

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: P459184

Luminaire Tested: **GLAN-SA6D-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43152 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

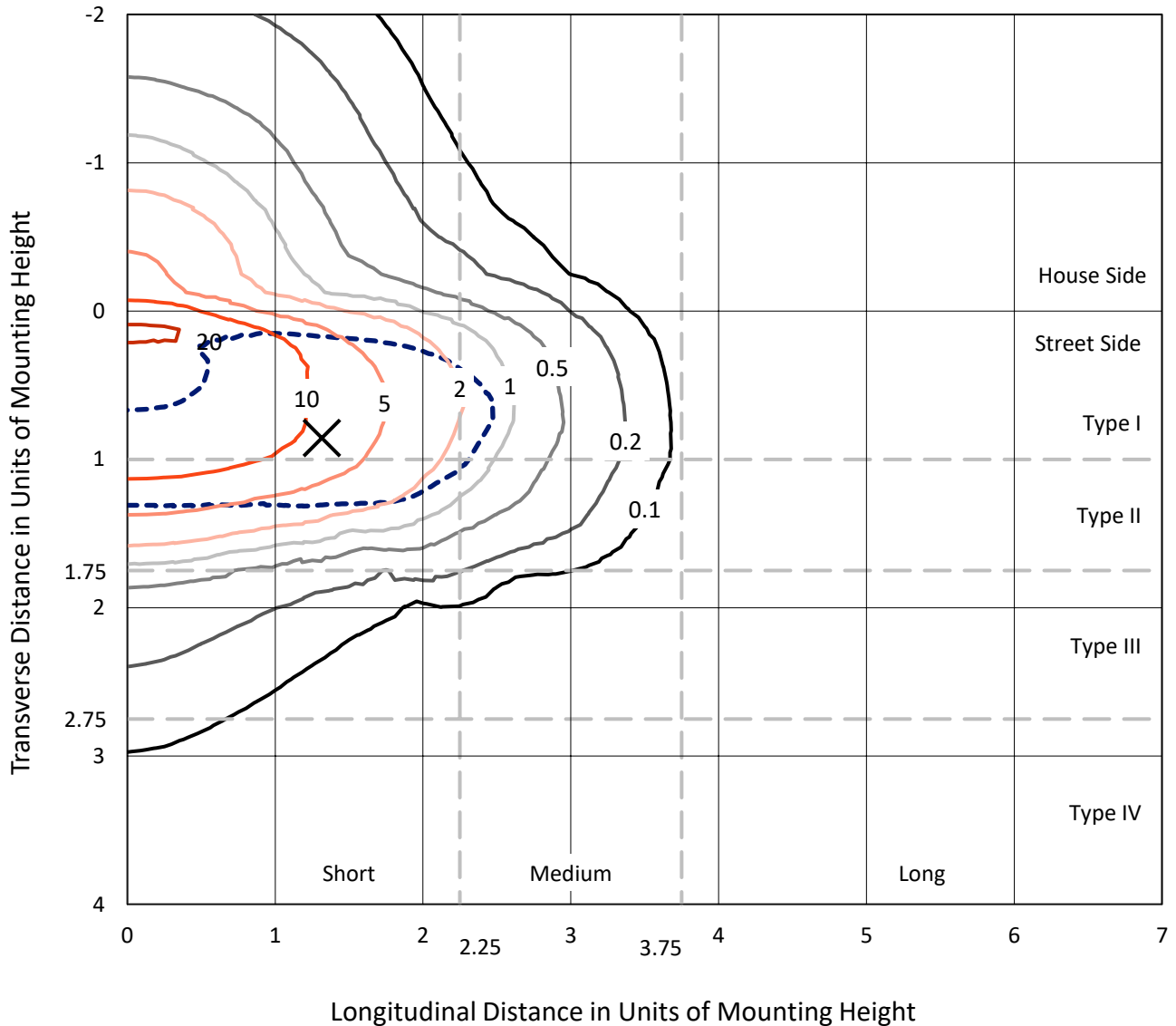
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

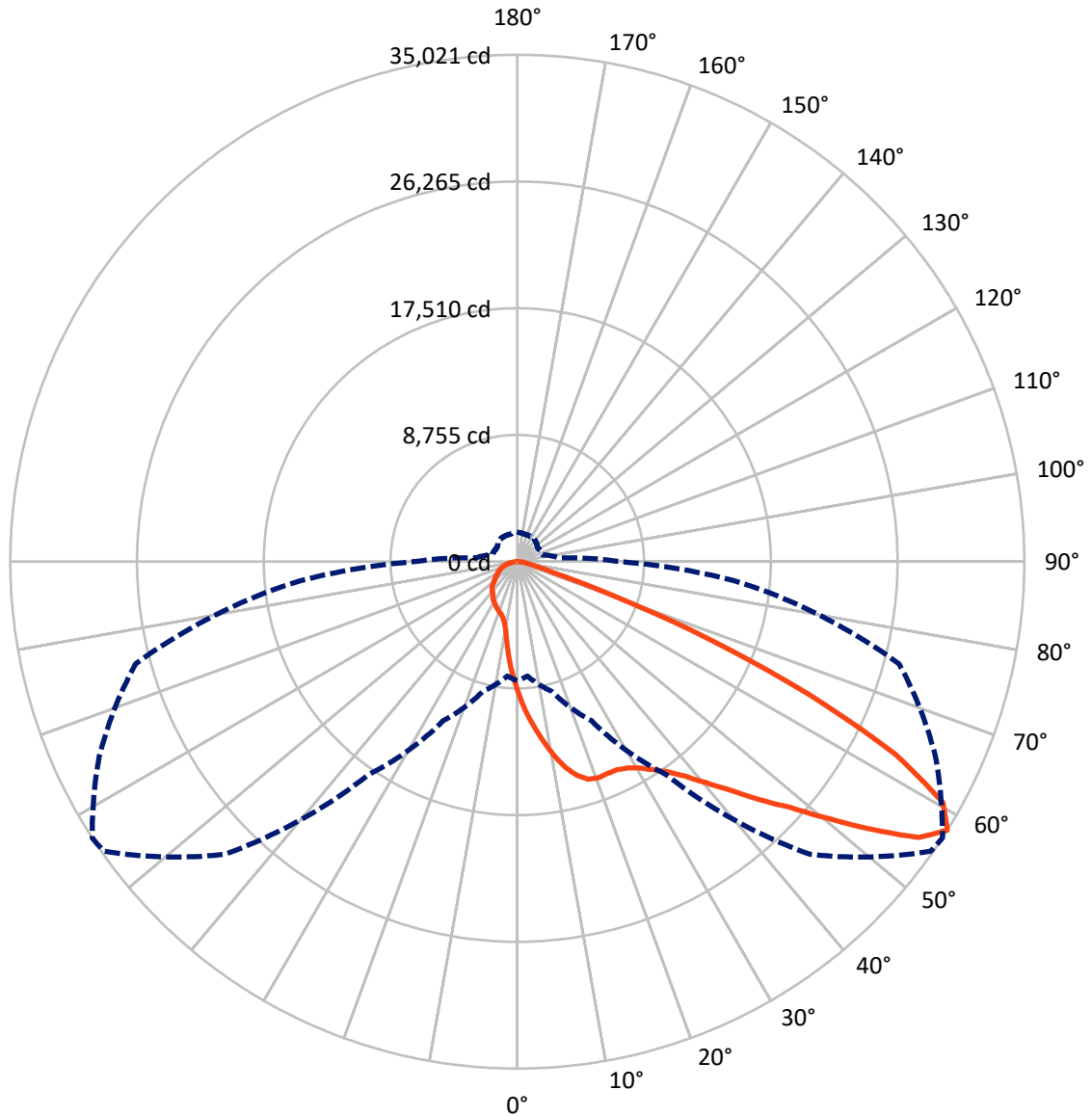
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6562.2   | 0.0    | 6562.2  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 36589.8  | 0.0    | 36589.8 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 43152.0  | 0.0    | 43152.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 871.3   | 2.0       |
| 10°-20°   | 2567.8  | 6.0       |
| 20°-30°   | 4263.9  | 9.9       |
| 30°-40°   | 6422.6  | 14.9      |
| 40°-50°   | 9642.9  | 22.3      |
| 50°-60°   | 10808.5 | 25.0      |
| 60°-70°   | 6325.7  | 14.7      |
| 70°-80°   | 1871.1  | 4.3       |
| 80°-90°   | 378.2   | 0.9       |
| 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°    | 43152.0 | 100.0     |
| 0°-180°   | 43152.0 | 100.0     |

**Coefficient of Utilization**



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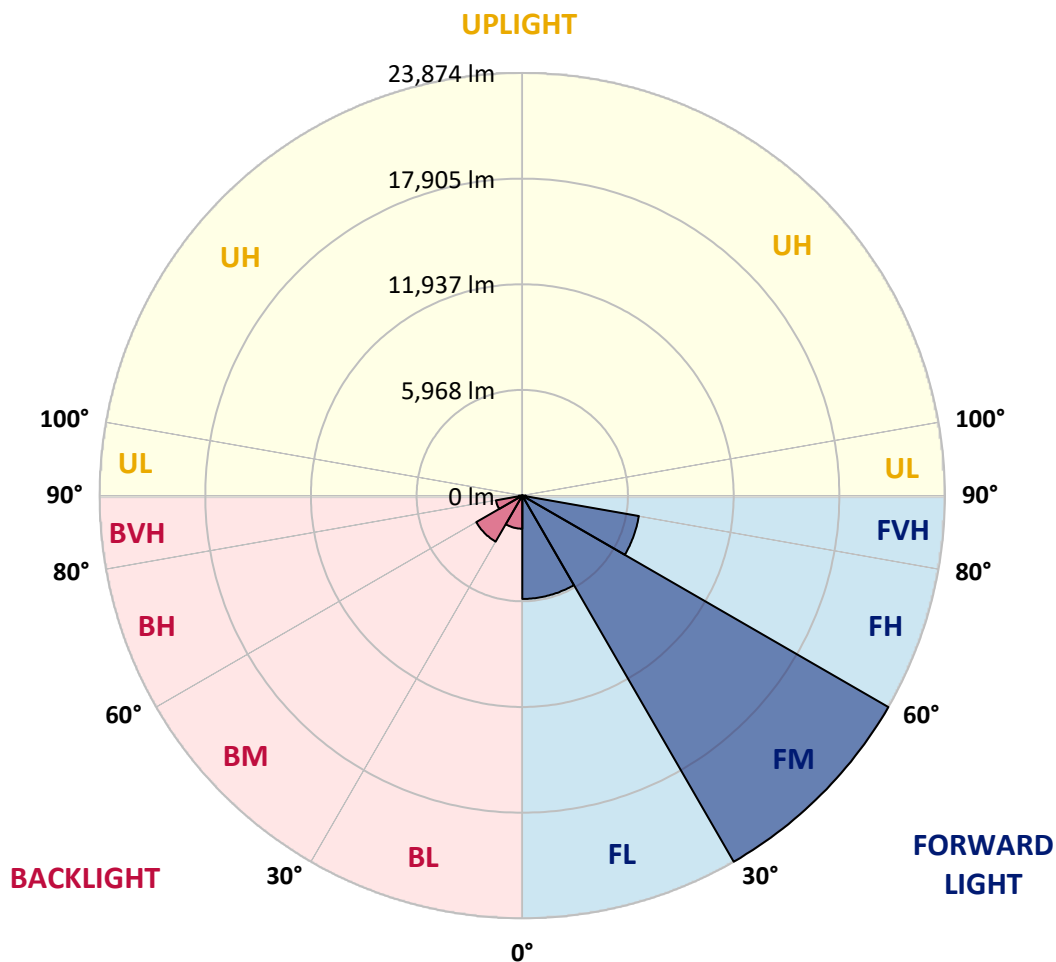
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5833.2  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 23873.6 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 6686.8  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 196.2   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1869.8  | 4.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3000.5  | 7.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1509.9  | 3.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 182.0   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  | 9065.7  |
