

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: P451719

Luminaire Tested: **GALN-SA2C-760-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10380 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

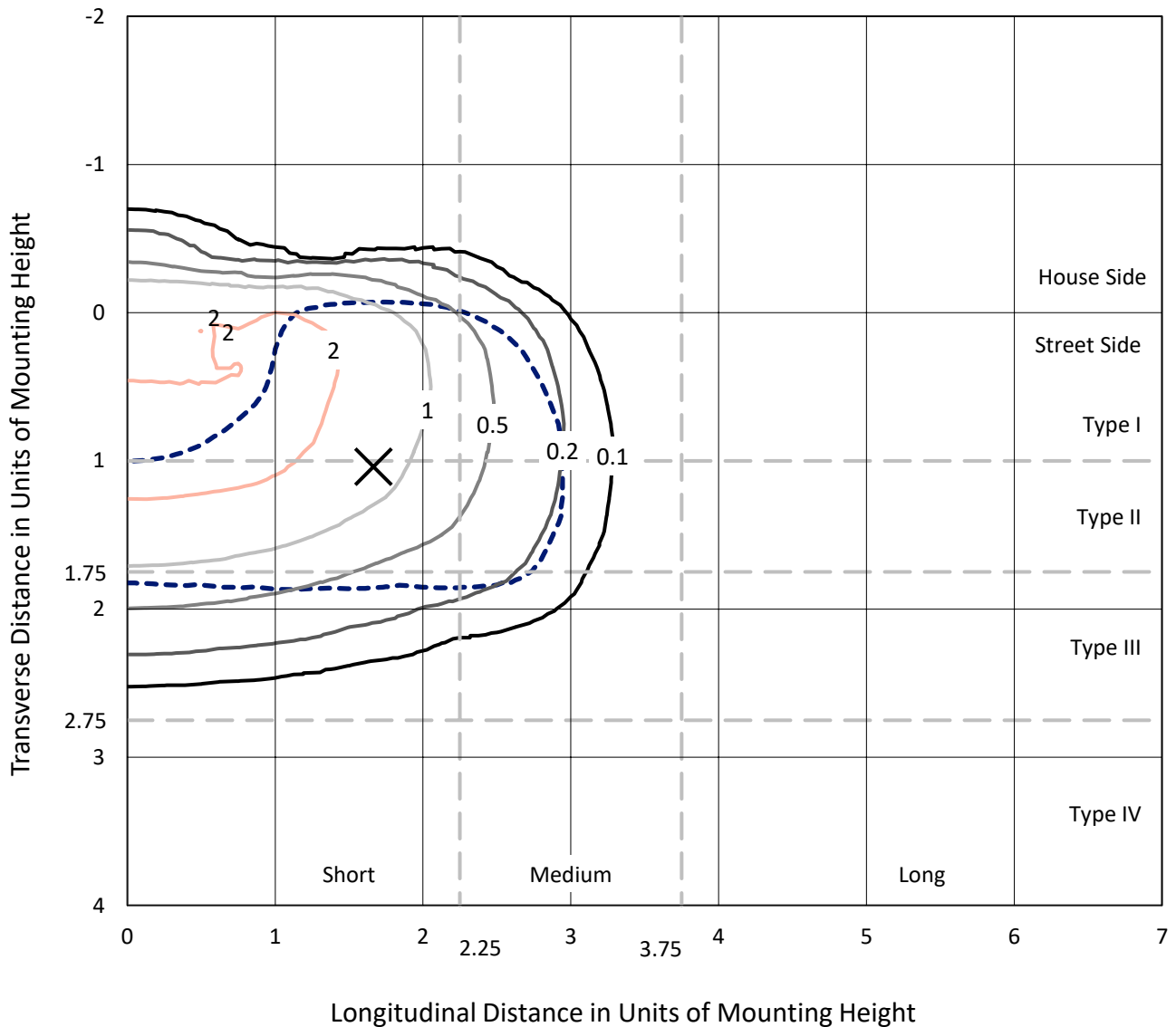
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

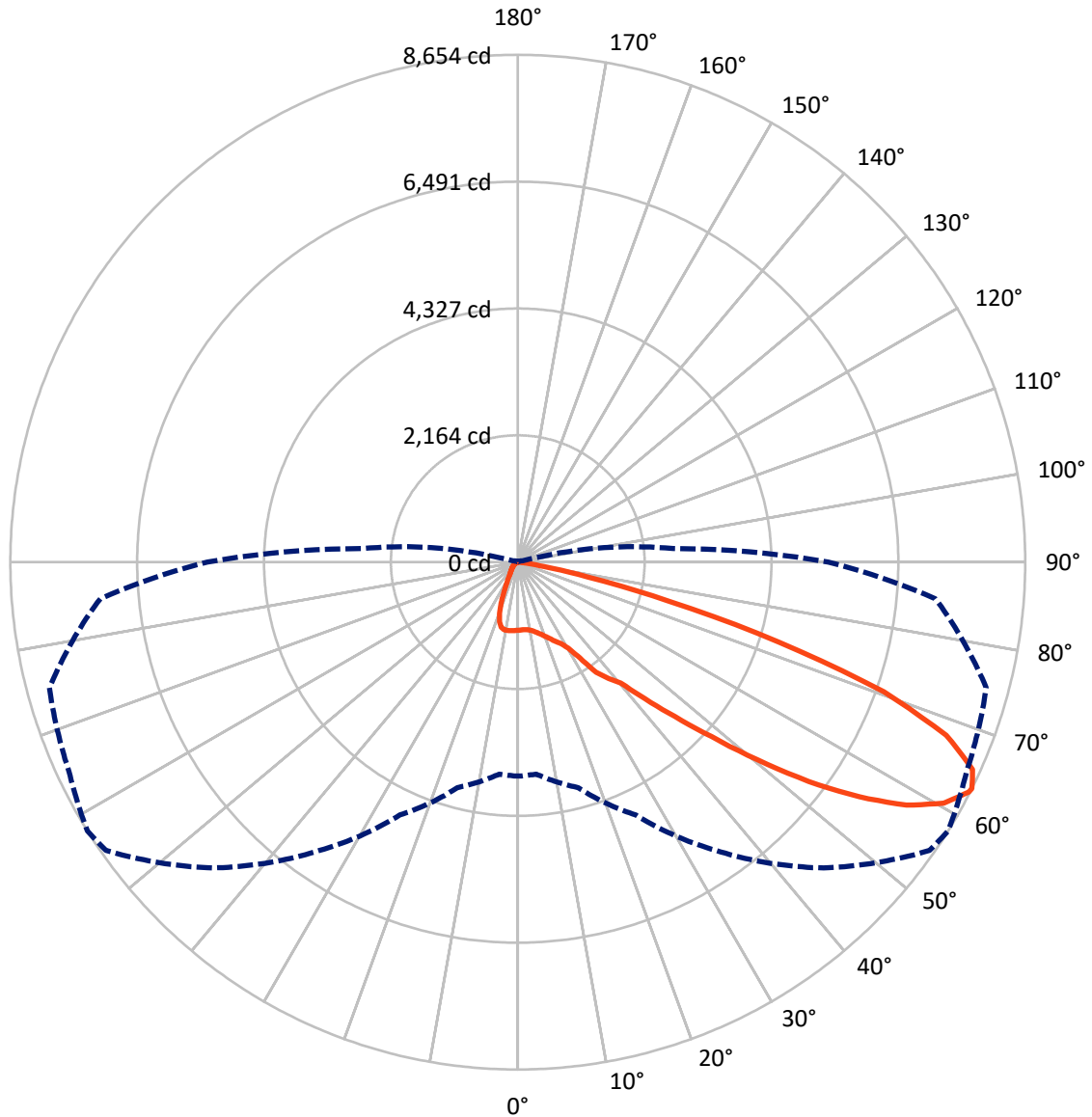
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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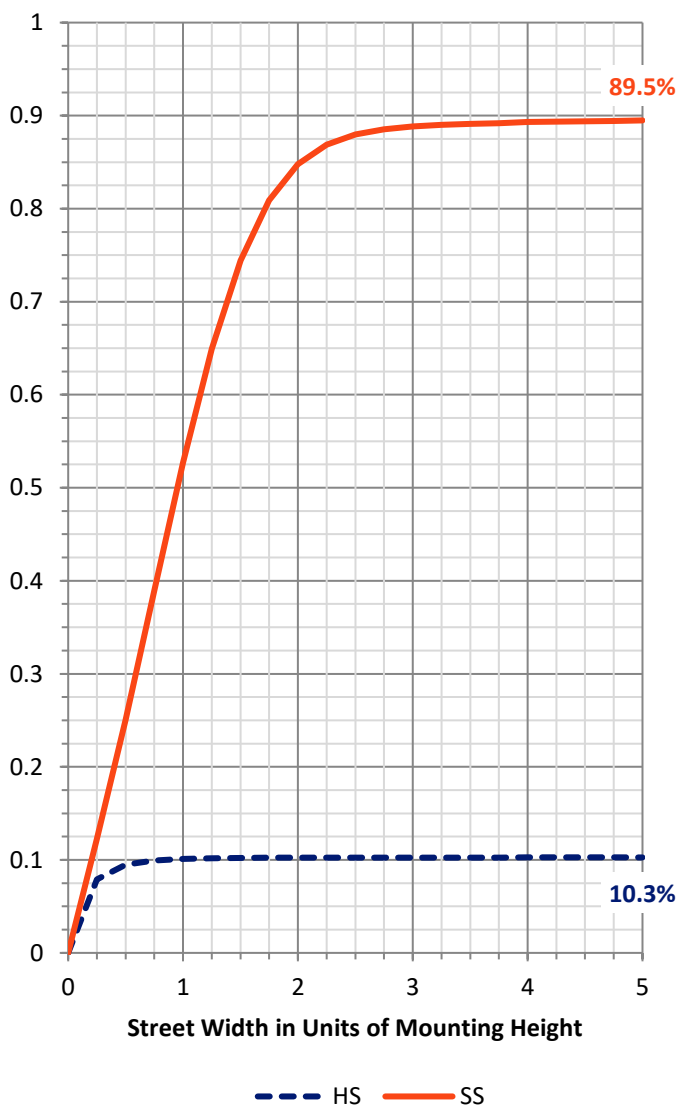
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1074.8   | 0.0    | 1074.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 9305.2   | 0.0    | 9305.2  |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 10380.0  | 0.0    | 10380.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 108.8   | 1.0       |
| 10°-20°   | 296.3   | 2.9       |
| 20°-30°   | 514.2   | 5.0       |
| 30°-40°   | 945.0   | 9.1       |
| 40°-50°   | 1778.9  | 17.1      |
| 50°-60°   | 3042.6  | 29.3      |
| 60°-70°   | 2913.3  | 28.1      |
| 70°-80°   | 742.9   | 7.2       |
| 80°-90°   | 38.0    | 0.4       |
| 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°    | 10380.0 | 100.0     |
| 0°-180°   | 10380.0 | 100.0     |

**Coefficient of Utilization**



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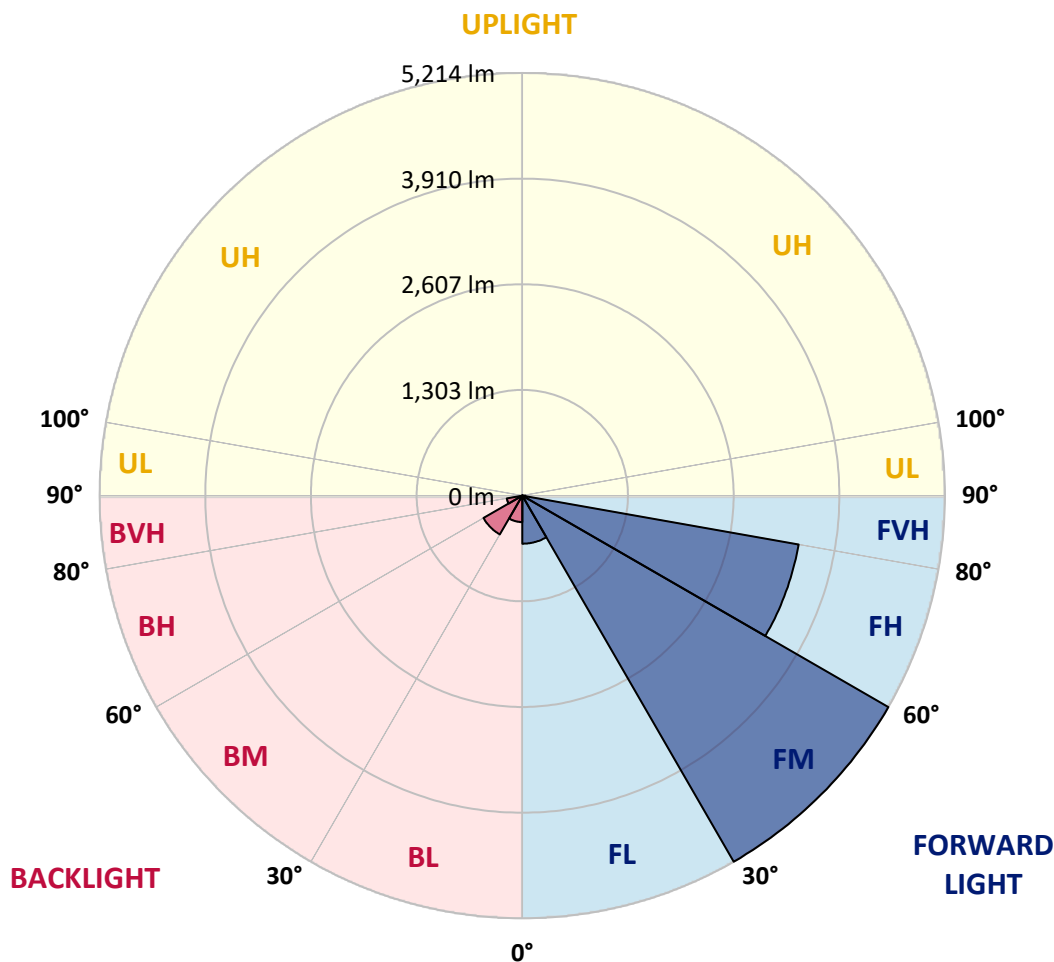
