

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: P458712

Luminaire Tested: **GALN-SA2C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9484 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

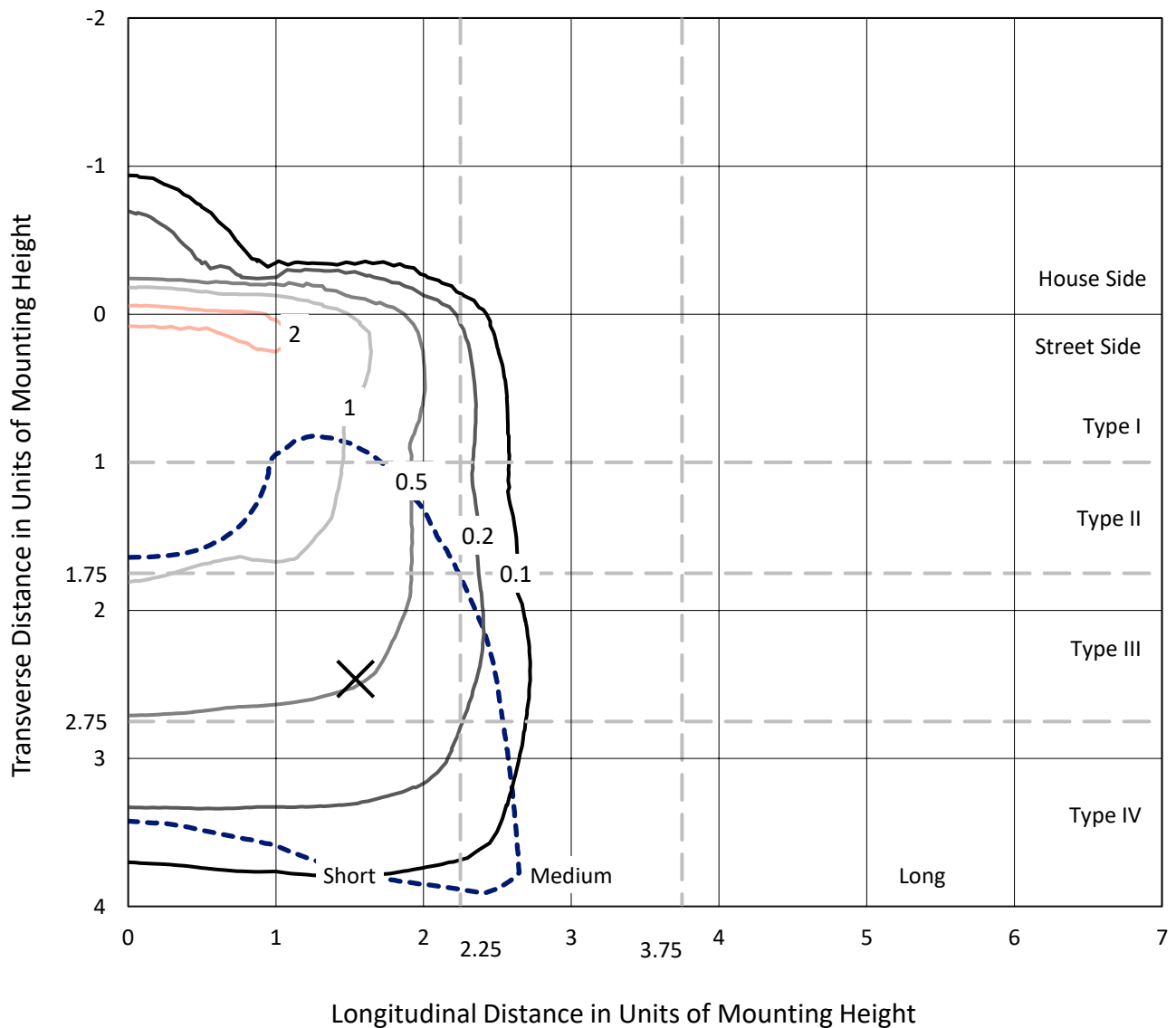
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

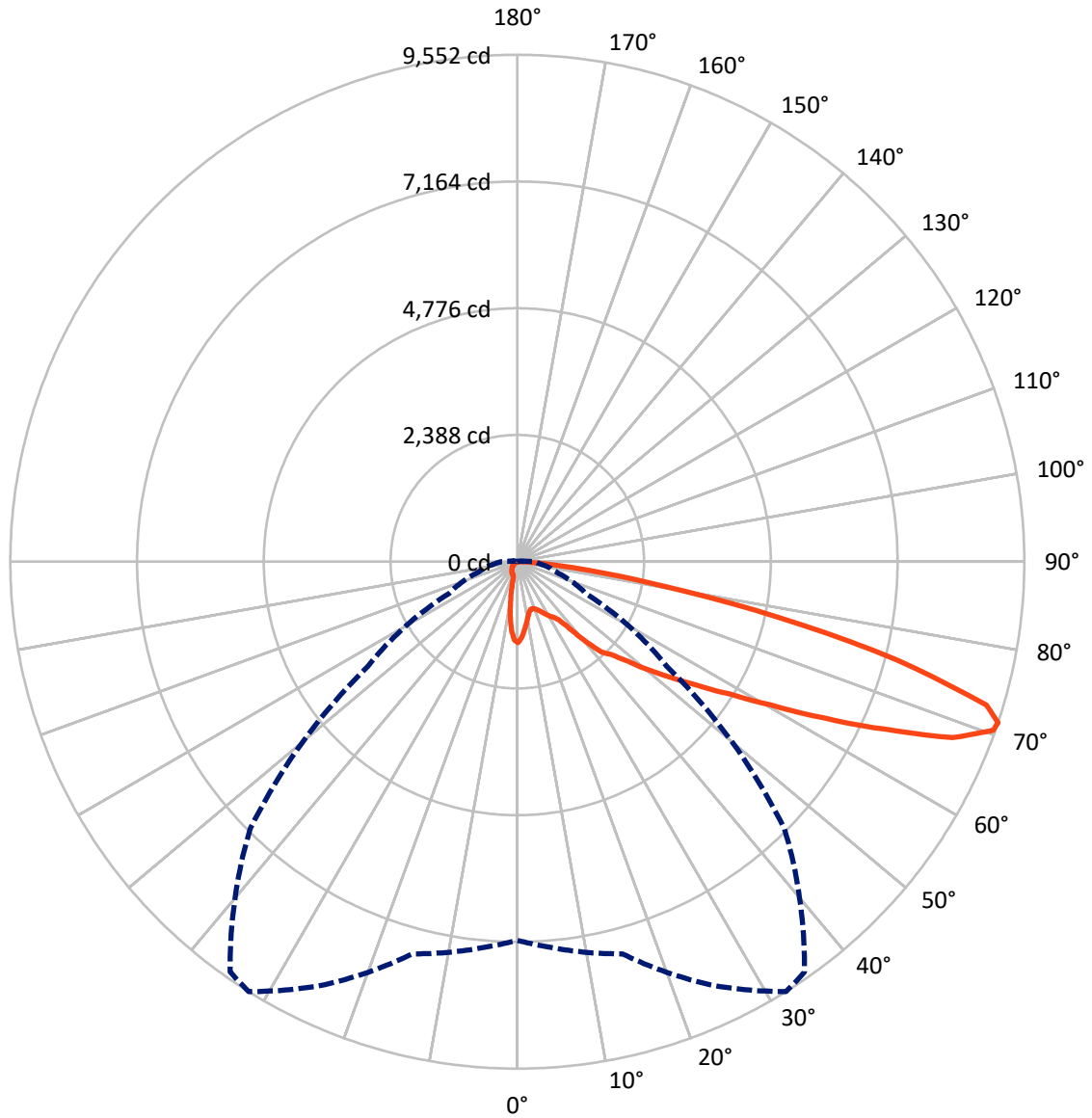
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 794.4    | 0.0    | 794.4  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 8689.6   | 0.0    | 8689.6 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 9484.0   | 0.0    | 9484.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.0  | 1.3       |
| 10°-20°   | 269.2  | 2.8       |
| 20°-30°   | 418.7  | 4.4       |
| 30°-40°   | 697.6  | 7.4       |
| 40°-50°   | 1297.6 | 13.7      |
| 50°-60°   | 2083.4 | 22.0      |
| 60°-70°   | 2802.3 | 29.5      |
| 70°-80°   | 1662.6 | 17.5      |
| 80°-90°   | 128.5  | 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°    | 9484.0 | 100.0     |
| 0°-180°   | 9484.0 | 100.0     |



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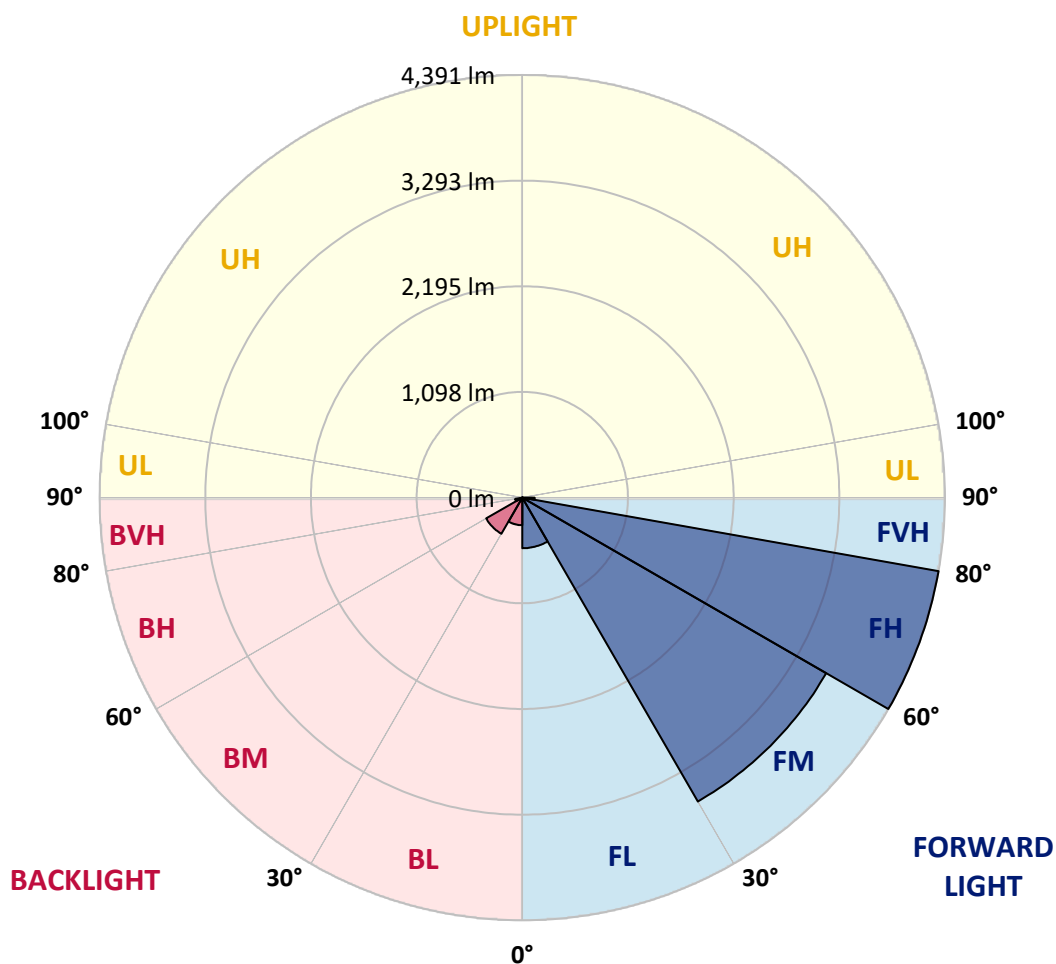
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 525.7  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 3645.3 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 4390.6 | 46.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 128.0  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 286.2  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 433.4  | 4.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 74.3   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 0.0       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 32°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 |
