

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: P527771

Luminaire Tested: **GLAN-SA2D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9177 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

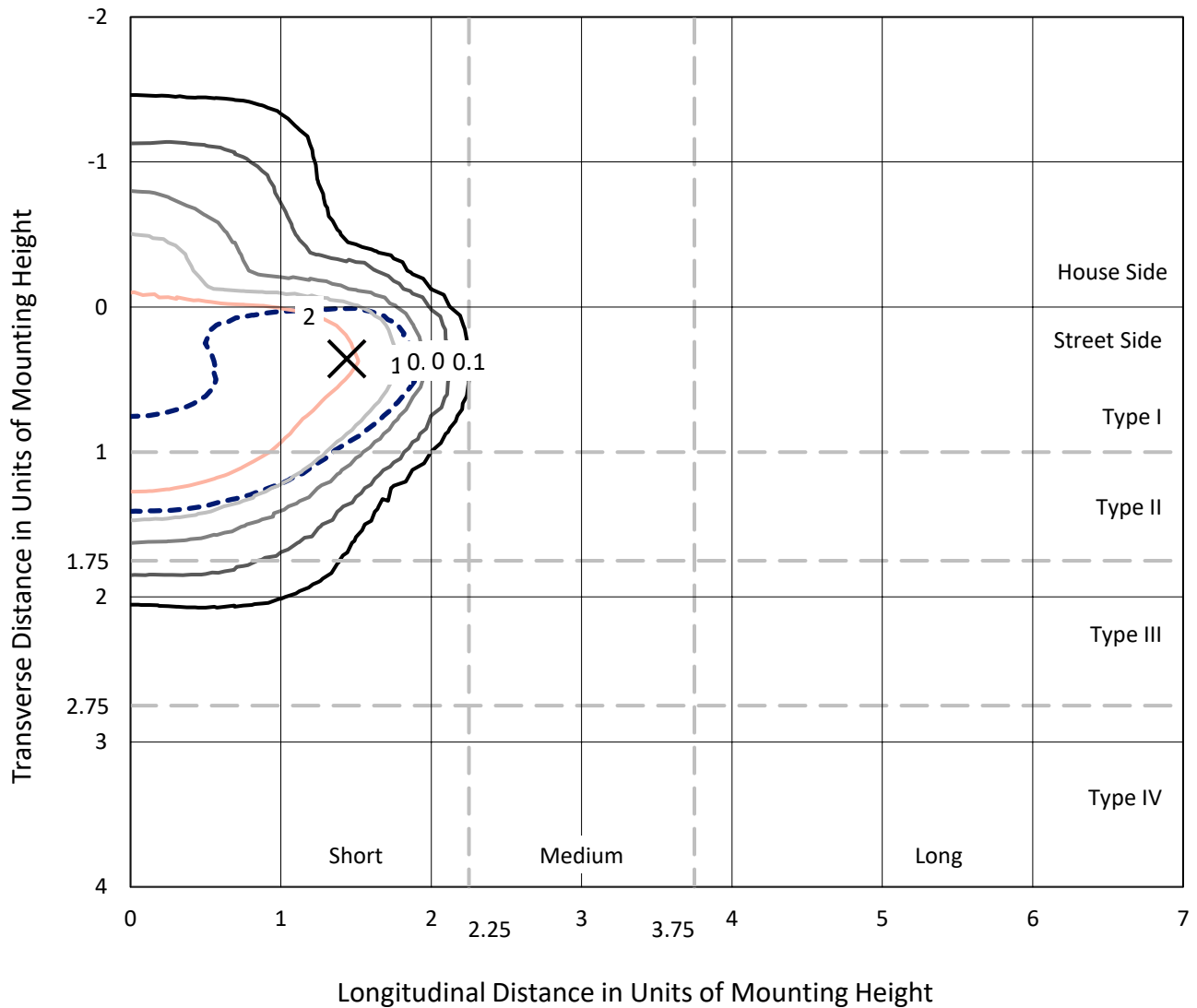
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

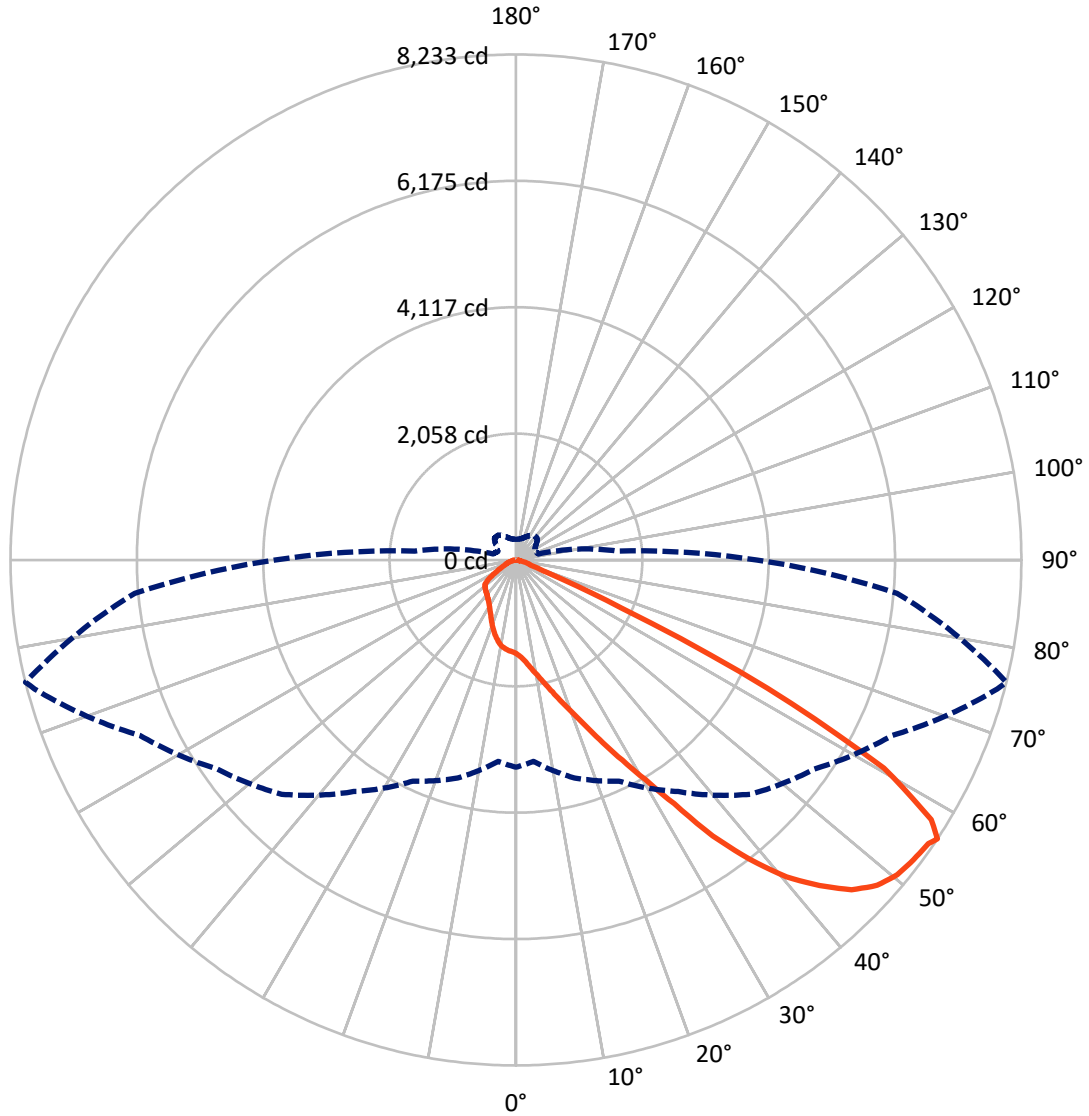
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1441.7   | 0.0    | 1441.7 |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 7735.3   | 0.0    | 7735.3 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 9177.0   | 0.0    | 9177.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.9  | 1.7       |
| 10°-20°   | 494.4  | 5.4       |
| 20°-30°   | 896.4  | 9.8       |
| 30°-40°   | 1545.9 | 16.8      |
| 40°-50°   | 2511.3 | 27.4      |
| 50°-60°   | 2647.0 | 28.8      |
| 60°-70°   | 808.8  | 8.8       |
| 70°-80°   | 103.7  | 1.1       |
| 80°-90°   | 15.8   | 0.2       |
| 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°    | 9177.0 | 100.0     |
| 0°-180°   | 9177.0 | 100.0     |

**Coefficient of Utilization**

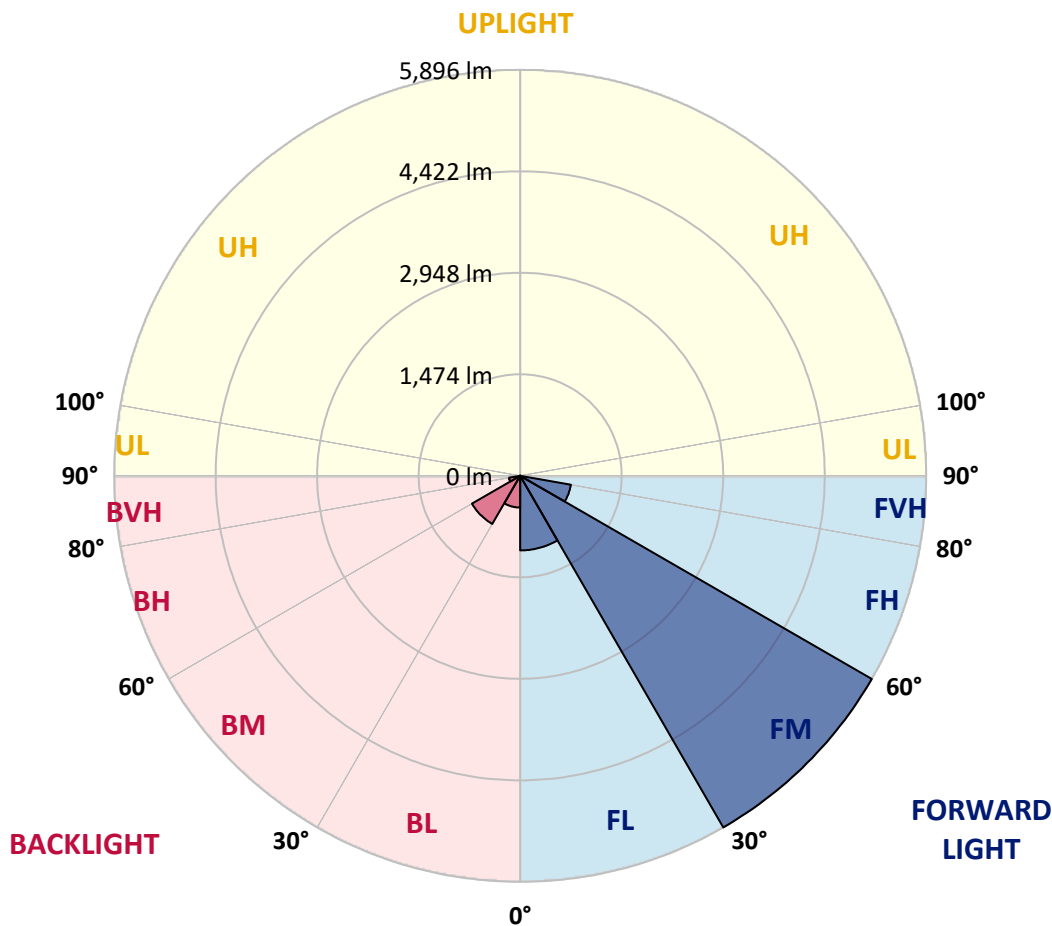


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1083.4 | 11.8      |                         |      |         |
| FM (30°-60°)   | 5896.2 | 64.2      |                         |      |         |
| FH (60°-80°)   | 748.0  | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 7.7    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 461.2  | 5.0       | B1/500                  |      |         |
