

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: P383345

Luminaire Tested: **GAN-SA6C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41056.1 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

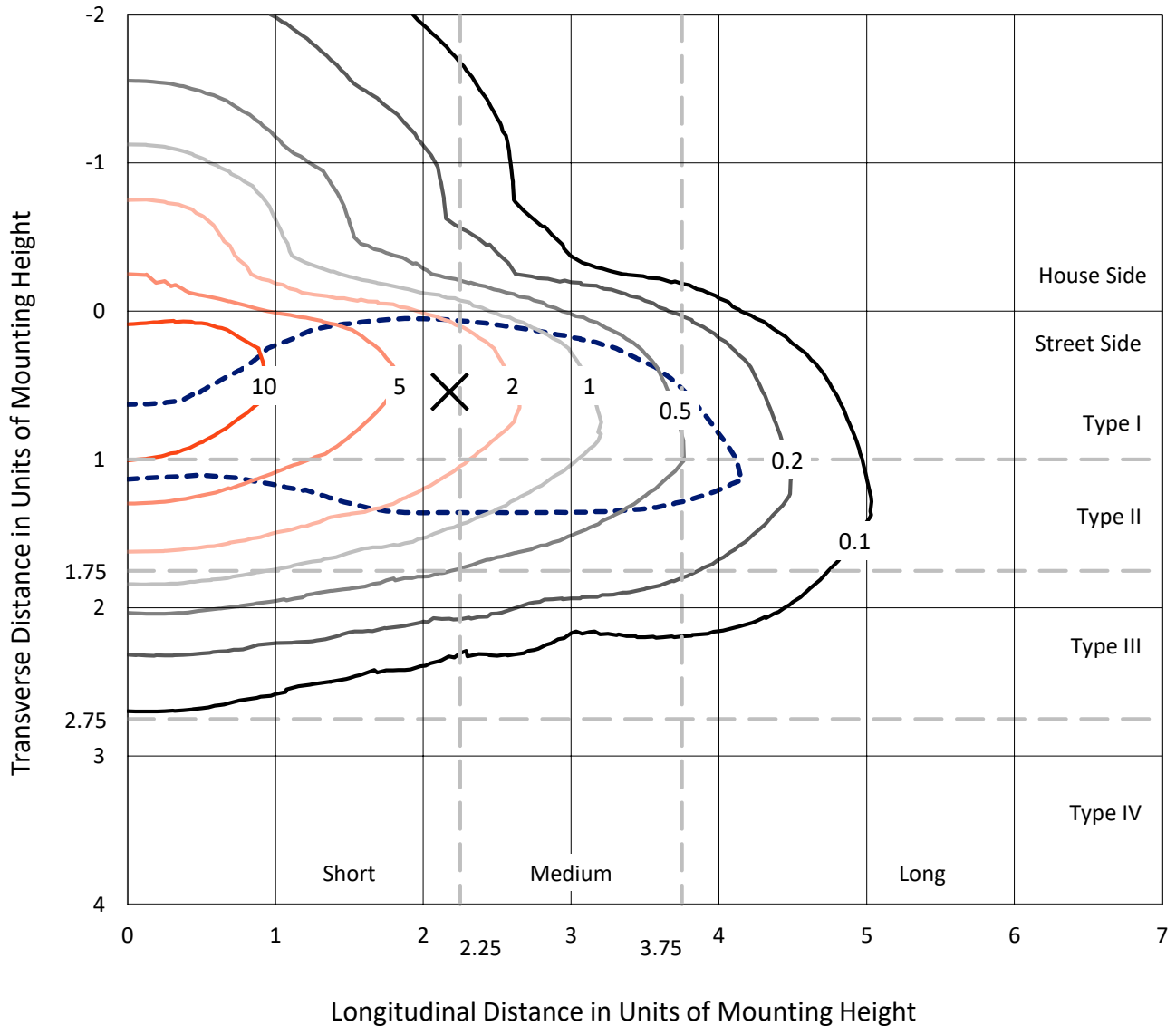
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

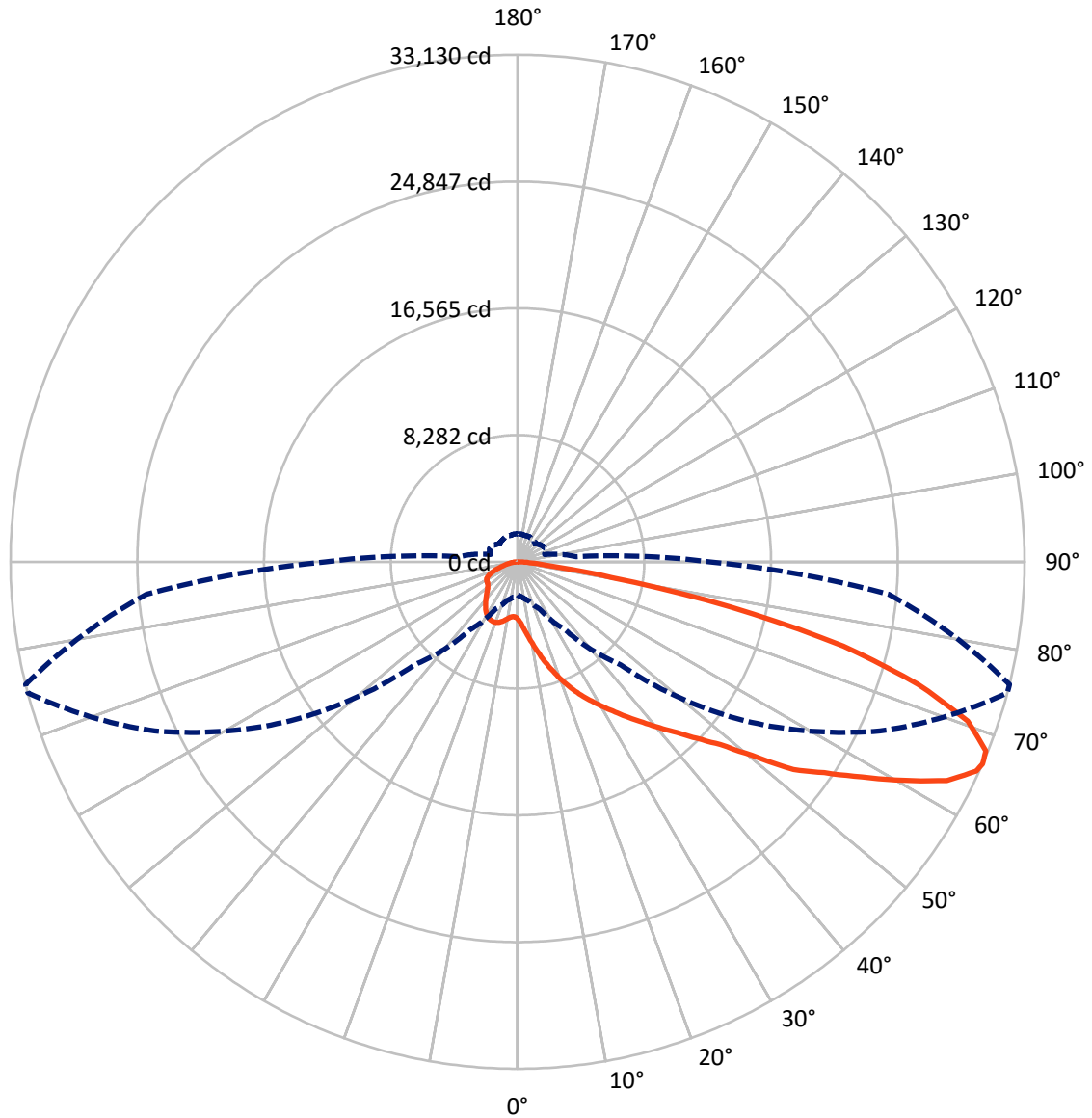
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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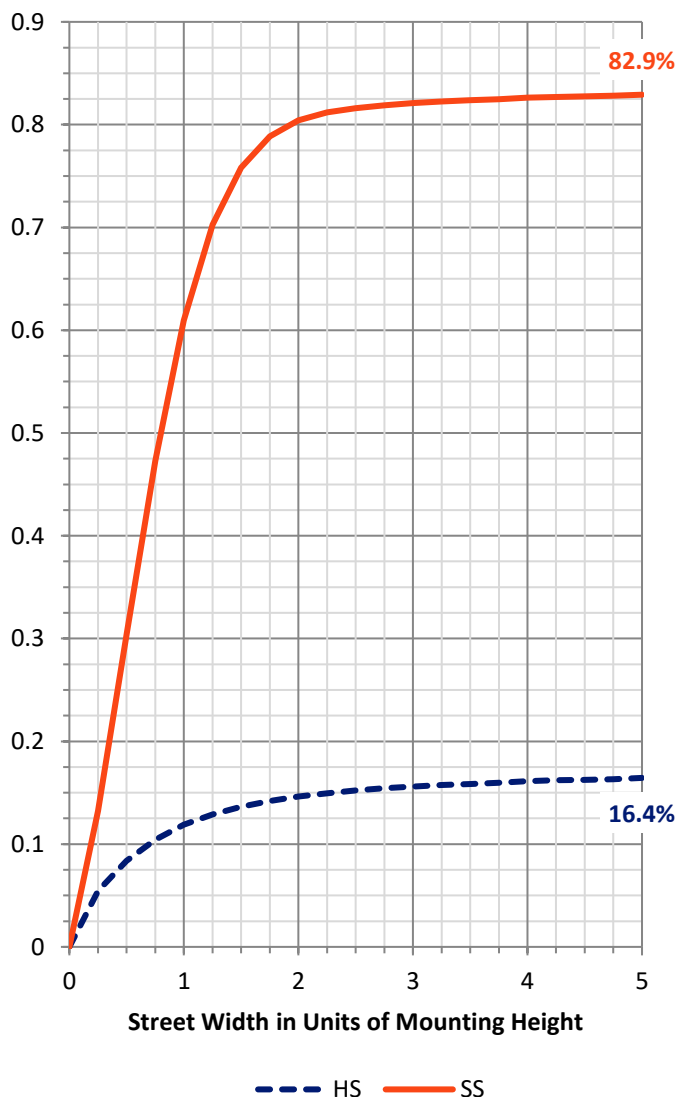
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6908.3   | 0.0    | 6908.3  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 34147.8  | 0.0    | 34147.8 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 41056.1  | 0.0    | 41056.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 453.4   | 1.1       |
| 10°-20°   | 1790.4  | 4.4       |
| 20°-30°   | 3479.3  | 8.5       |
| 30°-40°   | 5678.9  | 13.8      |
| 40°-50°   | 7758.8  | 18.9      |
| 50°-60°   | 9037.4  | 22.0      |
| 60°-70°   | 8102.2  | 19.7      |
| 70°-80°   | 4094.5  | 10.0      |
| 80°-90°   | 661.2   | 1.6       |
| 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°    | 41056.1 | 100.0     |
| 0°-180°   | 41056.1 | 100.0     |

