

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: STREETWORKS

Report Number: P322157

Luminaire Tested: **GAN-SA3B-727-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA 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: 10633 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 124  
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

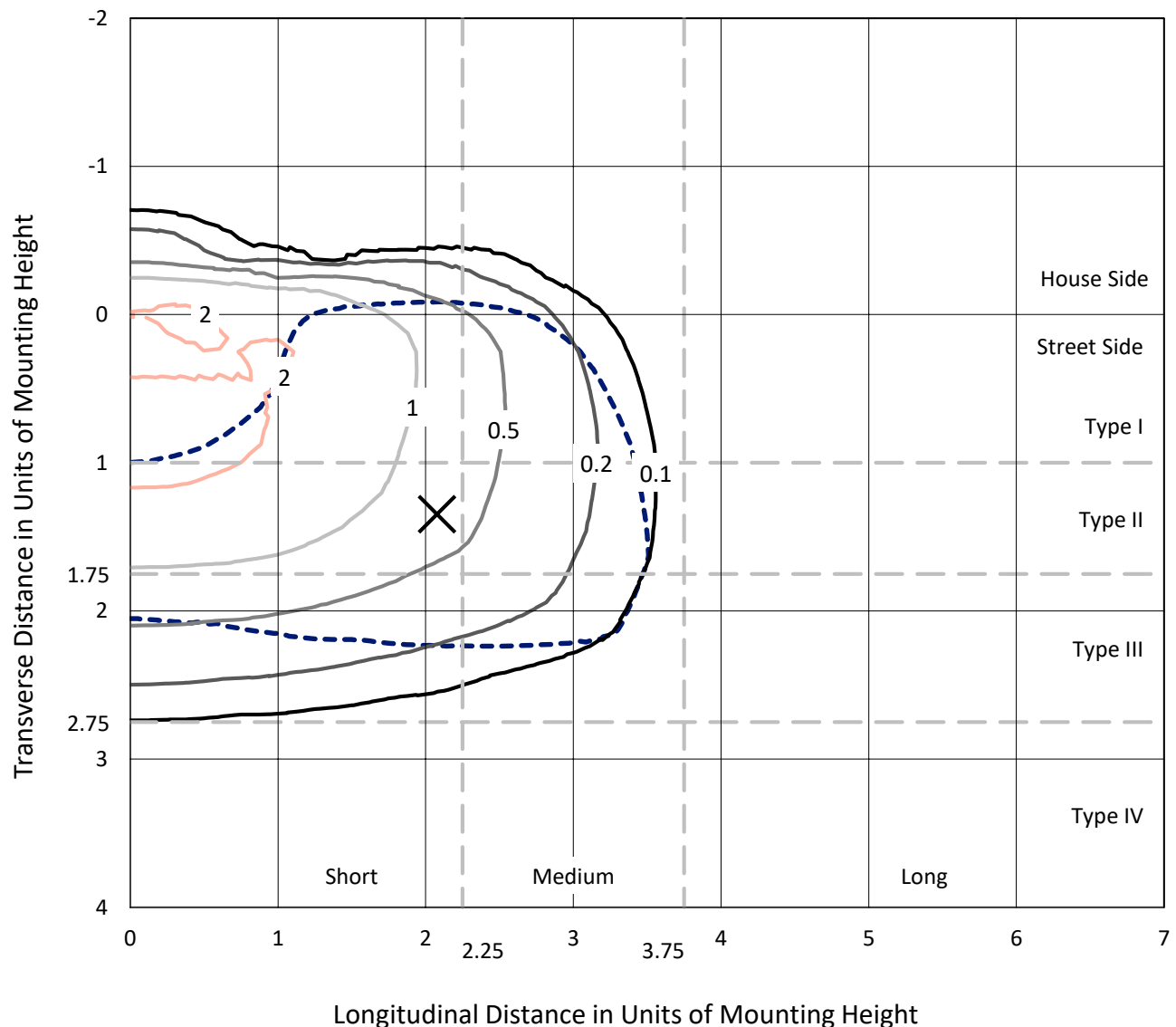


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## Iso-Footcandle Lines of Horizontal Illumination

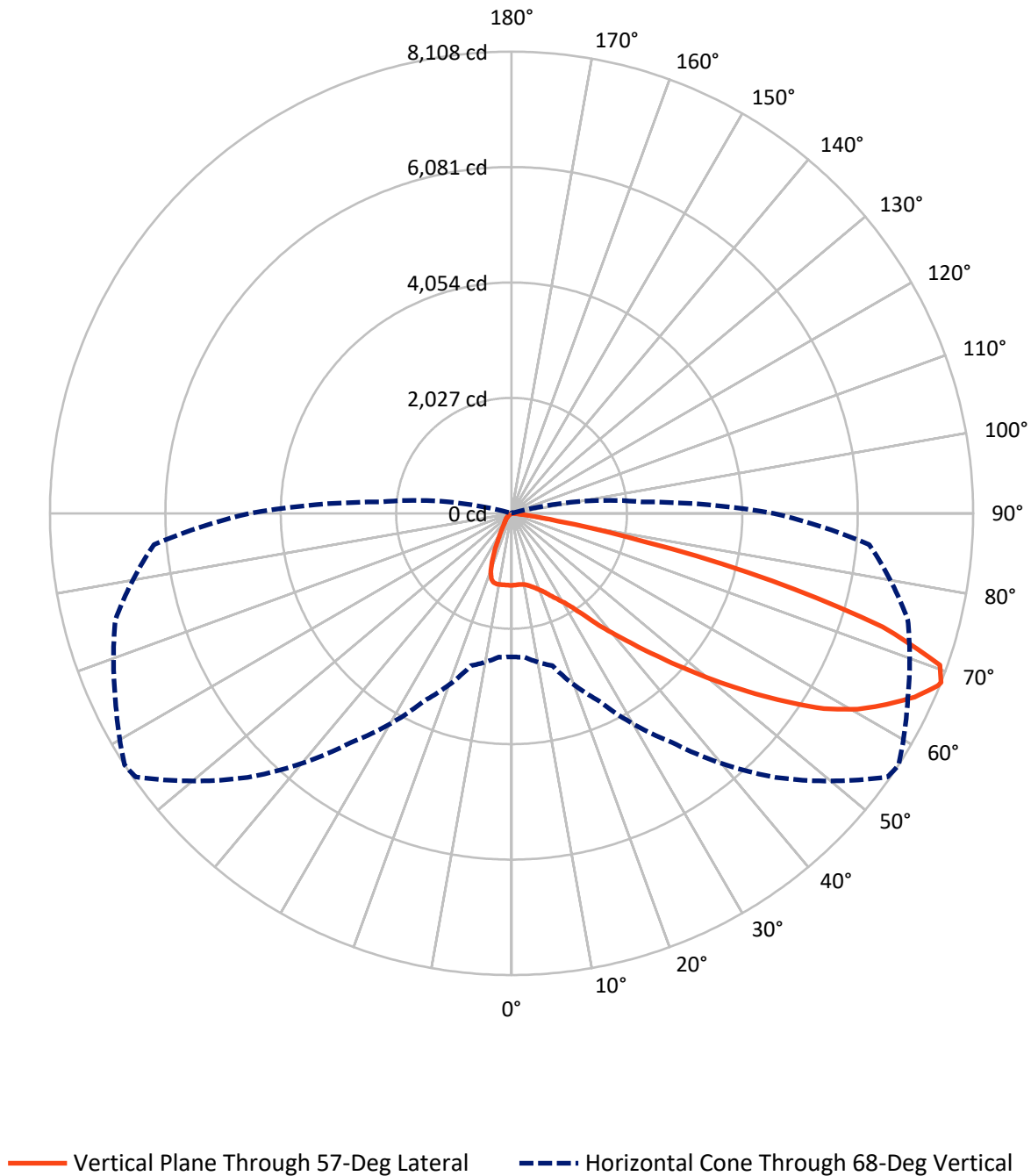
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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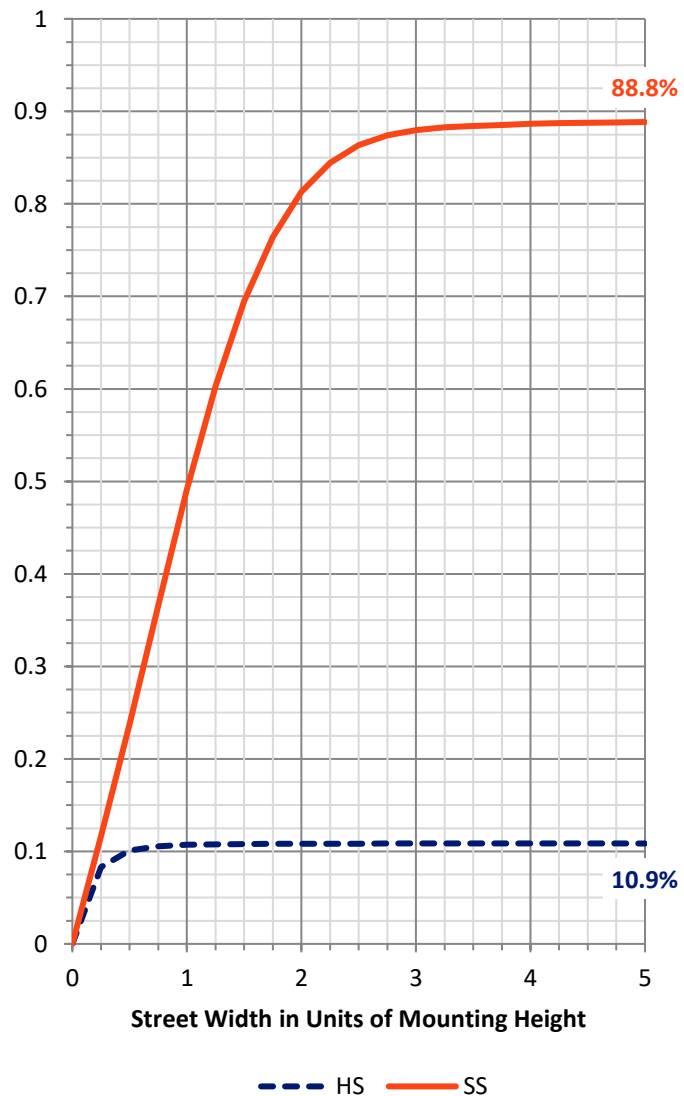
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1166.0   | 0.0    | 1166.0  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 9467.0   | 0.0    | 9467.0  |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 10633.0  | 0.0    | 10633.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 118.2   | 1.1       |
| 10°-20°   | 327.7   | 3.1       |
| 20°-30°   | 565.2   | 5.3       |
| 30°-40°   | 975.6   | 9.2       |
| 40°-50°   | 1668.8  | 15.7      |
| 50°-60°   | 2669.9  | 25.1      |
| 60°-70°   | 3084.7  | 29.0      |
| 70°-80°   | 1178.7  | 11.1      |
| 80°-90°   | 44.2    | 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°    | 10633.0 | 100.0     |
| 0°-180°   | 10633.0 | 100.0     |

