

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: P193580

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SL2-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6650 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 85  
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

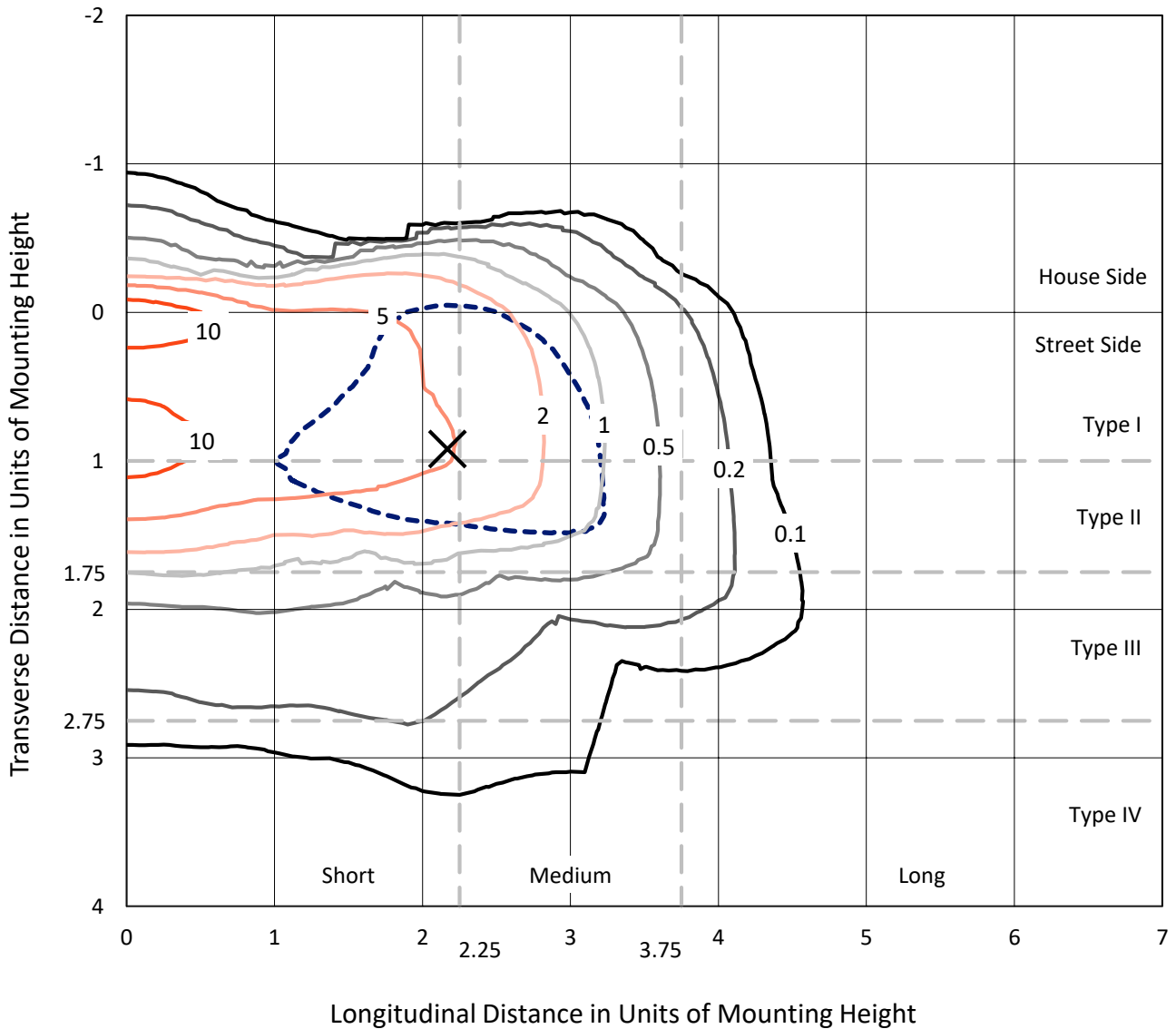


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

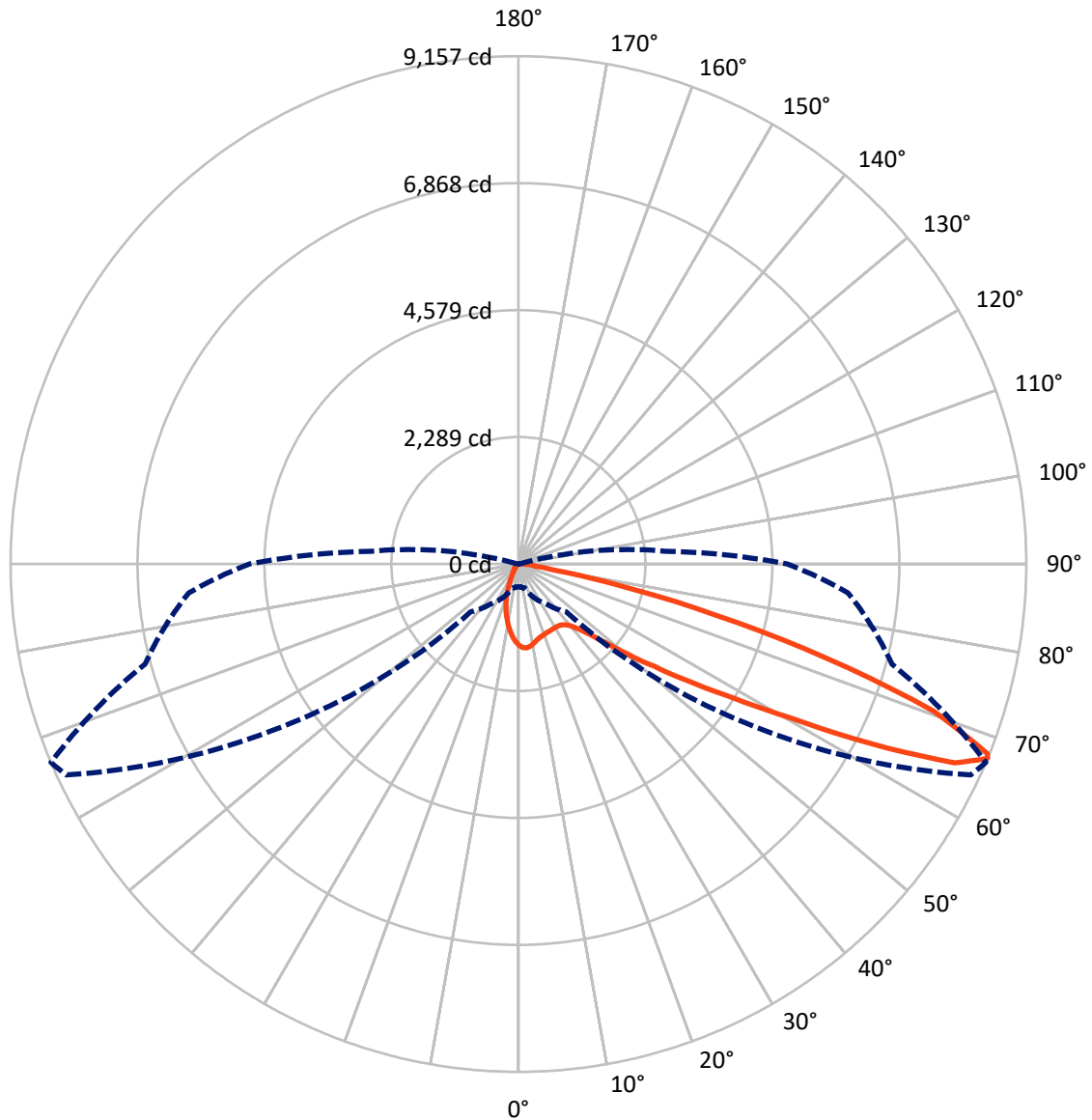


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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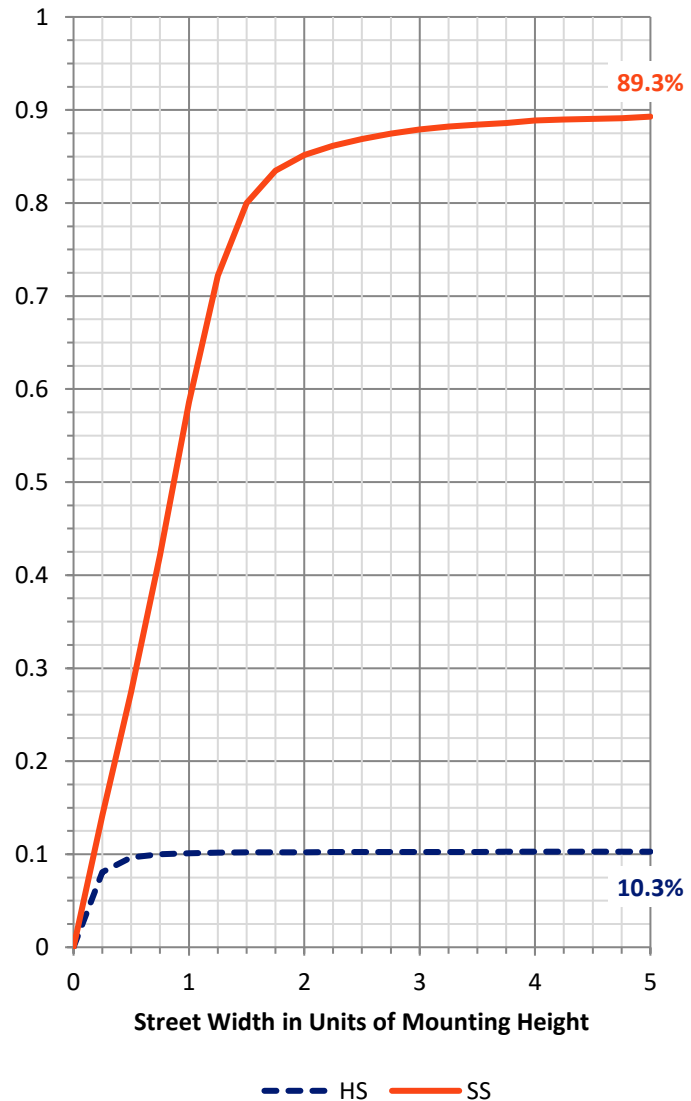
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 690.5    | 0.0    | 690.5  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 5959.5   | 0.0    | 5959.5 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 6650.0   | 0.0    | 6650.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.3  | 1.8       |
| 10°-20°   | 254.0  | 3.8       |
| 20°-30°   | 369.3  | 5.6       |
| 30°-40°   | 576.1  | 8.7       |
| 40°-50°   | 1020.5 | 15.3      |
| 50°-60°   | 1614.8 | 24.3      |
| 60°-70°   | 1849.6 | 27.8      |
| 70°-80°   | 767.2  | 11.5      |
| 80°-90°   | 79.2   | 1.2       |
| 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°    | 6650.0 | 100.0     |
| 0°-180°   | 6650.0 | 100.0     |



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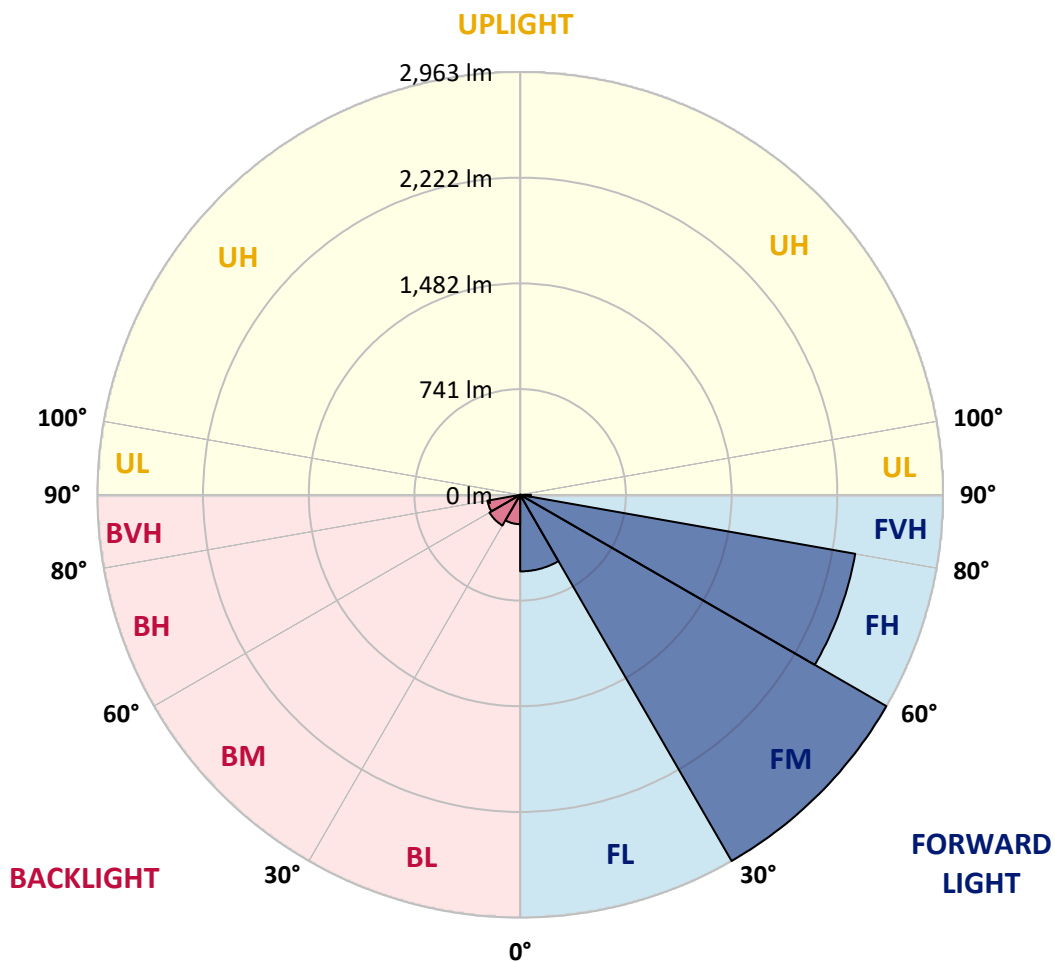