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 593.4  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 5213.7 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 3461.7 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 36.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 326.0  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 552.8  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 194.5  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.5    | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 |
| 2.5°  | 1133.2 | 1137.1 | 1141.0 | 1142.5 | 1148.0 | 1153.5 | 1157.4 | 1156.6 | 1162.9 | 1166.0 | 1166.0 |
| 5°    | 1087.8 | 1087.8 | 1098.0 | 1107.4 | 1123.0 | 1138.6 | 1153.5 | 1156.6 | 1168.3 | 1179.3 | 1183.2 |
| 7.5°  | 1049.5 | 1051.9 | 1059.7 | 1076.9 | 1098.0 | 1125.4 | 1155.0 | 1162.1 | 1182.4 | 1206.6 | 1216.8 |
| 10°   | 1031.6 | 1033.1 | 1043.3 | 1061.3 | 1087.8 | 1125.4 | 1166.8 | 1180.1 | 1211.3 | 1249.6 | 1263.7 |
| 12.5° | 1027.7 | 1030.0 | 1040.2 | 1060.5 | 1091.0 | 1136.3 | 1192.6 | 1206.6 | 1252.0 | 1301.2 | 1322.3 |
| 15°   | 1034.7 | 1036.3 | 1046.4 | 1068.3 | 1101.9 | 1155.8 | 1226.9 | 1246.5 | 1300.4 | 1357.5 | 1384.8 |
| 17.5° | 1059.7 | 1058.1 | 1065.2 | 1083.2 | 1120.7 | 1180.1 | 1268.4 | 1291.8 | 1355.1 | 1433.3 | 1451.2 |
| 20°   | 1166.0 | 1155.8 | 1149.6 | 1133.9 | 1148.8 | 1214.4 | 1318.4 | 1352.8 | 1430.9 | 1510.6 | 1523.1 |