| 2.5°  | 1414.5 | 1429.1 | 1426.9 | 1432.0 | 1444.4 | 1449.5 | 1463.3 | 1478.6 | 1499.7 | 1514.3 | 1523.7 |
| 5°    | 1266.7 | 1277.7 | 1279.1 | 1304.6 | 1317.0 | 1330.8 | 1371.6 | 1416.0 | 1465.5 | 1504.8 | 1531.0 |
| 7.5°  | 1108.8 | 1114.6 | 1126.2 | 1159.7 | 1191.0 | 1204.9 | 1266.7 | 1343.9 | 1421.8 | 1495.3 | 1542.6 |
| 10°   | 978.4  | 985.0  | 1006.1 | 1041.8 | 1070.9 | 1089.1 | 1175.0 | 1271.8 | 1381.0 | 1490.2 | 1559.4 |
| 12.5° | 904.2  | 907.8  | 915.8  | 947.9  | 985.0  | 1004.7 | 1097.1 | 1207.8 | 1348.3 | 1492.4 | 1587.8 |
| 15°   | 899.1  | 897.6  | 888.2  | 901.3  | 934.8  | 955.1  | 1045.4 | 1164.1 | 1319.1 | 1499.7 | 1621.3 |
| 17.5° | 926.0  | 922.4  | 899.8  | 899.8  | 927.5  | 944.2  | 1023.6 | 1140.8 | 1304.6 | 1516.4 | 1668.6 |
| 20°   | 967.5  | 961.7  | 924.6  | 921.7  | 948.6  | 966.1  | 1036.7 | 1142.2 | 1307.5 | 1547.7 | 1731.9 |
| 22.5° | 1019.9 | 1013.4 | 957.3  | 958.8  | 987.9  | 1005.4 | 1074.5 | 1168.5 | 1325.7 | 1586.3 | 1799.6 |
| 25°   | 1088.4 | 1081.1 | 1014.8 | 1011.9 | 1042.5 | 1057.8 | 1130.6 | 1215.0 | 1351.2 | 1634.4 | 1888.5 |
| 27.5° | 1179.4 | 1164.1 | 1084.7 | 1080.4 | 1113.1 | 1132.8 | 1198.3 | 1277.7 | 1396.3 | 1700.6 | 2007.8 |
| 30°   | 1254.4 | 1237.6 | 1161.9 | 1150.3 | 1185.2 | 1200.5 | 1268.2 | 1362.1 | 1485.1 | 1816.4 | 2173.1 |
| 32.5° | 1352.6 | 1327.9 | 1239.1 | 1208.5 | 1245.6 | 1265.3 | 1369.4 | 1519.4 | 1616.9 | 1938.7 | 2369.7 |
| 35°   | 1574.0 | 1558.7 | 1450.2 | 1343.2 | 1341.0 | 1365.7 | 1518.6 | 1678.1 | 1752.3 | 2129.4 | 2637.6 |