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 536.6  | 8.1       |                         |      |         |
| FM (30°-60°)   | 2963.3 | 44.6      |                         |      |         |
| FH (60°-80°)   | 2384.0 | 35.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 75.7   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 206.0  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 248.2  | 3.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 232.7  | 3.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.6    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 |
| 2.5°  | 1516.2 | 1519.3 | 1518.9 | 1521.3 | 1526.7 | 1527.1 | 1521.6 | 1511.2 | 1508.8 | 1495.3 | 1471.6 |
| 5°    | 1398.3 | 1407.2 | 1412.7 | 1434.8 | 1459.6 | 1489.5 | 1512.0 | 1520.1 | 1518.9 | 1509.2 | 1473.6 |
| 7.5°  | 1263.7 | 1272.6 | 1278.8 | 1304.8 | 1337.8 | 1389.0 | 1447.6 | 1495.7 | 1499.9 | 1510.4 | 1472.0 |
| 10°   | 1174.1 | 1175.7 | 1184.2 | 1209.0 | 1243.5 | 1295.9 | 1365.7 | 1449.9 | 1462.7 | 1501.1 | 1468.1 |
| 12.5° | 1100.4 | 1101.6 | 1112.8 | 1139.6 | 1176.4 | 1229.2 | 1302.5 | 1399.9 | 1419.6 | 1489.5 | 1467.3 |
| 15°   | 1048.0 | 1052.3 | 1062.4 | 1090.3 | 1129.5 | 1181.9 | 1257.1 | 1363.0 | 1386.7 | 1485.2 | 1474.3 |
| 17.5° | 1030.6 | 1035.2 | 1038.4 | 1058.5 | 1094.2 | 1145.4 | 1222.6 | 1339.0 | 1365.7 | 1487.5 | 1487.9 |
| 20°   | 1048.8 | 1052.3 | 1045.3 | 1050.4 | 1072.5 | 1118.3 | 1193.5 | 1318.4 | 1350.2 | 1490.2 | 1505.4 |
