

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: P530880

Luminaire Tested: **GLAN-SA6A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P530880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6A-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17988 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 182  
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



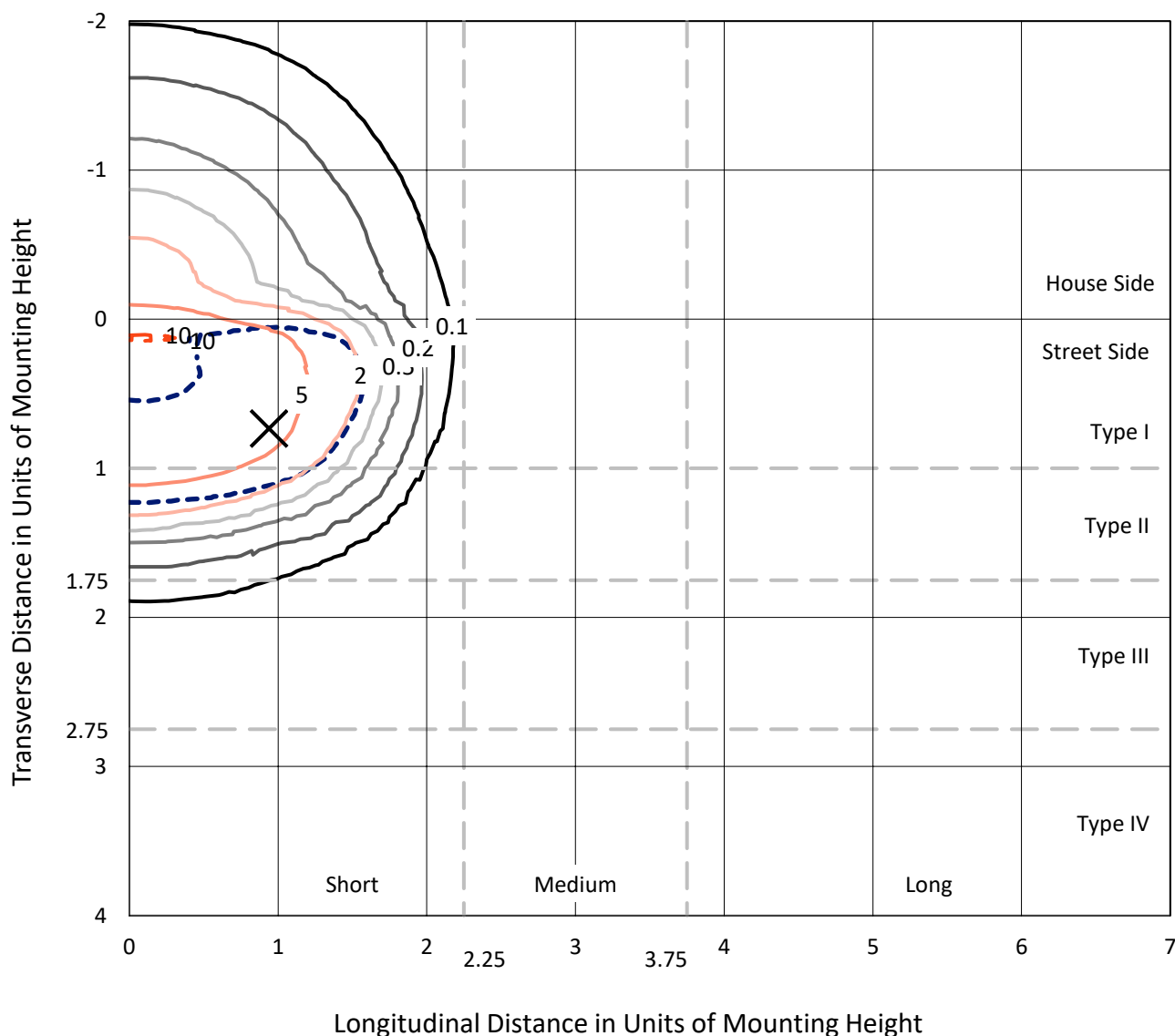
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

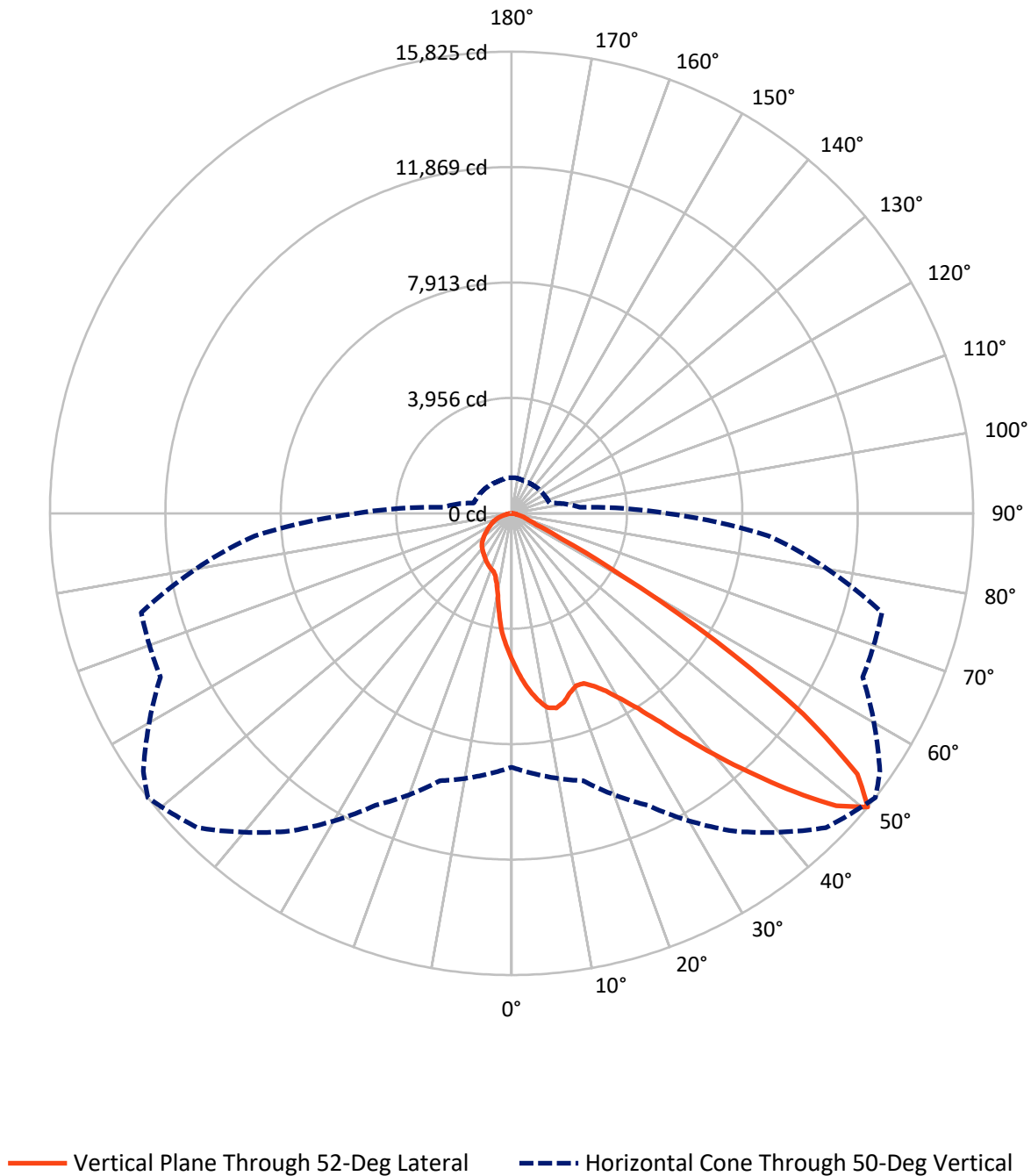


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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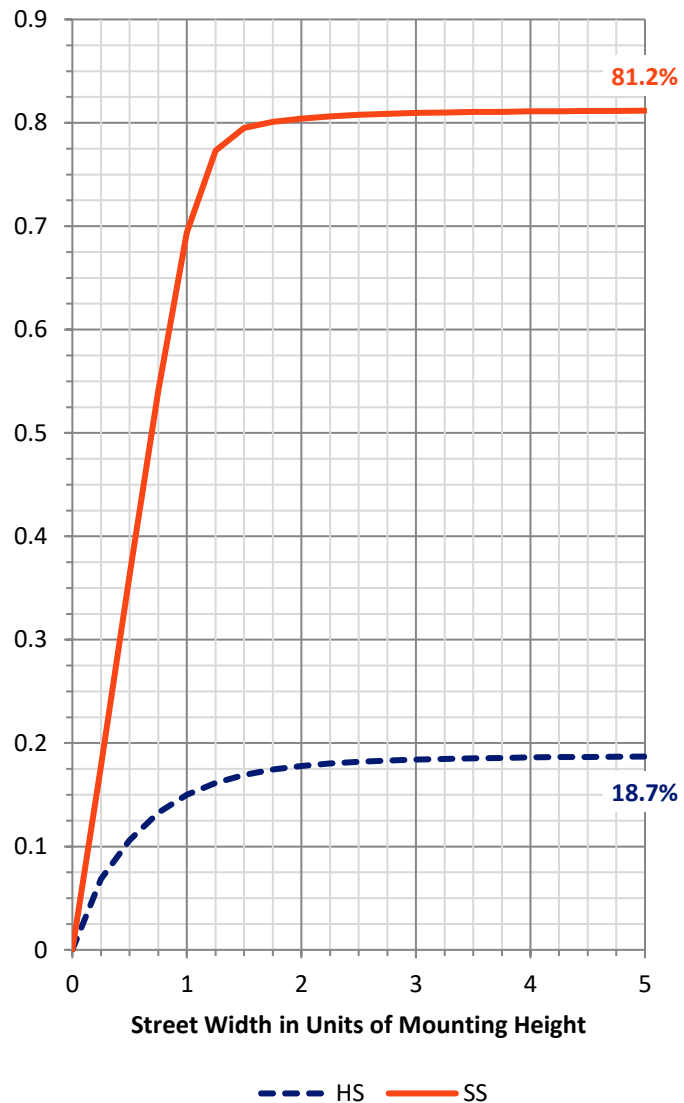
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3381.3   | 0.0    | 3381.3  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 14606.7  | 0.0    | 14606.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 17988.0  | 0.0    | 17988.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 467.3   | 2.6       |
| 10°-20°   | 1252.6  | 7.0       |
| 20°-30°   | 2110.0  | 11.7      |
| 30°-40°   | 3540.7  | 19.7      |
| 40°-50°   | 5416.4  | 30.1      |
| 50°-60°   | 3949.0  | 22.0      |
| 60°-70°   | 878.9   | 4.9       |
| 70°-80°   | 317.0   | 1.8       |
| 80°-90°   | 56.1    | 0.3       |
| 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°    | 17988.0 | 100.0     |
| 0°-180°   | 17988.0 | 100.0     |

**Coefficient of Utilization**



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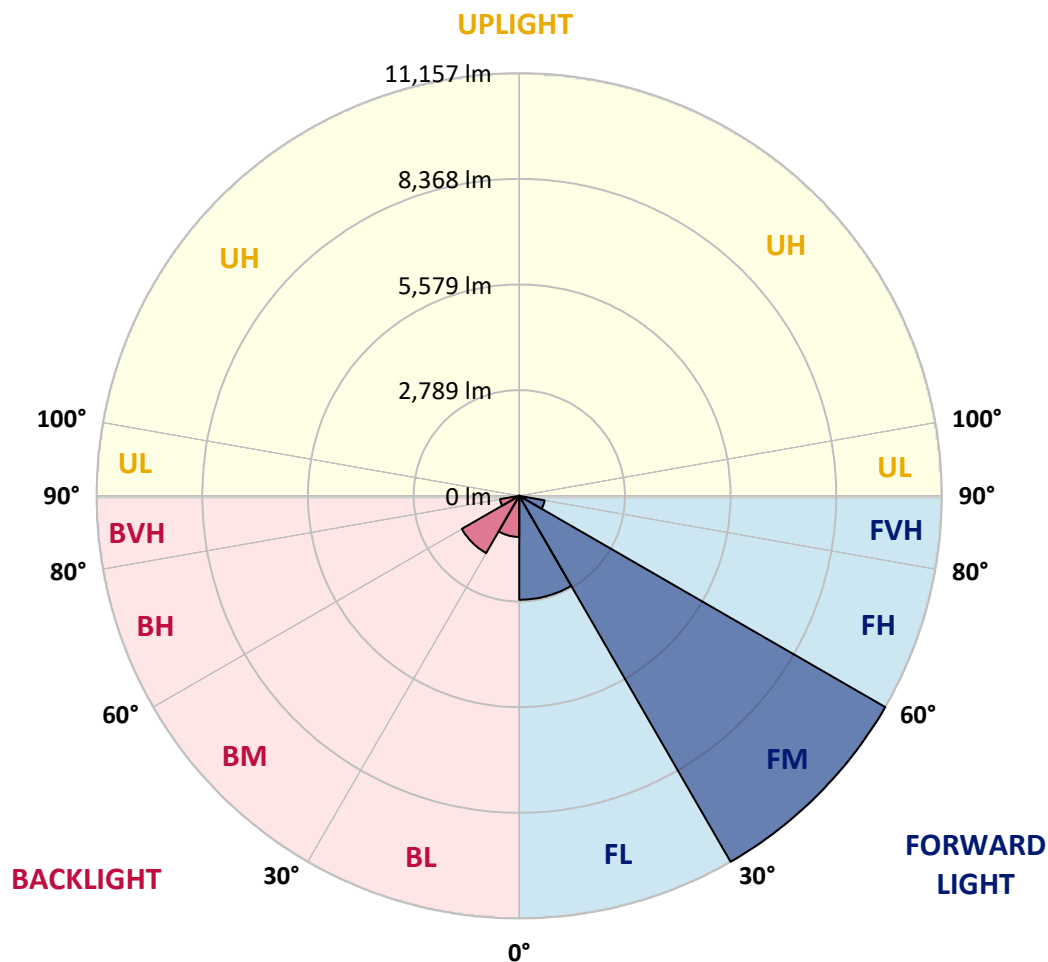