**Coefficient of Utilization**



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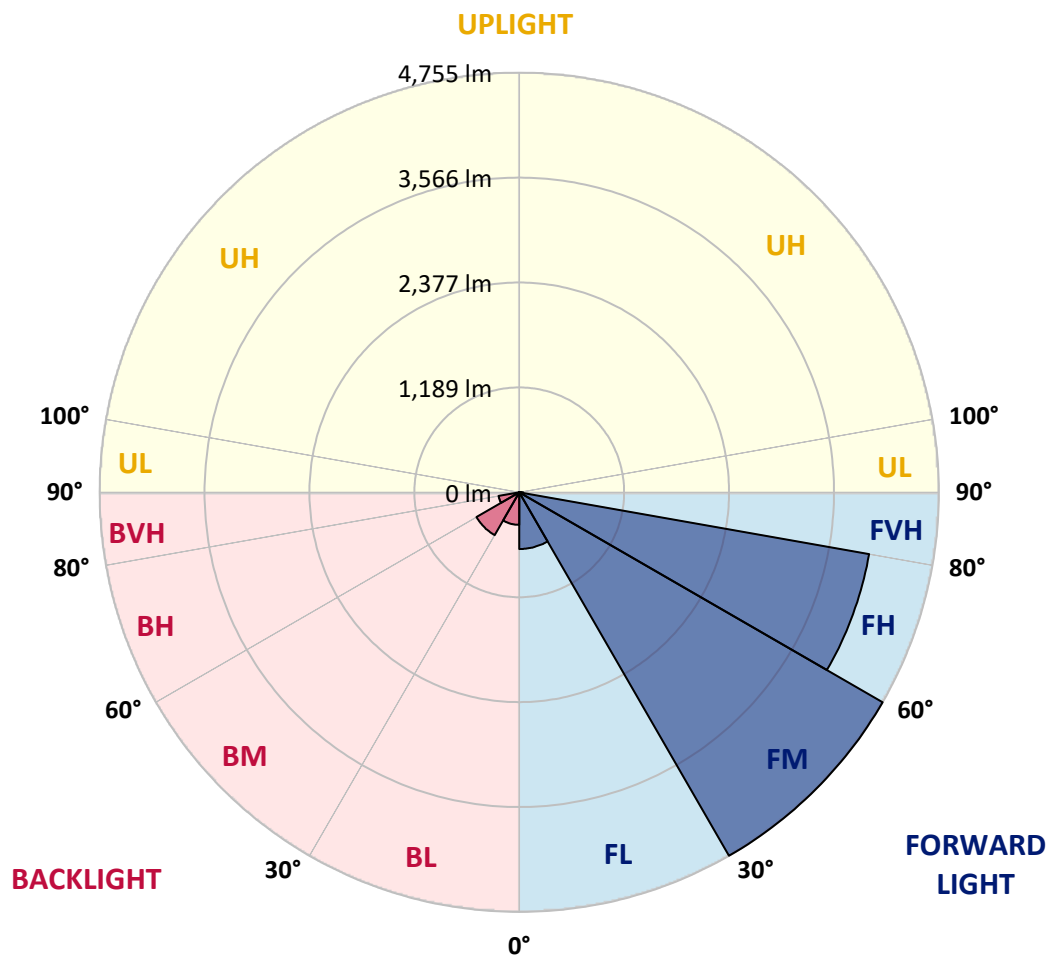
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 642.7  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 4755.0 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 4026.0 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 368.5  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 559.2  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 237.5  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.8    | 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°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 |
| 2.5°  | 1233.8 | 1239.3 | 1243.4 | 1245.9 | 1248.9 | 1255.4 | 1257.4 | 1260.5 | 1262.0 | 1262.0 | 1265.5 |
| 5°    | 1185.0 | 1191.1 | 1199.6 | 1206.7 | 1220.7 | 1238.8 | 1251.9 | 1256.9 | 1266.0 | 1274.0 | 1278.6 |
| 7.5°  | 1139.8 | 1146.8 | 1156.9 | 1173.5 | 1197.6 | 1226.8 | 1253.9 | 1261.0 | 1278.6 | 1295.7 | 1304.2 |
| 10°   | 1110.6 | 1116.2 | 1129.2 | 1152.9 | 1184.5 | 1225.3 | 1263.5 | 1272.0 | 1302.2 | 1330.9 | 1346.9 |
| 12.5° | 1100.6 | 1105.6 | 1119.2 | 1145.8 | 1185.0 | 1232.8 | 1285.6 | 1298.2 | 1342.4 | 1384.1 | 1406.8 |
| 15°   | 1115.2 | 1116.2 | 1130.7 | 1155.9 | 1194.6 | 1251.4 | 1322.3 | 1337.4 | 1393.2 | 1447.5 | 1475.7 |
| 17.5° | 1171.5 | 1166.9 | 1174.5 | 1185.6 | 1216.2 | 1276.1 | 1361.0 | 1383.6 | 1458.1 | 1521.9 | 1548.6 |