| 22.5° | 1395.0 | 1372.3 | 1327.8 | 1266.8 | 1219.9 | 1261.3 | 1378.6 | 1418.4 | 1519.2 | 1597.4 | 1597.4 |
| 25°   | 1686.5 | 1657.5 | 1613.0 | 1480.1 | 1365.3 | 1338.7 | 1446.5 | 1496.6 | 1615.3 | 1694.3 | 1668.5 |
| 27.5° | 2051.4 | 2028.8 | 1942.0 | 1787.3 | 1611.4 | 1473.9 | 1525.5 | 1571.6 | 1700.5 | 1795.9 | 1741.9 |
| 30°   | 2348.4 | 2337.4 | 2266.3 | 2128.0 | 1934.2 | 1733.4 | 1672.4 | 1702.9 | 1813.8 | 1924.0 | 1868.6 |
| 32.5° | 2599.2 | 2599.2 | 2526.6 | 2397.6 | 2216.3 | 2038.1 | 1921.7 | 1943.6 | 2049.9 | 2177.2 | 2074.1 |
| 35°   | 2875.1 | 2865.7 | 2807.1 | 2684.4 | 2481.2 | 2324.2 | 2276.5 | 2306.2 | 2402.3 | 2496.9 | 2242.9 |
| 37.5° | 3165.0 | 3161.9 | 3101.0 | 2982.2 | 2816.5 | 2618.8 | 2507.0 | 2514.8 | 2564.1 | 2621.9 | 2440.6 |
| 40°   | 3480.0 | 3484.7 | 3405.0 | 3331.5 | 3175.2 | 2972.8 | 2758.7 | 2709.4 | 2755.5 | 2918.9 | 2805.6 |
| 42.5° | 3852.0 | 3841.0 | 3806.7 | 3706.6 | 3580.8 | 3459.7 | 3202.6 | 3184.6 | 3225.2 | 3400.3 | 3277.6 |
| 45°   | 4284.1 | 4299.8 | 4240.4 | 4184.9 | 4100.5 | 3999.7 | 3784.8 | 3753.5 | 3798.1 | 4070.0 | 3895.7 |
| 47.5° | 4717.1 | 4702.2 | 4740.5 | 4730.4 | 4775.7 | 4700.7 | 4510.8 | 4446.7 | 4553.8 | 4811.7 | 4555.3 |
| 50°   | 5046.9 | 5063.3 | 5143.0 | 5259.5 | 5454.0 | 5496.2 | 5314.2 | 5292.3 | 5339.9 | 5505.6 | 5145.4 |
| 52.5° | 5261.0 | 5315.7 | 5440.8 | 5740.1 | 6091.0 | 6363.7 | 6225.4 | 6213.7 | 6194.1 | 6238.7 | 5709.6 |