| 22.5° | 1116.7 | 1118.3 | 1099.2 | 1077.1 | 1073.3 | 1098.5 | 1170.6 | 1302.1 | 1336.2 | 1497.6 | 1525.9 |
| 25°   | 1233.1 | 1230.4 | 1199.3 | 1151.6 | 1106.6 | 1095.0 | 1157.0 | 1292.0 | 1329.3 | 1505.4 | 1547.2 |
| 27.5° | 1373.5 | 1377.4 | 1334.7 | 1265.3 | 1179.5 | 1118.3 | 1155.1 | 1287.8 | 1326.2 | 1510.8 | 1565.9 |
| 30°   | 1544.1 | 1549.6 | 1500.7 | 1413.4 | 1290.5 | 1175.7 | 1172.9 | 1287.0 | 1324.2 | 1507.3 | 1567.4 |
| 32.5° | 1718.3 | 1724.9 | 1686.5 | 1596.5 | 1438.6 | 1271.9 | 1213.3 | 1295.5 | 1328.1 | 1495.3 | 1558.5 |
| 35°   | 1900.6 | 1909.9 | 1884.3 | 1807.1 | 1639.6 | 1410.7 | 1284.3 | 1321.5 | 1346.3 | 1494.1 | 1549.6 |
| 37.5° | 2152.3 | 2160.9 | 2112.8 | 2030.9 | 1882.8 | 1596.9 | 1398.3 | 1370.4 | 1389.4 | 1512.7 | 1551.9 |
| 40°   | 2528.2 | 2527.0 | 2402.9 | 2277.6 | 2150.0 | 1833.5 | 1558.5 | 1458.8 | 1468.5 | 1569.0 | 1580.6 |
| 42.5° | 2937.8 | 2935.9 | 2752.4 | 2561.9 | 2446.7 | 2124.8 | 1769.1 | 1611.6 | 1605.0 | 1672.5 | 1655.1 |
| 45°   | 3253.5 | 3253.1 | 3103.4 | 2888.9 | 2804.0 | 2459.2 | 2041.4 | 1824.2 | 1814.1 | 1840.9 | 1792.4 |
| 47.5° | 3388.1 | 3390.5 | 3315.2 | 3164.3 | 3200.0 | 2911.4 | 2384.7 | 2132.2 | 2117.0 | 2106.2 | 2032.5 |
| 50°   | 3283.4 | 3288.1 | 3294.3 | 3264.8 | 3490.5 | 3519.2 | 2845.1 | 2566.2 | 2558.8 | 2510.4 | 2395.2 |
| 52.5° | 2941.3 | 2964.9 | 3037.9 | 3131.3 | 3591.4 | 4102.6 | 3566.9 | 3105.4 | 3065.8 | 3014.2 | 2887.4 |