| 20°   | 1312.3 | 1312.3 | 1295.2 | 1265.0 | 1265.5 | 1314.3 | 1413.3 | 1439.0 | 1530.0 | 1603.9 | 1628.0 |
| 22.5° | 1553.1 | 1548.6 | 1514.4 | 1440.5 | 1372.6 | 1380.1 | 1477.2 | 1510.3 | 1616.4 | 1695.4 | 1703.4 |
| 25°   | 1842.7 | 1837.2 | 1784.4 | 1680.3 | 1562.6 | 1486.7 | 1563.6 | 1601.9 | 1719.5 | 1789.4 | 1772.8 |
| 27.5° | 2149.4 | 2144.9 | 2092.6 | 1963.3 | 1795.9 | 1656.7 | 1666.7 | 1702.9 | 1824.6 | 1893.5 | 1840.7 |
| 30°   | 2446.5 | 2448.0 | 2396.2 | 2263.5 | 2074.0 | 1873.4 | 1797.4 | 1818.5 | 1926.6 | 1996.5 | 1921.1 |
| 32.5° | 2729.1 | 2731.1 | 2686.3 | 2538.0 | 2361.0 | 2125.2 | 1978.4 | 1972.9 | 2045.3 | 2114.2 | 2027.7 |
| 35°   | 2981.0 | 2986.0 | 2955.3 | 2840.2 | 2652.7 | 2405.8 | 2213.2 | 2200.2 | 2213.7 | 2291.7 | 2191.1 |
| 37.5° | 3223.8 | 3226.8 | 3203.7 | 3106.7 | 2949.8 | 2714.0 | 2509.9 | 2491.3 | 2462.1 | 2521.9 | 2406.8 |
| 40°   | 3489.8 | 3482.2 | 3455.6 | 3367.6 | 3232.9 | 3054.4 | 2828.6 | 2796.5 | 2745.7 | 2799.0 | 2690.4 |
| 42.5° | 3737.1 | 3728.6 | 3733.1 | 3633.6 | 3519.9 | 3404.3 | 3200.2 | 3144.9 | 3115.2 | 3176.6 | 3038.3 |
| 45°   | 4046.4 | 4041.8 | 4056.9 | 3970.4 | 3878.4 | 3794.5 | 3626.0 | 3565.7 | 3552.6 | 3624.5 | 3459.1 |
| 47.5° | 4351.5 | 4362.6 | 4409.4 | 4372.7 | 4335.5 | 4261.5 | 4077.0 | 4049.9 | 4057.9 | 4144.9 | 3903.1 |
| 50°   | 4605.9 | 4619.0 | 4747.2 | 4789.5 | 4843.3 | 4800.0 | 4615.0 | 4598.4 | 4630.1 | 4708.5 | 4380.7 |
