

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200644

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SLR-8030-600  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5869 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

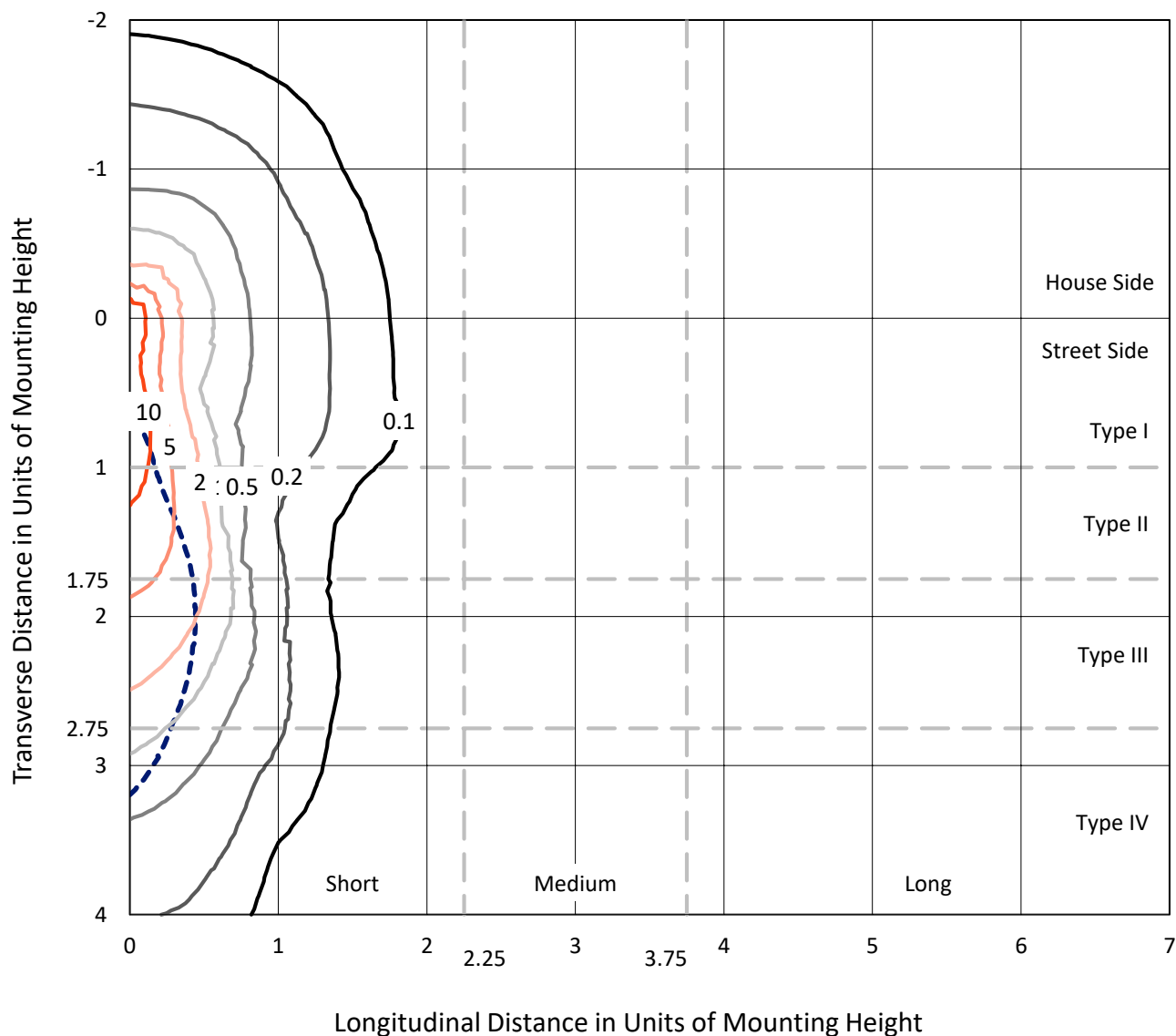


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

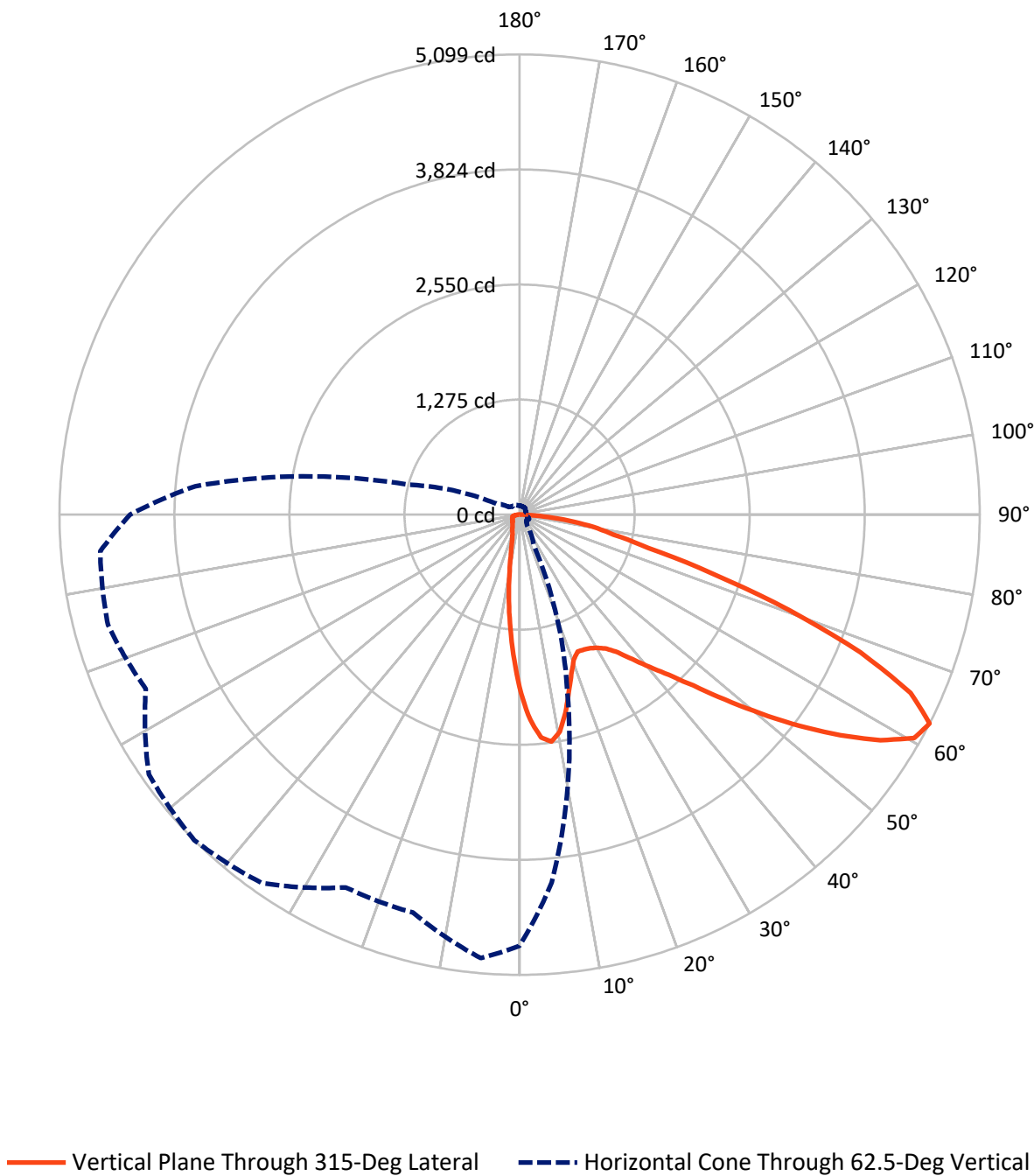


Based on 10 foot mounting height. Maximum calculated value = 19.8 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 971.2    | 0.0    | 971.2  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 4897.8   | 0.0    | 4897.8 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 5869.0   | 0.0    | 5869.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.3  | 2.5       |
| 10°-20°   | 264.7  | 4.5       |
| 20°-30°   | 385.9  | 6.6       |
| 30°-40°   | 594.4  | 10.1      |
| 40°-50°   | 874.7  | 14.9      |
| 50°-60°   | 1283.1 | 21.9      |
| 60°-70°   | 1434.3 | 24.4      |
| 70°-80°   | 702.2  | 12.0      |
| 80°-90°   | 185.4  | 3.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5869.0 | 100.0     |
| 0°-180°   | 5869.0 | 100.0     |

**Coefficient of Utilization**



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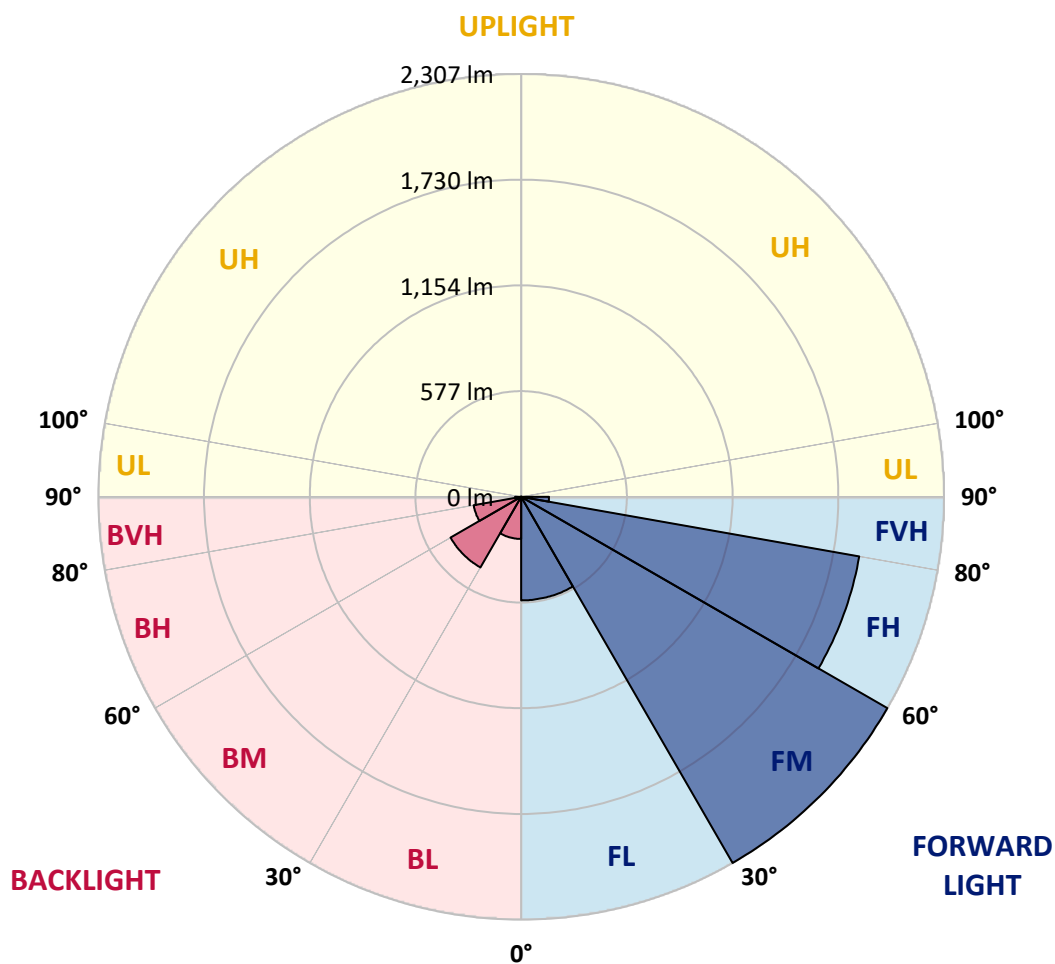
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-8030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 565.2  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 2307.2 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 1873.2 | 31.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 152.3  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 229.8  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 445.0  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 263.3  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 33.1   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 |
| 2.5°  | 2060.3 | 2018.4 | 1948.7 | 1876.1 | 1831.9 | 1780.3 | 1739.9 | 1704.4 | 1633.5 | 1619.6 | 1632.2 |
| 5°    | 1937.4 | 1853.2 | 1721.9 | 1589.6 | 1501.5 | 1407.0 | 1333.4 | 1274.4 | 1184.4 | 1168.6 | 1187.6 |
