

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: P451918

Luminaire Tested: **GLAN-SA2D-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA 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: 11630 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

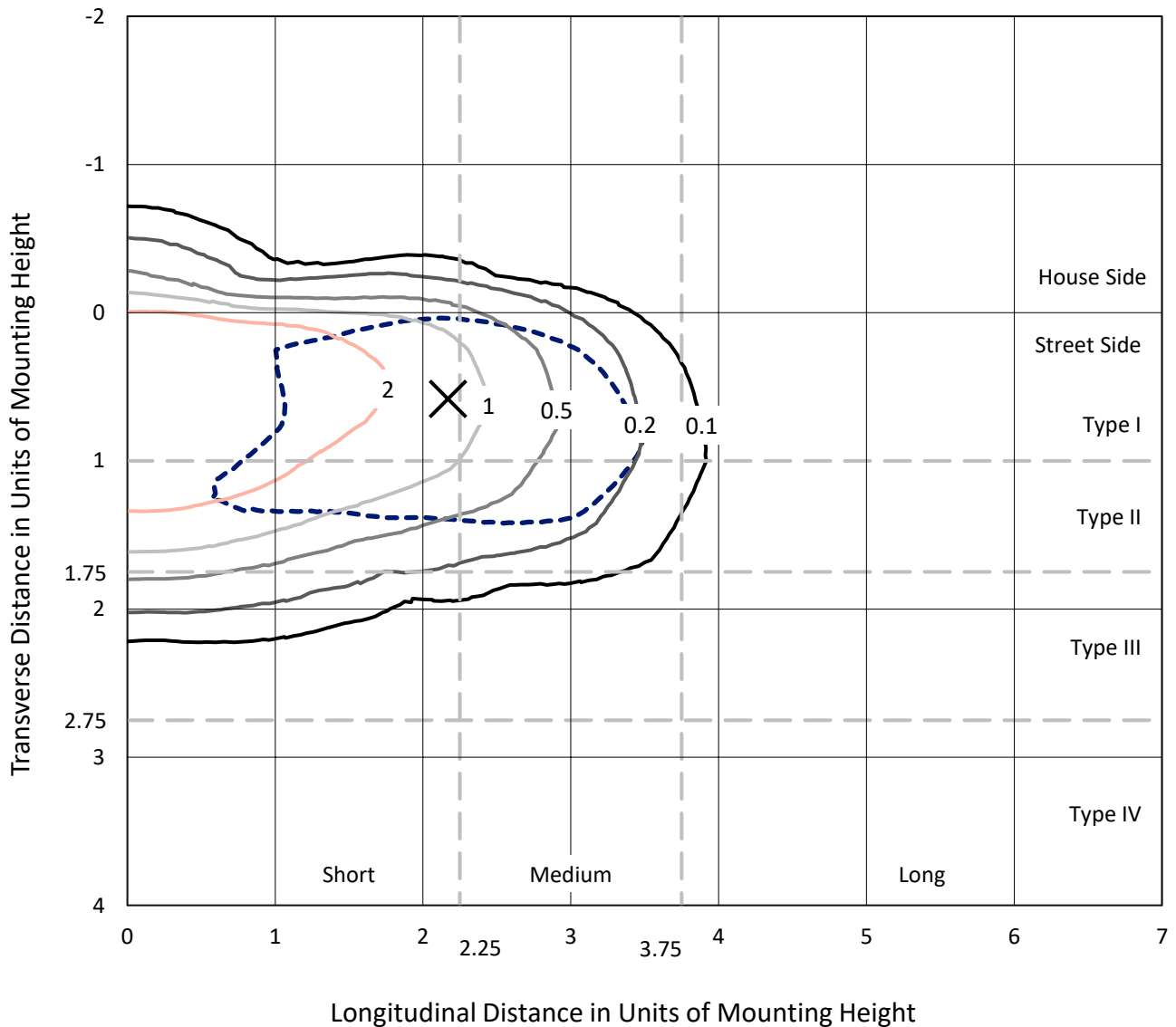
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

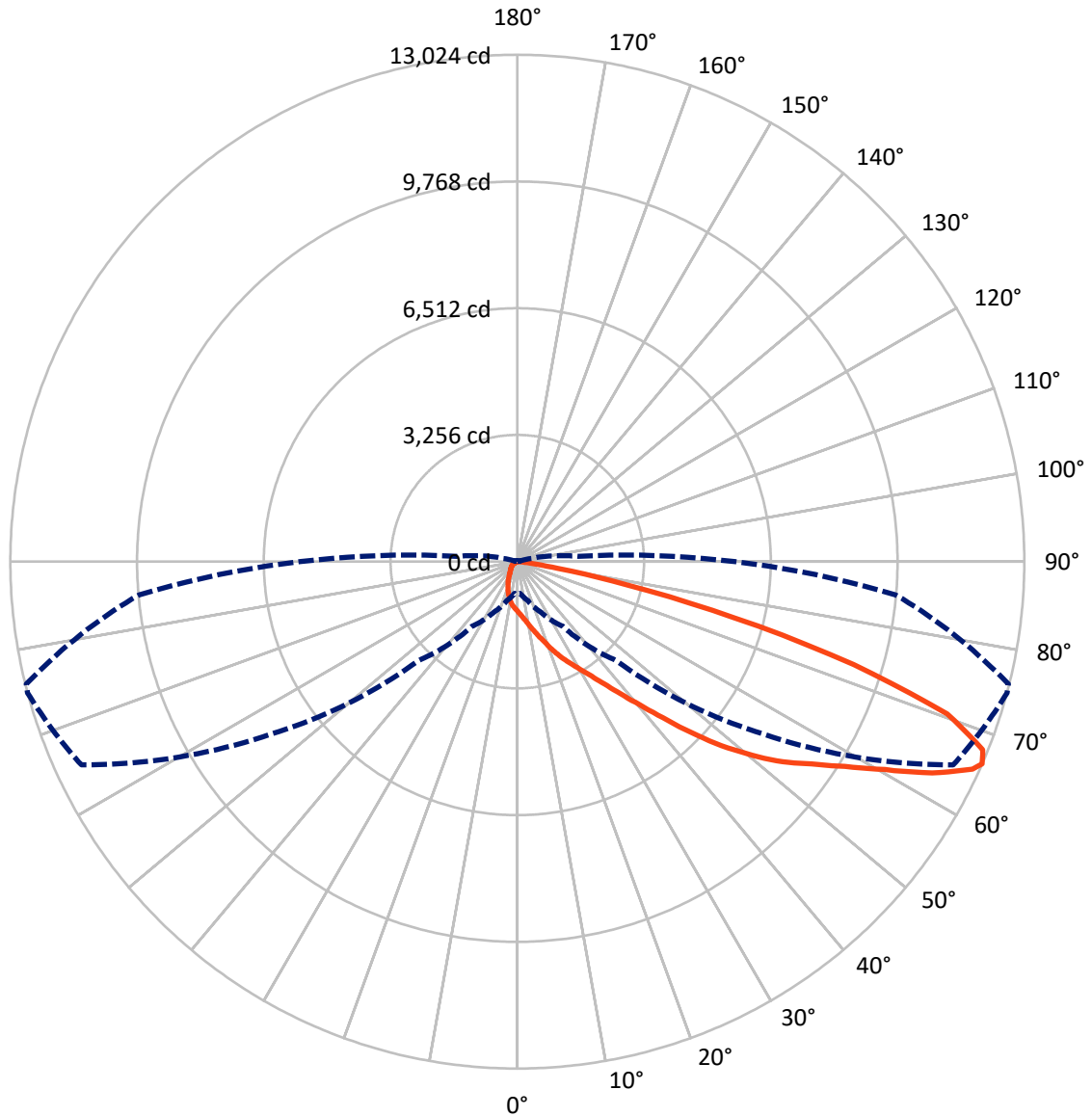
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 718.0    | 0.0    | 718.0   |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 10912.0  | 0.0    | 10912.0 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 11630.0  | 0.0    | 11630.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 122.7   | 1.1       |
| 10°-20°   | 361.0   | 3.1       |
| 20°-30°   | 623.4   | 5.4       |
| 30°-40°   | 1124.5  | 9.7       |
| 40°-50°   | 2031.5  | 17.5      |
| 50°-60°   | 3167.1  | 27.2      |
| 60°-70°   | 3008.6  | 25.9      |
| 70°-80°   | 1127.6  | 9.7       |
| 80°-90°   | 63.6    | 0.5       |
| 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°    | 11630.0 | 100.0     |
| 0°-180°   | 11630.0 | 100.0     |

**Coefficient of Utilization**



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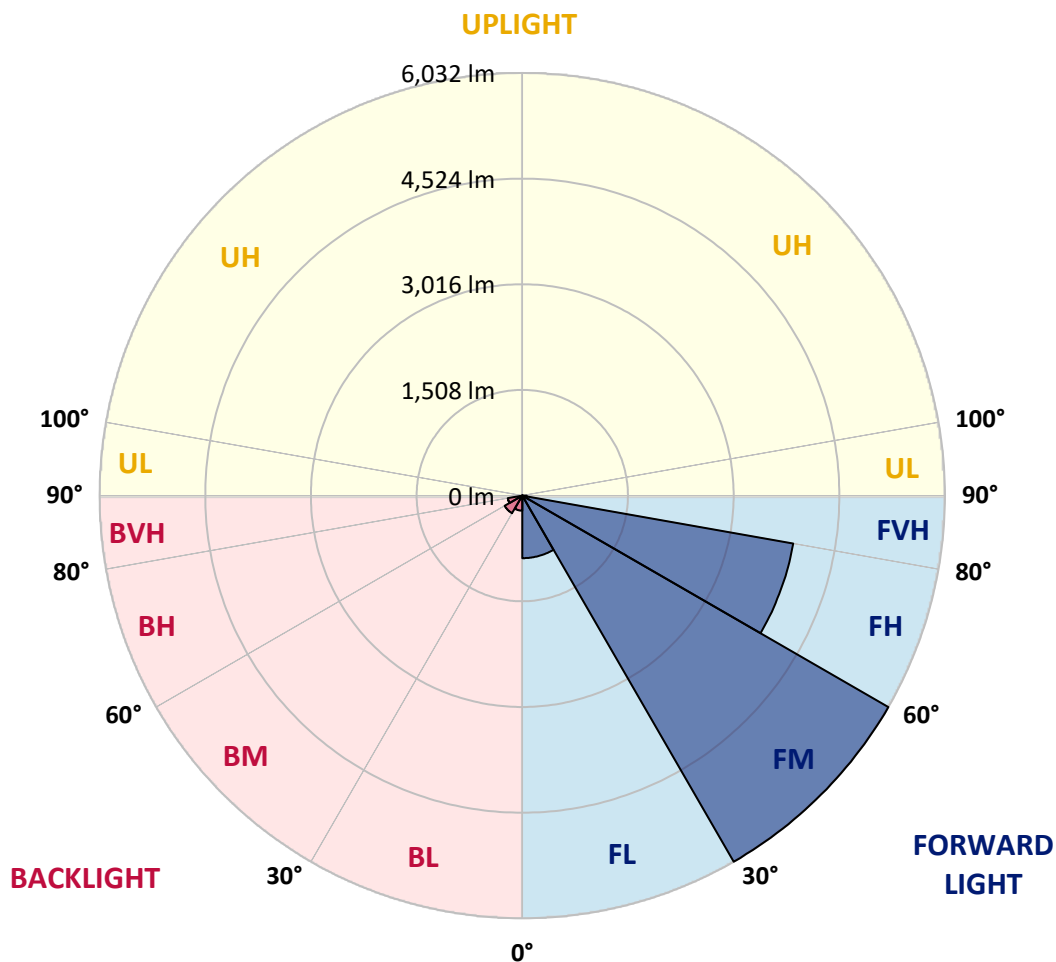
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 892.7  | 7.7       |                         |      |         |
| FM (30°-60°)   | 6032.5 | 51.9      |                         |      |         |
| FH (60°-80°)   | 3926.5 | 33.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 60.3   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 214.4  | 1.8       | B1/500                  |      |         |
