

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: P193524

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-AFL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32694 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 382  
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

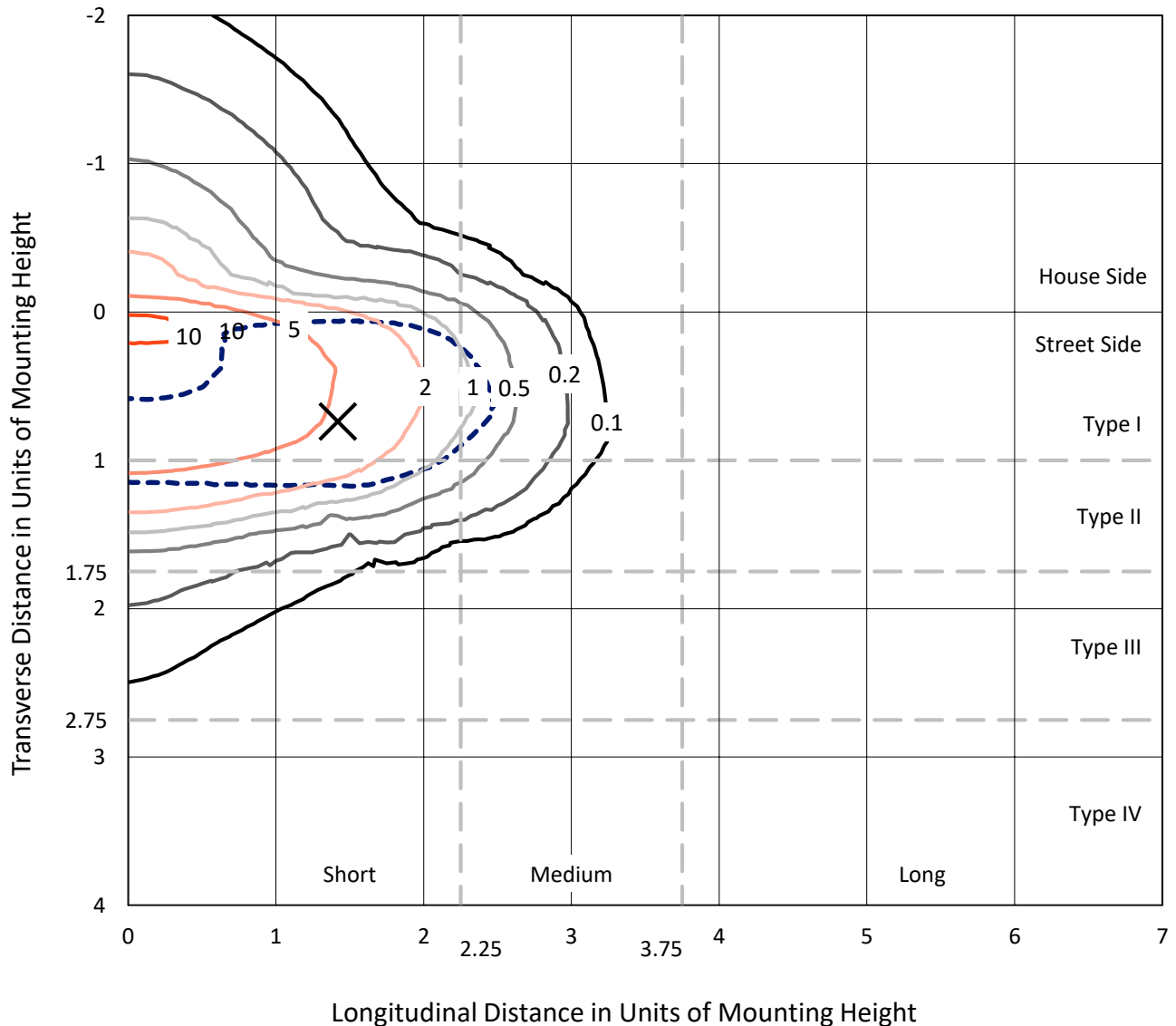


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

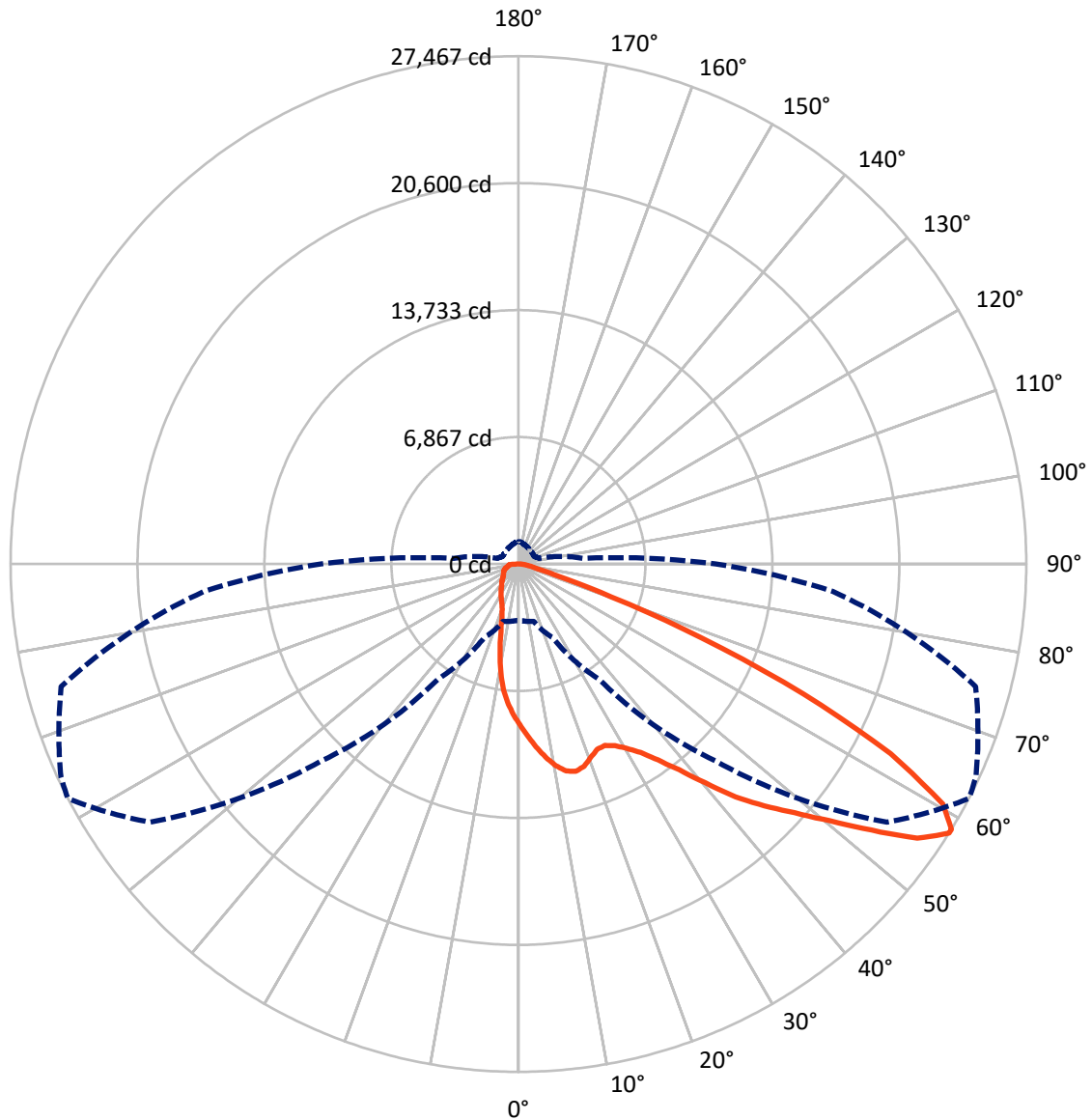


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4986.0   | 0.0    | 4986.0  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 27708.0  | 0.0    | 27708.0 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 32694.0  | 0.0    | 32694.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 776.7   | 2.4       |
| 10°-20°   | 1985.4  | 6.1       |
| 20°-30°   | 3209.4  | 9.8       |
| 30°-40°   | 5094.9  | 15.6      |
| 40°-50°   | 7454.9  | 22.8      |
| 50°-60°   | 7797.2  | 23.8      |
| 60°-70°   | 4606.6  | 14.1      |
| 70°-80°   | 1297.7  | 4.0       |
| 80°-90°   | 471.1   | 1.4       |
| 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°    | 32694.0 | 100.0     |
| 0°-180°   | 32694.0 | 100.0     |



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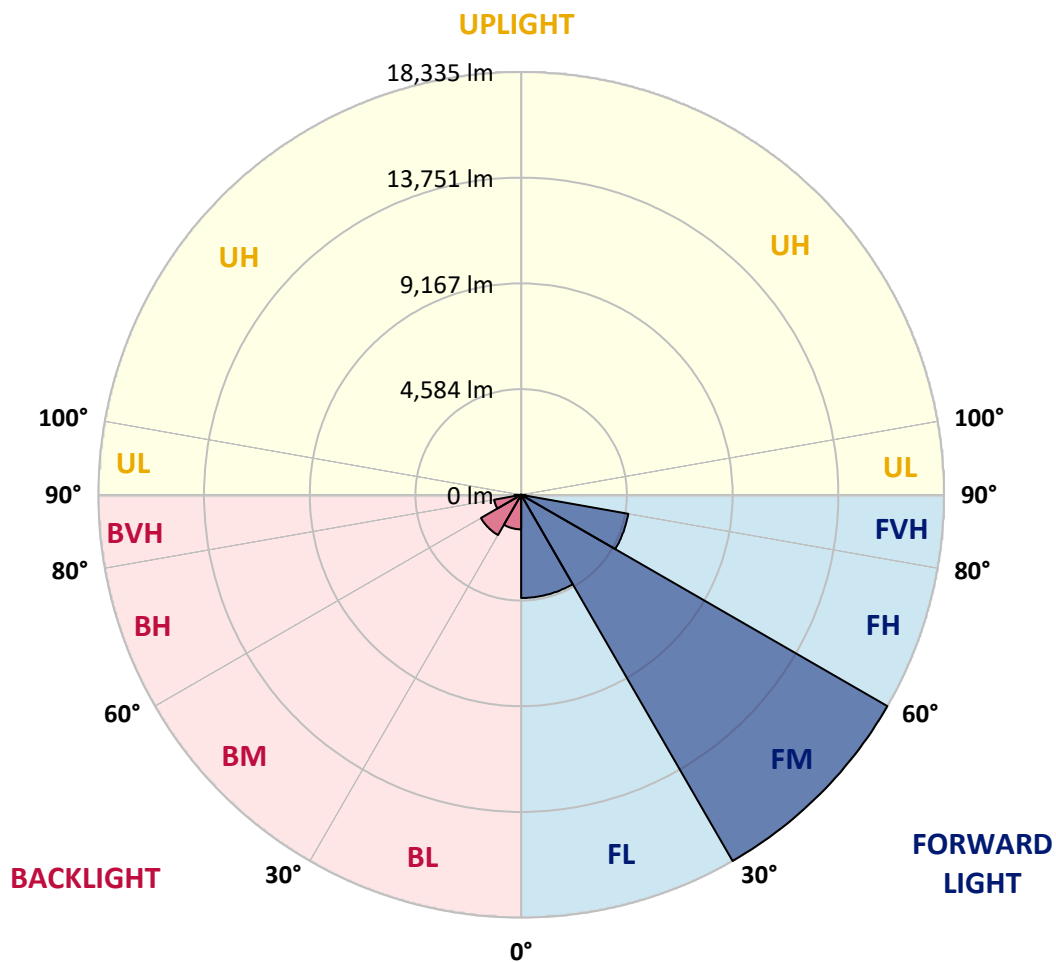
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4472.9  | 13.7      |                         |      |         |
| FM (30°-60°)   | 18334.6 | 56.1      |                         |      |         |