| BM (30°-60°)   | 808.0  | 8.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 164.5  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 8.0    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 |
| 2.5°  | 1759.3 | 1718.7 | 1720.4 | 1717.0 | 1711.9 | 1693.3 | 1637.5 | 1629.0 | 1591.8 | 1581.7 | 1547.8 |
| 5°    | 1970.7 | 1935.2 | 1955.5 | 1925.1 | 1896.3 | 1879.4 | 1788.0 | 1745.7 | 1686.5 | 1664.5 | 1617.2 |
| 7.5°  | 2102.7 | 2085.8 | 2079.0 | 2080.7 | 2053.6 | 2011.3 | 1970.7 | 1877.7 | 1798.2 | 1781.3 | 1681.5 |
| 10°   | 2167.0 | 2156.8 | 2167.0 | 2161.9 | 2173.7 | 2178.8 | 2107.7 | 2051.9 | 1935.2 | 1906.4 | 1750.8 |
| 12.5° | 2182.2 | 2202.5 | 2210.9 | 2232.9 | 2261.7 | 2310.7 | 2305.7 | 2229.5 | 2073.9 | 2055.3 | 1857.4 |
| 15°   | 2219.4 | 2236.3 | 2227.9 | 2263.4 | 2317.5 | 2400.4 | 2444.4 | 2432.5 | 2265.1 | 2231.2 | 1980.9 |
| 17.5° | 2253.2 | 2222.8 | 2251.5 | 2322.6 | 2376.7 | 2503.6 | 2610.2 | 2659.2 | 2473.1 | 2434.2 | 2094.2 |
| 20°   | 2298.9 | 2290.4 | 2285.4 | 2320.9 | 2417.3 | 2586.5 | 2797.9 | 2887.6 | 2706.6 | 2666.0 | 2256.6 |
| 22.5° | 2437.6 | 2439.3 | 2435.9 | 2383.5 | 2452.8 | 2644.0 | 2962.0 | 3183.6 | 2985.7 | 2951.9 | 2441.0 |
| 25°   | 2620.3 | 2598.3 | 2581.4 | 2539.1 | 2530.7 | 2696.4 | 3127.8 | 3545.6 | 3320.6 | 3297.0 | 2640.6 |
| 27.5° | 2813.2 | 2813.2 | 2762.4 | 2723.5 | 2669.4 | 2826.7 | 3280.0 | 3897.5 | 3724.9 | 3692.8 | 2814.8 |
| 30°   | 3022.9 | 3034.8 | 3028.0 | 2945.1 | 2911.3 | 2968.8 | 3435.7 | 4347.4 | 4188.4 | 4147.8 | 3102.4 |
| 32.5° | 3332.5 | 3307.1 | 3335.9 | 3266.5 | 3166.7 | 3217.4 | 3680.9 | 4750.0 | 4790.6 | 4733.1 | 3479.6 |
| 35°   | 3741.8 | 3726.6 | 3708.0 | 3594.7 | 3476.3 | 3516.9 | 4027.7 | 5245.7 | 5546.8 | 5518.0 | 3860.3 |