| 52.5° | 4790.0 | 4816.6 | 4976.0 | 5170.6 | 5366.7 | 5395.8 | 5211.3 | 5196.2 | 5238.9 | 5251.0 | 4749.7 |
| 55°   | 4917.7 | 4941.3 | 5121.8 | 5477.8 | 5877.0 | 6002.7 | 5888.0 | 5829.7 | 5821.7 | 5702.5 | 5137.9 |
| 57.5° | 4940.3 | 4937.8 | 5197.2 | 5676.4 | 6277.2 | 6601.5 | 6529.1 | 6471.8 | 6306.8 | 6119.8 | 5582.8 |
| 60°   | 4812.6 | 4827.2 | 5128.3 | 5745.2 | 6528.6 | 7054.5 | 7060.0 | 6985.6 | 6728.7 | 6525.6 | 6014.2 |
| 62.5° | 4419.4 | 4478.7 | 4782.9 | 5564.7 | 6525.6 | 7237.0 | 7449.2 | 7392.3 | 7085.1 | 6857.9 | 6451.6 |
| 65°   | 3781.9 | 3803.0 | 4093.1 | 4946.3 | 6084.6 | 7160.6 | 7799.6 | 7778.5 | 7406.4 | 7180.7 | 6676.4 |
| 67.5° | 2761.8 | 2716.0 | 3020.7 | 3895.0 | 5151.5 | 6715.1 | 8051.0 | 8077.6 | 7654.3 | 7247.0 | 6437.1 |
| 68°   | 2520.4 | 2534.0 | 2771.3 | 3635.1 | 4907.1 | 6557.7 | 8067.6 | 8108.3 | 7678.9 | 7203.8 | 6306.3 |
| 70°   | 1502.3 | 1528.4 | 1740.1 | 2502.8 | 3733.1 | 5667.3 | 7888.6 | 7981.6 | 7532.1 | 6757.8 | 5454.6 |
| 72.5° | 383.6  | 414.8  | 614.9  | 1120.2 | 2132.3 | 3993.1 | 6659.3 | 6816.7 | 6539.6 | 5482.3 | 3682.3 |
| 75°   | 157.9  | 165.9  | 219.7  | 369.0  | 794.4  | 1798.9 | 4389.3 | 4726.1 | 4533.5 | 3282.1 | 1664.2 |
| 77.5° | 109.1  | 114.6  | 141.3  | 204.6  | 343.9  | 609.9  | 2151.9 | 2395.2 | 2157.9 | 1120.2 | 363.0  |
| 80°   | 78.4   | 83.0   | 101.1  | 136.3  | 197.6  | 217.7  | 701.4  | 811.0  | 644.1  | 245.9  | 90.0   |