| 55°   | 2364.9 | 2390.9 | 2529.4 | 2756.3 | 3441.3 | 4485.8 | 4578.5 | 3800.4 | 3734.5 | 3580.5 | 3397.4 |
| 57.5° | 1565.1 | 1605.4 | 1806.4 | 2094.9 | 3005.3 | 4547.5 | 5587.8 | 4765.1 | 4535.5 | 4113.8 | 3907.5 |
| 60°   | 862.3  | 901.0  | 1119.0 | 1380.5 | 2170.6 | 4242.6 | 6266.6 | 6021.0 | 5615.3 | 4710.0 | 4526.9 |
| 62.5° | 531.0  | 552.0  | 712.9  | 956.1  | 1301.7 | 3348.6 | 6407.0 | 7599.3 | 7129.6 | 5477.6 | 5275.2 |
| 65°   | 422.8  | 431.7  | 510.4  | 781.6  | 933.2  | 1991.8 | 5953.6 | 8802.5 | 8645.8 | 6407.0 | 5945.0 |
| 67°   | 410.4  | 413.9  | 451.1  | 671.0  | 879.7  | 1221.0 | 4987.7 | 8998.4 | 9157.4 | 6969.4 | 5966.0 |
| 67.5° | 413.1  | 417.0  | 452.3  | 640.4  | 878.2  | 1122.1 | 4654.9 | 8921.2 | 9122.1 | 7014.0 | 5873.3 |
| 70°   | 398.4  | 410.4  | 517.8  | 640.0  | 835.1  | 932.5  | 2787.7 | 7729.7 | 7938.7 | 6517.1 | 4983.5 |
| 72.5° | 141.2  | 142.0  | 223.8  | 517.8  | 908.0  | 942.5  | 1399.9 | 5666.5 | 5821.3 | 4985.4 | 3592.9 |
| 75°   | 83.8   | 71.4   | 74.5   | 147.4  | 867.7  | 915.4  | 807.6  | 3620.9 | 3678.6 | 2856.7 | 1819.5 |
| 77.5° | 57.8   | 50.4   | 52.0   | 65.2   | 330.5  | 902.6  | 641.6  | 1888.2 | 1826.5 | 1001.9 | 387.5  |
| 80°   | 33.0   | 29.1   | 31.0   | 57.0   | 120.2  | 842.1  | 605.1  | 765.7  | 652.8  | 169.9  | 107.1  |
| 82.5° | 17.5   | 14.7   | 17.8   | 46.9   | 83.8   | 524.8  | 606.3  | 370.0  | 293.2  | 57.4   | 72.9   |