| 2.5°  | 11264.9 | 11142.0 | 11045.2 | 10960.1 | 10849.1 | 10549.1 | 10249.2 | 10244.4 | 10005.9 | 9637.4  | 9259.4  |
| 5°    | 13100.2 | 12934.9 | 12956.1 | 12691.6 | 12427.0 | 11992.4 | 11357.0 | 11323.9 | 10816.1 | 10126.3 | 9424.8  |
| 7.5°  | 14295.4 | 14297.8 | 14231.7 | 14080.5 | 13794.7 | 13301.0 | 12580.5 | 12417.6 | 11711.3 | 10664.9 | 9613.7  |
| 10°   | 14234.0 | 14297.8 | 14408.8 | 14538.7 | 14626.1 | 14382.8 | 13726.2 | 13527.7 | 12608.9 | 11316.8 | 9824.0  |
| 12.5° | 13416.7 | 13515.9 | 13674.2 | 14000.2 | 14526.9 | 14928.5 | 14704.1 | 14543.5 | 13648.2 | 11966.4 | 10055.5 |
| 15°   | 12906.5 | 12965.6 | 13053.0 | 13272.6 | 13839.5 | 14800.9 | 15382.0 | 15297.0 | 14628.5 | 12701.0 | 10315.3 |
| 17.5° | 12750.6 | 12809.7 | 12838.0 | 12972.7 | 13376.6 | 14361.6 | 15648.9 | 15800.1 | 15497.7 | 13376.6 | 10577.5 |
| 20°   | 12906.5 | 12934.9 | 12934.9 | 13015.2 | 13331.7 | 14104.1 | 15637.1 | 15941.8 | 16211.1 | 14186.8 | 10823.1 |
| 22.5° | 13315.2 | 13327.0 | 13310.4 | 13338.8 | 13575.0 | 14175.0 | 15526.1 | 15904.0 | 16787.4 | 14874.1 | 11014.5 |
| 25°   | 13978.9 | 13997.8 | 13889.2 | 13823.0 | 13995.4 | 14486.8 | 15587.5 | 15934.7 | 17238.6 | 15530.8 | 11142.0 |
| 27.5° | 14732.4 | 14756.0 | 14623.8 | 14470.2 | 14550.5 | 14871.8 | 15828.4 | 16140.2 | 17576.4 | 16178.0 | 11222.3 |
| 30°   | 15656.0 | 15665.4 | 15443.4 | 15259.2 | 15207.2 | 15445.8 | 16239.4 | 16530.0 | 17996.8 | 16941.0 | 11342.8 |
| 32.5° | 16600.8 | 16671.7 | 16385.9 | 16126.1 | 16038.7 | 16111.9 | 16846.5 | 17127.6 | 18497.6 | 17760.6 | 11536.5 |
