

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: P199975

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-SL3-7030  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6149.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

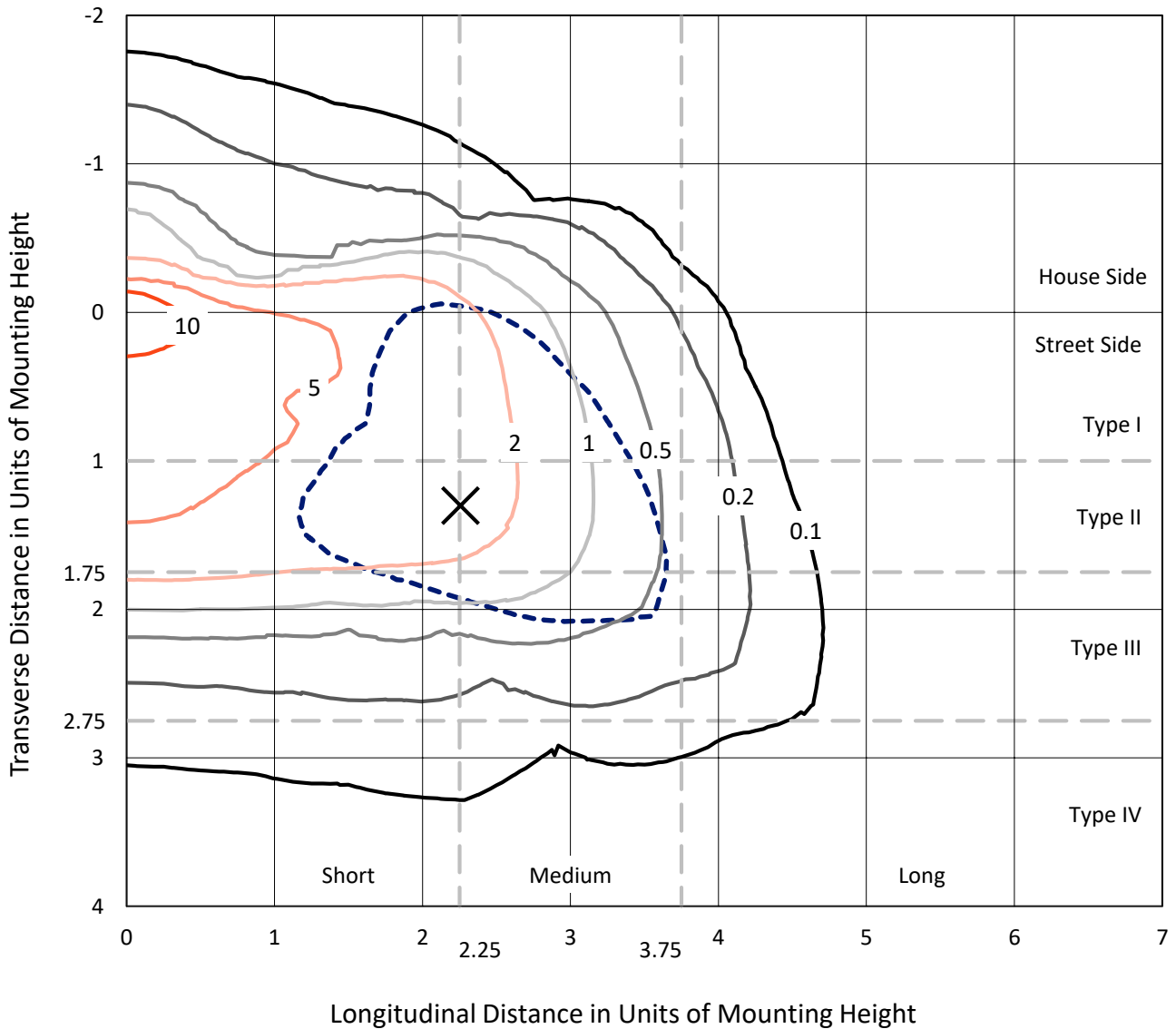
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

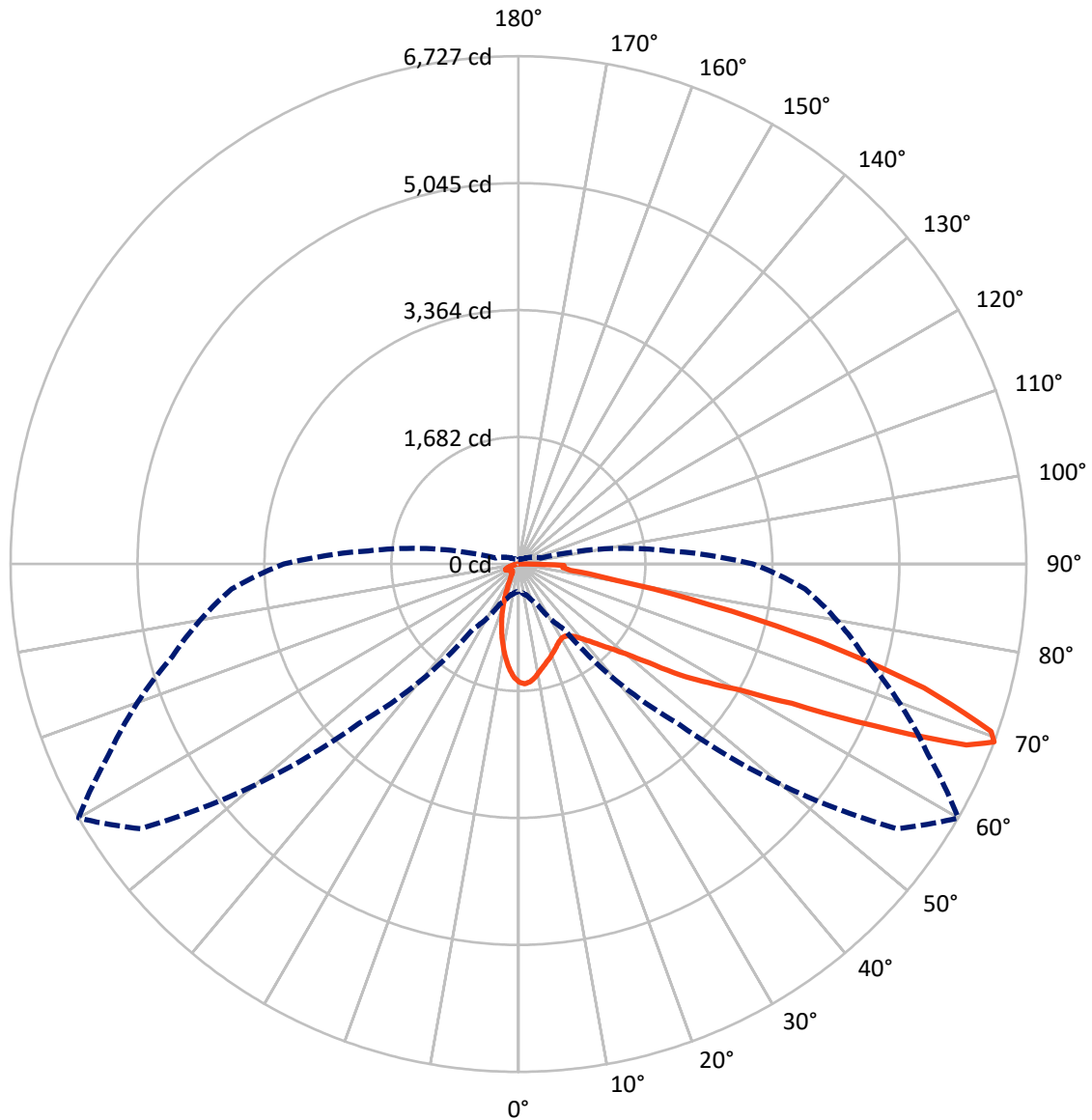
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 874.8    | 0.0    | 874.8  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 5274.3   | 0.0    | 5274.3 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 6149.1   | 0.0    | 6149.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.5  | 2.2       |
| 10°-20°   | 282.3  | 4.6       |
| 20°-30°   | 359.7  | 5.8       |
| 30°-40°   | 494.4  | 8.0       |
| 40°-50°   | 802.3  | 13.0      |
| 50°-60°   | 1286.7 | 20.9      |
| 60°-70°   | 1712.5 | 27.8      |
| 70°-80°   | 924.6  | 15.0      |
| 80°-90°   | 154.3  | 2.5       |
| 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°    | 6149.1 | 100.0     |
| 0°-180°   | 6149.1 | 100.0     |



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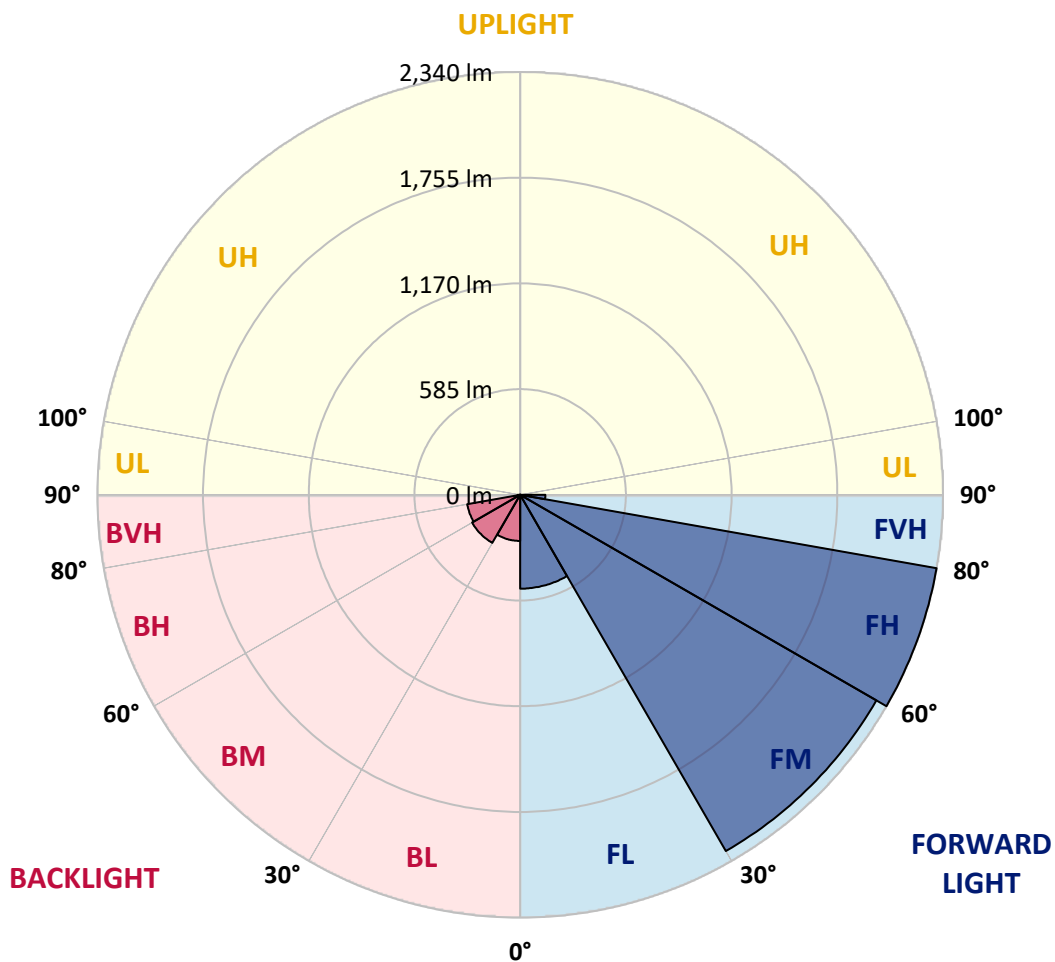
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 519.2  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2276.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 2339.6 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 139.4  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 255.2  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 307.3  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 297.4  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 14.9   | 0.2       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 |