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2743.8  | 15.3      |                         |      |         |
| FM   | (30°-60°)   | 11157.1 | 62.0      |                         |      |         |
| FH   | (60°-80°)   | 680.7   | 3.8       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 25.1    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1086.1  | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1749.1  | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 515.2   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 31.0    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5  | 5070.5 |
| 2.5°  | 5970.2  | 5855.3  | 5868.3  | 5785.9  | 5697.0  | 5671.0  | 5580.0  | 5493.2  | 5428.2  | 5289.5  | 5161.6 |
| 5°    | 6525.1  | 6490.4  | 6438.4  | 6373.4  | 6306.2  | 6141.4  | 6048.2  | 5939.8  | 5701.4  | 5486.7  | 5274.3 |
| 7.5°  | 6605.3  | 6598.8  | 6627.0  | 6627.0  | 6650.9  | 6588.0  | 6455.8  | 6379.9  | 6126.2  | 5777.2  | 5382.7 |
| 10°   | 6041.7  | 6061.2  | 6197.8  | 6375.5  | 6622.7  | 6793.9  | 6772.3  | 6752.7  | 6475.3  | 5998.3  | 5510.6 |
| 12.5° | 5593.0  | 5549.6  | 5629.8  | 5781.6  | 6152.3  | 6566.3  | 6846.0  | 6848.1  | 6776.6  | 6351.7  | 5603.8 |
| 15°   | 5339.3  | 5369.7  | 5391.4  | 5462.9  | 5742.5  | 6221.6  | 6713.7  | 6859.0  | 7173.3  | 6601.0  | 5751.2 |
| 17.5° | 5501.9  | 5400.0  | 5395.7  | 5413.0  | 5556.1  | 5916.0  | 6468.8  | 6718.1  | 7390.1  | 6921.8  | 5933.3 |