**Coefficient of Utilization**



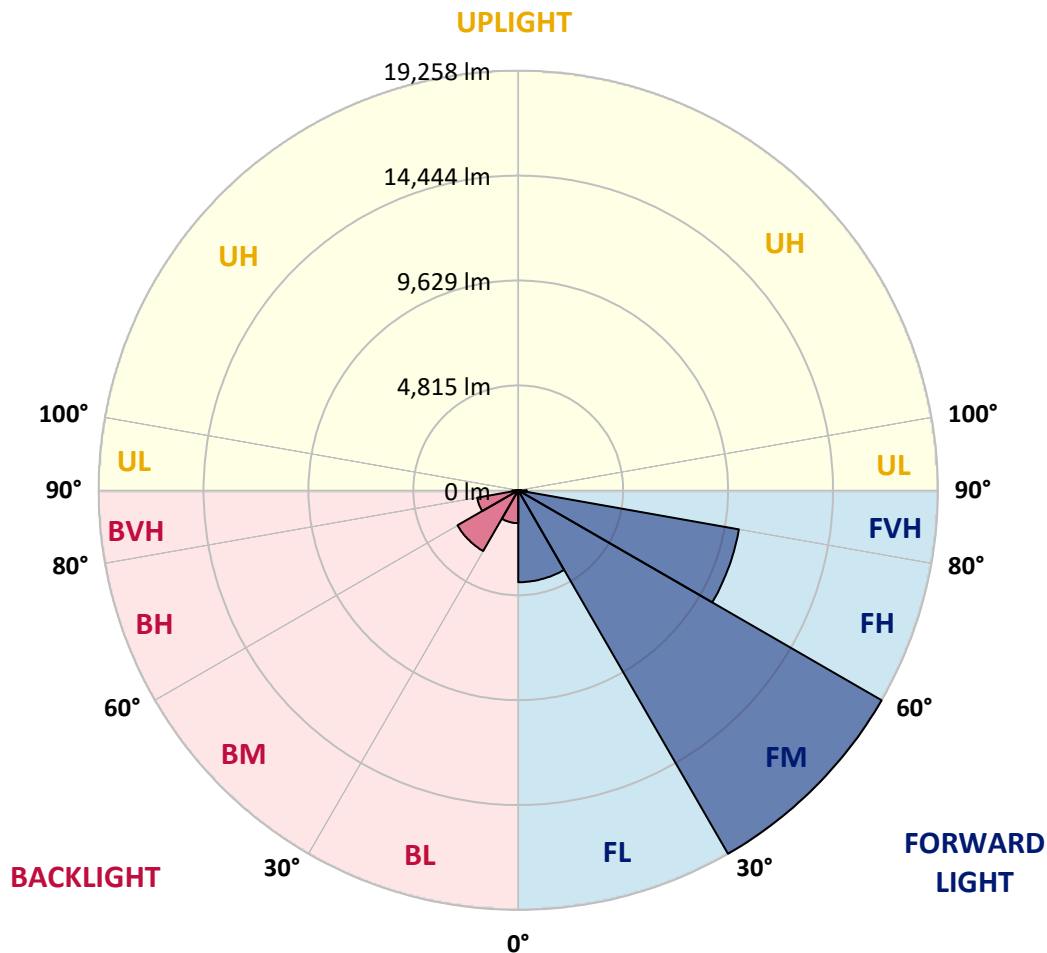
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 4216.4  | 10.3      |                         |      |          |
| FM (30°-60°)   | 19258.2 | 46.9      |                         |      |          |
| FH (60°-80°)   | 10282.8 | 25.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 390.5   | 1.0       |                         |      | G3/500   |
| BL (0°-30°)    | 1506.7  | 3.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 3216.9  | 7.8       | B3/5000                 |      |          |
| BH (60°-80°)   | 1913.9  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 270.7   | 0.7       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  | 3749.4  |
| 2.5°  | 4977.3  | 4902.0  | 4895.1  | 4785.0  | 4759.8  | 4549.4  | 4394.7  | 4233.0  | 4049.0  | 4012.7  | 3867.8  |
| 5°    | 6393.4  | 6386.4  | 6290.3  | 6110.5  | 5969.7  | 5610.1  | 5254.7  | 4878.3  | 4465.7  | 4398.9  | 4072.7  |
| 7.5°  | 7667.4  | 7656.2  | 7582.3  | 7388.6  | 7185.1  | 6743.3  | 6235.9  | 5658.9  | 4989.8  | 4890.9  | 4350.0  |
| 10°   | 8634.6  | 8630.5  | 8605.4  | 8463.2  | 8290.4  | 7866.6  | 7306.3  | 6518.9  | 5599.0  | 5463.7  | 4697.1  |
| 12.5° | 9381.7  | 9390.1  | 9406.9  | 9356.7  | 9274.4  | 8913.4  | 8339.1  | 7430.4  | 6248.4  | 6114.7  | 5083.3  |