| 2.5°  | 1599.0 | 1602.5 | 1601.0 | 1600.1 | 1602.9 | 1598.7 | 1590.0 | 1587.4 | 1583.2 | 1573.5 | 1556.8 |
| 5°    | 1538.9 | 1549.7 | 1549.1 | 1557.1 | 1570.5 | 1574.0 | 1570.2 | 1570.7 | 1563.1 | 1550.8 | 1523.2 |
| 7.5°  | 1435.3 | 1439.7 | 1442.1 | 1459.7 | 1484.0 | 1503.6 | 1520.3 | 1525.6 | 1522.0 | 1511.6 | 1476.0 |
| 10°   | 1328.4 | 1332.0 | 1337.6 | 1358.1 | 1389.0 | 1416.0 | 1447.4 | 1465.6 | 1473.4 | 1471.5 | 1431.8 |
| 12.5° | 1236.6 | 1240.1 | 1247.5 | 1270.6 | 1307.7 | 1340.8 | 1386.6 | 1409.1 | 1427.6 | 1438.6 | 1395.8 |
| 15°   | 1154.4 | 1162.0 | 1169.2 | 1195.9 | 1237.2 | 1280.8 | 1332.5 | 1361.1 | 1389.6 | 1414.3 | 1364.0 |
| 17.5° | 1090.2 | 1097.8 | 1102.0 | 1126.4 | 1170.3 | 1223.8 | 1284.5 | 1318.0 | 1353.6 | 1394.0 | 1332.5 |
| 20°   | 1053.0 | 1056.5 | 1054.8 | 1068.4 | 1108.0 | 1164.7 | 1236.6 | 1275.5 | 1318.5 | 1375.0 | 1301.1 |
| 22.5° | 1042.7 | 1042.9 | 1036.4 | 1034.9 | 1060.5 | 1108.2 | 1185.5 | 1232.7 | 1285.6 | 1362.6 | 1274.0 |
| 25°   | 1067.9 | 1066.9 | 1049.1 | 1034.5 | 1037.3 | 1065.2 | 1136.2 | 1191.2 | 1258.0 | 1359.8 | 1253.2 |
| 27.5° | 1124.0 | 1126.7 | 1100.2 | 1072.9 | 1045.8 | 1044.9 | 1098.7 | 1156.7 | 1235.4 | 1372.1 | 1244.4 |
| 30°   | 1202.7 | 1207.2 | 1178.9 | 1144.2 | 1093.3 | 1051.5 | 1084.2 | 1136.2 | 1221.4 | 1397.3 | 1242.9 |
| 32.5° | 1288.8 | 1293.6 | 1272.3 | 1235.7 | 1169.2 | 1091.9 | 1094.3 | 1137.9 | 1220.9 | 1432.6 | 1252.8 |
| 35°   | 1380.6 | 1386.0 | 1375.0 | 1344.1 | 1270.1 | 1166.5 | 1132.9 | 1166.8 | 1240.1 | 1486.7 | 1280.0 |
