

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: P321996

Luminaire Tested: **GAN-SA2B-760-U-T2-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P321996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8318 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 85  
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

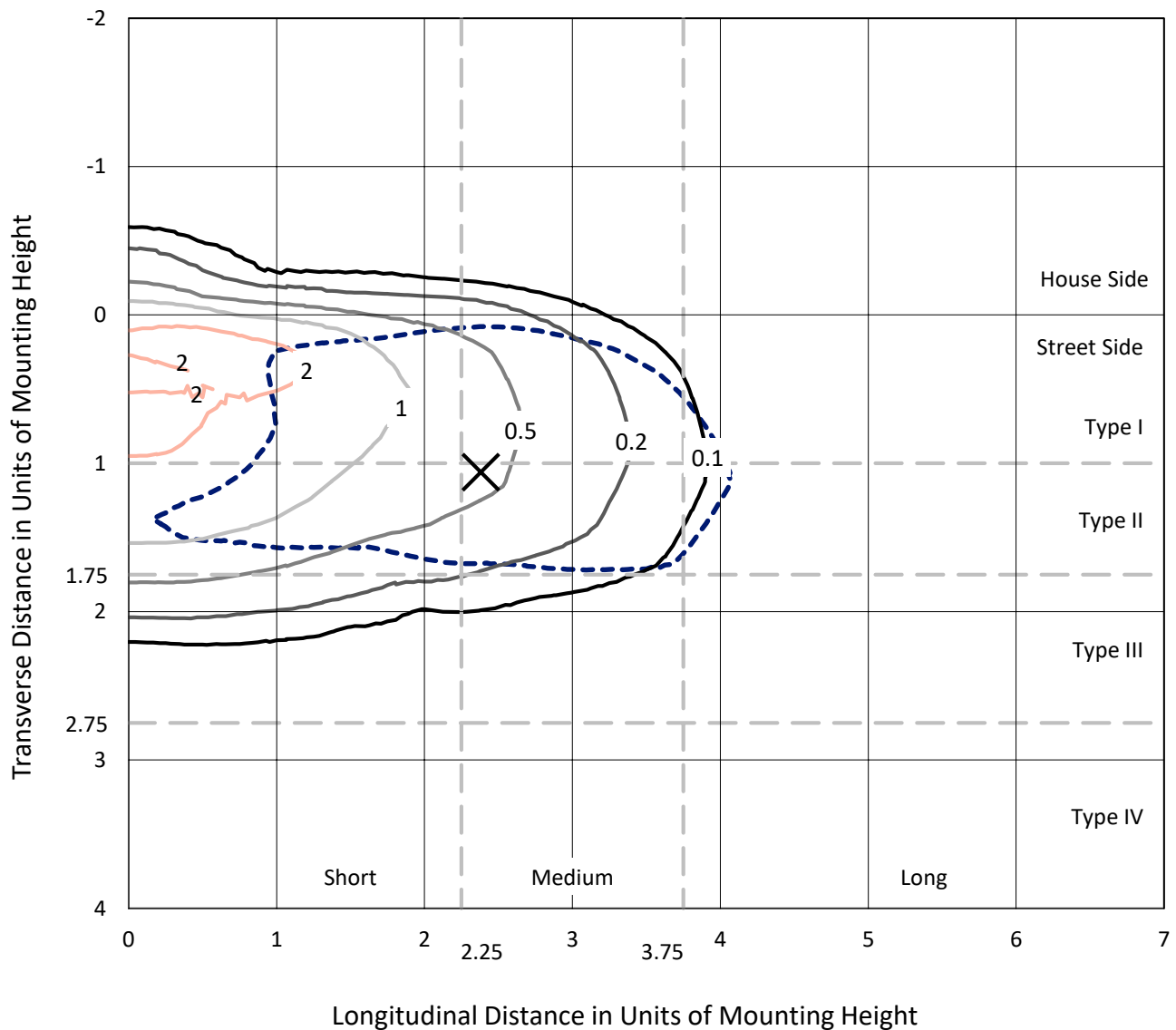


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## Iso-Footcandle Lines of Horizontal Illumination

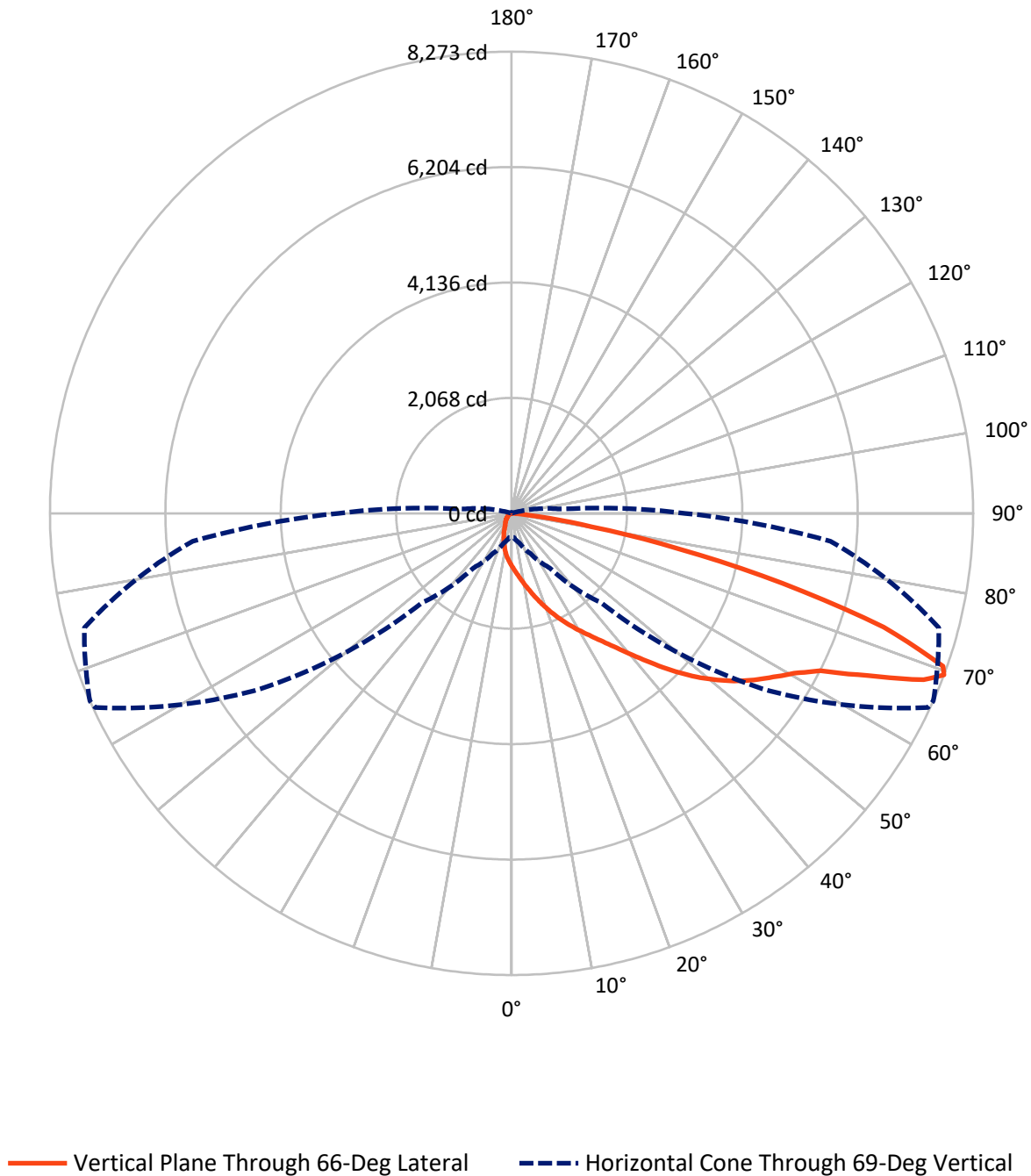
✕ Max cd  
 - - - 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 499.0    | 0.0    | 499.0  |
|                    | % Fixture | 6.0      | 0.0    | 6.0    |
| <b>Street Side</b> | Lumens    | 7819.0   | 0.0    | 7819.0 |
|                    | % Fixture | 94.0     | 0.0    | 94.0   |
| <b>Total</b>       | Lumens    | 8318.0   | 0.0    | 8318.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.5   | 1.1       |
| 10°-20°   | 272.3  | 3.3       |
| 20°-30°   | 474.2  | 5.7       |
| 30°-40°   | 832.0  | 10.0      |
| 40°-50°   | 1392.7 | 16.7      |
| 50°-60°   | 2047.1 | 24.6      |
| 60°-70°   | 2101.9 | 25.3      |
| 70°-80°   | 1037.6 | 12.5      |
| 80°-90°   | 68.6   | 0.8       |
| 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°    | 8318.0 | 100.0     |
| 0°-180°   | 8318.0 | 100.0     |

**Coefficient of Utilization**



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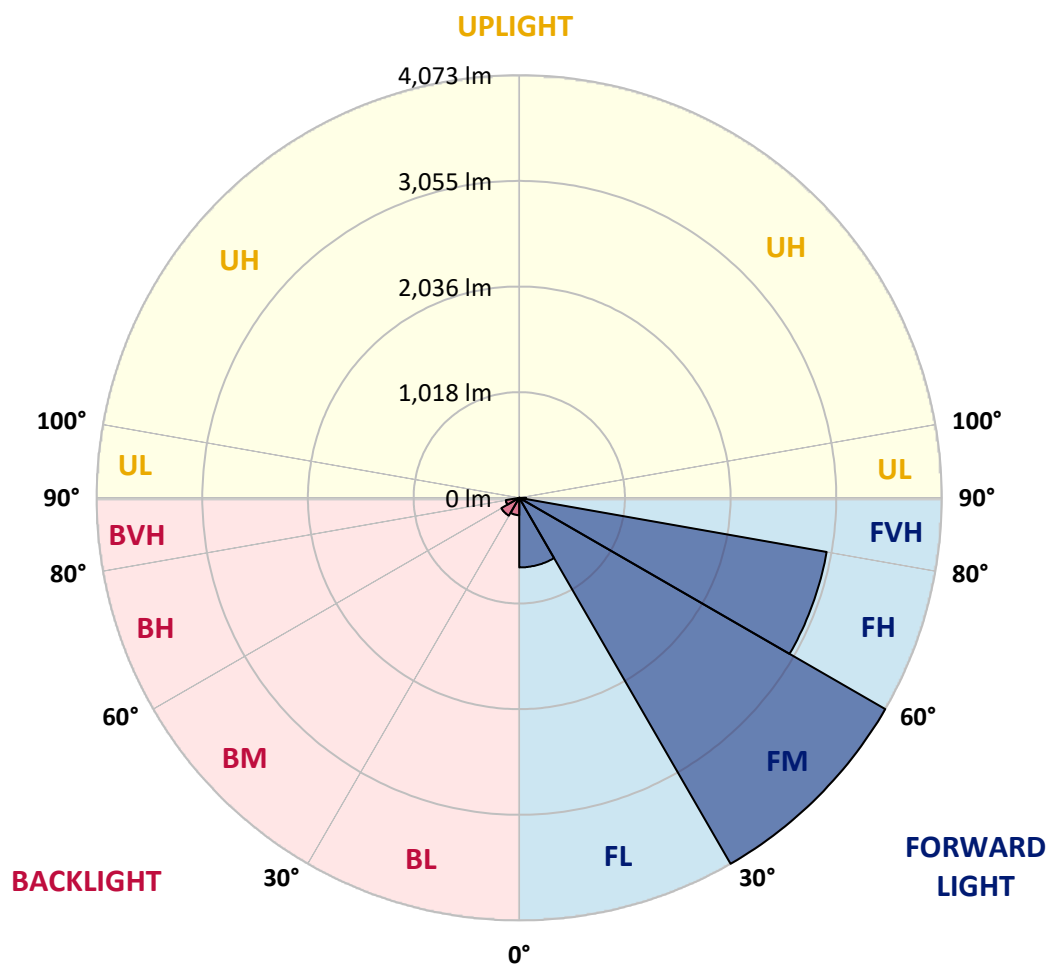
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 671.2  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 4072.9 | 49.0      |                         |      |         |