| 7.5°  | 1740.2 | 1639.6 | 1466.0 | 1297.3 | 1172.7 | 1054.7 | 975.3  | 912.1  | 841.7  | 811.4  | 813.3  |
| 10°   | 1570.2 | 1456.7 | 1251.5 | 1067.9 | 965.9  | 886.3  | 819.5  | 754.6  | 683.3  | 636.5  | 623.6  |
| 12.5° | 1475.0 | 1344.4 | 1107.9 | 944.0  | 849.5  | 765.6  | 693.6  | 624.3  | 548.1  | 500.4  | 486.8  |
| 15°   | 1458.6 | 1316.6 | 1054.0 | 864.6  | 746.2  | 640.1  | 555.2  | 477.8  | 399.4  | 360.7  | 352.6  |
| 17.5° | 1529.9 | 1366.3 | 1036.6 | 794.0  | 649.1  | 518.1  | 413.9  | 327.5  | 263.6  | 244.2  | 242.6  |
| 20°   | 1666.7 | 1461.8 | 1034.3 | 727.5  | 553.3  | 399.7  | 288.4  | 225.5  | 197.4  | 192.0  | 192.3  |
| 22.5° | 1858.7 | 1609.9 | 1062.1 | 677.5  | 465.2  | 298.1  | 216.8  | 188.7  | 177.8  | 172.6  | 172.6  |
| 25°   | 2107.1 | 1813.8 | 1126.0 | 641.1  | 388.8  | 238.1  | 191.3  | 174.5  | 164.2  | 160.7  | 161.3  |
| 27.5° | 2347.8 | 2012.2 | 1200.2 | 612.3  | 338.8  | 216.2  | 181.3  | 166.2  | 157.1  | 153.6  | 155.2  |
| 30°   | 2535.5 | 2188.4 | 1262.1 | 573.3  | 313.3  | 210.0  | 184.9  | 169.4  | 156.5  | 151.0  | 151.3  |
| 32.5° | 2691.0 | 2342.6 | 1314.1 | 545.2  | 290.7  | 180.0  | 159.4  | 152.6  | 151.0  | 144.5  | 141.3  |
| 35°   | 2889.8 | 2510.7 | 1348.9 | 545.9  | 280.0  | 160.7  | 142.0  | 130.0  | 121.3  | 113.9  | 113.9  |
| 37.5° | 3122.7 | 2703.6 | 1386.0 | 553.3  | 276.2  | 149.4  | 135.8  | 123.9  | 115.8  | 108.7  | 107.4  |
| 40°   | 3353.1 | 2892.7 | 1419.9 | 560.4  | 273.9  | 142.6  | 131.0  | 120.0  | 112.6  | 105.5  | 103.6  |
| 42.5° | 3548.9 | 3048.2 | 1450.2 | 564.0  | 266.2  | 142.0  | 127.4  | 117.4  | 110.3  | 102.6  | 100.7  |
| 45°   | 3693.8 | 3178.5 | 1482.8 | 569.4  | 258.4  | 144.5  | 127.4  | 117.1  | 108.4  | 101.0  | 99.0   |
| 47.5° | 3823.1 | 3331.4 | 1537.3 | 569.4  | 249.1  | 139.7  | 131.6  | 117.4  | 108.1  | 100.3  | 98.7   |
| 50°   | 3996.4 | 3541.2 | 1640.6 | 556.2  | 235.8  | 134.5  | 138.7  | 116.1  | 105.2  | 99.0   | 97.1   |