| 35°   | 17885.8 | 17897.6 | 17555.1 | 17238.6 | 16950.4 | 17044.9 | 17623.6 | 17826.8 | 19189.7 | 18707.8 | 11810.5 |
| 37.5° | 19489.7 | 19598.3 | 19125.9 | 18535.4 | 18181.1 | 18044.1 | 18563.7 | 18785.8 | 20160.5 | 19870.0 | 12223.9 |
| 40°   | 21270.7 | 21310.9 | 20907.0 | 20538.5 | 19891.2 | 19494.4 | 19853.5 | 20094.4 | 21358.1 | 21256.5 | 12703.4 |
| 42.5° | 22390.3 | 22477.7 | 22508.5 | 22470.7 | 21984.1 | 21318.0 | 21455.0 | 21568.3 | 22775.4 | 22558.1 | 13194.7 |
| 45°   | 22768.3 | 22898.2 | 23337.6 | 24268.2 | 24320.2 | 23663.5 | 23344.6 | 23453.3 | 24320.2 | 23871.4 | 13664.8 |
| 47.5° | 22142.3 | 22364.4 | 23174.6 | 25083.1 | 26512.2 | 26561.8 | 25600.4 | 25361.9 | 25728.0 | 24960.3 | 14004.9 |
| 50°   | 20524.3 | 20571.5 | 21811.6 | 24575.3 | 27539.7 | 29332.6 | 28338.1 | 27894.0 | 27064.9 | 25765.8 | 14238.7 |
| 52.5° | 18020.5 | 18074.8 | 19114.1 | 22215.6 | 26906.7 | 31269.5 | 31541.1 | 30747.5 | 28423.2 | 26391.7 | 14392.3 |
| 55°   | 13376.6 | 13690.7 | 14834.0 | 17831.5 | 23906.8 | 31087.6 | 34087.5 | 33636.3 | 30064.8 | 26887.8 | 14633.2 |
| 57.5° | 8224.8  | 7936.7  | 9292.5  | 12131.7 | 17980.3 | 28588.5 | 34874.1 | 35020.5 | 31871.8 | 27303.5 | 15037.1 |
| 60°   | 3784.1  | 3840.8  | 4400.6  | 6257.2  | 10960.1 | 22364.4 | 32847.4 | 33773.3 | 32871.0 | 27289.3 | 15138.7 |
| 62.5° | 2607.8  | 2555.8  | 2414.1  | 2747.1  | 4998.2  | 14144.3 | 27745.2 | 29313.7 | 30867.9 | 26441.4 | 14734.8 |
| 65°   | 2331.4  | 2279.4  | 2005.4  | 1913.3  | 2296.0  | 6165.1  | 20170.0 | 22149.4 | 25990.2 | 24301.3 | 13728.5 |
| 67.5° | 2177.9  | 2107.0  | 1823.5  | 1644.0  | 1639.3  | 2454.2  | 11893.2 | 14276.5 | 19277.1 | 20545.5 | 11895.5 |