| 20°   | 5714.4  | 5712.2  | 5651.5  | 5629.8  | 5627.6  | 5948.5  | 6308.3  | 6646.5  | 7505.0  | 7338.1  | 6117.6 |
| 22.5° | 6087.2  | 6087.2  | 5987.5  | 5939.8  | 5837.9  | 6100.2  | 6330.0  | 6559.8  | 7695.7  | 7624.2  | 6206.5 |
| 25°   | 6711.6  | 6609.7  | 6438.4  | 6321.3  | 6262.8  | 6356.0  | 6559.8  | 6765.8  | 7862.7  | 7927.7  | 6390.7 |
| 27.5° | 7288.2  | 7127.8  | 7043.2  | 6841.6  | 6763.6  | 6709.4  | 6895.8  | 7103.9  | 8057.8  | 8400.3  | 6490.4 |
| 30°   | 7942.9  | 7914.7  | 7762.9  | 7502.8  | 7309.9  | 7210.2  | 7381.4  | 7587.4  | 8415.5  | 8883.7  | 6720.2 |
| 32.5° | 9113.5  | 8857.7  | 8651.7  | 8333.1  | 8018.7  | 7806.3  | 7975.4  | 8112.0  | 9009.4  | 9388.8  | 6971.7 |
| 35°   | 10377.3 | 10295.0 | 9939.4  | 9365.0  | 8883.7  | 8692.9  | 8792.7  | 8894.5  | 9701.0  | 10160.5 | 7394.4 |
| 37.5° | 11619.5 | 11506.8 | 11214.1 | 10730.7 | 10145.4 | 9757.3  | 9828.9  | 9948.1  | 10477.0 | 11201.1 | 7910.4 |
| 40°   | 12512.6 | 12373.9 | 12226.5 | 12154.9 | 11574.0 | 11042.8 | 11001.7 | 11032.0 | 11526.3 | 12176.6 | 8482.7 |
| 42.5° | 12577.7 | 12748.9 | 12794.4 | 13082.8 | 12946.2 | 12510.5 | 12256.8 | 12263.3 | 12527.8 | 13141.3 | 9061.5 |
| 45°   | 12441.1 | 12282.8 | 12618.9 | 13405.8 | 13856.7 | 14060.4 | 13633.4 | 13579.2 | 13147.8 | 13700.6 | 9349.8 |
| 47.5° | 11008.2 | 11051.5 | 11619.5 | 12863.8 | 14166.7 | 15077.2 | 14977.4 | 14797.5 | 13479.5 | 13681.1 | 9304.3 |