| 37.5° | 1890.6 | 1879.7 | 1764.7 | 1621.3 | 1579.8 | 1568.1 | 1699.9 | 1852.8 | 1968.5 | 2391.5 | 2949.2 |
| 40°   | 2258.3 | 2232.8 | 2127.2 | 2005.7 | 1951.8 | 1917.6 | 1913.9 | 2112.7 | 2251.0 | 2747.5 | 3273.8 |
| 42.5° | 2521.8 | 2475.2 | 2347.1 | 2338.4 | 2326.7 | 2291.0 | 2187.7 | 2492.7 | 2615.7 | 3130.4 | 3621.1 |
| 45°   | 2798.5 | 2727.8 | 2537.1 | 2504.3 | 2500.0 | 2497.8 | 2601.2 | 2942.6 | 3013.2 | 3545.4 | 3977.8 |
| 47.5° | 3013.2 | 2957.2 | 2800.6 | 2786.1 | 2804.3 | 2853.8 | 3147.9 | 3420.2 | 3405.6 | 3915.2 | 4277.0 |
| 50°   | 3299.3 | 3257.1 | 3083.1 | 3110.8 | 3204.7 | 3285.5 | 3764.5 | 3940.7 | 3728.1 | 4206.4 | 4494.7 |
| 52.5° | 3637.1 | 3559.2 | 3397.6 | 3472.6 | 3616.7 | 3751.4 | 4419.0 | 4396.4 | 3954.5 | 4425.6 | 4657.1 |
| 55°   | 3929.8 | 3874.5 | 3819.1 | 3897.0 | 4112.5 | 4280.7 | 5010.1 | 4737.9 | 4119.1 | 4601.7 | 4728.4 |
| 57.5° | 4424.8 | 4411.7 | 4354.9 | 4434.3 | 4695.6 | 4870.4 | 5539.4 | 5002.9 | 4224.6 | 4693.5 | 4644.7 |
| 60°   | 5157.2 | 5136.1 | 5030.5 | 5131.7 | 5472.4 | 5746.9 | 6027.2 | 5240.9 | 4248.7 | 4657.8 | 4403.7 |
| 62.5° | 6038.1 | 5966.0 | 5875.7 | 6025.0 | 6492.4 | 6613.2 | 6486.5 | 5382.2 | 4159.1 | 4373.9 | 3822.8 |
| 65°   | 6860.7 | 6786.5 | 6788.7 | 7103.2 | 7612.0 | 7694.3 | 7022.4 | 5361.0 | 3897.0 | 3662.6 | 2819.6 |
| 67.5° | 7490.5 | 7478.1 | 7566.9 | 8180.6 | 8846.0 | 8789.2 | 7501.4 | 5045.1 | 3120.2 | 2374.0 | 1498.2 |
| 70°   | 7522.5 | 7546.5 | 7801.3 | 8837.3 | 9512.9 | 9422.6 | 7460.6 | 4100.9 | 1945.2 | 1092.0 | 590.4  |