| FH (60°-80°)   | 4714.6  | 14.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 185.9   | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 1498.5  | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 2012.5  | 6.2       | B2/2500                 |      |         |
| BH (60°-80°)   | 1189.7  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 285.3   | 0.9       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  | 8684.5  |
| 2.5°  | 9923.8  | 9843.8  | 9793.0  | 9748.3  | 9689.8  | 9565.1  | 9397.3  | 9291.1  | 9237.2  | 9054.0  | 8836.9  |
| 5°    | 10896.8 | 10826.0 | 10773.6 | 10713.6 | 10608.9 | 10413.4 | 10142.4 | 9926.9  | 9820.7  | 9454.3  | 9020.1  |
| 7.5°  | 10669.0 | 10698.2 | 10789.0 | 10947.6 | 11083.1 | 11056.9 | 10815.2 | 10541.2 | 10401.1 | 9891.5  | 9232.6  |
| 10°   | 9295.7  | 9346.5  | 9503.5  | 9874.6  | 10475.0 | 11090.8 | 11278.6 | 11089.2 | 10947.6 | 10324.1 | 9451.2  |
| 12.5° | 9020.1  | 9018.6  | 9030.9  | 9129.4  | 9486.6  | 10353.3 | 11294.0 | 11484.9 | 11400.2 | 10736.7 | 9674.4  |
| 15°   | 9132.5  | 9135.6  | 9126.3  | 9167.9  | 9278.8  | 9622.1  | 10822.9 | 11637.3 | 11697.4 | 11152.4 | 9905.3  |
| 17.5° | 9428.1  | 9420.4  | 9385.0  | 9385.0  | 9425.0  | 9558.9  | 10268.7 | 11495.7 | 11772.8 | 11520.3 | 10108.6 |
| 20°   | 9923.8  | 9888.4  | 9794.5  | 9708.3  | 9665.2  | 9737.5  | 10040.8 | 11169.3 | 11641.9 | 11842.1 | 10276.4 |
| 22.5° | 10524.2 | 10496.5 | 10344.1 | 10159.4 | 10010.0 | 10008.5 | 10157.8 | 10884.5 | 11415.6 | 12145.4 | 10418.0 |
