

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: P530893

Luminaire Tested: **GALN-SA6A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13184 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

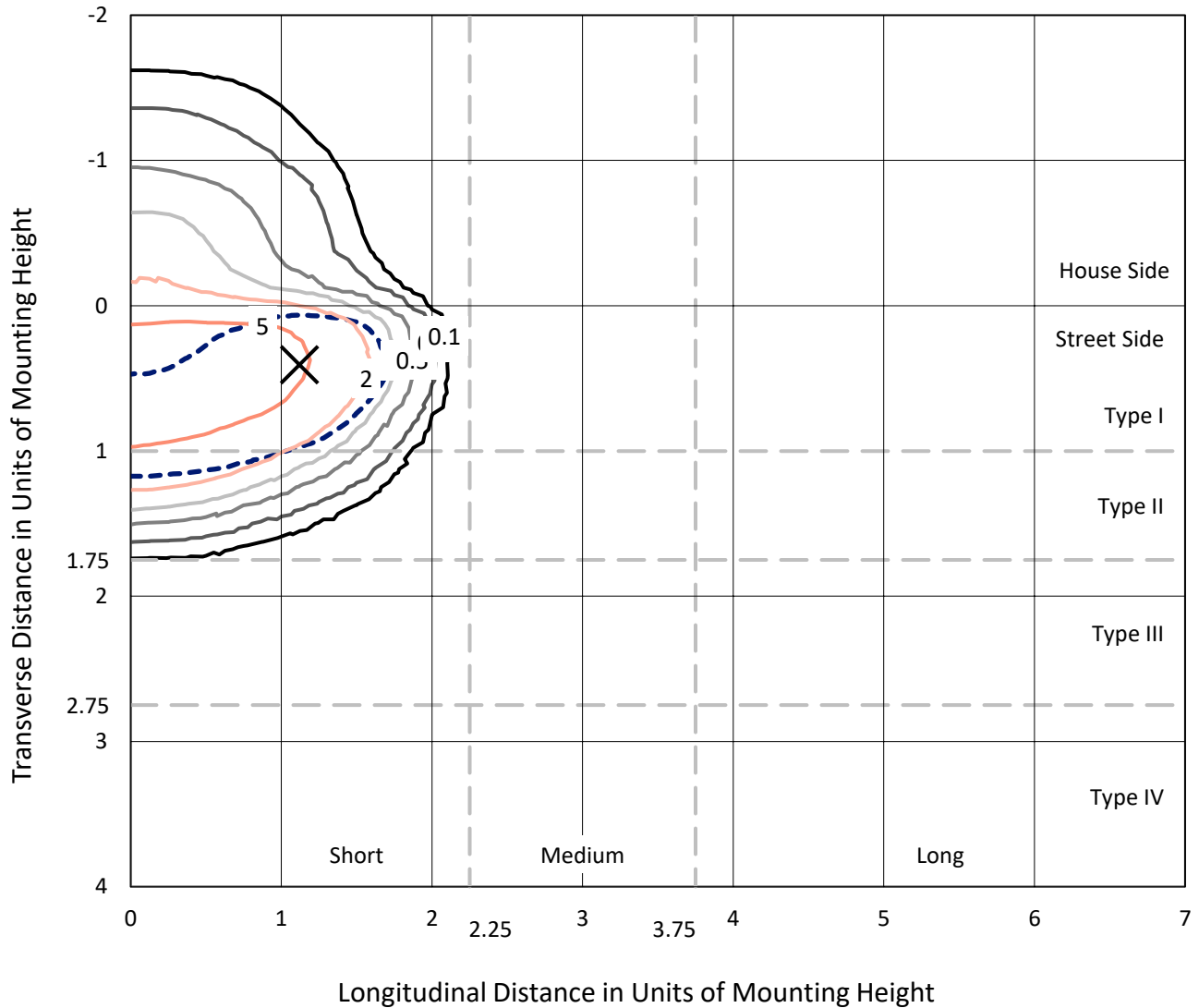
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

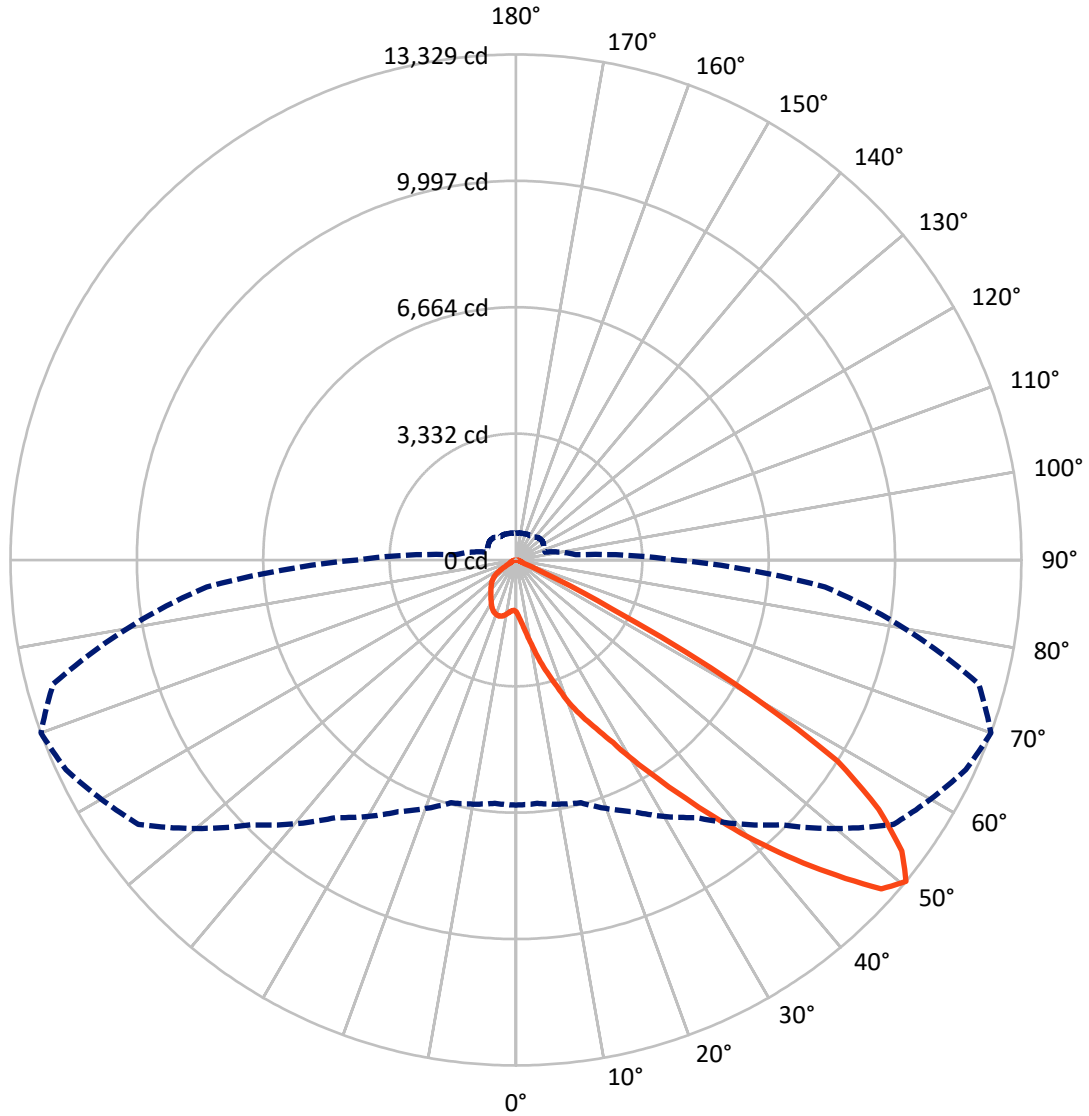
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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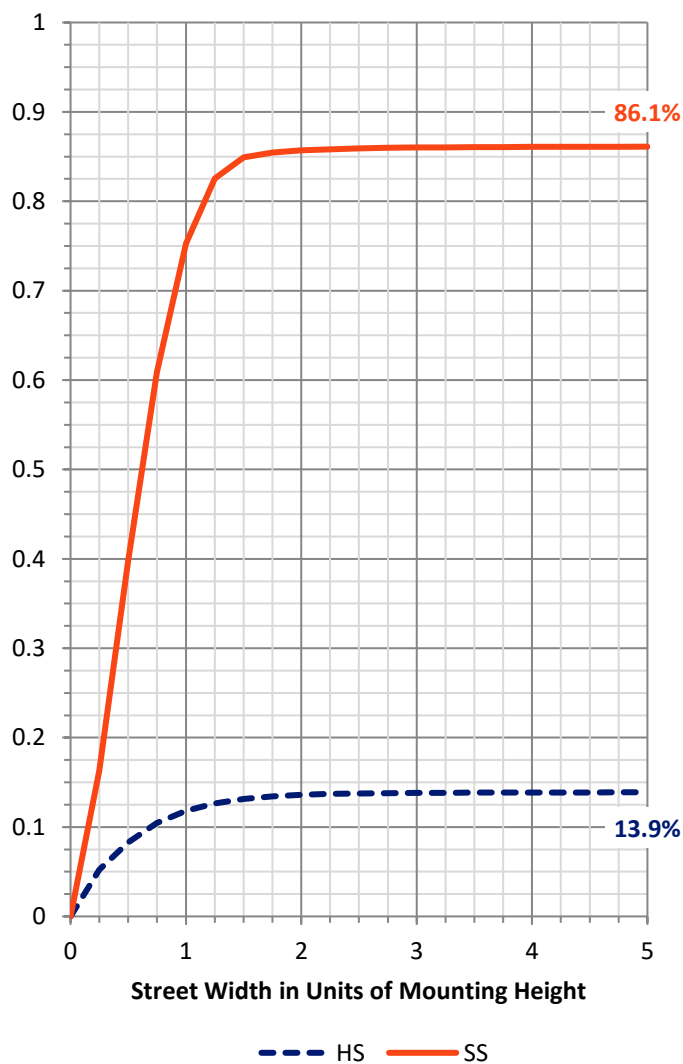
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1841.2   | 0.0    | 1841.2  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 11342.8  | 0.0    | 11342.8 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 13184.0  | 0.0    | 13184.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 177.6   | 1.3       |
| 10°-20°   | 768.1   | 5.8       |
| 20°-30°   | 1611.4  | 12.2      |
| 30°-40°   | 2777.6  | 21.1      |
| 40°-50°   | 4059.4  | 30.8      |
| 50°-60°   | 3161.6  | 24.0      |
| 60°-70°   | 535.7   | 4.1       |
| 70°-80°   | 73.6    | 0.6       |
| 80°-90°   | 19.1    | 0.1       |
| 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°    | 13184.0 | 100.0     |
| 0°-180°   | 13184.0 | 100.0     |

**Coefficient of Utilization**



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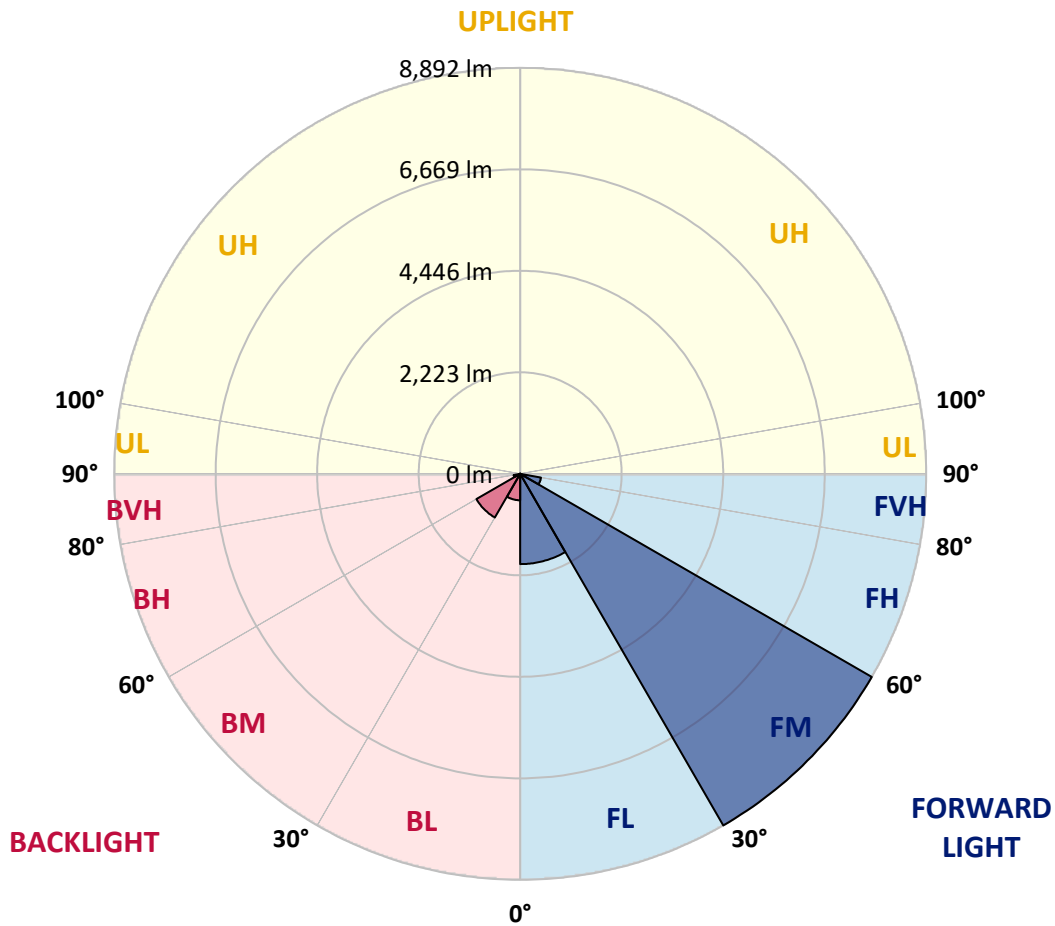
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1977.8 | 15.0      |                         |      |        |
