

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: P382982

Luminaire Tested: **GAN-SA3B-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382982  
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-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 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: 11843.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

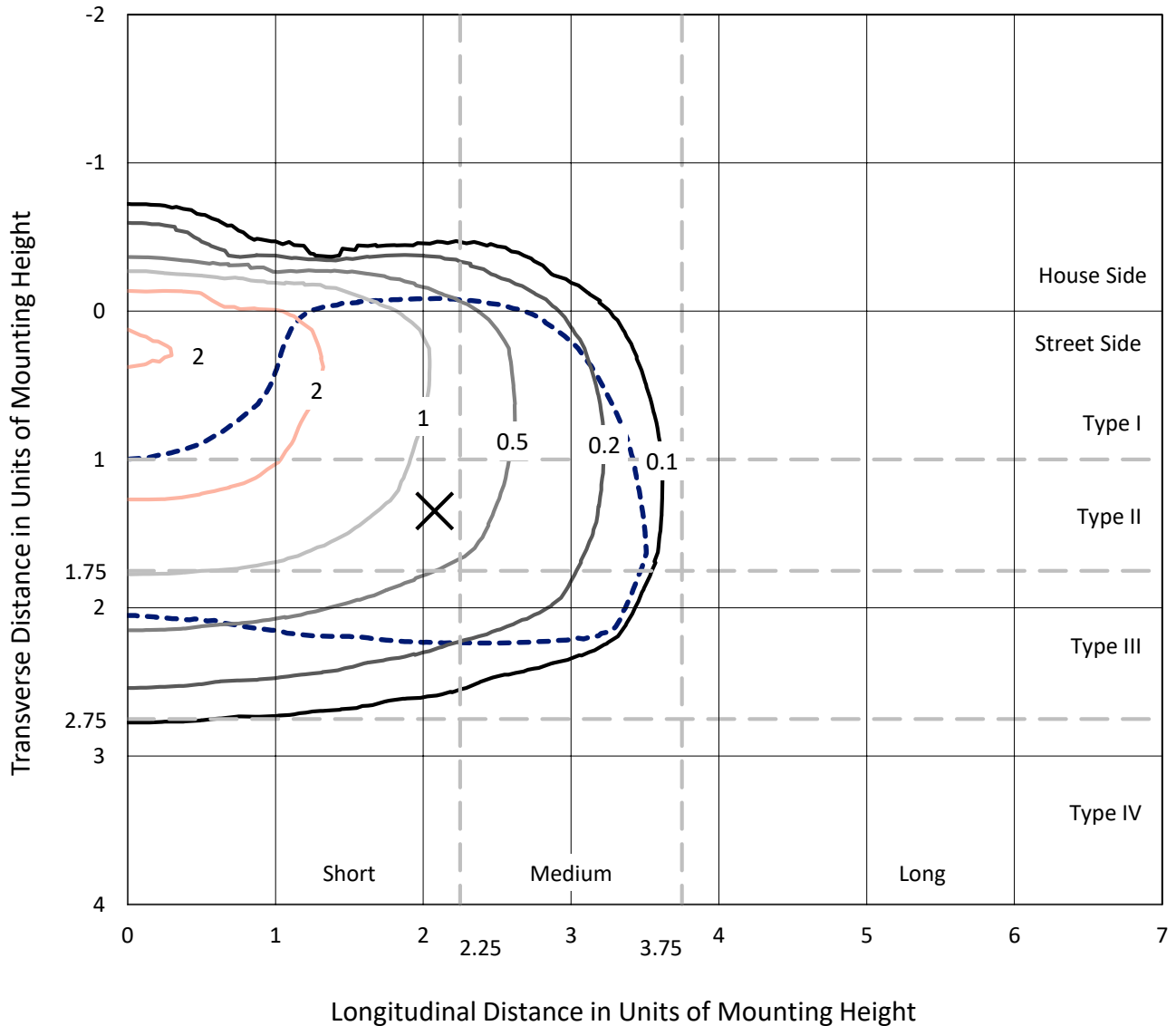
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

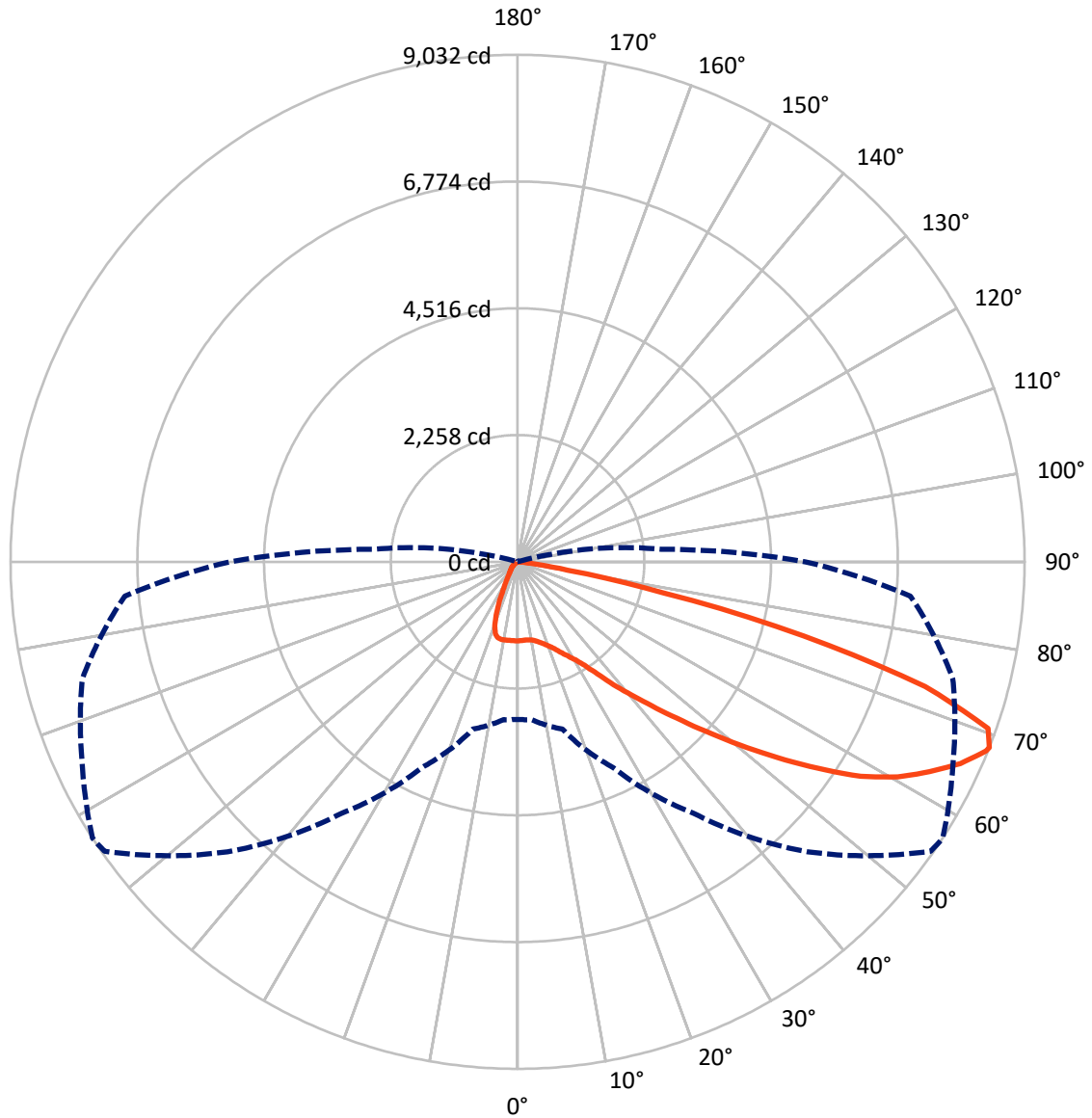
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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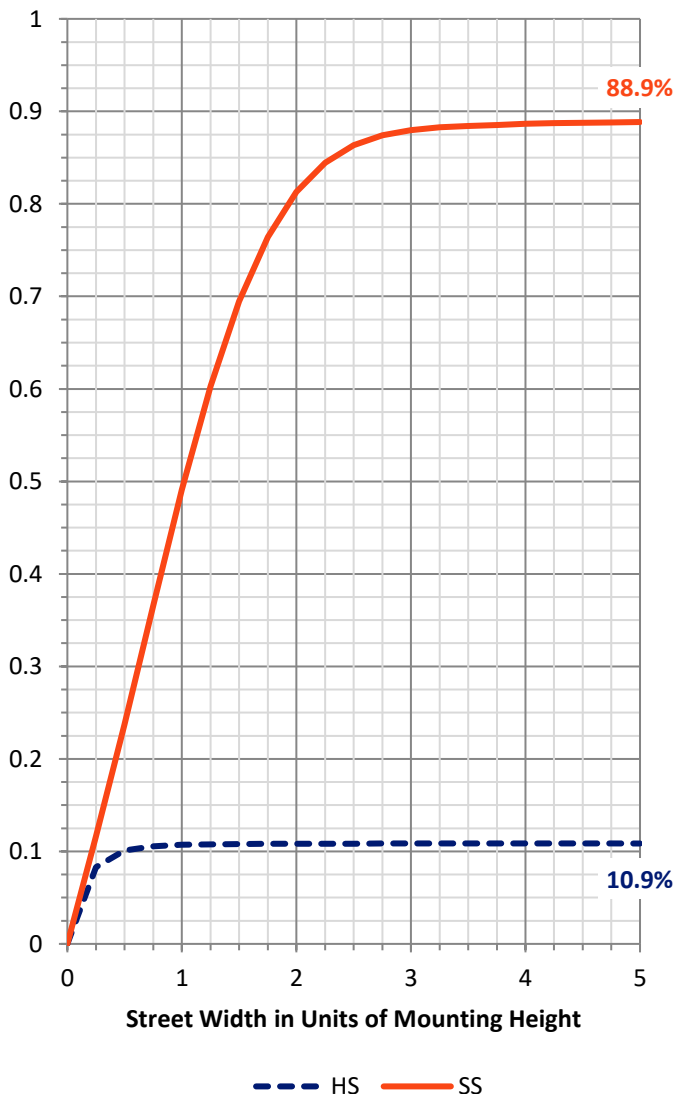
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1298.7   | 0.0    | 1298.7  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 10545.0  | 0.0    | 10545.0 |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 11843.7  | 0.0    | 11843.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 131.7   | 1.1       |
| 10°-20°   | 365.0   | 3.1       |
| 20°-30°   | 629.6   | 5.3       |
| 30°-40°   | 1086.7  | 9.2       |
| 40°-50°   | 1858.8  | 15.7      |
| 50°-60°   | 2973.9  | 25.1      |
| 60°-70°   | 3436.0  | 29.0      |
| 70°-80°   | 1312.9  | 11.1      |
| 80°-90°   | 49.2    | 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°    | 11843.7 | 100.0     |
| 0°-180°   | 11843.7 | 100.0     |