| FH   | (60°-80°)   | 3008.0 | 36.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 67.0   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 166.9  | 2.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 198.9  | 2.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 131.5  | 1.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.7    | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  | 946.6  |
| 2.5°  | 1114.1 | 1109.4 | 1107.4 | 1098.7 | 1083.7 | 1072.3 | 1050.1 | 1024.4 | 1019.7 | 994.8  | 964.4  |
| 5°    | 1258.7 | 1254.8 | 1252.0 | 1239.8 | 1224.4 | 1195.5 | 1155.2 | 1107.4 | 1098.3 | 1050.9 | 990.1  |
| 7.5°  | 1359.5 | 1366.6 | 1366.6 | 1358.7 | 1339.3 | 1317.6 | 1268.2 | 1203.0 | 1191.6 | 1118.9 | 1024.4 |
| 10°   | 1418.3 | 1427.0 | 1433.8 | 1440.5 | 1437.7 | 1429.0 | 1382.4 | 1308.9 | 1295.1 | 1198.7 | 1064.3 |
| 12.5° | 1423.9 | 1432.6 | 1451.5 | 1479.6 | 1506.8 | 1526.6 | 1497.4 | 1426.2 | 1410.4 | 1291.1 | 1111.8 |
| 15°   | 1393.1 | 1402.1 | 1431.4 | 1485.9 | 1551.9 | 1609.6 | 1619.0 | 1556.2 | 1540.0 | 1401.4 | 1171.0 |
| 17.5° | 1339.3 | 1345.3 | 1387.1 | 1462.6 | 1566.1 | 1672.0 | 1729.3 | 1695.7 | 1680.7 | 1527.4 | 1237.0 |
| 20°   | 1299.4 | 1303.8 | 1340.5 | 1421.5 | 1557.4 | 1711.1 | 1833.6 | 1843.8 | 1828.0 | 1662.5 | 1308.5 |
| 22.5° | 1367.8 | 1375.7 | 1376.9 | 1415.2 | 1533.7 | 1730.5 | 1925.2 | 1989.6 | 1977.8 | 1805.9 | 1378.8 |
| 25°   | 1554.6 | 1563.7 | 1533.7 | 1510.0 | 1553.9 | 1739.1 | 2003.9 | 2139.0 | 2129.5 | 1960.4 | 1449.6 |
| 27.5° | 1801.6 | 1811.1 | 1772.3 | 1701.6 | 1659.3 | 1771.9 | 2073.8 | 2290.7 | 2290.3 | 2124.0 | 1525.8 |