| 37.5° | 1483.0 | 1491.4 | 1494.4 | 1464.9 | 1386.0 | 1264.7 | 1196.2 | 1221.4 | 1283.8 | 1561.9 | 1329.5 |
| 40°   | 1630.8 | 1642.3 | 1641.4 | 1599.2 | 1518.8 | 1397.5 | 1293.9 | 1300.4 | 1351.9 | 1662.3 | 1408.9 |
| 42.5° | 1913.5 | 1915.9 | 1841.9 | 1750.2 | 1664.9 | 1537.2 | 1409.1 | 1403.8 | 1445.7 | 1789.3 | 1525.6 |
| 45°   | 2273.2 | 2263.5 | 2098.9 | 1921.6 | 1817.6 | 1697.6 | 1559.1 | 1533.0 | 1564.8 | 1944.4 | 1671.7 |
| 47.5° | 2571.8 | 2549.2 | 2341.3 | 2096.4 | 1979.2 | 1871.9 | 1735.2 | 1689.5 | 1707.0 | 2120.2 | 1860.6 |
| 50°   | 2675.4 | 2658.5 | 2486.2 | 2242.1 | 2132.2 | 2084.6 | 1952.1 | 1887.4 | 1892.2 | 2330.0 | 2081.9 |
| 52.5° | 2653.2 | 2650.7 | 2535.8 | 2338.0 | 2275.4 | 2308.0 | 2259.3 | 2171.6 | 2125.3 | 2562.9 | 2320.7 |
| 55°   | 2600.6 | 2605.7 | 2564.1 | 2449.7 | 2439.0 | 2523.7 | 2660.6 | 2595.8 | 2451.8 | 2797.8 | 2567.6 |
| 57.5° | 2417.9 | 2431.0 | 2522.5 | 2590.2 | 2702.4 | 2828.4 | 2983.8 | 2965.4 | 2803.1 | 3051.8 | 2861.1 |
| 60°   | 1948.0 | 1978.2 | 2223.7 | 2562.9 | 2973.7 | 3367.6 | 3437.1 | 3394.2 | 3165.6 | 3367.0 | 3248.8 |
| 62.5° | 1364.8 | 1396.4 | 1688.0 | 2218.8 | 2929.1 | 3976.5 | 4247.4 | 4063.0 | 3686.0 | 3831.1 | 3750.5 |
| 65°   | 730.7  | 745.9  | 968.7  | 1539.6 | 2472.9 | 4102.1 | 5431.8 | 5151.0 | 4510.0 | 4403.5 | 4179.6 |
| 67.5° | 403.0  | 411.4  | 496.7  | 777.4  | 1583.8 | 3612.3 | 6186.2 | 6398.2 | 5539.8 | 4784.7 | 4101.5 |
| 69°   | 364.5  | 372.1  | 428.1  | 588.7  | 1059.9 | 2986.7 | 6112.5 | 6727.1 | 5991.3 | 4747.0 | 3812.8 |
| 70°   | 356.4  | 363.7  | 413.8  | 542.7  | 857.9  | 2461.8 | 5865.7 | 6643.0 | 6098.9 | 4611.9 | 3560.9 |