| 50°   | 8701.6  | 8963.9  | 9490.7  | 11040.7 | 13299.5 | 15237.6 | 15825.0 | 15408.8 | 13282.2 | 13143.5 | 8840.3 |
| 52.5° | 5794.6  | 5903.0  | 6249.8  | 8250.7  | 10693.8 | 13620.4 | 14849.5 | 14944.9 | 13100.1 | 12438.9 | 8252.9 |
| 55°   | 2579.7  | 2571.0  | 3058.8  | 4309.6  | 6709.4  | 10364.3 | 12133.3 | 12714.2 | 12399.9 | 11721.4 | 7680.6 |
| 57.5° | 1092.6  | 1129.4  | 1328.9  | 1862.2  | 3299.4  | 6254.1  | 8220.4  | 8729.8  | 9536.2  | 9625.1  | 5892.1 |
| 60°   | 739.2   | 743.6   | 797.8   | 932.2   | 1380.9  | 2937.4  | 4311.8  | 4923.1  | 5499.7  | 5460.7  | 3126.0 |
| 62.5° | 581.0   | 596.1   | 637.3   | 691.5   | 819.4   | 1333.2  | 1929.4  | 2269.7  | 2306.6  | 1940.2  | 1185.8 |
| 65°   | 496.4   | 498.6   | 539.8   | 585.3   | 641.7   | 776.1   | 930.0   | 947.3   | 958.2   | 923.5   | 871.5  |
| 67.5° | 409.7   | 414.1   | 446.6   | 498.6   | 550.6   | 594.0   | 637.3   | 659.0   | 708.9   | 806.4   | 793.4  |
| 70°   | 325.2   | 331.7   | 359.9   | 403.2   | 450.9   | 476.9   | 531.1   | 550.6   | 596.1   | 672.0   | 702.4  |
| 72.5° | 247.1   | 249.3   | 273.1   | 303.5   | 346.9   | 372.9   | 418.4   | 440.1   | 470.4   | 535.5   | 563.6  |
| 75°   | 177.8   | 184.3   | 201.6   | 216.8   | 223.3   | 240.6   | 284.0   | 307.8   | 351.2   | 379.4   | 381.5  |
| 77.5° | 93.2    | 97.6    | 101.9   | 101.9   | 123.6   | 156.1   | 184.3   | 197.3   | 227.6   | 249.3   | 238.5  |