| 25°   | 11300.2 | 11255.5 | 11029.2 | 10733.6 | 10471.9 | 10371.8 | 10413.4 | 10870.6 | 11292.5 | 12474.8 | 10544.2 |
| 27.5° | 12211.6 | 12130.0 | 11862.1 | 11435.6 | 11050.8 | 10849.1 | 10789.0 | 11121.6 | 11404.8 | 12882.8 | 10719.8 |
| 30°   | 13316.9 | 13223.0 | 12879.7 | 12323.9 | 11780.5 | 11449.5 | 11321.7 | 11566.5 | 11777.4 | 13380.1 | 11001.5 |
| 32.5° | 14574.7 | 14439.3 | 14042.1 | 13429.3 | 12715.0 | 12210.0 | 12002.2 | 12154.6 | 12322.4 | 13978.9 | 11354.0 |
| 35°   | 16312.9 | 16151.2 | 15577.0 | 14731.8 | 13925.1 | 13230.7 | 12898.2 | 13009.0 | 13172.2 | 14871.9 | 11863.6 |
| 37.5° | 17498.3 | 17426.0 | 17044.1 | 16249.8 | 15372.2 | 14573.2 | 14059.0 | 14123.7 | 14216.0 | 15988.0 | 12516.4 |
| 40°   | 17487.5 | 17516.8 | 17524.5 | 17532.2 | 16934.8 | 16169.7 | 15617.0 | 15549.3 | 15530.8 | 17213.5 | 13258.4 |
| 42.5° | 16611.5 | 16731.6 | 17119.6 | 17906.3 | 18269.6 | 17918.6 | 17412.1 | 17216.6 | 17119.6 | 18657.6 | 14045.1 |
| 45°   | 15270.6 | 15335.3 | 16061.9 | 17598.4 | 18953.2 | 19650.6 | 19267.2 | 18651.4 | 18475.9 | 19984.7 | 14697.9 |
| 47.5° | 14579.4 | 14650.2 | 15107.4 | 16782.4 | 18945.5 | 21050.0 | 21271.7 | 20098.6 | 19784.5 | 21139.3 | 15261.4 |
| 50°   | 12933.6 | 13081.4 | 13657.2 | 15363.0 | 18254.2 | 21693.5 | 23367.0 | 21822.9 | 21173.2 | 22263.2 | 15826.4 |
| 52.5° | 9911.5  | 10139.4 | 10784.4 | 13029.1 | 16500.7 | 21374.9 | 25043.6 | 23913.5 | 22996.0 | 23427.0 | 16311.3 |