| 85°   | 6.2    | 5.0    | 8.5    | 32.2   | 55.9   | 161.0  | 562.0  | 311.1  | 244.4  | 27.9   | 55.5   |
| 87.5° | 1.2    | 1.2    | 3.5    | 13.2   | 22.5   | 49.3   | 332.4  | 184.6  | 123.7  | 16.7   | 38.0   |
| 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°    | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 |
| 2.5°  | 1461.9 | 1445.2 | 1422.7 | 1395.2 | 1362.6 | 1333.9 | 1312.6 | 1290.5 | 1285.8 | 1278.1 | 1276.9 |
| 5°    | 1452.2 | 1423.5 | 1367.7 | 1303.7 | 1235.4 | 1173.7 | 1123.7 | 1079.1 | 1059.3 | 1042.2 | 1040.3 |
| 7.5°  | 1437.9 | 1394.8 | 1299.8 | 1196.6 | 1089.9 | 993.0  | 910.7  | 852.6  | 799.0  | 773.4  | 769.6  |
| 10°   | 1421.2 | 1359.5 | 1223.4 | 1080.2 | 932.8  | 795.9  | 673.7  | 571.3  | 509.3  | 472.4  | 467.8  |
| 12.5° | 1405.7 | 1325.0 | 1145.4 | 959.6  | 763.7  | 580.7  | 423.6  | 325.8  | 260.7  | 234.3  | 231.2  |
| 15°   | 1398.3 | 1297.1 | 1072.5 | 836.3  | 586.9  | 369.6  | 231.6  | 179.2  | 157.9  | 151.7  | 151.3  |
| 17.5° | 1397.5 | 1273.4 | 1001.1 | 708.7  | 411.2  | 214.9  | 150.9  | 137.7  | 133.4  | 131.9  | 131.9  |
| 20°   | 1397.1 | 1250.9 | 929.7  | 576.4  | 261.0  | 143.1  | 125.7  | 122.6  | 119.5  | 117.5  | 117.5  |
| 22.5° | 1401.4 | 1230.7 | 855.3  | 441.4  | 164.5  | 116.0  | 110.5  | 107.4  | 103.6  | 100.8  | 100.5  |
| 25°   | 1405.7 | 1215.2 | 779.2  | 314.2  | 119.1  | 100.8  | 95.4   | 91.2   | 85.7   | 82.2   | 81.8   |