| 52.5° | 4235.1 | 3809.9 | 1804.5 | 533.3  | 215.5  | 124.5  | 137.8  | 115.5  | 102.3  | 95.8   | 93.6   |
| 55°   | 4517.4 | 4097.7 | 1983.2 | 506.5  | 185.2  | 117.4  | 132.9  | 113.9  | 99.0   | 91.9   | 89.7   |
| 57.5° | 4737.8 | 4295.8 | 2109.0 | 465.2  | 158.7  | 113.6  | 117.8  | 112.3  | 95.2   | 87.8   | 85.8   |
| 60°   | 4825.5 | 4288.0 | 2143.5 | 410.1  | 145.8  | 110.3  | 102.9  | 125.8  | 91.9   | 84.5   | 82.3   |
| 62.5° | 4778.1 | 4089.9 | 2046.7 | 371.3  | 142.9  | 106.1  | 96.5   | 116.5  | 89.4   | 82.3   | 79.0   |
| 65°   | 4559.0 | 3738.9 | 1790.3 | 361.0  | 151.3  | 102.0  | 92.3   | 91.3   | 85.8   | 79.0   | 75.8   |
| 67.5° | 4081.9 | 3214.3 | 1433.4 | 362.0  | 162.0  | 97.8   | 88.1   | 83.6   | 81.0   | 75.5   | 72.6   |
| 70°   | 3324.7 | 2541.3 | 1068.5 | 364.6  | 167.4  | 92.9   | 83.6   | 78.7   | 75.8   | 70.3   | 68.4   |
| 72.5° | 2444.5 | 1958.7 | 776.2  | 347.8  | 168.4  | 87.4   | 77.4   | 73.2   | 70.3   | 64.5   | 62.9   |
| 75°   | 1672.5 | 1498.3 | 538.5  | 288.1  | 146.8  | 79.7   | 70.7   | 66.8   | 64.8   | 57.8   | 56.8   |
| 77.5° | 1221.8 | 1124.7 | 344.6  | 213.9  | 113.2  | 70.0   | 62.3   | 59.4   | 58.1   | 50.3   | 49.0   |
| 80°   | 980.5  | 889.8  | 215.5  | 146.5  | 82.9   | 58.7   | 52.3   | 50.7   | 49.4   | 41.6   | 40.7   |
| 82.5° | 680.1  | 595.9  | 138.4  | 95.2   | 62.3   | 45.5   | 41.3   | 40.7   | 38.7   | 31.6   | 30.6   |
| 85°   | 358.8  | 323.6  | 87.8   | 64.8   | 45.2   | 31.3   | 28.7   | 28.7   | 27.7   | 21.0   | 20.3   |
| 87.5° | 45.8   | 74.5   | 44.5   | 33.9   | 24.8   | 13.9   | 13.9   | 13.6   | 14.5   | 11.9   | 10.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 |
| 2.5°  | 1602.5 | 1618.0 | 1603.1 | 1604.1 | 1620.6 | 1669.6 | 1691.9 | 1710.2 | 1729.9 | 1742.8 | 1748.6 |
| 5°    | 1161.5 | 1197.6 | 1209.9 | 1235.7 | 1273.7 | 1336.3 | 1361.2 | 1379.2 | 1391.2 | 1398.3 | 1401.2 |
| 7.5°  | 794.3  | 816.2  | 840.8  | 882.4  | 965.3  | 1002.1 | 1018.5 | 1014.3 | 1000.8 | 995.9  | 991.1  |
| 10°   | 598.8  | 590.1  | 585.6  | 608.5  | 675.6  | 712.7  | 724.3  | 713.0  | 705.6  | 707.2  | 715.3  |