| 37.5° | 4108.9 | 4100.5 | 4085.2 | 4007.4 | 3870.4 | 3919.5 | 4421.9 | 5761.6 | 6284.3 | 6189.6 | 4398.2 |
| 40°   | 4494.6 | 4540.3 | 4491.2 | 4421.9 | 4296.7 | 4405.0 | 4885.4 | 6067.8 | 6905.2 | 6790.1 | 4809.3 |
| 42.5° | 5017.3 | 4981.8 | 5003.8 | 4876.9 | 4809.3 | 4927.7 | 5350.6 | 6374.0 | 7387.3 | 7250.2 | 5245.7 |
| 45°   | 5573.9 | 5575.6 | 5516.3 | 5475.7 | 5299.8 | 5428.4 | 5636.5 | 6543.2 | 7771.3 | 7664.7 | 5575.6 |
| 47.5° | 5930.8 | 5929.1 | 5993.4 | 6057.7 | 5876.7 | 5749.8 | 5831.0 | 6703.9 | 7969.2 | 7920.1 | 5695.7 |
| 50°   | 5875.0 | 5891.9 | 5974.8 | 6215.0 | 6309.7 | 6138.9 | 6013.7 | 6656.5 | 8058.8 | 8053.8 | 5798.8 |
| 52.5° | 5110.4 | 5166.2 | 5304.9 | 5651.7 | 6128.7 | 6340.2 | 6204.8 | 6744.5 | 8102.8 | 8111.3 | 5952.8 |
| 55°   | 3890.7 | 3921.2 | 4185.0 | 4606.3 | 5134.0 | 5858.1 | 6128.7 | 6813.8 | 8136.7 | 8151.9 | 6138.9 |
| 56°   | 3374.8 | 3293.6 | 3674.2 | 3973.6 | 4604.6 | 5396.2 | 5935.9 | 6759.7 | 8116.4 | 8233.1 | 6231.9 |
| 57.5° | 2547.6 | 2493.4 | 2801.3 | 3175.2 | 3782.4 | 4618.1 | 5337.0 | 6504.2 | 7979.3 | 7977.6 | 6098.3 |
| 60°   | 1549.5 | 1495.4 | 1732.2 | 1952.1 | 2292.1 | 2843.6 | 3606.5 | 5179.7 | 6746.1 | 6888.2 | 4937.8 |
| 62.5° | 921.9  | 955.8  | 1189.2 | 1322.8 | 1432.8 | 1490.3 | 1865.8 | 3078.7 | 4501.4 | 4602.9 | 3063.5 |
| 65°   | 614.1  | 625.9  | 801.8  | 1021.7 | 1070.8 | 852.6  | 759.5  | 1246.7 | 1952.1 | 1889.5 | 1263.6 |
| 67.5° | 378.9  | 406.0  | 537.9  | 768.0  | 850.9  | 622.5  | 360.3  | 465.2  | 537.9  | 537.9  | 365.4  |
| 70°   | 230.1  | 243.6  | 358.6  | 522.7  | 583.6  | 400.9  | 262.2  | 262.2  | 258.8  | 253.7  | 218.2  |