**Coefficient of Utilization**



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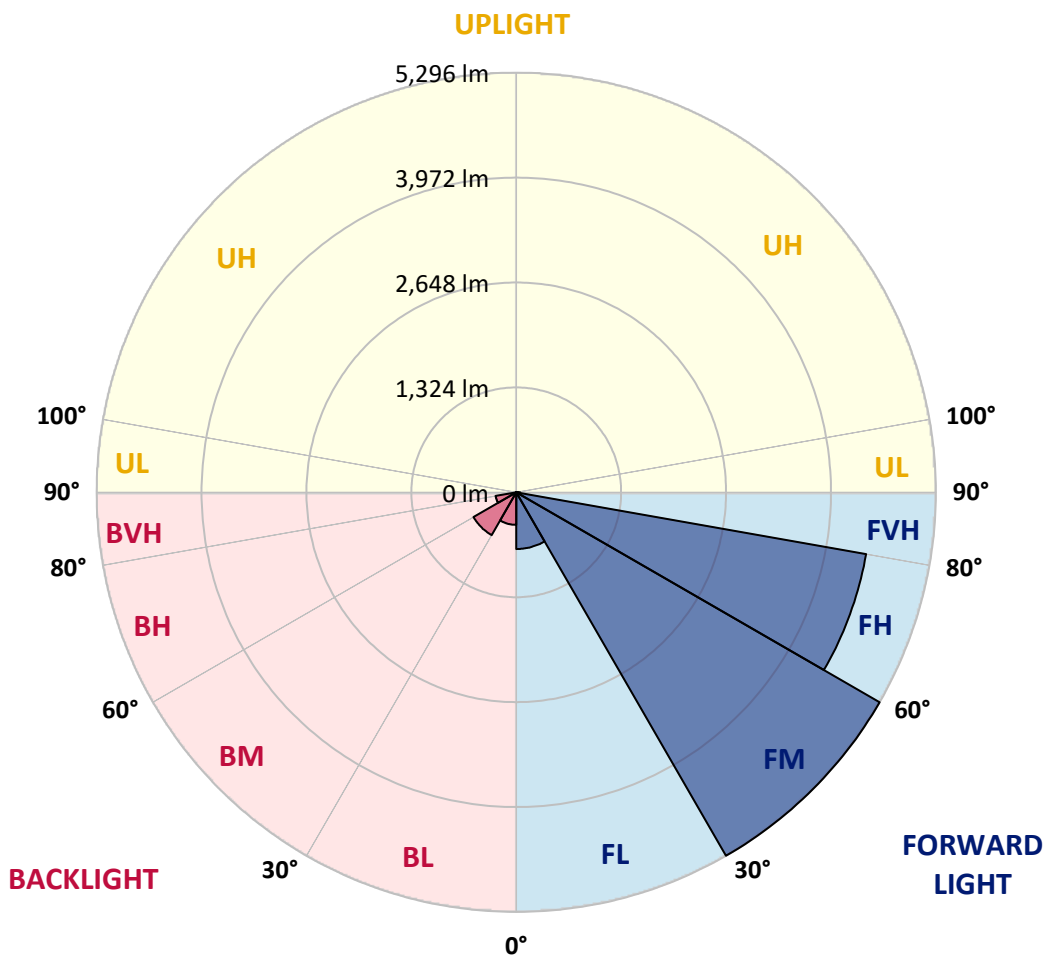
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 715.8  | 6.0       |                         |      |         |
| FM (30°-60°)   | 5296.4 | 44.7      |                         |      |         |
| FH (60°-80°)   | 4484.4 | 37.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.3   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 410.4  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 622.9  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 264.5  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.9    | 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°    | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 |
| 2.5°  | 1374.3 | 1380.5 | 1384.9 | 1387.7 | 1391.1 | 1398.3 | 1400.6 | 1404.0 | 1405.7 | 1405.7 | 1409.6 |
| 5°    | 1320.0 | 1326.7 | 1336.2 | 1344.0 | 1359.8 | 1379.9 | 1394.4 | 1400.0 | 1410.2 | 1419.1 | 1424.1 |
| 7.5°  | 1269.6 | 1277.4 | 1288.6 | 1307.1 | 1334.0 | 1366.5 | 1396.7 | 1404.6 | 1424.1 | 1443.2 | 1452.7 |
| 10°   | 1237.1 | 1243.2 | 1257.8 | 1284.1 | 1319.4 | 1364.8 | 1407.4 | 1416.9 | 1450.4 | 1482.4 | 1500.4 |
| 12.5° | 1225.9 | 1231.5 | 1246.6 | 1276.3 | 1320.0 | 1373.2 | 1432.0 | 1445.9 | 1495.2 | 1541.7 | 1567.0 |
| 15°   | 1242.1 | 1243.2 | 1259.5 | 1287.5 | 1330.6 | 1393.9 | 1472.9 | 1489.6 | 1551.9 | 1612.3 | 1643.7 |
| 17.5° | 1304.8 | 1299.8 | 1308.3 | 1320.6 | 1354.7 | 1421.4 | 1516.0 | 1541.2 | 1624.1 | 1695.2 | 1724.9 |