| 70°   | 2017.2  | 1960.5  | 1679.5  | 1481.0  | 1396.0  | 1542.5  | 5227.3  | 6843.0  | 12516.8 | 14805.6 | 9266.5  |
| 72.5° | 1856.6  | 1790.5  | 1537.7  | 1325.1  | 1214.1  | 1155.1  | 2003.1  | 2605.4  | 7072.1  | 8876.8  | 5680.9  |
| 75°   | 1622.8  | 1589.7  | 1374.7  | 1199.9  | 1079.5  | 933.0   | 1270.8  | 1450.3  | 3382.5  | 4077.0  | 2851.1  |
| 77.5° | 1419.6  | 1384.2  | 1221.2  | 1048.8  | 961.4   | 758.2   | 902.3   | 985.0   | 1426.7  | 1653.5  | 1287.3  |
| 80°   | 1039.3  | 1074.8  | 1029.9  | 925.9   | 857.4   | 595.2   | 607.1   | 675.6   | 848.0   | 937.8   | 786.6   |
| 82.5° | 659.0   | 725.2   | 793.7   | 713.4   | 649.6   | 470.1   | 420.5   | 446.4   | 578.7   | 614.1   | 349.6   |
| 85°   | 276.4   | 281.1   | 460.6   | 434.6   | 370.8   | 278.7   | 252.7   | 266.9   | 309.4   | 323.6   | 163.0   |
| 87.5° | 106.3   | 103.9   | 163.0   | 151.2   | 115.7   | 80.3    | 80.3    | 89.8    | 122.8   | 113.4   | 52.0    |
| 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°    | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 | 9065.7 |
| 2.5°  | 9096.4 | 8928.7 | 8595.7 | 8182.3 | 7880.0 | 7539.8 | 7239.8 | 7024.9 | 6944.6 | 6906.8 | 6835.9 |
| 5°    | 9089.4 | 8758.7 | 8068.9 | 7346.1 | 6765.1 | 6169.8 | 5666.7 | 5340.7 | 5312.4 | 5095.1 | 5073.8 |
| 7.5°  | 9091.7 | 8586.2 | 7487.9 | 6424.9 | 5539.1 | 4929.7 | 4514.0 | 4405.3 | 4275.4 | 4242.3 | 4258.9 |
| 10°   | 9098.8 | 8366.6 | 6864.3 | 5513.1 | 4655.7 | 4256.5 | 4100.6 | 4058.1 | 4062.8 | 4077.0 | 4079.3 |
| 12.5° | 9108.3 | 8154.0 | 6217.0 | 4821.0 | 4159.7 | 3994.3 | 3977.8 | 4015.6 | 4055.7 | 4086.4 | 4093.5 |