| 72.5° | 110.0  | 118.4  | 182.7  | 269.0  | 274.0  | 211.5  | 203.0  | 221.6  | 216.5  | 214.8  | 181.0  |
| 75°   | 47.4   | 50.7   | 64.3   | 84.6   | 96.4   | 89.7   | 123.5  | 159.0  | 164.1  | 159.0  | 130.3  |
| 77.5° | 15.2   | 16.9   | 23.7   | 30.4   | 32.1   | 38.9   | 52.4   | 66.0   | 76.1   | 71.0   | 64.3   |
| 80°   | 1.7    | 3.4    | 6.8    | 15.2   | 23.7   | 30.4   | 38.9   | 44.0   | 49.1   | 49.1   | 45.7   |
| 82.5° | 1.7    | 1.7    | 6.8    | 13.5   | 22.0   | 28.8   | 37.2   | 42.3   | 49.1   | 50.7   | 47.4   |
| 85°   | 0.0    | 1.7    | 5.1    | 11.8   | 18.6   | 18.6   | 16.9   | 16.9   | 11.8   | 11.8   | 11.8   |
| 87.5° | 0.0    | 0.0    | 1.7    | 1.7    | 1.7    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 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°    | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 | 1527.5 |
| 2.5°  | 1541.1 | 1537.7 | 1492.0 | 1463.2 | 1448.0 | 1417.6 | 1399.0 | 1385.4 | 1375.3 | 1363.4 | 1365.1 |
| 5°    | 1561.4 | 1549.5 | 1473.4 | 1421.0 | 1358.4 | 1324.5 | 1295.8 | 1272.1 | 1256.9 | 1253.5 | 1246.7 |
| 7.5°  | 1618.9 | 1556.3 | 1441.3 | 1346.5 | 1267.0 | 1233.2 | 1207.8 | 1192.6 | 1199.4 | 1184.1 | 1196.0 |
| 10°   | 1662.9 | 1569.8 | 1402.3 | 1265.3 | 1185.8 | 1160.4 | 1146.9 | 1158.8 | 1175.7 | 1168.9 | 1160.4 |
| 12.5° | 1717.0 | 1583.3 | 1339.8 | 1187.5 | 1113.1 | 1094.5 | 1118.2 | 1140.1 | 1174.0 | 1187.5 | 1170.6 |
| 15°   | 1777.9 | 1598.6 | 1260.3 | 1097.9 | 1050.5 | 1065.7 | 1106.3 | 1145.2 | 1179.1 | 1196.0 | 1206.1 |