| 20°   | 1461.7 | 1461.7 | 1442.6 | 1409.1 | 1409.6 | 1463.9 | 1574.2 | 1602.8 | 1704.2 | 1786.5 | 1813.4 |
| 22.5° | 1729.9 | 1724.9 | 1686.8 | 1604.5 | 1528.9 | 1537.2 | 1645.4 | 1682.3 | 1800.5 | 1888.4 | 1897.4 |
| 25°   | 2052.5 | 2046.3 | 1987.5 | 1871.6 | 1740.6 | 1656.0 | 1741.7 | 1784.3 | 1915.3 | 1993.1 | 1974.7 |
| 27.5° | 2394.1 | 2389.0 | 2330.8 | 2186.9 | 2000.4 | 1845.3 | 1856.5 | 1896.8 | 2032.4 | 2109.0 | 2050.2 |
| 30°   | 2725.1 | 2726.7 | 2669.1 | 2521.2 | 2310.1 | 2086.7 | 2002.1 | 2025.7 | 2146.0 | 2223.9 | 2139.9 |
| 32.5° | 3039.8 | 3042.1 | 2992.2 | 2827.0 | 2629.9 | 2367.2 | 2203.7 | 2197.5 | 2278.2 | 2355.0 | 2258.5 |
| 35°   | 3320.4 | 3326.0 | 3291.8 | 3163.6 | 2954.7 | 2679.7 | 2465.2 | 2450.7 | 2465.8 | 2552.6 | 2440.6 |
| 37.5° | 3590.8 | 3594.3 | 3568.5 | 3460.4 | 3285.7 | 3023.1 | 2795.7 | 2774.9 | 2742.5 | 2809.1 | 2680.8 |
| 40°   | 3887.2 | 3878.8 | 3849.1 | 3751.1 | 3601.0 | 3402.2 | 3150.7 | 3114.8 | 3058.3 | 3117.7 | 2996.7 |
| 42.5° | 4162.7 | 4153.1 | 4158.1 | 4047.3 | 3920.7 | 3792.0 | 3564.6 | 3503.0 | 3469.9 | 3538.2 | 3384.2 |
| 45°   | 4507.1 | 4502.1 | 4518.8 | 4422.5 | 4320.1 | 4226.5 | 4038.9 | 3971.7 | 3957.1 | 4037.2 | 3853.0 |
| 47.5° | 4847.0 | 4859.3 | 4911.4 | 4870.5 | 4829.1 | 4746.8 | 4541.2 | 4511.0 | 4520.0 | 4616.8 | 4347.4 |
| 50°   | 5130.4 | 5144.9 | 5287.7 | 5334.8 | 5394.7 | 5346.5 | 5140.5 | 5122.0 | 5157.2 | 5244.6 | 4879.5 |