| 55°   | 6252.0  | 6421.4  | 6963.3  | 9201.8  | 13199.9 | 19716.8 | 25679.4 | 26175.1 | 25359.2 | 24529.4 | 16731.6 |
| 57.5° | 3399.3  | 3474.7  | 3677.9  | 5080.5  | 8586.0  | 16051.2 | 24752.6 | 27462.2 | 27123.5 | 25465.4 | 17048.8 |
| 58°   | 3042.1  | 3092.9  | 3219.2  | 4403.1  | 7614.5  | 15048.9 | 24341.5 | 27466.8 | 27297.4 | 25602.4 | 17073.4 |
| 60°   | 2257.0  | 2230.8  | 2118.4  | 2512.5  | 4238.3  | 10396.5 | 21856.7 | 26367.6 | 26864.8 | 25770.2 | 16953.3 |
| 62.5° | 1982.9  | 1919.8  | 1690.4  | 1664.2  | 2061.4  | 4789.5  | 16723.9 | 22586.5 | 23761.1 | 24812.6 | 16223.6 |
| 65°   | 1862.8  | 1795.1  | 1499.5  | 1404.1  | 1487.2  | 2026.0  | 9851.5  | 16939.5 | 18412.8 | 21909.1 | 14357.7 |
| 67.5° | 1773.5  | 1685.8  | 1377.9  | 1247.0  | 1253.2  | 1339.4  | 3948.9  | 10669.0 | 12327.0 | 16634.6 | 11167.8 |
| 70°   | 1687.3  | 1591.9  | 1274.7  | 1123.9  | 1088.4  | 1059.2  | 1570.3  | 5340.6  | 6844.8  | 10507.3 | 7120.3  |
| 72.5° | 1595.0  | 1501.0  | 1183.9  | 1026.9  | 957.6   | 860.6   | 1025.3  | 2184.6  | 3051.4  | 4971.1  | 3229.9  |
| 75°   | 1461.0  | 1376.3  | 1093.1  | 940.7   | 842.1   | 712.8   | 774.4   | 1140.8  | 1368.6  | 1979.8  | 1556.5  |
| 77.5° | 1296.3  | 1227.0  | 991.5   | 869.8   | 746.7   | 578.9   | 595.8   | 791.3   | 877.5   | 1133.1  | 925.3   |
| 80°   | 931.4   | 956.0   | 882.2   | 782.1   | 665.1   | 469.6   | 457.2   | 577.3   | 623.5   | 728.2   | 602.0   |