| FM (30°-60°)   | 8892.4 | 67.4      |                         |      |        |
| FH (60°-80°)   | 463.8  | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 8.8    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 579.4  | 4.4       | B2/1000                 |      |        |
| BM (30°-60°)   | 1106.2 | 8.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 145.4  | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 10.2   | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 70°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6  | 1365.6  | 1365.6  | 1365.6  | 1365.6  | 1365.6 |
| 2.5°  | 1788.3 | 1775.3 | 1747.1 | 1695.1 | 1673.4 | 1621.4  | 1591.0  | 1532.5  | 1495.7  | 1454.5  | 1409.0 |
| 5°    | 2518.8 | 2451.6 | 2410.4 | 2351.9 | 2180.6 | 2074.4  | 1898.8  | 1749.3  | 1679.9  | 1604.0  | 1500.0 |
| 7.5°  | 3273.1 | 3229.8 | 3173.4 | 3047.7 | 2930.6 | 2709.5  | 2408.2  | 2078.8  | 1937.9  | 1807.8  | 1601.9 |
| 10°   | 3897.4 | 3776.0 | 3769.5 | 3676.3 | 3548.4 | 3283.9  | 2922.0  | 2512.3  | 2260.8  | 2070.1  | 1747.1 |
| 12.5° | 4333.1 | 4222.5 | 4272.4 | 4261.5 | 4142.3 | 3899.6  | 3481.2  | 2939.3  | 2677.0  | 2380.1  | 1896.7 |
| 15°   | 4729.8 | 4684.2 | 4669.1 | 4656.1 | 4608.4 | 4428.5  | 4053.5  | 3459.5  | 3080.2  | 2722.5  | 2065.7 |
| 17.5° | 5117.8 | 5000.7 | 5057.1 | 5067.9 | 5063.6 | 4901.0  | 4549.8  | 3953.7  | 3507.2  | 3084.5  | 2243.5 |