| 12.5° | 463.9  | 448.8  | 430.4  | 427.8  | 472.0  | 505.2  | 512.7  | 513.3  | 526.8  | 538.8  | 556.5  |
| 15°   | 338.1  | 336.5  | 327.5  | 322.0  | 347.1  | 374.2  | 377.5  | 383.3  | 395.5  | 404.3  | 419.7  |
| 17.5° | 238.4  | 247.1  | 254.2  | 257.8  | 276.8  | 296.2  | 292.6  | 289.7  | 287.5  | 287.5  | 294.9  |
| 20°   | 192.3  | 198.1  | 207.1  | 217.5  | 236.8  | 250.4  | 241.6  | 230.0  | 221.6  | 219.1  | 220.0  |
| 22.5° | 173.3  | 177.8  | 182.9  | 192.0  | 209.4  | 218.7  | 209.4  | 201.0  | 192.6  | 189.7  | 188.7  |
| 25°   | 163.6  | 169.4  | 174.2  | 181.0  | 193.9  | 200.4  | 191.3  | 185.2  | 180.0  | 176.5  | 173.9  |
| 27.5° | 158.1  | 163.2  | 164.5  | 167.8  | 178.7  | 184.5  | 180.0  | 177.4  | 174.2  | 171.0  | 167.8  |
| 30°   | 152.3  | 151.3  | 149.1  | 149.4  | 158.1  | 163.9  | 163.6  | 164.2  | 163.9  | 162.9  | 162.3  |
| 32.5° | 139.1  | 137.1  | 135.2  | 137.1  | 145.2  | 150.3  | 150.7  | 152.0  | 152.0  | 151.6  | 154.2  |
| 35°   | 115.8  | 119.4  | 121.6  | 127.4  | 137.1  | 141.6  | 139.7  | 136.5  | 130.7  | 127.1  | 126.8  |
| 37.5° | 107.1  | 107.8  | 111.6  | 119.7  | 130.3  | 134.5  | 131.6  | 124.2  | 120.3  | 119.7  | 120.7  |
| 40°   | 102.9  | 103.6  | 105.8  | 113.2  | 123.9  | 128.1  | 125.5  | 120.0  | 116.5  | 116.1  | 117.8  |
| 42.5° | 100.0  | 100.7  | 102.0  | 107.1  | 115.8  | 121.0  | 121.3  | 117.4  | 113.2  | 113.6  | 115.2  |
| 45°   | 98.4   | 98.7   | 98.4   | 101.0  | 109.0  | 115.2  | 117.8  | 115.2  | 111.6  | 112.3  | 114.2  |
| 47.5° | 98.1   | 97.1   | 95.8   | 96.5   | 104.9  | 111.0  | 114.2  | 113.2  | 111.6  | 112.3  | 113.9  |
| 50°   | 96.8   | 94.5   | 92.9   | 92.6   | 101.0  | 107.4  | 110.3  | 110.3  | 111.0  | 112.3  | 113.9  |
| 52.5° | 92.9   | 90.3   | 90.3   | 89.4   | 98.4   | 104.5  | 106.5  | 106.8  | 107.8  | 110.0  | 112.3  |
| 55°   | 88.1   | 87.1   | 88.1   | 86.5   | 96.5   | 102.3  | 103.2  | 103.9  | 104.5  | 106.5  | 109.7  |
| 57.5° | 83.9   | 82.6   | 84.9   | 84.2   | 94.9   | 100.0  | 100.0  | 101.3  | 101.3  | 103.9  | 106.5  |