| 30°   | 2044.2 | 2053.6 | 2014.1 | 1943.4 | 1846.2 | 1864.8 | 2134.2 | 2449.5 | 2451.9 | 2292.7 | 1606.8 |
| 32.5° | 2298.6 | 2310.4 | 2269.7 | 2178.9 | 2077.3 | 2025.2 | 2219.2 | 2609.1 | 2622.6 | 2488.2 | 1698.1 |
| 35°   | 2587.8 | 2589.4 | 2532.1 | 2436.9 | 2319.9 | 2239.7 | 2355.5 | 2788.1 | 2820.1 | 2730.4 | 1813.8 |
| 37.5° | 2871.5 | 2882.9 | 2835.9 | 2685.8 | 2578.3 | 2487.4 | 2558.2 | 3011.7 | 3057.1 | 3026.3 | 1965.1 |
| 40°   | 3081.6 | 3105.7 | 3099.0 | 2937.0 | 2835.1 | 2770.3 | 2809.8 | 3277.6 | 3335.3 | 3370.8 | 2156.0 |
| 42.5° | 3213.6 | 3231.8 | 3262.6 | 3165.0 | 3072.5 | 3083.2 | 3106.9 | 3587.3 | 3658.5 | 3763.5 | 2375.2 |
| 45°   | 3364.9 | 3373.6 | 3399.3 | 3356.2 | 3293.8 | 3401.3 | 3422.2 | 3936.2 | 4010.9 | 4185.9 | 2618.6 |
| 47.5° | 3549.8 | 3570.4 | 3577.5 | 3538.0 | 3509.5 | 3682.6 | 3726.0 | 4253.4 | 4358.1 | 4638.3 | 2876.2 |
| 50°   | 3785.3 | 3790.8 | 3803.1 | 3777.4 | 3748.9 | 3924.3 | 3998.6 | 4586.5 | 4681.7 | 5092.2 | 3130.2 |
| 52.5° | 4015.6 | 4035.4 | 4078.0 | 4061.8 | 4050.4 | 4130.2 | 4241.6 | 4886.8 | 4993.0 | 5470.7 | 3383.9 |
| 55°   | 4082.0 | 4099.0 | 4246.3 | 4347.1 | 4440.3 | 4383.8 | 4473.9 | 5155.8 | 5270.8 | 5808.9 | 3628.0 |
| 57.5° | 3816.9 | 3851.3 | 4106.5 | 4368.8 | 4755.6 | 4778.1 | 4793.1 | 5432.0 | 5535.1 | 6068.1 | 3882.1 |
| 60°   | 3146.8 | 3153.5 | 3572.3 | 4022.3 | 4703.4 | 5122.2 | 5259.3 | 5728.7 | 5815.2 | 6309.5 | 4186.3 |
| 62.5° | 2001.5 | 2069.8 | 2529.3 | 3164.6 | 4151.9 | 5072.5 | 5823.1 | 6177.5 | 6209.1 | 6599.0 | 4622.5 |