| 20°   | 5462.4 | 5473.2 | 5397.4 | 5382.2 | 5369.2 | 5362.7  | 5020.2  | 4443.6  | 4031.8  | 3463.9  | 2475.4 |
| 22.5° | 5904.6 | 5828.7 | 5895.9 | 5852.6 | 5768.0 | 5716.0  | 5453.7  | 4877.2  | 4487.0  | 3921.2  | 2711.7 |
| 25°   | 6427.0 | 6487.7 | 6329.5 | 6312.1 | 6218.9 | 6039.0  | 5802.7  | 5362.7  | 4924.8  | 4346.1  | 2967.5 |
| 27.5° | 7070.8 | 6964.6 | 6923.4 | 6828.0 | 6658.9 | 6583.1  | 6305.6  | 5863.4  | 5453.7  | 4792.6  | 3214.6 |
| 30°   | 7623.5 | 7595.4 | 7389.4 | 7276.7 | 7129.3 | 7127.1  | 6739.1  | 6541.9  | 6143.0  | 5492.8  | 3554.9 |
| 32.5° | 8074.4 | 7950.8 | 7875.0 | 7796.9 | 7677.7 | 7710.2  | 7382.9  | 7278.9  | 6877.9  | 6143.0  | 3955.9 |
| 35°   | 8375.7 | 8286.8 | 8241.3 | 8122.1 | 8087.4 | 8232.6  | 8096.1  | 8052.7  | 7723.2  | 7057.8  | 4426.3 |
| 37.5° | 8471.1 | 8499.3 | 8490.6 | 8341.0 | 8414.7 | 8807.1  | 8982.6  | 8869.9  | 8696.5  | 8022.4  | 4935.7 |
| 40°   | 8555.6 | 8575.1 | 8531.8 | 8707.3 | 8917.6 | 9364.1  | 9999.2  | 9812.8  | 9747.8  | 9000.0  | 5644.5 |
| 42.5° | 8603.3 | 8588.1 | 8588.1 | 8891.6 | 9210.2 | 10107.6 | 10981.2 | 10857.6 | 10807.8 | 10040.4 | 6463.9 |
| 45°   | 8397.4 | 8250.0 | 8408.2 | 8820.1 | 9461.7 | 10474.0 | 11765.9 | 11937.1 | 11865.6 | 11278.1 | 7421.9 |
| 47.5° | 7627.9 | 7718.9 | 7807.8 | 8358.4 | 9156.0 | 10361.2 | 12247.1 | 12830.2 | 12962.4 | 12318.6 | 8050.6 |