| 52.5° | 5335.3 | 5365.1 | 5542.6 | 5759.3 | 5977.7 | 6010.2 | 5804.7 | 5787.9 | 5835.5 | 5848.9 | 5290.5 |
| 55°   | 5477.6 | 5504.0 | 5705.0 | 6101.5 | 6546.2 | 6686.2 | 6558.5 | 6493.5 | 6484.5 | 6351.9 | 5722.9 |
| 57.5° | 5502.8 | 5500.0 | 5789.0 | 6322.7 | 6991.9 | 7353.2 | 7272.5 | 7208.7 | 7025.0 | 6816.6 | 6218.5 |
| 60°   | 5360.6 | 5376.8 | 5712.2 | 6399.5 | 7271.9 | 7857.7 | 7863.8 | 7781.0 | 7494.9 | 7268.6 | 6699.0 |
| 62.5° | 4922.6 | 4988.7 | 5327.5 | 6198.3 | 7268.6 | 8061.0 | 8297.3 | 8234.0 | 7891.9 | 7638.8 | 7186.2 |
| 65°   | 4212.6 | 4236.0 | 4559.2 | 5509.5 | 6777.4 | 7975.9 | 8687.7 | 8664.1 | 8249.7 | 7998.3 | 7436.5 |
| 67.5° | 3076.2 | 3025.3 | 3364.7 | 4338.5 | 5738.1 | 7479.7 | 8967.7 | 8997.4 | 8525.8 | 8072.2 | 7170.0 |
| 68°   | 2807.4 | 2822.5 | 3086.9 | 4049.0 | 5465.9 | 7304.5 | 8986.2 | 9031.5 | 8553.3 | 8024.1 | 7024.4 |
| 70°   | 1673.3 | 1702.5 | 1938.3 | 2787.8 | 4158.1 | 6312.6 | 8786.8 | 8890.4 | 8389.7 | 7527.3 | 6075.7 |
| 72.5° | 427.3  | 462.0  | 684.9  | 1247.7 | 2375.1 | 4447.7 | 7417.5 | 7592.9 | 7284.2 | 6106.5 | 4101.6 |
| 75°   | 175.9  | 184.8  | 244.7  | 411.1  | 884.9  | 2003.8 | 4889.0 | 5264.3 | 5049.7 | 3655.9 | 1853.7 |
| 77.5° | 121.6  | 127.7  | 157.3  | 227.9  | 383.1  | 679.3  | 2396.9 | 2668.0 | 2403.7 | 1247.7 | 404.3  |
| 80°   | 87.4   | 92.4   | 112.5  | 151.7  | 220.1  | 242.5  | 781.2  | 903.3  | 717.4  | 273.9  | 100.2  |