| 27.5° | 1406.4 | 1195.8 | 697.8  | 210.2  | 99.7   | 88.0   | 81.1   | 74.5   | 68.3   | 64.8   | 64.4   |
| 30°   | 1394.8 | 1163.2 | 607.4  | 142.0  | 88.0   | 76.4   | 67.1   | 60.1   | 54.3   | 51.6   | 51.6   |
| 32.5° | 1371.9 | 1122.9 | 508.1  | 107.1  | 78.4   | 65.6   | 55.5   | 48.9   | 45.0   | 43.8   | 43.4   |
| 35°   | 1351.4 | 1079.5 | 406.1  | 90.8   | 70.2   | 55.5   | 45.4   | 41.1   | 38.8   | 38.4   | 38.0   |
| 37.5° | 1339.3 | 1044.6 | 310.3  | 82.2   | 62.4   | 46.5   | 38.4   | 35.3   | 34.1   | 33.4   | 33.7   |
| 40°   | 1348.7 | 1015.5 | 229.2  | 75.2   | 54.7   | 38.8   | 32.6   | 31.0   | 29.9   | 29.5   | 29.5   |
| 42.5° | 1389.4 | 1010.4 | 170.3  | 69.0   | 47.3   | 32.2   | 28.3   | 27.2   | 26.4   | 26.0   | 26.4   |
| 45°   | 1496.4 | 1041.5 | 132.3  | 63.2   | 40.0   | 27.2   | 24.0   | 23.7   | 23.3   | 23.3   | 23.3   |
| 47.5° | 1657.4 | 1105.5 | 110.2  | 56.6   | 33.4   | 23.3   | 20.9   | 20.6   | 20.2   | 20.6   | 20.6   |
| 50°   | 1930.1 | 1222.6 | 98.5   | 50.0   | 27.5   | 19.8   | 17.8   | 17.8   | 17.8   | 17.8   | 18.2   |
| 52.5° | 2344.7 | 1453.0 | 90.8   | 43.4   | 22.5   | 16.7   | 15.1   | 15.1   | 15.5   | 15.5   | 15.9   |
| 55°   | 2806.7 | 1758.6 | 83.8   | 36.8   | 19.0   | 14.0   | 12.4   | 12.8   | 13.2   | 13.6   | 13.6   |
| 57.5° | 3307.8 | 2097.3 | 78.0   | 30.3   | 16.3   | 11.2   | 10.5   | 10.9   | 11.2   | 12.0   | 12.0   |