| 50°   | 6463.9 | 6444.3 | 6628.6 | 7322.2 | 8291.2 | 9875.7  | 12153.9 | 13088.1 | 13328.7 | 12630.7 | 8182.8 |
| 52.5° | 4701.6 | 4844.6 | 5044.1 | 5733.4 | 6882.2 | 8618.5  | 10950.8 | 12422.7 | 12743.5 | 12247.1 | 8096.1 |
| 55°   | 2737.7 | 2579.5 | 3028.2 | 3611.3 | 4695.1 | 6500.7  | 9257.9  | 11011.5 | 11605.5 | 11549.1 | 7658.2 |
| 57.5° | 1096.8 | 1062.1 | 1216.0 | 1638.7 | 2449.4 | 4029.6  | 6732.6  | 9047.7  | 9999.2  | 10578.0 | 6730.5 |
| 60°   | 481.2  | 470.4  | 552.7  | 667.6  | 1001.4 | 1857.7  | 3682.8  | 5627.2  | 6619.9  | 7391.6  | 4632.2 |
| 62.5° | 346.8  | 342.5  | 383.7  | 424.9  | 528.9  | 808.5   | 1547.7  | 2267.3  | 2826.6  | 3414.0  | 2074.4 |
| 65°   | 279.6  | 290.5  | 318.6  | 340.3  | 390.2  | 448.7   | 546.2   | 630.8   | 773.8   | 802.0   | 457.4  |
| 67.5° | 227.6  | 236.3  | 262.3  | 286.1  | 294.8  | 242.8   | 251.4   | 221.1   | 221.1   | 197.3   | 158.2  |
| 70°   | 166.9  | 169.1  | 199.4  | 227.6  | 182.1  | 97.5    | 171.2   | 171.2   | 153.9   | 147.4   | 134.4  |
| 72.5° | 123.6  | 125.7  | 149.6  | 140.9  | 71.5   | 60.7    | 125.7   | 138.7   | 125.7   | 119.2   | 108.4  |
| 75°   | 91.0   | 93.2   | 78.0   | 32.5   | 30.3   | 39.0    | 73.7    | 95.4    | 91.0    | 88.9    | 82.4   |
| 77.5° | 17.3   | 13.0   | 10.8   | 15.2   | 21.7   | 32.5    | 47.7    | 58.5    | 60.7    | 65.0    | 60.7   |
| 80°   | 2.2    | 2.2    | 6.5    | 13.0   | 23.8   | 34.7    | 49.9    | 56.4    | 58.5    | 60.7    | 56.4   |