| 82.5° | 52.1   | 56.0   | 84.0   | 108.1  | 133.9  | 115.9  | 194.3  | 220.7  | 207.7  | 136.1  | 44.8   |
| 85°   | 25.8   | 30.3   | 56.5   | 77.3   | 72.3   | 48.7   | 59.3   | 66.0   | 81.8   | 82.9   | 24.1   |
| 87.5° | 1.7    | 3.4    | 33.1   | 46.5   | 20.1   | 11.2   | 17.3   | 21.2   | 29.2   | 40.9   | 10.1   |
| 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°    | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 | 1407.4 |
| 2.5°  | 1411.3 | 1411.9 | 1407.9 | 1406.3 | 1407.4 | 1400.6 | 1397.8 | 1398.9 | 1398.9 | 1400.6 | 1397.8 |
| 5°    | 1425.3 | 1425.3 | 1418.6 | 1409.6 | 1404.6 | 1391.6 | 1383.3 | 1381.0 | 1379.3 | 1378.2 | 1376.0 |
| 7.5°  | 1455.5 | 1452.2 | 1440.4 | 1420.8 | 1404.0 | 1376.0 | 1354.7 | 1343.5 | 1337.9 | 1335.7 | 1334.0 |
| 10°   | 1504.3 | 1498.0 | 1478.5 | 1442.0 | 1403.5 | 1353.5 | 1307.1 | 1274.1 | 1246.6 | 1235.4 | 1228.7 |
| 12.5° | 1569.8 | 1560.8 | 1527.7 | 1467.3 | 1399.5 | 1307.6 | 1206.8 | 1109.9 | 1019.8 | 982.9  | 964.3  |
| 15°   | 1645.4 | 1632.4 | 1580.4 | 1488.5 | 1376.5 | 1204.0 | 985.1  | 815.4  | 690.6  | 643.5  | 623.3  |
| 17.5° | 1722.1 | 1705.3 | 1626.3 | 1502.0 | 1307.6 | 989.6  | 691.1  | 521.9  | 438.5  | 416.1  | 408.3  |
| 20°   | 1799.4 | 1774.7 | 1666.1 | 1491.9 | 1152.0 | 713.5  | 455.9  | 381.4  | 357.3  | 350.5  | 348.3  |
| 22.5° | 1872.7 | 1834.7 | 1701.9 | 1452.7 | 912.3  | 478.8  | 360.7  | 337.1  | 329.3  | 325.4  | 324.3  |