| 72.5° | 320.7  | 328.6  | 377.3  | 487.4  | 733.1  | 1227.4 | 4646.2 | 5616.7 | 5537.2 | 3998.8 | 2701.0 |
| 75°   | 299.2  | 306.3  | 388.9  | 477.4  | 701.9  | 776.8  | 3063.1 | 4139.5 | 4070.4 | 2797.2 | 1456.4 |
| 77.5° | 128.1  | 127.4  | 180.3  | 403.9  | 712.3  | 752.1  | 1645.9 | 2586.0 | 2359.4 | 1195.7 | 418.3  |
| 80°   | 85.5   | 84.0   | 85.5   | 118.8  | 653.2  | 756.3  | 862.3  | 1312.6 | 991.5  | 304.8  | 206.2  |
| 82.5° | 73.6   | 72.4   | 75.2   | 72.4   | 229.7  | 863.1  | 733.1  | 698.0  | 471.5  | 173.1  | 102.1  |
| 85°   | 49.6   | 47.5   | 64.8   | 65.0   | 108.3  | 767.0  | 825.8  | 589.7  | 381.5  | 102.8  | 50.5   |
| 87.5° | 23.7   | 23.2   | 37.7   | 46.0   | 63.6   | 311.6  | 926.5  | 604.2  | 384.7  | 52.6   | 24.0   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 | 1566.9 |
| 2.5°  | 1551.7 | 1539.6 | 1527.7 | 1513.5 | 1498.6 | 1481.9 | 1473.6 | 1465.2 | 1463.2 | 1460.8 | 1452.5 |
| 5°    | 1509.0 | 1491.7 | 1462.0 | 1429.3 | 1394.9 | 1361.4 | 1335.8 | 1319.8 | 1307.7 | 1301.4 | 1290.4 |
| 7.5°  | 1453.7 | 1428.4 | 1376.4 | 1320.1 | 1262.2 | 1209.3 | 1163.5 | 1134.6 | 1107.4 | 1094.6 | 1080.0 |
| 10°   | 1401.1 | 1363.4 | 1282.6 | 1199.4 | 1116.3 | 1036.4 | 961.3  | 908.1  | 860.9  | 834.4  | 815.6  |
| 12.5° | 1356.0 | 1304.3 | 1192.3 | 1079.7 | 965.7  | 851.9  | 739.3  | 650.8  | 576.9  | 538.0  | 518.0  |
| 15°   | 1311.9 | 1249.6 | 1106.5 | 963.5  | 817.1  | 662.4  | 514.5  | 414.1  | 352.9  | 328.6  | 320.2  |
| 17.5° | 1272.3 | 1192.3 | 1020.4 | 846.5  | 663.9  | 476.7  | 345.8  | 290.5  | 267.0  | 259.1  | 256.3  |