| 15°   | 9120.1 | 7910.7 | 5586.4 | 4263.6 | 3911.6 | 3897.5 | 3951.8 | 4015.6 | 4072.3 | 4117.1 | 4124.2 |
| 17.5° | 9105.9 | 7627.2 | 5057.3 | 3921.1 | 3774.6 | 3843.1 | 3932.9 | 4013.2 | 4065.2 | 4107.7 | 4112.4 |
| 20°   | 9072.8 | 7310.7 | 4547.0 | 3680.2 | 3689.6 | 3800.6 | 3897.5 | 3973.1 | 4029.7 | 4051.0 | 4067.5 |
| 22.5° | 8945.3 | 6932.8 | 4103.0 | 3493.5 | 3588.0 | 3741.6 | 3857.3 | 3902.2 | 3838.4 | 3793.5 | 3805.3 |
| 25°   | 8728.0 | 6441.4 | 3689.6 | 3342.4 | 3495.9 | 3658.9 | 3777.0 | 3668.3 | 3616.4 | 3597.5 | 3606.9 |
| 27.5° | 8456.3 | 5902.9 | 3377.8 | 3184.1 | 3377.8 | 3566.8 | 3533.7 | 3514.8 | 3491.2 | 3460.5 | 3467.6 |
| 30°   | 8163.4 | 5376.1 | 3113.2 | 3061.3 | 3250.3 | 3358.9 | 3373.1 | 3403.8 | 3377.8 | 3330.6 | 3349.5 |
| 32.5° | 7891.8 | 4880.1 | 2912.5 | 2957.3 | 3160.5 | 3144.0 | 3250.3 | 3285.7 | 3165.2 | 3007.0 | 3014.0 |
| 35°   | 7660.3 | 4419.5 | 2761.3 | 2855.8 | 3007.0 | 3014.0 | 3120.3 | 2997.5 | 2867.6 | 2792.0 | 2796.7 |
| 37.5° | 7485.5 | 4060.5 | 2662.1 | 2768.4 | 2810.9 | 2900.7 | 2844.0 | 2780.2 | 2763.7 | 2711.7 | 2714.1 |
| 40°   | 7381.6 | 3746.3 | 2598.3 | 2699.9 | 2692.8 | 2754.2 | 2572.3 | 2636.1 | 2659.7 | 2643.2 | 2645.6 |
| 42.5° | 7277.6 | 3524.3 | 2532.2 | 2605.4 | 2603.0 | 2482.6 | 2442.4 | 2496.7 | 2558.2 | 2565.2 | 2560.5 |
| 45°   | 7195.0 | 3351.8 | 2463.7 | 2461.3 | 2508.6 | 2319.6 | 2307.8 | 2340.8 | 2428.2 | 2470.8 | 2468.4 |
| 47.5° | 7102.8 | 3207.7 | 2359.7 | 2293.6 | 2307.8 | 2218.0 | 2199.1 | 2213.3 | 2319.6 | 2388.1 | 2407.0 |
| 50°   | 6987.1 | 3063.6 | 2229.8 | 2140.1 | 2081.0 | 2123.5 | 2128.3 | 2130.6 | 2236.9 | 2314.9 | 2331.4 |