| 82.5° | 46.8   | 50.3   | 75.4   | 97.0   | 120.2  | 104.1  | 174.5  | 198.1  | 186.5  | 122.2  | 40.2   |
| 85°   | 23.1   | 27.2   | 50.8   | 69.4   | 64.9   | 43.7   | 53.3   | 59.3   | 73.4   | 74.4   | 21.6   |
| 87.5° | 1.5    | 3.0    | 29.7   | 41.7   | 18.1   | 10.1   | 15.6   | 19.1   | 26.1   | 36.7   | 9.1    |
| 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°    | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 | 1263.5 |
| 2.5°  | 1267.0 | 1267.5 | 1264.0 | 1262.5 | 1263.5 | 1257.4 | 1254.9 | 1255.9 | 1255.9 | 1257.4 | 1254.9 |
| 5°    | 1279.6 | 1279.6 | 1273.5 | 1265.5 | 1261.0 | 1249.4 | 1241.9 | 1239.9 | 1238.3 | 1237.3 | 1235.3 |
| 7.5°  | 1306.7 | 1303.7 | 1293.1 | 1275.5 | 1260.5 | 1235.3 | 1216.2 | 1206.2 | 1201.1 | 1199.1 | 1197.6 |
| 10°   | 1350.5 | 1344.9 | 1327.3 | 1294.7 | 1260.0 | 1215.2 | 1173.5 | 1143.8 | 1119.2 | 1109.1 | 1103.1 |
| 12.5° | 1409.3 | 1401.2 | 1371.6 | 1317.3 | 1256.4 | 1174.0 | 1083.5 | 996.5  | 915.6  | 882.4  | 865.8  |
| 15°   | 1477.2 | 1465.6 | 1418.8 | 1336.4 | 1235.8 | 1081.0 | 884.4  | 732.0  | 619.9  | 577.7  | 559.6  |
| 17.5° | 1546.0 | 1531.0 | 1460.1 | 1348.5 | 1174.0 | 888.4  | 620.4  | 468.6  | 393.7  | 373.6  | 366.5  |
| 20°   | 1615.4 | 1593.3 | 1495.8 | 1339.4 | 1034.2 | 640.5  | 409.3  | 342.4  | 320.8  | 314.7  | 312.7  |
| 22.5° | 1681.3 | 1647.1 | 1527.9 | 1304.2 | 819.0  | 429.9  | 323.8  | 302.7  | 295.6  | 292.1  | 291.1  |