| BM (30°-60°)   | 290.6  | 2.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 209.7  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.3    | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9  | 1271.9  | 1271.9  | 1271.9 |
| 2.5°  | 1519.5 | 1500.6 | 1506.6 | 1498.0 | 1478.2 | 1449.0 | 1423.2 | 1386.2  | 1349.3  | 1343.2  | 1302.0 |
| 5°    | 1719.9 | 1714.7 | 1707.8 | 1682.9 | 1669.1 | 1624.4 | 1571.1 | 1507.5  | 1430.9  | 1417.2  | 1342.4 |
| 7.5°  | 1856.6 | 1854.0 | 1857.5 | 1844.6 | 1832.5 | 1792.1 | 1735.4 | 1648.5  | 1529.8  | 1522.1  | 1397.4 |
| 10°   | 1901.3 | 1908.2 | 1921.1 | 1941.8 | 1960.7 | 1947.8 | 1904.8 | 1796.4  | 1658.0  | 1635.6  | 1460.2 |
| 12.5° | 1875.5 | 1883.3 | 1914.2 | 1969.3 | 2030.3 | 2065.6 | 2048.4 | 1969.3  | 1793.8  | 1775.8  | 1530.7 |
| 15°   | 1809.3 | 1818.8 | 1862.6 | 1947.8 | 2057.0 | 2156.7 | 2199.7 | 2143.0  | 1952.1  | 1922.8  | 1615.8 |
| 17.5° | 1711.3 | 1725.0 | 1787.8 | 1900.5 | 2050.1 | 2222.1 | 2343.3 | 2324.4  | 2120.6  | 2093.1  | 1708.7 |
| 20°   | 1637.3 | 1647.7 | 1701.0 | 1830.0 | 2020.9 | 2258.2 | 2480.1 | 2533.4  | 2328.7  | 2281.4  | 1817.9 |
| 22.5° | 1686.3 | 1689.8 | 1707.8 | 1785.2 | 1968.4 | 2267.7 | 2600.5 | 2751.0  | 2549.7  | 2507.6  | 1931.4 |
| 25°   | 1926.3 | 1891.9 | 1873.8 | 1856.6 | 1957.2 | 2259.1 | 2709.7 | 2978.0  | 2769.9  | 2725.2  | 2044.1 |
| 27.5° | 2304.6 | 2289.2 | 2198.0 | 2075.9 | 2052.7 | 2270.2 | 2781.9 | 3193.0  | 2977.1  | 2929.0  | 2154.2 |
| 30°   | 2716.6 | 2689.9 | 2634.0 | 2455.1 | 2275.4 | 2349.4 | 2834.4 | 3401.9  | 3222.2  | 3158.6  | 2254.8 |
| 32.5° | 3094.9 | 3112.1 | 3028.7 | 2844.7 | 2636.6 | 2517.9 | 2902.3 | 3629.8  | 3503.4  | 3424.3  | 2371.7 |