| 17.5° | 1852.3 | 1593.5 | 1182.4 | 1026.8 | 991.3  | 1035.3 | 1084.3 | 1119.8 | 1170.6 | 1196.0 | 1189.2 |
| 20°   | 1921.7 | 1576.6 | 1096.2 | 955.8  | 957.5  | 998.1  | 1038.6 | 1096.2 | 1123.2 | 1157.1 | 1145.2 |
| 22.5° | 1987.6 | 1546.1 | 1006.5 | 906.7  | 906.7  | 969.3  | 989.6  | 1026.8 | 1050.5 | 1067.4 | 1065.7 |
| 25°   | 2080.7 | 1488.6 | 932.1  | 859.3  | 879.6  | 920.2  | 937.2  | 949.0  | 938.8  | 952.4  | 954.1  |
| 27.5° | 2146.7 | 1429.4 | 871.2  | 817.0  | 854.3  | 884.7  | 879.6  | 872.9  | 849.2  | 830.6  | 842.4  |
| 30°   | 2217.7 | 1360.1 | 818.7  | 788.3  | 808.6  | 835.7  | 815.4  | 795.1  | 757.8  | 727.4  | 729.1  |
| 32.5° | 2319.2 | 1327.9 | 773.1  | 754.5  | 781.5  | 784.9  | 762.9  | 732.5  | 695.3  | 666.5  | 664.8  |
| 35°   | 2508.7 | 1307.6 | 734.2  | 732.5  | 737.5  | 739.2  | 717.2  | 680.0  | 664.8  | 641.1  | 649.6  |
| 37.5° | 2698.1 | 1297.5 | 707.1  | 700.3  | 698.6  | 700.3  | 675.0  | 639.4  | 668.2  | 666.5  | 669.9  |
| 40°   | 2940.0 | 1343.1 | 668.2  | 659.7  | 661.4  | 661.4  | 629.3  | 619.1  | 669.9  | 675.0  | 676.6  |
| 42.5° | 3185.3 | 1400.7 | 642.8  | 615.7  | 622.5  | 622.5  | 605.6  | 593.8  | 629.3  | 595.4  | 590.4  |
| 45°   | 3398.4 | 1485.2 | 615.7  | 571.8  | 588.7  | 597.1  | 592.1  | 571.8  | 549.8  | 492.3  | 492.3  |
| 47.5° | 3467.8 | 1559.7 | 583.6  | 529.5  | 543.0  | 580.2  | 565.0  | 522.7  | 483.8  | 436.4  | 433.1  |
| 50°   | 3589.6 | 1640.9 | 558.2  | 480.4  | 509.2  | 554.8  | 539.6  | 497.3  | 453.4  | 419.5  | 421.2  |
| 52.5° | 3714.8 | 1733.9 | 510.9  | 422.9  | 458.4  | 534.5  | 534.5  | 487.2  | 419.5  | 395.8  | 392.5  |