| 25°   | 1738.6 | 1690.8 | 1556.1 | 1195.6 | 579.7  | 324.8  | 291.6  | 284.6  | 275.5  | 269.0  | 269.5  |
| 27.5° | 1792.4 | 1734.6 | 1573.2 | 1016.6 | 386.6  | 277.5  | 270.0  | 260.4  | 243.8  | 234.3  | 234.3  |
| 30°   | 1857.3 | 1792.9 | 1585.8 | 782.3  | 284.6  | 245.4  | 239.3  | 224.7  | 202.1  | 189.5  | 189.5  |
| 32.5° | 1954.8 | 1881.4 | 1577.7 | 549.0  | 235.8  | 215.7  | 201.6  | 181.5  | 156.9  | 144.8  | 144.3  |
| 35°   | 2104.1 | 2018.2 | 1520.4 | 360.0  | 208.2  | 187.5  | 164.9  | 140.3  | 118.7  | 108.6  | 108.1  |
| 37.5° | 2305.2 | 2201.2 | 1391.7 | 257.4  | 186.5  | 161.4  | 134.2  | 107.1  | 91.0   | 84.5   | 84.0   |
| 40°   | 2566.2 | 2413.8 | 1207.7 | 208.7  | 166.4  | 136.3  | 103.6  | 83.0   | 71.9   | 66.9   | 67.4   |
| 42.5° | 2879.4 | 2641.6 | 987.0  | 180.0  | 146.8  | 112.1  | 80.9   | 65.4   | 58.3   | 54.8   | 53.8   |
| 45°   | 3227.3 | 2866.3 | 755.7  | 160.4  | 127.2  | 90.5   | 63.4   | 51.8   | 46.3   | 44.2   | 44.2   |
| 47.5° | 3609.9 | 3085.0 | 553.1  | 143.3  | 106.1  | 69.9   | 50.8   | 42.2   | 37.7   | 36.2   | 35.7   |
| 50°   | 3957.4 | 3236.9 | 398.7  | 125.2  | 87.0   | 55.3   | 41.2   | 35.2   | 32.2   | 30.2   | 30.2   |
| 52.5° | 4247.0 | 3284.6 | 293.6  | 105.6  | 70.4   | 44.2   | 34.2   | 30.2   | 27.2   | 25.6   | 25.6   |
| 55°   | 4501.9 | 3265.0 | 218.2  | 87.0   | 56.8   | 36.2   | 29.2   | 25.6   | 23.1   | 21.6   | 21.6   |