| 15°   | 9887.7  | 9912.8  | 9999.2  | 10070.3 | 10113.4 | 9891.8  | 9335.7  | 8362.9  | 6976.0  | 6815.8  | 5511.1  |
| 17.5° | 10142.8 | 10170.6 | 10319.8 | 10534.4 | 10732.4 | 10710.0 | 10268.2 | 9252.1  | 7674.3  | 7519.6  | 5971.0  |
| 20°   | 10363.0 | 10383.9 | 10551.2 | 10809.0 | 11158.8 | 11313.6 | 11065.5 | 10107.9 | 8439.5  | 8255.6  | 6458.9  |
| 22.5° | 11001.3 | 11027.8 | 11078.0 | 11224.3 | 11533.8 | 11818.1 | 11698.3 | 10917.7 | 9140.6  | 8969.1  | 6921.7  |
| 25°   | 12233.5 | 12265.5 | 12156.8 | 12032.8 | 12091.3 | 12289.3 | 12311.5 | 11656.5 | 9851.5  | 9657.7  | 7419.2  |
| 27.5° | 13717.9 | 13763.9 | 13578.5 | 13259.3 | 12980.6 | 12903.9 | 12877.4 | 12261.3 | 10530.2 | 10305.8 | 7911.3  |
| 30°   | 15171.6 | 15251.0 | 15009.9 | 14596.0 | 14084.4 | 13724.9 | 13458.6 | 12853.7 | 11199.3 | 10984.6 | 8375.4  |
| 32.5° | 16591.9 | 16559.8 | 16210.0 | 15805.8 | 15206.5 | 14756.3 | 14112.3 | 13489.3 | 11951.9 | 11705.2 | 8836.8  |
| 35°   | 17564.8 | 17576.0 | 17251.1 | 16771.7 | 16200.3 | 15854.6 | 14987.7 | 14175.1 | 12719.9 | 12492.7 | 9360.8  |
| 37.5° | 18392.8 | 18341.1 | 17973.2 | 17525.8 | 17033.7 | 16886.0 | 16012.1 | 14930.5 | 13552.0 | 13303.9 | 9918.4  |