| 82.5° | 0.0    | 2.2    | 6.5    | 13.0   | 23.8   | 32.5    | 43.4    | 49.9    | 54.2    | 56.4    | 54.2   |
| 85°   | 0.0    | 2.2    | 4.3    | 10.8   | 19.5   | 23.8    | 21.7    | 15.2    | 13.0    | 15.2    | 10.8   |
| 87.5° | 0.0    | 0.0    | 2.2    | 2.2    | 4.3    | 4.3     | 4.3     | 4.3     | 4.3     | 4.3     | 4.3    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 | 1365.6 |
| 2.5°  | 1382.9 | 1374.3 | 1343.9 | 1311.4 | 1283.2 | 1296.2 | 1283.2 | 1272.4 | 1276.7 | 1272.4 | 1268.1 |
| 5°    | 1458.8 | 1419.8 | 1354.8 | 1326.6 | 1302.7 | 1300.6 | 1294.1 | 1291.9 | 1294.1 | 1294.1 | 1274.6 |
| 7.5°  | 1530.3 | 1467.5 | 1398.1 | 1367.8 | 1339.6 | 1341.8 | 1326.6 | 1326.6 | 1324.4 | 1313.6 | 1309.2 |
| 10°   | 1638.7 | 1554.2 | 1465.3 | 1411.1 | 1376.4 | 1369.9 | 1354.8 | 1339.6 | 1339.6 | 1339.6 | 1317.9 |
| 12.5° | 1757.9 | 1651.7 | 1530.3 | 1467.5 | 1426.3 | 1393.8 | 1369.9 | 1365.6 | 1341.8 | 1337.4 | 1326.6 |
| 15°   | 1862.0 | 1727.6 | 1573.7 | 1487.0 | 1435.0 | 1391.6 | 1354.8 | 1330.9 | 1320.1 | 1313.6 | 1304.9 |
| 17.5° | 1963.9 | 1792.6 | 1597.5 | 1487.0 | 1430.6 | 1380.8 | 1341.8 | 1320.1 | 1294.1 | 1298.4 | 1281.1 |
| 20°   | 2100.4 | 1862.0 | 1604.0 | 1458.8 | 1389.4 | 1341.8 | 1289.7 | 1278.9 | 1263.7 | 1250.7 | 1255.1 |
| 22.5° | 2232.7 | 1911.8 | 1584.5 | 1424.1 | 1324.4 | 1268.1 | 1242.0 | 1229.0 | 1222.5 | 1211.7 | 1196.5 |