| 65°   | 953.3  | 997.6  | 1328.7 | 1955.3 | 3007.4 | 4435.2 | 6212.3 | 6989.4 | 7003.6 | 7173.1 | 5205.2 |
| 67.5° | 527.8  | 549.2  | 706.8  | 1052.5 | 1758.1 | 3136.6 | 6055.0 | 7951.0 | 7964.4 | 7759.4 | 5716.4 |
| 69°   | 412.9  | 431.0  | 555.1  | 793.3  | 1192.0 | 2254.3 | 5479.4 | 8232.7 | 8272.6 | 7927.3 | 5734.6 |
| 70°   | 350.4  | 368.2  | 478.0  | 670.1  | 958.5  | 1741.9 | 4877.3 | 8162.8 | 8205.1 | 7911.5 | 5599.1 |
| 72.5° | 214.5  | 224.8  | 318.4  | 471.7  | 642.4  | 876.3  | 3007.8 | 6903.3 | 6974.8 | 7257.3 | 4812.1 |
| 75°   | 144.6  | 150.1  | 199.1  | 325.5  | 459.5  | 451.2  | 1562.5 | 4865.8 | 5020.7 | 5645.3 | 3554.2 |
| 77.5° | 103.5  | 108.6  | 133.5  | 210.6  | 322.0  | 297.9  | 707.6  | 3024.0 | 3057.1 | 3385.8 | 1938.3 |
| 80°   | 58.9   | 63.6   | 94.4   | 125.2  | 218.5  | 198.7  | 281.3  | 1444.4 | 1461.0 | 1451.9 | 647.1  |
| 82.5° | 30.8   | 34.8   | 51.8   | 82.6   | 140.3  | 130.0  | 116.9  | 483.6  | 486.0  | 404.2  | 141.8  |
| 85°   | 5.9    | 7.1    | 25.7   | 56.5   | 72.3   | 56.5   | 47.8   | 113.4  | 115.8  | 102.3  | 35.2   |
| 87.5° | 0.0    | 0.4    | 10.3   | 12.6   | 14.2   | 14.6   | 15.4   | 22.1   | 23.7   | 32.0   | 9.5    |
| 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°    | 946.6  | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 | 946.6 |
| 2.5°  | 951.0  | 936.7 | 909.5 | 877.9 | 853.4 | 829.3 | 810.3 | 790.6 | 783.4 | 779.9 | 779.5 |
| 5°    | 960.4  | 930.4 | 872.7 | 813.5 | 764.9 | 719.0 | 686.3 | 655.0 | 640.4 | 633.7 | 630.9 |
| 7.5°  | 976.2  | 928.0 | 835.2 | 744.7 | 674.8 | 617.5 | 572.1 | 538.1 | 521.1 | 514.0 | 511.2 |