| 60°   | 81.6   | 79.0   | 80.0   | 80.7   | 92.6   | 98.1   | 97.4   | 98.7   | 99.4   | 101.6  | 103.6  |
| 62.5° | 78.7   | 76.5   | 76.5   | 78.1   | 90.0   | 95.2   | 94.9   | 95.8   | 98.4   | 99.0   | 101.0  |
| 65°   | 75.2   | 74.2   | 73.2   | 75.2   | 87.4   | 91.9   | 92.3   | 93.6   | 95.8   | 96.5   | 98.1   |
| 67.5° | 71.6   | 71.9   | 70.0   | 71.9   | 85.2   | 88.7   | 88.7   | 91.3   | 92.3   | 93.6   | 95.2   |
| 70°   | 67.8   | 68.1   | 66.5   | 68.7   | 83.6   | 85.2   | 84.9   | 88.4   | 89.0   | 90.0   | 91.6   |
| 72.5° | 62.9   | 62.9   | 62.3   | 65.5   | 81.0   | 81.6   | 81.0   | 83.9   | 84.2   | 85.2   | 85.8   |
| 75°   | 57.8   | 57.8   | 57.1   | 61.6   | 79.4   | 77.8   | 75.8   | 78.1   | 78.7   | 79.4   | 79.4   |
| 77.5° | 51.0   | 51.6   | 51.6   | 57.1   | 73.9   | 76.1   | 69.7   | 71.0   | 71.9   | 72.3   | 71.3   |
| 80°   | 42.6   | 44.2   | 44.8   | 51.9   | 61.9   | 70.3   | 62.3   | 63.2   | 63.6   | 63.6   | 62.3   |
| 82.5° | 32.6   | 35.5   | 37.1   | 44.8   | 47.4   | 59.0   | 54.2   | 55.2   | 54.2   | 52.3   | 51.6   |
| 85°   | 22.6   | 26.5   | 28.4   | 34.2   | 35.8   | 45.5   | 45.2   | 45.2   | 43.2   | 40.7   | 40.3   |
| 87.5° | 12.3   | 14.5   | 15.8   | 20.3   | 24.5   | 30.6   | 33.2   | 32.3   | 30.6   | 29.0   | 29.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 |
| 2.5°  | 1779.0 | 1822.8 | 1892.9 | 1946.4 | 2000.3 | 2052.2 | 2108.4 | 2151.3 | 2187.7 | 2201.9 | 2245.2 |
| 5°    | 1430.5 | 1485.4 | 1551.5 | 1670.9 | 1755.4 | 1848.7 | 1956.4 | 2099.0 | 2153.9 | 2229.7 | 2353.9 |
| 7.5°  | 1011.4 | 1061.1 | 1167.6 | 1264.1 | 1383.7 | 1515.7 | 1661.2 | 1858.0 | 1930.0 | 2051.6 | 2253.9 |
| 10°   | 755.3  | 813.0  | 898.5  | 979.8  | 1085.3 | 1220.2 | 1387.3 | 1607.3 | 1694.8 | 1826.7 | 2059.6 |
| 12.5° | 608.5  | 676.5  | 767.2  | 843.7  | 925.3  | 1020.5 | 1182.7 | 1424.1 | 1541.2 | 1656.7 | 1892.2 |
| 15°   | 467.5  | 538.8  | 623.0  | 720.1  | 810.1  | 912.7  | 1082.7 | 1346.6 | 1481.5 | 1601.8 | 1802.8 |