| 25°   | 1936.6 | 1883.4 | 1733.2 | 1331.7 | 645.7  | 361.8  | 324.8  | 317.0  | 306.9  | 299.6  | 300.1  |
| 27.5° | 1996.5 | 1932.1 | 1752.3 | 1132.4 | 430.7  | 309.1  | 300.7  | 290.1  | 271.6  | 260.9  | 260.9  |
| 30°   | 2068.7 | 1997.1 | 1766.3 | 871.4  | 317.0  | 273.3  | 266.6  | 250.3  | 225.2  | 211.1  | 211.1  |
| 32.5° | 2177.4 | 2095.6 | 1757.4 | 611.6  | 262.7  | 240.2  | 224.6  | 202.1  | 174.8  | 161.3  | 160.7  |
| 35°   | 2343.7 | 2247.9 | 1693.6 | 400.9  | 231.9  | 208.9  | 183.7  | 156.2  | 132.2  | 121.0  | 120.4  |
| 37.5° | 2567.7 | 2451.8 | 1550.2 | 286.7  | 207.7  | 179.8  | 149.5  | 119.3  | 101.4  | 94.1   | 93.5   |
| 40°   | 2858.4 | 2688.7 | 1345.2 | 232.4  | 185.4  | 151.7  | 115.3  | 92.4   | 80.1   | 74.5   | 75.1   |
| 42.5° | 3207.2 | 2942.4 | 1099.3 | 200.5  | 163.5  | 124.9  | 90.2   | 72.8   | 64.9   | 61.0   | 59.9   |
| 45°   | 3594.8 | 3192.7 | 841.7  | 178.7  | 141.7  | 100.8  | 70.5   | 57.7   | 51.5   | 49.3   | 49.3   |
| 47.5° | 4021.0 | 3436.3 | 616.0  | 159.6  | 118.1  | 77.9   | 56.5   | 47.0   | 42.0   | 40.3   | 39.8   |
| 50°   | 4408.0 | 3605.5 | 444.1  | 139.5  | 96.9   | 61.6   | 45.9   | 39.2   | 35.9   | 33.6   | 33.6   |
| 52.5° | 4730.5 | 3658.7 | 327.1  | 117.6  | 78.4   | 49.3   | 38.1   | 33.6   | 30.3   | 28.6   | 28.6   |
| 55°   | 5014.4 | 3636.8 | 243.0  | 96.9   | 63.3   | 40.3   | 32.5   | 28.6   | 25.8   | 24.1   | 24.1   |