| 10°   | 994.8  | 924.9 | 791.3 | 672.0 | 582.7 | 523.5 | 478.4 | 444.9 | 426.3 | 418.4 | 414.4 |
| 12.5° | 1016.5 | 919.4 | 740.8 | 598.5 | 504.1 | 444.9 | 390.3 | 348.9 | 327.5 | 318.4 | 314.1 |
| 15°   | 1043.4 | 913.8 | 687.8 | 529.4 | 435.0 | 362.7 | 303.0 | 275.0 | 270.6 | 269.1 | 269.4 |
| 17.5° | 1069.9 | 905.1 | 630.2 | 461.1 | 362.3 | 283.3 | 252.9 | 251.3 | 252.1 | 252.1 | 252.1 |
| 20°   | 1093.6 | 885.4 | 567.3 | 402.6 | 293.2 | 239.0 | 232.7 | 229.9 | 228.0 | 226.4 | 224.4 |
| 22.5° | 1112.2 | 858.9 | 506.9 | 344.5 | 239.4 | 218.9 | 209.0 | 200.3 | 193.2 | 188.5 | 186.1 |
| 25°   | 1124.8 | 823.7 | 451.6 | 288.8 | 215.3 | 199.1 | 181.3 | 166.7 | 155.7 | 148.9 | 146.2 |
| 27.5° | 1134.3 | 785.8 | 402.2 | 241.8 | 198.7 | 176.2 | 152.9 | 135.5 | 124.1 | 118.1 | 115.8 |
| 30°   | 1141.0 | 742.8 | 358.7 | 212.6 | 180.2 | 152.1 | 127.2 | 110.2 | 101.9 | 98.8  | 97.2  |
| 32.5° | 1147.3 | 694.9 | 317.6 | 198.7 | 162.8 | 130.0 | 106.7 | 93.6  | 88.5  | 84.5  | 83.4  |
| 35°   | 1163.1 | 650.7 | 278.5 | 184.1 | 145.0 | 111.0 | 91.7  | 82.2  | 77.0  | 74.7  | 73.9  |
| 37.5° | 1200.7 | 617.9 | 241.0 | 169.1 | 127.2 | 96.0  | 80.2  | 73.5  | 68.7  | 66.4  | 65.6  |
| 40°   | 1261.1 | 601.3 | 209.4 | 152.9 | 109.8 | 84.5  | 72.7  | 66.4  | 61.2  | 57.7  | 56.9  |
| 42.5° | 1350.0 | 603.7 | 187.3 | 136.7 | 96.0  | 75.5  | 65.6  | 58.1  | 52.5  | 49.4  | 48.6  |
| 45°   | 1457.9 | 621.1 | 171.9 | 120.9 | 84.5  | 68.3  | 57.7  | 49.8  | 44.6  | 41.9  | 41.1  |
| 47.5° | 1574.8 | 649.1 | 159.2 | 106.7 | 75.5  | 61.6  | 49.8  | 41.5  | 37.1  | 34.8  | 34.4  |