| 57.5° | 4746.2 | 3201.7 | 162.9  | 70.9   | 45.8   | 29.2   | 24.6   | 21.6   | 19.1   | 18.1   | 18.1   |
| 60°   | 4945.8 | 3096.1 | 121.2  | 57.3   | 36.7   | 23.6   | 20.6   | 17.6   | 15.6   | 14.1   | 14.1   |
| 62.5° | 5107.7 | 2979.5 | 89.0   | 47.3   | 29.2   | 18.6   | 16.1   | 14.6   | 11.6   | 10.1   | 10.1   |
| 65°   | 5108.7 | 2785.9 | 66.9   | 39.2   | 22.6   | 14.6   | 12.1   | 11.6   | 7.5    | 6.0    | 5.5    |
| 67.5° | 4739.2 | 2401.8 | 51.3   | 33.7   | 17.6   | 11.1   | 9.1    | 9.6    | 4.0    | 2.5    | 2.0    |
| 68°   | 4604.9 | 2304.2 | 48.3   | 33.2   | 16.6   | 10.6   | 8.5    | 9.6    | 3.5    | 2.0    | 1.5    |
| 70°   | 3882.5 | 1833.1 | 38.7   | 32.2   | 14.6   | 8.0    | 7.0    | 9.6    | 3.0    | 1.5    | 1.0    |
| 72.5° | 2483.2 | 1063.9 | 28.7   | 25.6   | 11.1   | 6.0    | 4.5    | 8.5    | 3.0    | 1.0    | 0.5    |
| 75°   | 1056.8 | 329.8  | 19.6   | 18.1   | 6.5    | 4.5    | 3.0    | 5.5    | 2.0    | 0.5    | 0.0    |
| 77.5° | 222.7  | 74.4   | 11.6   | 11.1   | 4.5    | 3.0    | 2.0    | 1.5    | 0.5    | 0.0    | 0.0    |
| 80°   | 57.3   | 21.6   | 6.0    | 5.5    | 2.5    | 1.5    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 18.1   | 8.5    | 3.5    | 2.5    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.1    | 5.0    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.0    | 1.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 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)