| 82.5° | 654.3   | 668.2   | 729.7   | 638.9   | 549.6   | 369.5   | 337.2   | 406.4   | 434.1   | 478.8   | 324.8   |
| 85°   | 451.1   | 435.7   | 500.3   | 444.9   | 397.2   | 246.3   | 230.9   | 275.6   | 292.5   | 297.1   | 167.8   |
| 87.5° | 271.0   | 271.0   | 289.4   | 238.6   | 214.0   | 127.8   | 124.7   | 157.0   | 167.8   | 160.1   | 92.4    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8684.5  | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 | 8684.5 |
| 2.5°  | 8707.6  | 8598.3 | 8365.8 | 8179.5 | 7944.0 | 7699.2 | 7562.2 | 7415.9 | 7315.9 | 7243.5 | 7359.0 |
| 5°    | 8773.8  | 8550.6 | 8070.2 | 7614.5 | 7111.1 | 6587.7 | 6190.5 | 5821.0 | 5563.9 | 5403.8 | 5554.6 |
| 7.5°  | 8878.5  | 8535.2 | 7770.0 | 6991.0 | 6087.3 | 5215.9 | 4436.9 | 3948.9 | 3664.1 | 3524.0 | 3611.7 |
| 10°   | 8998.6  | 8510.5 | 7417.5 | 6145.8 | 4852.6 | 3754.9 | 3173.0 | 2975.9 | 2911.3 | 2885.1 | 2897.4 |
| 12.5° | 9098.6  | 8458.2 | 6984.9 | 5123.6 | 3644.1 | 2965.1 | 2797.3 | 2792.7 | 2806.6 | 2809.6 | 2814.3 |
| 15°   | 9169.4  | 8381.2 | 6342.9 | 4058.2 | 2914.3 | 2701.9 | 2692.6 | 2720.4 | 2746.5 | 2757.3 | 2763.5 |
| 17.5° | 9217.2  | 8222.6 | 5617.7 | 3208.4 | 2611.0 | 2574.1 | 2595.6 | 2631.1 | 2658.8 | 2666.5 | 2672.6 |
| 20°   | 9212.6  | 7990.2 | 4754.1 | 2675.7 | 2446.3 | 2446.3 | 2483.3 | 2511.0 | 2512.5 | 2503.3 | 2507.9 |
| 22.5° | 9164.8  | 7671.5 | 3916.6 | 2392.4 | 2300.1 | 2326.2 | 2363.2 | 2337.0 | 2229.2 | 2158.4 | 2163.0 |
| 25°   | 9084.8  | 7291.2 | 3199.1 | 2212.3 | 2164.6 | 2210.8 | 2200.0 | 2002.9 | 1849.0 | 1779.7 | 1779.7 |