| 25°   | 2351.9 | 1966.0 | 1554.2 | 1361.3 | 1255.1 | 1213.9 | 1190.0 | 1187.9 | 1172.7 | 1172.7 | 1144.5 |
| 27.5° | 2473.3 | 1985.5 | 1502.2 | 1287.6 | 1194.4 | 1170.5 | 1159.7 | 1155.3 | 1148.8 | 1133.7 | 1114.2 |
| 30°   | 2612.0 | 1992.0 | 1426.3 | 1211.7 | 1140.2 | 1114.2 | 1129.3 | 1140.2 | 1112.0 | 1083.8 | 1092.5 |
| 32.5° | 2726.9 | 1976.9 | 1335.3 | 1140.2 | 1101.2 | 1088.1 | 1118.5 | 1129.3 | 1096.8 | 1066.5 | 1051.3 |
| 35°   | 2865.6 | 1940.0 | 1246.4 | 1083.8 | 1062.1 | 1088.1 | 1114.2 | 1114.2 | 1049.1 | 1012.3 | 1003.6 |
| 37.5° | 3075.9 | 1898.8 | 1164.0 | 1036.1 | 1021.0 | 1075.1 | 1109.8 | 1086.0 | 984.1  | 938.6  | 927.7  |
| 40°   | 3301.3 | 1872.8 | 1083.8 | 988.4  | 999.3  | 1053.5 | 1073.0 | 999.3  | 895.2  | 867.0  | 858.4  |
| 42.5° | 3628.6 | 1820.8 | 1012.3 | 947.3  | 979.8  | 1023.1 | 1023.1 | 890.9  | 851.9  | 836.7  | 834.5  |
| 45°   | 4036.1 | 1784.0 | 949.4  | 912.6  | 951.6  | 962.4  | 927.7  | 834.5  | 806.4  | 802.0  | 804.2  |
| 47.5° | 4235.5 | 1712.4 | 884.4  | 871.4  | 899.6  | 901.7  | 810.7  | 789.0  | 765.2  | 758.7  | 754.3  |
| 50°   | 4205.2 | 1584.5 | 799.9  | 817.2  | 856.2  | 834.5  | 739.2  | 743.5  | 721.8  | 719.7  | 708.8  |
| 52.5° | 3992.8 | 1382.9 | 715.3  | 756.5  | 799.9  | 737.0  | 680.6  | 676.3  | 676.3  | 648.1  | 637.3  |
| 55°   | 3539.7 | 1114.2 | 613.4  | 665.5  | 717.5  | 619.9  | 604.8  | 600.4  | 589.6  | 563.6  | 557.1  |