| 40°   | 18668.7 | 18608.8 | 18367.6 | 18045.7 | 17651.2 | 17638.7 | 17142.4 | 15786.3 | 14492.8 | 14247.6 | 10547.0 |
| 42.5° | 18501.5 | 18424.8 | 18325.8 | 18238.0 | 18116.7 | 18172.4 | 18204.6 | 16789.8 | 15527.0 | 15252.4 | 11274.5 |
| 45°   | 17883.9 | 17768.2 | 17838.0 | 18028.9 | 18292.3 | 18607.4 | 19163.5 | 17900.7 | 16685.3 | 16455.3 | 12128.9 |
| 47.5° | 16934.8 | 16830.3 | 17047.7 | 17456.1 | 18172.4 | 18969.8 | 20070.8 | 19127.3 | 18067.9 | 17839.3 | 13345.7 |
| 50°   | 15599.5 | 15630.2 | 15941.0 | 16683.9 | 17766.8 | 19137.0 | 21188.7 | 20751.1 | 20077.8 | 19864.6 | 15005.7 |
| 52.5° | 13408.4 | 13414.0 | 14289.4 | 15509.0 | 17047.7 | 19050.6 | 21808.9 | 22826.5 | 22822.3 | 22564.4 | 16586.3 |
| 55°   | 11373.5 | 11497.5 | 12190.2 | 13811.2 | 15882.4 | 18704.9 | 22242.4 | 23835.5 | 24624.4 | 24322.0 | 18059.6 |
| 57.5° | 9385.9  | 9458.4  | 10114.8 | 11742.8 | 14219.6 | 17783.6 | 22687.0 | 25046.8 | 26701.2 | 26510.3 | 19891.1 |
| 60°   | 7125.1  | 7236.6  | 7915.5  | 9419.3  | 12092.7 | 16148.7 | 22728.8 | 26310.9 | 29183.6 | 28991.3 | 21935.8 |
| 62.5° | 4624.7  | 4817.0  | 5452.6  | 6861.7  | 9519.8  | 13797.3 | 21758.7 | 27137.5 | 31536.3 | 31468.1 | 23750.6 |