| 17.5° | 323.6  | 384.6  | 490.7  | 592.0  | 707.2  | 838.5  | 1055.0 | 1363.1 | 1524.1 | 1662.8 | 1818.3 |
| 20°   | 229.4  | 264.2  | 351.3  | 468.8  | 612.3  | 777.2  | 1049.8 | 1449.6 | 1658.9 | 1817.4 | 1917.7 |
| 22.5° | 192.9  | 205.8  | 256.5  | 364.2  | 530.1  | 731.4  | 1067.9 | 1570.9 | 1840.9 | 2043.2 | 2076.1 |
| 25°   | 175.8  | 183.6  | 210.0  | 285.8  | 456.8  | 698.2  | 1128.9 | 1751.5 | 2066.1 | 2269.0 | 2263.2 |
| 27.5° | 166.5  | 174.5  | 192.0  | 241.3  | 401.7  | 677.5  | 1189.8 | 1965.8 | 2323.6 | 2514.2 | 2442.0 |
| 30°   | 163.6  | 174.5  | 192.9  | 227.5  | 362.3  | 644.9  | 1239.9 | 2153.9 | 2521.7 | 2679.7 | 2523.3 |
| 32.5° | 161.3  | 162.9  | 171.3  | 196.2  | 324.9  | 606.9  | 1273.7 | 2322.6 | 2715.5 | 2837.2 | 2640.4 |
| 35°   | 130.3  | 138.4  | 152.0  | 175.8  | 302.9  | 584.0  | 1273.7 | 2468.1 | 2906.5 | 2996.2 | 2752.0 |
| 37.5° | 125.5  | 132.6  | 144.5  | 164.9  | 290.7  | 572.7  | 1248.2 | 2608.4 | 3101.7 | 3176.6 | 2844.0 |
| 40°   | 122.9  | 128.7  | 140.0  | 156.5  | 285.5  | 559.8  | 1211.1 | 2732.3 | 3292.4 | 3357.3 | 2929.8 |
| 42.5° | 121.0  | 126.1  | 136.8  | 151.3  | 278.7  | 545.6  | 1181.1 | 2831.7 | 3457.9 | 3511.5 | 3011.7 |
| 45°   | 120.0  | 125.5  | 137.1  | 153.9  | 265.2  | 526.8  | 1171.1 | 2939.1 | 3594.1 | 3640.2 | 3100.4 |
| 47.5° | 120.0  | 126.5  | 138.7  | 159.4  | 249.1  | 507.5  | 1202.4 | 3080.8 | 3722.8 | 3745.4 | 3205.0 |
| 50°   | 119.0  | 126.1  | 143.2  | 153.9  | 225.5  | 483.0  | 1276.0 | 3259.2 | 3862.2 | 3864.7 | 3337.3 |
| 52.5° | 117.1  | 125.5  | 154.2  | 150.7  | 198.4  | 450.7  | 1375.4 | 3488.2 | 4068.3 | 4083.8 | 3544.4 |
| 55°   | 114.9  | 124.5  | 151.3  | 143.2  | 176.2  | 412.3  | 1456.7 | 3766.7 | 4358.0 | 4401.0 | 3848.9 |
| 57.5° | 112.0  | 123.2  | 146.5  | 132.9  | 161.6  | 363.0  | 1486.0 | 3970.6 | 4560.3 | 4668.1 | 4192.2 |
| 60°   | 109.4  | 122.3  | 132.3  | 126.8  | 152.6  | 321.3  | 1429.2 | 3930.2 | 4546.5 | 4778.7 | 4496.4 |
| 62.5° | 106.8  | 123.2  | 120.7  | 122.9  | 148.4  | 294.6  | 1280.8 | 3607.3 | 4316.4 | 4664.5 | 4722.0 |