| 52.5° | 6895.0 | 2955.0 | 2081.0 | 2014.9 | 1944.0 | 2038.5 | 2073.9 | 2078.6 | 2142.4 | 2206.2 | 2218.0 |
| 55°   | 6949.3 | 2893.6 | 1934.6 | 1887.3 | 1823.5 | 1951.1 | 2019.6 | 2029.0 | 2043.2 | 2090.5 | 2097.5 |
| 57.5° | 7112.3 | 2907.7 | 1816.5 | 1755.0 | 1707.8 | 1847.2 | 1962.9 | 1970.0 | 1960.5 | 2017.2 | 2026.7 |
| 60°   | 7161.9 | 2900.7 | 1729.1 | 1608.6 | 1580.2 | 1736.1 | 1880.2 | 1894.4 | 1892.0 | 1974.7 | 1991.3 |
| 62.5° | 6954.0 | 2810.9 | 1641.7 | 1485.8 | 1466.9 | 1622.8 | 1764.5 | 1821.2 | 1833.0 | 1951.1 | 1972.4 |
| 65°   | 6465.1 | 2626.7 | 1525.9 | 1355.8 | 1355.8 | 1502.3 | 1653.5 | 1731.4 | 1764.5 | 1922.7 | 1946.4 |
| 67.5° | 5820.2 | 2409.3 | 1407.8 | 1244.8 | 1240.1 | 1386.6 | 1535.4 | 1615.7 | 1667.6 | 1882.6 | 1896.8 |
| 70°   | 4830.5 | 2116.4 | 1261.4 | 1124.4 | 1124.4 | 1256.6 | 1391.3 | 1488.1 | 1563.7 | 1807.0 | 1807.0 |
| 72.5° | 3309.3 | 1759.8 | 1084.2 | 987.4  | 989.7  | 1112.5 | 1249.6 | 1358.2 | 1448.0 | 1655.8 | 1660.6 |
| 75°   | 2092.8 | 1374.7 | 890.5  | 840.9  | 850.4  | 966.1  | 1107.8 | 1221.2 | 1400.7 | 1636.9 | 1644.0 |
| 77.5° | 1112.5 | 966.1  | 708.6  | 696.8  | 708.6  | 814.9  | 973.2  | 1129.1 | 1405.4 | 1419.6 | 1396.0 |
| 80°   | 720.4  | 685.0  | 559.8  | 536.2  | 540.9  | 656.7  | 866.9  | 1072.4 | 1129.1 | 1143.3 | 1091.3 |
| 82.5° | 392.1  | 434.6  | 396.8  | 373.2  | 373.2  | 512.6  | 739.3  | 852.7  | 810.2  | 673.2  | 642.5  |
| 85°   | 167.7  | 203.1  | 205.5  | 179.5  | 172.4  | 316.5  | 496.0  | 465.3  | 432.3  | 413.4  | 408.6  |
| 87.5° | 47.2   | 66.1   | 66.1   | 49.6   | 37.8   | 87.4   | 99.2   | 28.3   | 0.0    | 2.4    | 4.7    |
| 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)