| 65°   | 2658.0  | 2802.9  | 3244.8  | 4332.0  | 6567.6  | 10845.3 | 19452.0 | 26819.7 | 32984.5 | 32945.5 | 24429.3 |
| 66°   | 2171.5  | 2262.2  | 2600.9  | 3385.5  | 5419.1  | 9523.9  | 18111.1 | 26149.3 | 33128.1 | 33129.5 | 24351.2 |
| 67.5° | 1736.7  | 1777.1  | 1929.0  | 2423.8  | 3998.9  | 7548.9  | 15715.2 | 24670.5 | 32949.7 | 32998.4 | 23848.1 |
| 70°   | 1437.0  | 1458.0  | 1505.3  | 1625.2  | 2182.7  | 4552.2  | 11154.6 | 20827.7 | 31158.6 | 31196.2 | 21884.2 |
| 72.5° | 1289.3  | 1301.8  | 1319.9  | 1336.7  | 1540.1  | 2543.7  | 6813.0  | 16661.6 | 27318.7 | 27367.5 | 18891.7 |
| 75°   | 1168.0  | 1175.0  | 1172.2  | 1173.6  | 1292.1  | 1621.0  | 3520.8  | 12439.8 | 22089.1 | 21991.5 | 14472.0 |
| 77.5° | 1025.8  | 1032.8  | 1018.8  | 1021.6  | 1142.9  | 1246.0  | 1752.1  | 8708.5  | 14906.8 | 14218.2 | 8153.7  |
| 80°   | 867.0   | 872.5   | 867.0   | 876.7   | 995.2   | 940.9   | 1018.8  | 4899.2  | 6591.4  | 6234.5  | 2899.2  |
| 82.5° | 655.1   | 678.8   | 695.5   | 734.5   | 819.6   | 669.0   | 681.6   | 1908.1  | 2007.1  | 1910.9  | 889.3   |
| 85°   | 287.1   | 349.9   | 524.1   | 561.7   | 616.0   | 401.4   | 447.4   | 777.7   | 816.8   | 791.7   | 323.3   |
| 87.5° | 75.3    | 82.3    | 259.2   | 326.1   | 341.5   | 181.2   | 232.8   | 354.0   | 373.6   | 354.0   | 107.3   |