| 80°   | 36.9    | 39.0    | 49.9    | 67.2    | 86.7    | 112.7   | 132.2   | 138.7   | 164.8   | 177.8   | 184.3  |
| 82.5° | 21.7    | 23.8    | 32.5    | 47.7    | 62.9    | 80.2    | 95.4    | 101.9   | 119.2   | 134.4   | 138.7  |
| 85°   | 10.8    | 13.0    | 19.5    | 30.3    | 41.2    | 49.9    | 47.7    | 45.5    | 45.5    | 43.4    | 45.5   |
| 87.5° | 4.3     | 4.3     | 6.5     | 6.5     | 6.5     | 8.7     | 10.8    | 10.8    | 10.8    | 13.0    | 13.0   |
| 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°    | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 | 5070.5 |
| 2.5°  | 5077.0 | 4990.3 | 4910.1 | 4762.7 | 4602.3 | 4556.7 | 4370.3 | 4303.1 | 4255.4 | 4199.1 | 4181.7 |
| 5°    | 5103.0 | 4988.1 | 4730.2 | 4433.2 | 4196.9 | 3893.4 | 3694.0 | 3479.3 | 3323.3 | 3284.2 | 3273.4 |
| 7.5°  | 5157.2 | 4960.0 | 4515.6 | 4066.8 | 3583.4 | 3171.5 | 2857.2 | 2688.1 | 2538.5 | 2529.8 | 2514.7 |
| 10°   | 5217.9 | 4875.4 | 4281.4 | 3576.9 | 2959.1 | 2577.5 | 2388.9 | 2315.2 | 2278.4 | 2269.7 | 2265.4 |
| 12.5° | 5267.8 | 4858.1 | 4019.1 | 3100.0 | 2516.8 | 2287.0 | 2230.7 | 2224.2 | 2239.4 | 2243.7 | 2252.4 |
| 15°   | 5289.5 | 4788.7 | 3702.6 | 2672.9 | 2241.5 | 2157.0 | 2180.8 | 2206.8 | 2217.7 | 2245.9 | 2224.2 |
| 17.5° | 5330.7 | 4699.8 | 3312.4 | 2334.7 | 2087.6 | 2102.8 | 2144.0 | 2174.3 | 2191.7 | 2211.2 | 2183.0 |
| 20°   | 5352.3 | 4619.6 | 2946.1 | 2133.1 | 2033.4 | 2061.6 | 2118.0 | 2141.8 | 2163.5 | 2172.2 | 2139.6 |