| 50°   | 1698.1 | 676.4 | 146.2 | 92.8  | 67.6  | 54.9  | 41.9  | 34.4  | 30.8  | 28.8  | 28.1  |
| 52.5° | 1822.9 | 708.0 | 134.3 | 80.2  | 60.8  | 47.0  | 34.8  | 28.1  | 25.3  | 23.7  | 22.9  |
| 55°   | 1957.2 | 731.7 | 122.9 | 70.3  | 54.1  | 39.9  | 28.8  | 23.3  | 20.9  | 19.0  | 18.6  |
| 57.5° | 2115.3 | 768.4 | 111.0 | 60.8  | 46.2  | 33.2  | 23.7  | 18.6  | 16.6  | 14.6  | 14.2  |
| 60°   | 2328.6 | 811.5 | 98.4  | 53.7  | 37.9  | 27.3  | 19.4  | 15.0  | 12.6  | 11.1  | 10.7  |
| 62.5° | 2609.9 | 859.3 | 82.6  | 47.0  | 30.8  | 22.1  | 15.4  | 11.9  | 9.1   | 7.1   | 7.1   |
| 65°   | 2966.7 | 937.1 | 67.6  | 39.5  | 25.3  | 18.2  | 11.9  | 8.7   | 5.1   | 3.2   | 3.2   |
| 67.5° | 3174.9 | 950.6 | 54.5  | 32.4  | 20.5  | 15.4  | 9.9   | 5.9   | 1.6   | 0.4   | 0.0   |
| 69°   | 3108.1 | 872.7 | 46.2  | 27.7  | 17.8  | 14.6  | 9.1   | 4.3   | 0.8   | 0.0   | 0.0   |
| 70°   | 2982.5 | 798.1 | 40.7  | 24.5  | 16.2  | 13.8  | 8.7   | 3.2   | 0.8   | 0.0   | 0.0   |
| 72.5° | 2464.5 | 568.1 | 30.8  | 18.2  | 11.9  | 12.2  | 7.9   | 2.0   | 0.8   | 0.0   | 0.0   |
| 75°   | 1795.3 | 345.3 | 22.1  | 12.6  | 7.5   | 9.1   | 5.5   | 0.8   | 0.4   | 0.0   | 0.0   |
| 77.5° | 998.8  | 162.8 | 13.8  | 7.1   | 4.7   | 5.5   | 2.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 324.4  | 44.2  | 6.3   | 4.0   | 2.8   | 3.2   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 60.1   | 12.6  | 3.6   | 2.0   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 13.0   | 5.1   | 2.0   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.3    | 1.6   | 0.4   | 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)