| 65°   | 103.9  | 114.5  | 113.9  | 119.7  | 147.4  | 283.9  | 1061.8 | 3123.0 | 3871.8 | 4303.5 | 4775.2 |
| 67.5° | 100.0  | 105.8  | 109.0  | 115.5  | 150.7  | 274.6  | 856.9  | 2576.2 | 3254.0 | 3762.5 | 4497.7 |
| 70°   | 95.8   | 100.7  | 104.2  | 110.3  | 148.7  | 270.4  | 712.7  | 2031.6 | 2582.0 | 3083.7 | 3950.2 |
| 72.5° | 90.3   | 94.5   | 97.8   | 103.6  | 146.8  | 268.1  | 602.0  | 1636.0 | 1927.7 | 2290.7 | 3211.7 |
| 75°   | 83.9   | 87.8   | 90.0   | 95.8   | 140.7  | 245.5  | 473.3  | 1384.4 | 1442.5 | 1593.5 | 2558.1 |
| 77.5° | 76.5   | 79.4   | 81.3   | 87.8   | 124.5  | 204.2  | 342.3  | 1067.9 | 1120.2 | 1156.9 | 1961.2 |
| 80°   | 67.8   | 70.7   | 71.6   | 77.8   | 103.2  | 159.7  | 223.3  | 788.8  | 837.9  | 846.3  | 1280.8 |
| 82.5° | 57.8   | 60.7   | 60.7   | 66.5   | 84.5   | 114.9  | 146.5  | 540.4  | 550.1  | 578.5  | 905.3  |
| 85°   | 46.5   | 48.7   | 48.7   | 51.6   | 65.5   | 85.8   | 100.7  | 271.3  | 268.4  | 306.5  | 784.3  |
| 87.5° | 33.2   | 34.8   | 36.5   | 37.1   | 46.8   | 56.8   | 60.7   | 82.6   | 54.5   | 62.6   | 503.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 |
| 2.5°  | 2277.7 | 2296.1 | 2277.4 | 2263.9 | 2205.5 | 2157.4 | 2093.2 | 2060.3 |
| 5°    | 2448.4 | 2495.2 | 2479.4 | 2422.6 | 2300.7 | 2163.5 | 2007.7 | 1937.4 |
| 7.5°  | 2427.8 | 2536.5 | 2539.1 | 2432.9 | 2253.2 | 2051.3 | 1840.3 | 1740.2 |
| 10°   | 2267.1 | 2406.2 | 2445.8 | 2342.9 | 2152.2 | 1926.4 | 1684.4 | 1570.2 |
| 12.5° | 2087.7 | 2223.9 | 2254.2 | 2218.7 | 2059.3 | 1832.5 | 1587.0 | 1475.0 |
| 15°   | 1940.9 | 2001.9 | 2038.0 | 2069.0 | 1979.6 | 1795.1 | 1581.5 | 1458.6 |
| 17.5° | 1851.6 | 1844.8 | 1855.1 | 1909.0 | 1924.1 | 1838.0 | 1665.4 | 1529.9 |
| 20°   | 1819.3 | 1715.7 | 1713.1 | 1787.4 | 1898.0 | 1940.3 | 1829.3 | 1666.7 |
| 22.5° | 1837.0 | 1669.3 | 1648.0 | 1736.1 | 1911.9 | 2087.7 | 2044.2 | 1858.7 |
| 25°   | 1898.3 | 1673.1 | 1656.0 | 1741.2 | 1962.2 | 2244.8 | 2276.1 | 2107.1 |
| 27.5° | 1994.8 | 1697.7 | 1675.1 | 1762.5 | 2029.0 | 2376.8 | 2504.6 | 2347.8 |