| 22.5° | 5332.8 | 4454.9 | 2623.1 | 1970.5 | 1981.4 | 2018.2 | 2068.1 | 2094.1 | 2081.1 | 2046.4 | 2026.9 |
| 25°   | 5280.8 | 4222.9 | 2287.0 | 1866.5 | 1907.7 | 1972.7 | 2011.7 | 1992.2 | 1968.4 | 1948.9 | 1942.4 |
| 27.5° | 5278.6 | 3938.9 | 2044.2 | 1771.1 | 1844.8 | 1933.7 | 1920.7 | 1903.3 | 1914.2 | 1899.0 | 1881.7 |
| 30°   | 5289.5 | 3663.6 | 1844.8 | 1716.9 | 1799.3 | 1842.6 | 1857.8 | 1840.5 | 1853.5 | 1825.3 | 1834.0 |
| 32.5° | 5233.1 | 3394.8 | 1714.7 | 1654.0 | 1745.1 | 1742.9 | 1792.8 | 1805.8 | 1775.4 | 1716.9 | 1725.6 |
| 35°   | 5257.0 | 3178.0 | 1604.2 | 1625.9 | 1684.4 | 1684.4 | 1723.4 | 1708.2 | 1628.0 | 1593.3 | 1602.0 |
| 37.5° | 5421.7 | 2965.6 | 1550.0 | 1586.8 | 1625.9 | 1643.2 | 1630.2 | 1565.2 | 1545.7 | 1545.7 | 1550.0 |
| 40°   | 5577.8 | 2783.5 | 1517.5 | 1578.2 | 1571.7 | 1582.5 | 1487.1 | 1493.6 | 1493.6 | 1495.8 | 1485.0 |
| 42.5° | 5716.5 | 2659.9 | 1491.5 | 1526.1 | 1537.0 | 1480.6 | 1422.1 | 1415.6 | 1430.8 | 1428.6 | 1419.9 |
| 45°   | 5766.4 | 2558.0 | 1454.6 | 1467.6 | 1476.3 | 1383.1 | 1354.9 | 1341.9 | 1359.2 | 1365.7 | 1374.4 |
| 47.5° | 5575.6 | 2473.5 | 1413.4 | 1387.4 | 1370.1 | 1309.4 | 1272.5 | 1248.7 | 1270.3 | 1307.2 | 1315.9 |
| 50°   | 5330.7 | 2362.9 | 1348.4 | 1298.5 | 1261.7 | 1235.7 | 1209.6 | 1185.8 | 1201.0 | 1227.0 | 1220.5 |
| 52.5° | 4968.6 | 2189.5 | 1266.0 | 1214.0 | 1151.1 | 1157.6 | 1133.8 | 1120.8 | 1129.4 | 1129.4 | 1122.9 |
| 55°   | 4452.7 | 1799.3 | 1127.3 | 1090.4 | 1038.4 | 1055.7 | 1060.1 | 1042.7 | 1025.4 | 1040.6 | 1027.5 |