| 55°   | 5400.9 | 5456.4 | 5619.7 | 6060.5 | 6664.6 | 7107.7 | 7114.7 | 7064.7 | 6935.8 | 6903.7 | 6237.1 |
| 57.5° | 5314.9 | 5325.9 | 5558.8 | 6148.0 | 6982.6 | 7638.3 | 7868.1 | 7818.1 | 7579.7 | 7458.6 | 6702.9 |
| 60°   | 4777.3 | 4799.9 | 5124.3 | 5816.7 | 6844.3 | 7811.8 | 8367.5 | 8344.8 | 8083.8 | 7947.0 | 7065.5 |
| 62.5° | 3824.6 | 3890.3 | 4224.0 | 4996.1 | 6201.2 | 7519.5 | 8569.9 | 8633.9 | 8430.8 | 8242.4 | 7179.6 |
| 63°   | 3649.6 | 3628.5 | 3980.9 | 4757.0 | 6030.8 | 7375.0 | 8573.0 | 8654.3 | 8446.4 | 8270.5 | 7148.3 |
| 65°   | 2701.6 | 2764.9 | 2993.9 | 3751.2 | 5018.8 | 6702.1 | 8380.0 | 8523.8 | 8388.6 | 8146.3 | 6802.1 |
| 67.5° | 1516.9 | 1513.8 | 1767.0 | 2454.7 | 3512.8 | 5257.1 | 7577.4 | 7881.4 | 7853.2 | 7310.1 | 5638.5 |
| 70°   | 742.4  | 754.1  | 858.1  | 1272.3 | 2037.4 | 3626.9 | 6296.5 | 6624.7 | 6634.9 | 5741.6 | 3898.9 |
| 72.5° | 336.0  | 341.5  | 415.8  | 619.7  | 1047.2 | 1931.1 | 4338.9 | 4652.2 | 4594.4 | 3659.0 | 2153.0 |
| 75°   | 177.4  | 189.1  | 229.0  | 311.8  | 504.8  | 796.3  | 2360.1 | 2663.3 | 2542.2 | 1671.6 | 792.4  |
| 77.5° | 131.3  | 135.2  | 155.5  | 198.5  | 270.4  | 310.3  | 1018.3 | 1211.3 | 1134.7 | 604.9  | 262.6  |
| 80°   | 96.1   | 99.2   | 115.7  | 140.7  | 170.4  | 157.9  | 383.7  | 440.0  | 394.7  | 205.5  | 80.5   |
| 82.5° | 58.6   | 59.4   | 84.4   | 104.7  | 107.1  | 88.3   | 126.6  | 136.0  | 142.2  | 115.7  | 43.8   |