| 35°   | 3536.1 | 3570.5 | 3442.4 | 3266.1 | 3022.7 | 2822.3 | 3034.7 | 3886.9  | 3860.3  | 3760.5  | 2552.3 |
| 37.5° | 3984.1 | 4004.8 | 3926.5 | 3678.8 | 3459.6 | 3209.3 | 3284.1 | 4204.3  | 4299.7  | 4214.6  | 2768.2 |
| 40°   | 4360.8 | 4389.1 | 4331.5 | 4111.4 | 3877.5 | 3657.3 | 3646.2 | 4550.0  | 4822.6  | 4734.8  | 3089.8 |
| 42.5° | 4648.9 | 4670.3 | 4672.1 | 4516.4 | 4305.7 | 4206.0 | 4107.9 | 4991.1  | 5477.8  | 5376.4  | 3463.0 |
| 45°   | 5012.6 | 5043.6 | 5025.5 | 4919.7 | 4762.4 | 4744.3 | 4693.6 | 5524.3  | 6262.1  | 6134.0  | 3947.1 |
| 47.5° | 5575.0 | 5595.6 | 5550.9 | 5426.2 | 5266.3 | 5294.7 | 5264.6 | 6121.9  | 7061.9  | 6951.8  | 4448.5 |
| 50°   | 5965.4 | 5999.8 | 6063.5 | 6113.3 | 5997.2 | 5892.3 | 5802.9 | 6680.0  | 7821.2  | 7722.3  | 4961.0 |
| 52.5° | 5961.1 | 6017.9 | 6219.1 | 6470.2 | 6723.9 | 6692.1 | 6435.0 | 7296.6  | 8546.1  | 8424.0  | 5442.6 |
| 55°   | 5559.5 | 5669.6 | 5965.4 | 6410.9 | 7113.4 | 7463.4 | 7346.5 | 8010.4  | 9172.2  | 9089.6  | 6000.7 |
| 57.5° | 4730.5 | 4797.6 | 5208.7 | 5831.3 | 6895.9 | 7826.3 | 8402.5 | 8977.8  | 9922.9  | 9884.2  | 6867.5 |
| 60°   | 3181.8 | 3211.9 | 3740.8 | 4510.4 | 5870.8 | 7464.3 | 9176.5 | 10148.2 | 10847.3 | 10828.4 | 7879.7 |
| 62.5° | 1823.1 | 1836.0 | 2219.5 | 2868.8 | 4177.6 | 6325.7 | 9241.8 | 11592.0 | 11955.8 | 11966.1 | 9050.9 |
| 65°   | 981.2  | 988.1  | 1297.7 | 1683.8 | 2542.0 | 4508.7 | 8310.5 | 12383.2 | 12851.8 | 12871.6 | 9776.7 |
| 66°   | 847.0  | 814.4  | 1032.8 | 1435.2 | 2022.6 | 3588.5 | 7721.4 | 12354.8 | 13023.8 | 13002.3 | 9750.9 |
| 67.5° | 644.1  | 673.3  | 824.7  | 1103.3 | 1498.9 | 2551.5 | 6374.8 | 11805.3 | 12893.1 | 12826.0 | 9354.5 |