| 20°   | 1229.1 | 1134.4 | 930.9  | 724.2  | 504.1  | 333.2  | 270.0  | 245.7  | 236.1  | 233.9  | 232.6  |
| 22.5° | 1187.5 | 1077.4 | 845.3  | 593.2  | 362.0  | 257.2  | 231.9  | 221.9  | 220.3  | 222.5  | 222.5  |
| 25°   | 1152.2 | 1026.3 | 753.1  | 456.2  | 265.8  | 216.6  | 207.6  | 205.3  | 210.9  | 218.6  | 220.1  |
| 27.5° | 1125.8 | 984.4  | 654.7  | 336.8  | 211.8  | 188.4  | 188.0  | 191.9  | 205.9  | 220.7  | 223.7  |
| 30°   | 1107.7 | 944.5  | 549.6  | 243.0  | 177.6  | 165.7  | 170.6  | 178.8  | 199.3  | 220.3  | 226.0  |
| 32.5° | 1098.5 | 915.1  | 439.9  | 188.0  | 152.1  | 145.6  | 153.6  | 163.7  | 183.9  | 203.4  | 210.9  |
| 35°   | 1105.6 | 893.5  | 336.5  | 156.8  | 134.3  | 129.3  | 137.5  | 147.3  | 159.2  | 167.5  | 173.1  |
| 37.5° | 1132.4 | 884.9  | 253.9  | 140.5  | 122.1  | 117.4  | 123.9  | 129.5  | 134.3  | 136.7  | 139.3  |
| 40°   | 1190.0 | 894.1  | 203.4  | 132.2  | 115.3  | 109.3  | 112.0  | 114.0  | 117.0  | 119.4  | 120.6  |
| 42.5° | 1274.9 | 921.7  | 182.4  | 128.9  | 111.7  | 103.0  | 102.4  | 103.4  | 107.2  | 111.7  | 112.5  |
| 45°   | 1393.7 | 970.4  | 181.0  | 131.0  | 110.0  | 98.0   | 95.4   | 96.5   | 102.4  | 109.3  | 110.5  |
| 47.5° | 1545.5 | 1044.7 | 192.8  | 137.2  | 111.5  | 95.4   | 90.9   | 92.5   | 99.8   | 109.0  | 110.5  |
| 50°   | 1729.3 | 1148.4 | 212.7  | 146.4  | 117.9  | 95.9   | 89.4   | 90.2   | 98.0   | 108.1  | 109.6  |
| 52.5° | 1946.5 | 1295.4 | 234.4  | 155.3  | 124.8  | 99.8   | 90.5   | 88.5   | 95.6   | 104.6  | 106.3  |
| 55°   | 2188.0 | 1484.0 | 256.6  | 163.4  | 128.3  | 104.6  | 93.0   | 86.1   | 91.2   | 98.7   | 100.1  |