| 60°   | 3912.5 | 2463.8 | 69.4   | 23.7   | 13.6   | 8.9    | 8.1    | 8.9    | 10.1   | 10.9   | 11.2   |
| 62.5° | 4576.6 | 2818.3 | 58.6   | 18.6   | 11.2   | 7.0    | 6.6    | 8.1    | 9.7    | 10.5   | 10.9   |
| 65°   | 5030.4 | 2929.7 | 45.0   | 15.1   | 8.5    | 5.0    | 5.4    | 7.4    | 9.3    | 10.5   | 10.5   |
| 67°   | 4846.5 | 2656.2 | 36.8   | 12.8   | 7.0    | 3.9    | 5.0    | 7.4    | 9.3    | 10.1   | 10.5   |
| 67.5° | 4718.9 | 2549.1 | 35.3   | 12.4   | 6.6    | 3.9    | 5.0    | 7.4    | 9.3    | 10.5   | 10.5   |
| 70°   | 3839.6 | 1915.0 | 29.5   | 9.3    | 5.4    | 3.5    | 4.3    | 7.0    | 8.9    | 10.1   | 10.1   |
| 72.5° | 2667.8 | 1180.7 | 26.4   | 6.6    | 4.7    | 3.1    | 3.9    | 6.6    | 8.5    | 9.7    | 10.1   |
| 75°   | 1268.4 | 427.4  | 22.5   | 5.0    | 4.3    | 2.7    | 3.5    | 6.6    | 8.5    | 9.7    | 9.7    |
| 77.5° | 258.7  | 99.3   | 18.2   | 4.3    | 3.5    | 2.7    | 3.1    | 6.2    | 8.1    | 9.3    | 9.3    |
| 80°   | 84.9   | 38.4   | 13.6   | 3.9    | 3.5    | 2.7    | 3.1    | 5.8    | 8.1    | 8.9    | 9.3    |
| 82.5° | 61.3   | 19.4   | 8.9    | 3.9    | 3.5    | 2.7    | 2.7    | 5.8    | 7.8    | 8.9    | 8.9    |
| 85°   | 46.9   | 13.6   | 5.8    | 3.9    | 3.5    | 2.7    | 2.7    | 5.4    | 7.4    | 8.5    | 8.5    |
| 87.5° | 31.0   | 5.4    | 4.7    | 3.9    | 3.5    | 2.7    | 2.7    | 5.4    | 7.0    | 8.1    | 8.5    |
| 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)