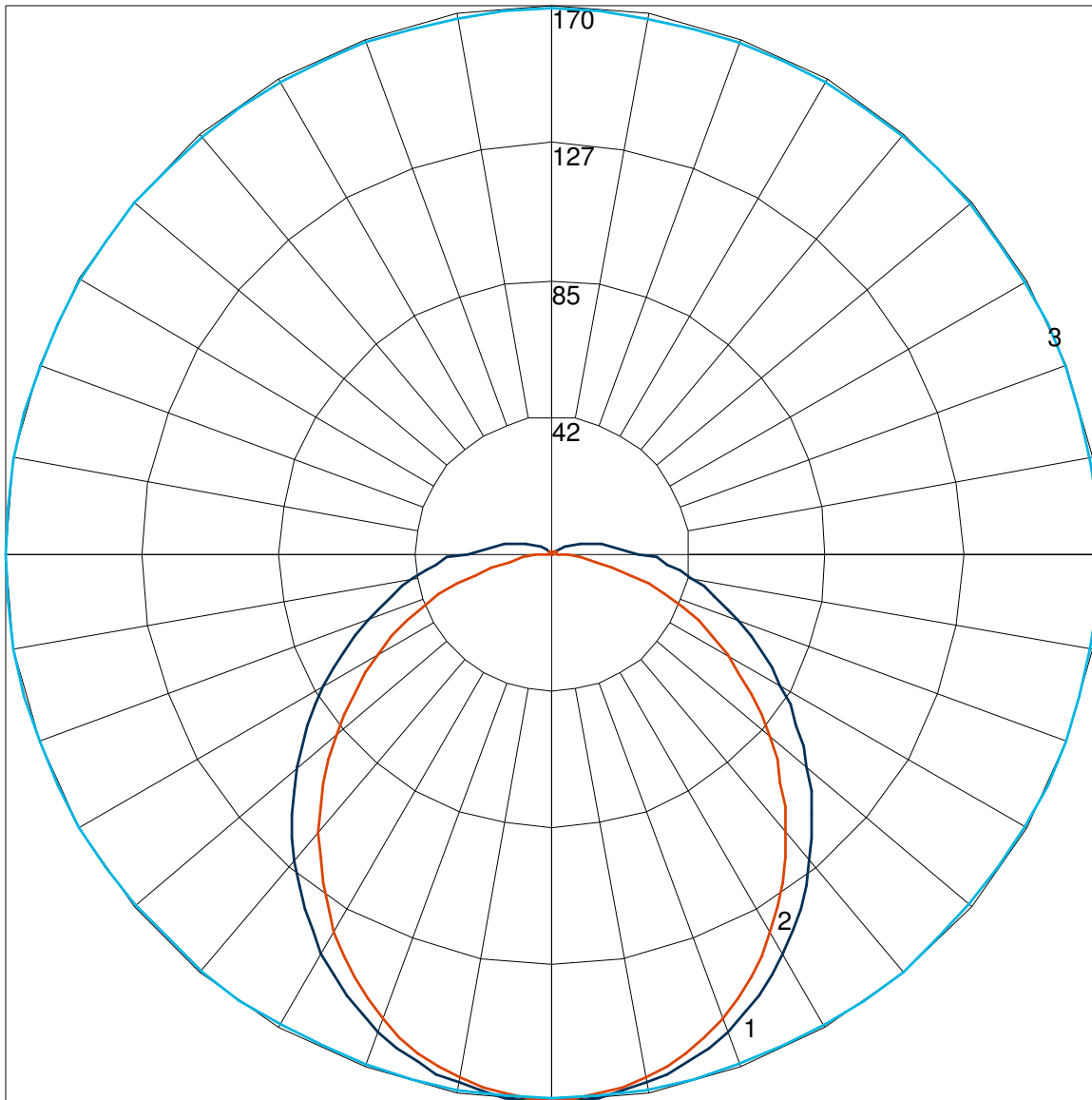
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 93 | 89 | 86 | 88 | 85 | 82 | 83 | 81 | 79 | 76 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 72 | 80 | 75 | 70 | 76 | 72 | 68 | 73 | 69 | 65 | 63 |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 66 | 60 | 71 | 64 | 58 | 67 | 61 | 57 | 64 | 59 | 55 | 53 |
| 4 | 80 | 67 | 58 | 51 | 77 | 66 | 57 | 51 | 63 | 55 | 50 | 60 | 53 | 48 | 57 | 52 | 47 | 45 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 54 | 45 | 39 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 48 | 42 | 37 | 46 | 41 | 36 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 37 | 33 | 42 | 36 | 32 | 30 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 23 | 22 |

POLAR GRAPH



Maximum Candela = 169.7 Located At Horizontal Angle = 0, Vertical Angle = 2.5

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 (2.5) (Through Max. Cd.)