| 71°   | 7135.2 | 7296.8 | 7649.2 | 8816.9 | 9552.2 | 9435.0 | 7117.0 | 3434.7 | 1426.9 | 761.5  | 425.9  |
| 72.5° | 6080.3 | 6165.5 | 6927.0 | 8297.8 | 9241.3 | 8990.9 | 6245.6 | 2407.5 | 913.6  | 465.9  | 244.6  |
| 75°   | 3348.8 | 3558.5 | 4638.9 | 6509.8 | 7391.5 | 7171.6 | 4070.3 | 1143.7 | 455.7  | 254.8  | 101.2  |
| 77.5° | 1594.3 | 1553.6 | 2263.4 | 3871.5 | 5011.6 | 5000.0 | 2050.8 | 508.1  | 265.7  | 172.5  | 51.0   |
| 80°   | 455.7  | 512.5  | 866.3  | 1840.4 | 2782.4 | 2813.0 | 787.7  | 245.3  | 184.2  | 134.7  | 26.2   |
| 82.5° | 137.6  | 140.5  | 318.1  | 813.9  | 1383.9 | 1304.6 | 295.6  | 125.2  | 132.5  | 107.0  | 15.3   |
| 85°   | 24.0   | 29.8   | 93.9   | 286.8  | 527.8  | 400.4  | 74.3   | 59.7   | 87.4   | 70.6   | 8.7    |
| 87.5° | 1.5    | 2.2    | 31.3   | 32.8   | 46.6   | 26.9   | 13.1   | 8.7    | 18.9   | 18.9   | 5.1    |
| 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°    | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 | 1525.2 |
| 2.5°  | 1530.3 | 1534.6 | 1531.7 | 1525.2 | 1514.3 | 1501.2 | 1483.7 | 1469.1 | 1456.7 | 1450.2 | 1458.2 |
| 5°    | 1539.7 | 1545.6 | 1531.0 | 1498.2 | 1448.7 | 1394.9 | 1333.7 | 1286.4 | 1249.3 | 1237.6 | 1233.2 |
| 7.5°  | 1554.3 | 1557.9 | 1518.6 | 1445.8 | 1341.0 | 1213.6 | 1102.2 | 1008.3 | 935.5  | 913.6  | 881.6  |
| 10°   | 1573.2 | 1571.0 | 1496.8 | 1361.4 | 1177.2 | 985.7  | 813.2  | 685.1  | 588.2  | 553.3  | 550.4  |
| 12.5° | 1602.3 | 1590.7 | 1469.1 | 1246.3 | 982.1  | 731.6  | 518.3  | 405.5  | 344.3  | 324.0  | 319.6  |
| 15°   | 1638.7 | 1611.1 | 1425.4 | 1111.7 | 752.0  | 472.5  | 319.6  | 285.4  | 277.4  | 275.9  | 274.5  |