| 70°   | 460.9  | 473.0  | 587.3  | 786.8  | 1020.8 | 1400.0 | 4073.5 | 9805.1  | 11718.4 | 11628.1 | 8149.7 |
| 72.5° | 297.5  | 310.4  | 416.2  | 569.3  | 737.8  | 764.5  | 2280.6 | 7084.2  | 9034.6  | 9021.7  | 6137.4 |
| 75°   | 212.4  | 224.4  | 275.2  | 407.6  | 554.7  | 473.0  | 1098.1 | 4774.4  | 5743.6  | 5704.9  | 3796.6 |
| 77.5° | 153.9  | 159.9  | 184.0  | 266.6  | 396.4  | 338.8  | 509.1  | 2549.7  | 2859.3  | 2994.3  | 1677.7 |
| 80°   | 88.6   | 93.7   | 128.1  | 162.5  | 268.3  | 231.3  | 243.4  | 1023.3  | 1055.1  | 1004.4  | 524.6  |
| 82.5° | 43.9   | 49.9   | 76.5   | 110.9  | 167.7  | 155.6  | 111.8  | 307.9   | 325.1   | 316.5   | 132.4  |
| 85°   | 10.3   | 12.9   | 43.0   | 73.1   | 81.7   | 69.7   | 54.2   | 90.3    | 111.8   | 109.2   | 50.7   |
| 87.5° | 0.9    | 1.7    | 15.5   | 12.9   | 13.8   | 23.2   | 18.9   | 23.2    | 36.1    | 33.5    | 18.1   |
| 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°    | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 | 1271.9 |
| 2.5°  | 1283.0 | 1266.7 | 1219.4 | 1173.0 | 1134.3 | 1093.8 | 1056.9 | 1035.4 | 1026.8 | 1017.3 | 1021.6 |
| 5°    | 1301.1 | 1261.5 | 1166.1 | 1083.5 | 1002.7 | 933.9  | 878.9  | 843.6  | 826.4  | 823.8  | 819.5  |
| 7.5°  | 1325.2 | 1257.2 | 1109.3 | 980.3  | 874.6  | 798.0  | 735.3  | 684.5  | 669.0  | 655.3  | 644.1  |
| 10°   | 1354.4 | 1249.5 | 1038.8 | 872.0  | 759.3  | 663.0  | 580.5  | 520.3  | 489.3  | 480.7  | 486.7  |
| 12.5° | 1385.4 | 1234.9 | 964.9  | 772.2  | 642.4  | 519.4  | 442.9  | 412.8  | 404.2  | 400.7  | 401.6  |
| 15°   | 1416.3 | 1216.8 | 887.5  | 675.9  | 511.7  | 414.5  | 379.2  | 371.5  | 368.1  | 366.3  | 364.6  |