| 85°   | 21.1   | 26.6   | 57.0   | 75.8   | 63.3   | 44.5   | 53.1   | 58.6   | 64.1   | 73.5   | 25.8   |
| 87.5° | 2.3    | 3.1    | 27.4   | 36.7   | 18.0   | 16.4   | 19.5   | 21.9   | 23.4   | 27.4   | 12.5   |
| 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°    | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 | 1162.1 |
| 2.5°  | 1169.1 | 1172.2 | 1169.9 | 1166.0 | 1165.2 | 1162.9 | 1158.2 | 1158.2 | 1158.2 | 1159.7 | 1158.2 |
| 5°    | 1186.3 | 1188.7 | 1183.2 | 1175.4 | 1166.8 | 1155.8 | 1144.1 | 1137.1 | 1136.3 | 1134.7 | 1130.8 |
| 7.5°  | 1219.1 | 1222.3 | 1209.8 | 1191.0 | 1167.6 | 1141.0 | 1116.0 | 1092.5 | 1081.6 | 1073.0 | 1073.0 |
| 10°   | 1266.8 | 1269.9 | 1244.9 | 1211.3 | 1164.4 | 1110.5 | 1051.1 | 997.2  | 955.0  | 935.4  | 930.8  |
| 12.5° | 1323.9 | 1325.4 | 1284.0 | 1225.4 | 1148.0 | 1044.1 | 917.5  | 799.5  | 717.4  | 679.9  | 676.0  |
| 15°   | 1386.4 | 1375.4 | 1320.7 | 1230.9 | 1101.1 | 907.3  | 688.5  | 543.9  | 458.7  | 433.7  | 443.1  |
| 17.5° | 1449.7 | 1429.4 | 1348.9 | 1222.3 | 995.6  | 688.5  | 462.6  | 371.2  | 344.6  | 337.6  | 337.6  |
| 20°   | 1509.1 | 1480.9 | 1369.2 | 1184.7 | 812.8  | 474.4  | 343.1  | 321.2  | 316.5  | 311.8  | 312.6  |
| 22.5° | 1568.5 | 1525.5 | 1387.2 | 1101.1 | 605.7  | 339.2  | 307.1  | 300.1  | 293.8  | 287.6  | 286.8  |
| 25°   | 1626.3 | 1566.9 | 1394.2 | 946.4  | 412.6  | 291.5  | 280.6  | 271.2  | 258.7  | 251.6  | 250.1  |