| 30°   | 2086.4 | 1740.2 | 1712.2 | 1804.5 | 2090.0 | 2429.1 | 2644.6 | 2535.5 |
| 32.5° | 2197.7 | 1819.9 | 1770.6 | 1881.6 | 2165.5 | 2512.3 | 2769.4 | 2691.0 |
| 35°   | 2306.8 | 1933.5 | 1872.2 | 2000.6 | 2249.7 | 2615.9 | 2912.0 | 2889.8 |
| 37.5° | 2426.5 | 2081.9 | 2031.3 | 2154.5 | 2364.9 | 2713.6 | 3094.0 | 3122.7 |
| 40°   | 2554.2 | 2278.7 | 2218.7 | 2379.1 | 2543.6 | 2836.2 | 3284.0 | 3353.1 |
| 42.5° | 2683.0 | 2497.1 | 2425.5 | 2588.1 | 2740.1 | 2957.2 | 3446.6 | 3548.9 |
| 45°   | 2830.4 | 2734.3 | 2700.4 | 2876.2 | 2928.8 | 3072.4 | 3566.6 | 3693.8 |
| 47.5° | 3002.0 | 3003.3 | 3057.9 | 3128.2 | 3119.2 | 3202.7 | 3687.3 | 3823.1 |
| 50°   | 3202.4 | 3339.2 | 3459.5 | 3506.3 | 3315.3 | 3342.7 | 3854.7 | 3996.4 |
| 52.5° | 3443.1 | 3740.9 | 3889.9 | 3859.3 | 3526.6 | 3513.7 | 4119.9 | 4235.1 |
| 55°   | 3744.1 | 4166.1 | 4314.2 | 4292.2 | 3769.6 | 3746.7 | 4450.3 | 4517.4 |
| 57.5° | 4092.5 | 4578.1 | 4714.2 | 4615.5 | 4061.2 | 4002.2 | 4723.6 | 4737.8 |
| 60°   | 4398.7 | 4904.6 | 5023.9 | 4914.6 | 4355.5 | 4274.2 | 4894.2 | 4825.5 |
| 62.5° | 4569.0 | 5015.2 | 5099.1 | 4981.4 | 4557.1 | 4563.9 | 4931.7 | 4778.1 |
| 65°   | 4492.9 | 4735.5 | 4762.6 | 4752.9 | 4505.2 | 4732.0 | 4797.1 | 4559.0 |
| 67.5° | 4076.1 | 4028.3 | 4073.8 | 4136.7 | 4059.9 | 4510.6 | 4424.5 | 4081.9 |
| 70°   | 3341.8 | 3079.5 | 3170.1 | 3212.4 | 3247.2 | 3881.5 | 3840.2 | 3324.7 |
| 72.5° | 2518.4 | 2157.4 | 2229.0 | 2220.3 | 2381.6 | 3113.3 | 2986.6 | 2444.5 |
| 75°   | 1784.4 | 1462.8 | 1471.8 | 1468.3 | 1661.9 | 2435.8 | 2162.6 | 1672.5 |
| 77.5° | 1248.6 | 1059.8 | 1064.7 | 1084.7 | 1117.3 | 1837.0 | 1545.1 | 1221.8 |
| 80°   | 858.5  | 804.3  | 831.1  | 832.7  | 774.3  | 1234.0 | 1141.5 | 980.5  |
| 82.5° | 639.4  | 559.1  | 552.7  | 562.0  | 606.9  | 999.8  | 877.2  | 680.1  |
| 85°   | 523.6  | 331.0  | 266.2  | 333.6  | 537.8  | 990.1  | 582.7  | 358.8  |
| 87.5° | 294.9  | 157.1  | 71.0   | 131.6  | 214.5  | 655.6  | 168.4  | 45.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)