| 17.5° | 1444.7 | 1187.6 | 800.6  | 582.2  | 414.5  | 354.3  | 341.4  | 334.5  | 327.6  | 325.1  | 320.8  |
| 20°   | 1478.2 | 1154.0 | 722.4  | 477.3  | 350.9  | 320.8  | 305.3  | 292.4  | 282.1  | 275.2  | 274.3  |
| 22.5° | 1510.1 | 1111.0 | 640.7  | 395.6  | 319.9  | 288.1  | 263.1  | 249.4  | 237.3  | 228.7  | 231.3  |
| 25°   | 1527.3 | 1058.6 | 567.6  | 344.8  | 291.5  | 255.4  | 227.9  | 210.7  | 197.8  | 193.5  | 192.6  |
| 27.5° | 1527.3 | 994.1  | 496.2  | 315.6  | 265.7  | 226.2  | 197.8  | 181.4  | 172.8  | 166.8  | 167.7  |
| 30°   | 1515.2 | 922.7  | 430.0  | 293.2  | 243.4  | 200.4  | 173.7  | 159.1  | 152.2  | 147.9  | 147.1  |
| 32.5° | 1505.8 | 854.8  | 373.2  | 271.7  | 220.1  | 178.0  | 154.8  | 143.6  | 136.7  | 132.4  | 132.4  |
| 35°   | 1520.4 | 796.3  | 329.4  | 250.2  | 198.6  | 160.8  | 140.2  | 129.9  | 123.0  | 119.5  | 118.7  |
| 37.5° | 1559.1 | 743.0  | 295.8  | 227.0  | 178.9  | 146.2  | 129.9  | 117.8  | 110.9  | 106.6  | 104.9  |
| 40°   | 1654.5 | 712.9  | 270.9  | 205.5  | 159.9  | 134.2  | 117.8  | 106.6  | 98.0   | 93.7   | 92.9   |
| 42.5° | 1807.6 | 713.8  | 246.8  | 185.7  | 145.3  | 123.8  | 107.5  | 94.6   | 85.1   | 80.8   | 80.0   |
| 45°   | 2038.1 | 746.4  | 227.9  | 166.8  | 132.4  | 112.7  | 96.3   | 82.6   | 74.0   | 69.7   | 69.7   |
| 47.5° | 2314.1 | 810.1  | 211.5  | 150.5  | 120.4  | 102.3  | 85.1   | 71.4   | 62.8   | 59.3   | 59.3   |
| 50°   | 2613.4 | 892.6  | 195.2  | 133.3  | 110.1  | 91.2   | 73.1   | 61.9   | 55.0   | 52.5   | 52.5   |
| 52.5° | 2918.6 | 992.4  | 178.9  | 119.5  | 98.9   | 79.1   | 62.8   | 55.0   | 49.0   | 47.3   | 46.4   |