| 27.5° | 9014.0  | 6841.7 | 2648.0 | 2055.3 | 2029.1 | 2086.1 | 1895.2 | 1716.6 | 1651.9 | 1619.6 | 1608.8 |
| 30°   | 8963.2  | 6356.7 | 2280.0 | 1904.4 | 1901.3 | 1859.8 | 1644.2 | 1595.0 | 1584.2 | 1558.0 | 1548.8 |
| 32.5° | 8975.5  | 5865.6 | 2044.5 | 1772.0 | 1782.8 | 1591.9 | 1524.1 | 1534.9 | 1525.7 | 1498.0 | 1485.6 |
| 35°   | 9077.1  | 5399.1 | 1890.5 | 1651.9 | 1619.6 | 1437.9 | 1453.3 | 1473.3 | 1470.3 | 1431.8 | 1419.4 |
| 37.5° | 9258.7  | 4957.3 | 1788.9 | 1551.8 | 1413.3 | 1360.9 | 1385.6 | 1416.4 | 1408.7 | 1382.5 | 1373.3 |
| 40°   | 9449.6  | 4541.6 | 1705.8 | 1473.3 | 1291.7 | 1308.6 | 1330.2 | 1347.1 | 1354.8 | 1362.5 | 1356.3 |
| 42.5° | 9635.9  | 4107.5 | 1604.2 | 1393.3 | 1240.9 | 1259.3 | 1268.6 | 1285.5 | 1327.1 | 1356.3 | 1354.8 |
| 45°   | 9746.8  | 3699.5 | 1499.5 | 1279.4 | 1200.8 | 1211.6 | 1205.5 | 1239.3 | 1290.1 | 1337.9 | 1339.4 |
| 47.5° | 9869.9  | 3382.3 | 1416.4 | 1174.7 | 1162.3 | 1170.0 | 1151.6 | 1185.4 | 1231.6 | 1290.1 | 1296.3 |
| 50°   | 10019.3 | 3193.0 | 1350.2 | 1091.5 | 1110.0 | 1110.0 | 1105.4 | 1136.2 | 1200.8 | 1268.6 | 1280.9 |
| 52.5° | 10188.6 | 3156.0 | 1294.7 | 1031.5 | 1057.7 | 1056.1 | 1060.7 | 1106.9 | 1177.7 | 1243.9 | 1254.7 |
| 55°   | 10394.9 | 3256.1 | 1234.7 | 986.8  | 1006.9 | 1013.0 | 1028.4 | 1080.8 | 1140.8 | 1216.2 | 1220.8 |
| 57.5° | 10635.1 | 3459.3 | 1187.0 | 951.4  | 960.7  | 980.7  | 1005.3 | 1053.0 | 1117.7 | 1200.8 | 1205.5 |