| 17.5° | 1681.7 | 1638.0 | 1367.9 | 946.4  | 528.5  | 306.5  | 267.2  | 266.5  | 267.2  | 265.7  | 265.0  |
| 20°   | 1739.9 | 1666.4 | 1299.5 | 750.6  | 349.4  | 258.4  | 254.8  | 254.8  | 255.5  | 254.8  | 254.8  |
| 22.5° | 1801.8 | 1699.9 | 1215.0 | 572.9  | 263.5  | 245.3  | 244.6  | 246.1  | 247.5  | 246.8  | 246.8  |
| 25°   | 1878.3 | 1743.6 | 1103.7 | 392.4  | 235.9  | 234.4  | 235.1  | 238.1  | 241.0  | 241.7  | 241.0  |
| 27.5° | 1988.9 | 1797.5 | 984.3  | 270.1  | 216.2  | 217.7  | 225.0  | 232.2  | 236.6  | 237.3  | 237.3  |
| 30°   | 2113.4 | 1857.1 | 828.5  | 219.1  | 200.2  | 200.2  | 208.9  | 222.8  | 232.2  | 233.7  | 234.4  |
| 32.5° | 2273.6 | 1926.3 | 655.9  | 197.3  | 184.9  | 183.5  | 191.5  | 208.2  | 225.7  | 230.8  | 230.8  |
| 35°   | 2471.6 | 2007.8 | 487.8  | 183.5  | 174.0  | 170.4  | 174.7  | 188.6  | 211.1  | 225.7  | 227.1  |
| 37.5° | 2703.8 | 2085.0 | 356.7  | 171.1  | 163.8  | 158.7  | 161.6  | 172.5  | 190.7  | 212.6  | 218.4  |
| 40°   | 2918.6 | 2153.4 | 266.5  | 160.9  | 153.6  | 150.0  | 152.2  | 157.2  | 172.5  | 192.9  | 196.6  |
| 42.5° | 3153.0 | 2206.6 | 211.9  | 150.0  | 143.4  | 142.0  | 142.0  | 144.1  | 154.3  | 166.0  | 166.7  |
| 45°   | 3386.7 | 2225.5 | 177.6  | 136.9  | 132.5  | 134.0  | 133.2  | 131.8  | 136.1  | 134.7  | 134.7  |
| 47.5° | 3553.4 | 2203.0 | 147.1  | 124.5  | 124.5  | 126.7  | 123.0  | 117.9  | 115.8  | 107.0  | 107.7  |
| 50°   | 3667.7 | 2120.7 | 120.8  | 109.9  | 115.8  | 118.7  | 111.4  | 103.4  | 95.4   | 85.9   | 83.7   |
| 52.5° | 3715.0 | 1974.4 | 99.0   | 91.0   | 102.6  | 106.3  | 97.6   | 88.1   | 75.7   | 67.7   | 65.5   |