| 57.5° | 2802.7 | 817.2  | 461.7  | 518.1  | 609.1  | 526.7  | 524.6  | 505.1  | 476.9  | 457.4  | 457.4  |
| 60°   | 1666.9 | 470.4  | 290.5  | 316.5  | 403.2  | 427.0  | 474.7  | 466.0  | 418.4  | 388.0  | 379.3  |
| 62.5° | 760.8  | 242.8  | 184.2  | 188.6  | 216.8  | 277.5  | 372.8  | 431.4  | 364.2  | 312.1  | 307.8  |
| 65°   | 255.8  | 179.9  | 151.7  | 145.2  | 149.6  | 166.9  | 223.3  | 305.6  | 290.5  | 240.6  | 231.9  |
| 67.5° | 156.1  | 160.4  | 143.1  | 132.2  | 132.2  | 130.1  | 127.9  | 138.7  | 171.2  | 166.9  | 169.1  |
| 70°   | 134.4  | 147.4  | 132.2  | 119.2  | 114.9  | 108.4  | 91.0   | 75.9   | 65.0   | 75.9   | 80.2   |
| 72.5° | 108.4  | 117.1  | 112.7  | 101.9  | 91.0   | 82.4   | 65.0   | 49.9   | 36.8   | 32.5   | 32.5   |
| 75°   | 80.2   | 86.7   | 91.0   | 78.0   | 69.4   | 58.5   | 47.7   | 32.5   | 19.5   | 13.0   | 13.0   |
| 77.5° | 58.5   | 65.0   | 67.2   | 60.7   | 52.0   | 41.2   | 30.3   | 21.7   | 10.8   | 4.3    | 4.3    |
| 80°   | 49.9   | 58.5   | 65.0   | 60.7   | 54.2   | 39.0   | 28.2   | 15.2   | 8.7    | 2.2    | 2.2    |
| 82.5° | 47.7   | 58.5   | 65.0   | 58.5   | 52.0   | 36.8   | 28.2   | 17.3   | 6.5    | 2.2    | 2.2    |
| 85°   | 10.8   | 15.2   | 19.5   | 23.8   | 28.2   | 28.2   | 21.7   | 13.0   | 6.5    | 2.2    | 2.2    |
| 87.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 2.2    | 2.2    | 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)