| 57.5° | 2484.4 | 1747.8 | 295.2  | 171.1  | 130.7  | 107.8  | 95.4   | 83.8   | 85.5   | 90.9   | 92.1   |
| 60°   | 2885.7 | 2120.8 | 363.3  | 183.9  | 136.0  | 109.0  | 95.0   | 81.7   | 79.9   | 82.9   | 83.5   |
| 62.5° | 3366.6 | 2526.1 | 420.0  | 200.0  | 145.0  | 110.0  | 93.3   | 80.2   | 75.2   | 75.2   | 75.7   |
| 65°   | 3652.1 | 2634.5 | 388.5  | 213.3  | 152.4  | 109.0  | 91.2   | 78.6   | 71.6   | 68.3   | 68.7   |
| 67.5° | 3410.0 | 2317.0 | 333.0  | 215.9  | 152.1  | 104.9  | 88.0   | 76.1   | 68.1   | 63.0   | 62.8   |
| 69°   | 3106.8 | 1999.1 | 308.0  | 208.8  | 145.0  | 99.5   | 83.8   | 73.1   | 65.3   | 60.0   | 59.6   |
| 70°   | 2862.3 | 1805.1 | 291.7  | 201.1  | 137.2  | 95.6   | 80.6   | 70.4   | 63.3   | 58.2   | 57.6   |
| 72.5° | 2081.1 | 1182.8 | 249.2  | 172.8  | 113.2  | 80.2   | 69.5   | 61.7   | 56.5   | 53.4   | 52.9   |
| 75°   | 1039.9 | 564.1  | 202.2  | 140.2  | 86.8   | 64.1   | 57.1   | 51.7   | 49.0   | 48.4   | 48.1   |
| 77.5° | 341.6  | 258.4  | 144.7  | 104.6  | 64.5   | 50.1   | 46.0   | 42.2   | 41.6   | 43.3   | 42.7   |
| 80°   | 187.7  | 150.3  | 91.8   | 69.2   | 43.9   | 36.8   | 36.3   | 34.2   | 35.1   | 38.0   | 37.4   |
| 82.5° | 95.6   | 78.1   | 56.7   | 41.6   | 29.7   | 26.4   | 28.9   | 27.7   | 28.9   | 31.4   | 31.1   |
| 85°   | 47.2   | 42.7   | 35.9   | 25.2   | 19.5   | 16.9   | 20.5   | 21.5   | 22.0   | 24.0   | 24.0   |
| 87.5° | 27.4   | 25.2   | 19.0   | 11.9   | 9.9    | 9.0    | 11.9   | 11.6   | 13.6   | 14.9   | 14.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)