| 55°   | 3684.4 | 1793.8 | 82.3   | 74.3   | 86.6   | 91.0   | 82.3   | 71.3   | 57.5   | 48.8   | 47.3   |
| 57.5° | 3549.8 | 1578.3 | 69.9   | 59.0   | 69.2   | 72.1   | 66.2   | 54.6   | 40.8   | 32.0   | 32.0   |
| 60°   | 3316.8 | 1355.5 | 56.8   | 46.6   | 51.7   | 56.1   | 50.2   | 39.3   | 27.7   | 19.7   | 18.2   |
| 62.5° | 2844.3 | 1100.7 | 45.9   | 36.4   | 36.4   | 40.0   | 34.9   | 28.4   | 17.5   | 10.2   | 9.5    |
| 65°   | 2053.7 | 754.9  | 36.4   | 26.9   | 26.2   | 26.2   | 21.8   | 18.9   | 10.2   | 4.4    | 2.9    |
| 67.5° | 1116.0 | 425.9  | 29.1   | 20.4   | 18.2   | 17.5   | 13.8   | 10.9   | 4.4    | 0.7    | 0.0    |
| 70°   | 439.0  | 163.8  | 22.6   | 13.8   | 11.6   | 10.9   | 7.3    | 5.1    | 2.9    | 0.0    | 0.0    |
| 71°   | 297.8  | 112.8  | 19.7   | 11.6   | 9.5    | 8.0    | 5.8    | 4.4    | 2.2    | 0.0    | 0.0    |
| 72.5° | 170.4  | 69.9   | 15.3   | 8.7    | 7.3    | 5.8    | 4.4    | 2.9    | 2.2    | 0.0    | 0.0    |
| 75°   | 74.3   | 35.7   | 9.5    | 6.6    | 5.1    | 3.6    | 2.9    | 2.2    | 0.7    | 0.0    | 0.0    |
| 77.5° | 37.9   | 19.7   | 6.6    | 5.1    | 2.9    | 2.2    | 1.5    | 0.7    | 0.0    | 0.0    | 0.0    |
| 80°   | 21.1   | 10.2   | 4.4    | 2.9    | 2.2    | 1.5    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 11.6   | 5.8    | 2.2    | 1.5    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 7.3    | 3.6    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.6    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 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)