| 58°   | 10675.1 | 3502.4 | 1179.3 | 948.4  | 951.4  | 974.5  | 1002.2 | 1048.4 | 1113.1 | 1203.9 | 1208.5 |
| 60°   | 10676.6 | 3645.6 | 1162.3 | 934.5  | 916.0  | 954.5  | 985.3  | 1031.5 | 1105.4 | 1214.7 | 1225.5 |
| 62.5° | 10297.9 | 3644.1 | 1150.0 | 914.5  | 879.1  | 926.8  | 962.2  | 1016.1 | 1097.7 | 1240.9 | 1262.4 |
| 65°   | 9067.8  | 3311.5 | 1091.5 | 883.7  | 849.8  | 902.2  | 942.2  | 1005.3 | 1119.2 | 1354.8 | 1368.6 |
| 67.5° | 7092.6  | 2714.2 | 982.2  | 840.6  | 811.3  | 877.5  | 929.9  | 1003.8 | 1142.3 | 1381.0 | 1390.2 |
| 70°   | 4689.4  | 2030.6 | 862.1  | 791.3  | 771.3  | 848.3  | 936.0  | 1056.1 | 1116.2 | 1325.5 | 1300.9 |
| 72.5° | 2434.0  | 1425.6 | 765.1  | 729.7  | 725.1  | 822.1  | 1025.3 | 1050.0 | 1090.0 | 1247.0 | 1216.2 |
| 75°   | 1277.8  | 989.9  | 680.5  | 662.0  | 669.7  | 816.0  | 1210.1 | 1022.2 | 1056.1 | 1193.1 | 1251.6 |
| 77.5° | 782.1   | 799.0  | 608.1  | 600.4  | 615.8  | 797.5  | 1208.5 | 986.8  | 1006.9 | 1097.7 | 1162.3 |
| 80°   | 523.4   | 648.1  | 552.7  | 554.2  | 565.0  | 729.7  | 1085.4 | 931.4  | 946.8  | 1037.6 | 1103.8 |
| 82.5° | 331.0   | 383.3  | 501.9  | 528.1  | 514.2  | 602.0  | 922.2  | 848.3  | 869.8  | 1187.0 | 1254.7 |
| 85°   | 167.8   | 240.2  | 435.7  | 508.0  | 463.4  | 421.8  | 748.2  | 743.6  | 754.4  | 856.0  | 894.5  |
| 87.5° | 77.0    | 132.4  | 340.2  | 443.4  | 349.5  | 263.3  | 543.5  | 551.2  | 594.3  | 608.1  | 608.1  |
| 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)