| 27.5° | 1686.5 | 1616.9 | 1389.5 | 751.0  | 300.9  | 261.0  | 250.1  | 236.8  | 221.9  | 209.4  | 209.4  |
| 30°   | 1802.1 | 1712.3 | 1373.1 | 540.0  | 253.2  | 229.8  | 215.7  | 194.6  | 178.2  | 165.7  | 164.9  |
| 32.5° | 1960.0 | 1836.5 | 1316.8 | 379.8  | 225.1  | 202.4  | 181.3  | 157.9  | 140.7  | 131.3  | 131.3  |
| 35°   | 2100.7 | 1961.5 | 1211.3 | 279.8  | 202.4  | 175.8  | 150.0  | 127.4  | 114.1  | 107.8  | 105.5  |
| 37.5° | 2314.8 | 2144.4 | 1066.0 | 227.4  | 180.5  | 152.4  | 125.8  | 104.7  | 93.8   | 89.1   | 89.1   |
| 40°   | 2636.0 | 2367.9 | 887.8  | 199.3  | 159.4  | 129.7  | 104.7  | 88.3   | 79.7   | 74.2   | 74.2   |
| 42.5° | 3034.5 | 2641.4 | 707.3  | 179.0  | 139.9  | 111.8  | 87.5   | 75.0   | 67.2   | 63.3   | 62.5   |
| 45°   | 3536.3 | 2929.8 | 544.7  | 160.2  | 124.3  | 95.3   | 74.2   | 63.3   | 55.5   | 53.1   | 53.9   |
| 47.5° | 4059.9 | 3183.8 | 422.0  | 143.8  | 107.8  | 80.5   | 63.3   | 54.7   | 49.2   | 46.1   | 46.1   |
| 50°   | 4506.9 | 3358.9 | 320.4  | 125.0  | 95.3   | 68.0   | 55.5   | 49.2   | 44.5   | 43.0   | 42.2   |
| 52.5° | 4880.4 | 3409.7 | 245.4  | 108.6  | 83.6   | 58.6   | 49.2   | 44.5   | 40.6   | 38.3   | 38.3   |
| 55°   | 5198.5 | 3365.1 | 192.2  | 91.4   | 70.3   | 50.8   | 43.8   | 39.9   | 35.2   | 32.8   | 32.0   |
| 57.5° | 5384.5 | 3222.1 | 146.9  | 75.8   | 57.0   | 42.2   | 38.3   | 33.6   | 28.1   | 24.2   | 24.2   |