| 57.5° | 5286.6 | 3566.2 | 181.5  | 79.0   | 51.0   | 32.5   | 27.5   | 24.1   | 21.2   | 20.1   | 20.1   |
| 60°   | 5509.0 | 3448.6 | 135.0  | 63.8   | 40.9   | 26.4   | 22.9   | 19.6   | 17.3   | 15.6   | 15.6   |
| 62.5° | 5689.3 | 3318.7 | 99.1   | 52.6   | 32.5   | 20.7   | 17.9   | 16.2   | 12.9   | 11.2   | 11.2   |
| 65°   | 5690.5 | 3103.1 | 74.5   | 43.7   | 25.2   | 16.2   | 13.4   | 12.9   | 8.4    | 6.7    | 6.1    |
| 67.5° | 5278.8 | 2675.2 | 57.1   | 37.5   | 19.6   | 12.3   | 10.1   | 10.6   | 4.5    | 2.8    | 2.2    |
| 68°   | 5129.3 | 2566.6 | 53.8   | 37.0   | 18.4   | 11.7   | 9.5    | 10.6   | 3.9    | 2.2    | 1.7    |
| 70°   | 4324.5 | 2041.9 | 43.1   | 35.9   | 16.2   | 8.9    | 7.8    | 10.6   | 3.4    | 1.7    | 1.1    |
| 72.5° | 2766.0 | 1185.0 | 32.0   | 28.6   | 12.3   | 6.7    | 5.0    | 9.5    | 3.4    | 1.1    | 0.6    |
| 75°   | 1177.2 | 367.4  | 21.8   | 20.1   | 7.3    | 5.0    | 3.4    | 6.1    | 2.2    | 0.6    | 0.0    |
| 77.5° | 248.1  | 82.9   | 12.9   | 12.3   | 5.0    | 3.4    | 2.2    | 1.7    | 0.6    | 0.0    | 0.0    |
| 80°   | 63.8   | 24.1   | 6.7    | 6.1    | 2.8    | 1.7    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.1   | 9.5    | 3.9    | 2.8    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 10.1   | 5.6    | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.6    | 1.7    | 0.6    | 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)