| 57.5° | 3039.3 | 1270.3 | 1005.9 | 1005.9 | 953.8  | 977.7  | 975.5  | 934.3  | 893.1  | 897.5  | 888.8  |
| 60°   | 1758.1 | 1012.4 | 927.8  | 919.2  | 865.0  | 884.5  | 888.8  | 860.6  | 797.8  | 802.1  | 793.4  |
| 62.5° | 999.4  | 865.0  | 810.8  | 797.8  | 786.9  | 804.3  | 804.3  | 767.4  | 713.2  | 717.5  | 708.9  |
| 65°   | 849.8  | 802.1  | 724.1  | 721.9  | 717.5  | 721.9  | 704.5  | 665.5  | 617.8  | 598.3  | 600.5  |
| 67.5° | 771.7  | 741.4  | 665.5  | 646.0  | 633.0  | 630.8  | 598.3  | 561.5  | 539.8  | 522.4  | 520.3  |
| 70°   | 676.4  | 652.5  | 596.1  | 570.1  | 557.1  | 526.8  | 494.3  | 470.4  | 440.1  | 431.4  | 440.1  |
| 72.5° | 535.5  | 533.3  | 511.6  | 483.4  | 455.2  | 431.4  | 403.2  | 370.7  | 342.5  | 336.0  | 320.8  |
| 75°   | 370.7  | 375.0  | 379.4  | 375.0  | 351.2  | 320.8  | 288.3  | 262.3  | 227.6  | 208.1  | 203.8  |
| 77.5° | 242.8  | 249.3  | 255.8  | 247.1  | 232.0  | 203.8  | 182.1  | 149.6  | 123.6  | 108.4  | 106.2  |
| 80°   | 177.8  | 186.4  | 190.8  | 184.3  | 166.9  | 145.2  | 121.4  | 95.4   | 75.9   | 62.9   | 62.9   |
| 82.5° | 136.6  | 145.2  | 149.6  | 138.7  | 121.4  | 104.1  | 86.7   | 67.2   | 52.0   | 41.2   | 39.0   |
| 85°   | 47.7   | 45.5   | 54.2   | 56.4   | 67.2   | 62.9   | 52.0   | 39.0   | 30.3   | 21.7   | 19.5   |
| 87.5° | 13.0   | 13.0   | 15.2   | 15.2   | 13.0   | 10.8   | 10.8   | 10.8   | 8.7    | 6.5    | 6.5    |
| 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)