| 60°   | 5478.3 | 3014.2 | 112.5  | 62.5   | 43.8   | 33.6   | 31.3   | 25.0   | 19.5   | 16.4   | 15.6   |
| 62.5° | 5365.7 | 2738.4 | 85.2   | 49.2   | 32.8   | 25.0   | 21.1   | 18.0   | 12.5   | 9.4    | 9.4    |
| 63°   | 5296.2 | 2658.6 | 82.1   | 46.9   | 30.5   | 23.4   | 19.5   | 16.4   | 10.9   | 8.6    | 7.8    |
| 65°   | 4828.1 | 2310.9 | 67.2   | 37.5   | 24.2   | 16.4   | 13.3   | 11.7   | 7.8    | 3.9    | 3.1    |
| 67.5° | 3834.0 | 1767.7 | 53.1   | 28.1   | 17.2   | 11.7   | 7.8    | 7.0    | 2.3    | 0.0    | 0.0    |
| 70°   | 2592.2 | 1141.8 | 41.4   | 20.3   | 11.7   | 7.0    | 3.9    | 3.1    | 0.8    | 0.0    | 0.0    |
| 72.5° | 1352.0 | 585.3  | 32.0   | 14.8   | 7.0    | 4.7    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    |
| 75°   | 478.3  | 199.3  | 23.4   | 9.4    | 4.7    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 144.6  | 74.2   | 14.8   | 7.0    | 3.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 50.8   | 27.4   | 8.6    | 4.7    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 25.0   | 13.3   | 5.5    | 3.9    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 14.1   | 8.6    | 4.7    | 3.9    | 2.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.2   | 6.3    | 4.7    | 3.9    | 3.1    | 1.6    | 0.8    | 0.0    | 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)