| 55°   | 3902.5 | 1730.5 | 426.3  | 346.8  | 409.4  | 504.1  | 512.6  | 436.4  | 375.5  | 356.9  | 356.9  |
| 56°   | 3929.6 | 1652.7 | 384.0  | 324.8  | 387.4  | 495.6  | 497.3  | 422.9  | 358.6  | 338.3  | 338.3  |
| 57.5° | 3726.6 | 1492.0 | 336.6  | 297.7  | 360.3  | 480.4  | 482.1  | 411.1  | 345.1  | 316.3  | 312.9  |
| 60°   | 2867.3 | 1009.9 | 280.8  | 265.6  | 326.5  | 433.1  | 441.5  | 373.8  | 302.8  | 280.8  | 279.1  |
| 62.5° | 1618.9 | 559.9  | 247.0  | 240.2  | 280.8  | 368.8  | 394.1  | 326.5  | 257.1  | 245.3  | 248.7  |
| 65°   | 739.2  | 307.9  | 208.1  | 194.5  | 226.7  | 284.2  | 318.0  | 269.0  | 211.5  | 197.9  | 197.9  |
| 67.5° | 270.7  | 209.8  | 177.6  | 153.9  | 159.0  | 184.4  | 206.4  | 174.2  | 140.4  | 120.1  | 125.2  |
| 70°   | 192.8  | 175.9  | 155.6  | 133.6  | 123.5  | 120.1  | 118.4  | 98.1   | 69.4   | 54.1   | 57.5   |
| 72.5° | 155.6  | 145.5  | 130.3  | 113.3  | 96.4   | 81.2   | 69.4   | 50.7   | 32.1   | 22.0   | 20.3   |
| 75°   | 111.6  | 106.6  | 94.7   | 81.2   | 67.7   | 57.5   | 47.4   | 32.1   | 16.9   | 8.5    | 8.5    |
| 77.5° | 57.5   | 57.5   | 55.8   | 50.7   | 42.3   | 33.8   | 27.1   | 18.6   | 10.1   | 3.4    | 3.4    |
| 80°   | 44.0   | 47.4   | 49.1   | 44.0   | 38.9   | 30.4   | 22.0   | 13.5   | 6.8    | 1.7    | 1.7    |
| 82.5° | 42.3   | 49.1   | 52.4   | 45.7   | 38.9   | 28.8   | 22.0   | 13.5   | 6.8    | 1.7    | 1.7    |
| 85°   | 10.1   | 10.1   | 15.2   | 16.9   | 22.0   | 23.7   | 18.6   | 11.8   | 5.1    | 1.7    | 1.7    |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 1.7    | 1.7    | 1.7    | 1.7    | 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)