| 55°   | 3319.4 | 1119.6 | 161.7  | 104.9  | 86.9   | 67.9   | 55.9   | 48.2   | 41.3   | 38.7   | 37.8   |
| 57.5° | 3936.0 | 1311.4 | 142.8  | 92.0   | 71.4   | 56.8   | 48.2   | 40.4   | 32.7   | 28.4   | 27.5   |
| 60°   | 4679.8 | 1545.3 | 123.0  | 80.8   | 57.6   | 46.4   | 38.7   | 31.0   | 24.1   | 18.9   | 18.1   |
| 62.5° | 5376.4 | 1694.1 | 104.1  | 67.9   | 45.6   | 35.3   | 27.5   | 23.2   | 17.2   | 12.0   | 11.2   |
| 65°   | 5684.2 | 1644.2 | 86.0   | 55.0   | 36.1   | 24.9   | 18.1   | 16.3   | 10.3   | 5.2    | 4.3    |
| 66°   | 5581.9 | 1570.3 | 79.1   | 49.9   | 32.7   | 21.5   | 15.5   | 13.8   | 7.7    | 2.6    | 2.6    |
| 67.5° | 5280.0 | 1395.7 | 68.8   | 43.0   | 28.4   | 17.2   | 12.0   | 10.3   | 4.3    | 0.9    | 0.0    |
| 70°   | 4524.2 | 1129.1 | 54.2   | 31.8   | 20.6   | 12.0   | 6.9    | 5.2    | 2.6    | 0.0    | 0.0    |
| 72.5° | 3475.0 | 841.0  | 43.0   | 24.1   | 14.6   | 6.9    | 3.4    | 1.7    | 2.6    | 0.0    | 0.0    |
| 75°   | 2129.2 | 480.7  | 33.5   | 18.1   | 9.5    | 4.3    | 2.6    | 0.0    | 2.6    | 0.9    | 0.0    |
| 77.5° | 945.1  | 215.8  | 22.4   | 12.0   | 6.9    | 3.4    | 1.7    | 0.0    | 1.7    | 0.9    | 0.0    |
| 80°   | 239.1  | 70.5   | 12.9   | 8.6    | 5.2    | 2.6    | 0.9    | 0.0    | 1.7    | 1.7    | 0.9    |
| 82.5° | 65.4   | 25.8   | 9.5    | 6.9    | 4.3    | 2.6    | 0.9    | 0.0    | 1.7    | 1.7    | 1.7    |
| 85°   | 25.8   | 12.0   | 8.6    | 6.9    | 5.2    | 2.6    | 0.9    | 0.0    | 1.7    | 1.7    | 1.7    |
| 87.5° | 12.0   | 8.6    | 8.6    | 7.7    | 6.0    | 2.6    | 0.9    | 0.0    | 1.7    | 0.9    | 1.7    |
| 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)