| 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°    | 3749.4  | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 | 3749.4 |
| 2.5°  | 3791.1  | 3722.8 | 3600.2 | 3491.5 | 3409.3 | 3353.5 | 3297.8 | 3269.9 | 3253.2 | 3236.4 | 3239.2 |
| 5°    | 3912.4  | 3774.4 | 3564.0 | 3414.9 | 3331.2 | 3278.2 | 3250.4 | 3239.2 | 3232.3 | 3215.5 | 3215.5 |
| 7.5°  | 4095.0  | 3899.9 | 3609.9 | 3456.7 | 3391.1 | 3350.7 | 3334.0 | 3328.4 | 3320.0 | 3300.6 | 3303.4 |
| 10°   | 4325.0  | 4051.8 | 3706.2 | 3557.0 | 3497.0 | 3452.5 | 3428.7 | 3420.4 | 3405.1 | 3382.8 | 3385.5 |
| 12.5° | 4595.4  | 4239.9 | 3832.9 | 3676.9 | 3604.4 | 3544.4 | 3505.4 | 3481.8 | 3455.3 | 3426.0 | 3427.3 |
| 15°   | 4890.9  | 4444.9 | 3969.6 | 3784.2 | 3685.2 | 3601.6 | 3538.9 | 3498.4 | 3456.7 | 3420.4 | 3419.1 |
| 17.5° | 5190.6  | 4642.7 | 4074.1 | 3842.7 | 3709.0 | 3598.8 | 3513.8 | 3451.1 | 3399.5 | 3354.9 | 3350.7 |
| 20°   | 5513.9  | 4821.2 | 4132.6 | 3837.1 | 3664.3 | 3533.3 | 3420.4 | 3342.4 | 3285.2 | 3240.6 | 3233.7 |
| 22.5° | 5842.9  | 4988.4 | 4142.4 | 3780.0 | 3565.4 | 3405.1 | 3286.6 | 3200.1 | 3141.6 | 3095.6 | 3079.0 |
| 25°   | 6143.9  | 5118.1 | 4102.0 | 3669.9 | 3427.3 | 3254.5 | 3138.8 | 3051.0 | 3003.7 | 2949.3 | 2932.6 |
| 27.5° | 6418.5  | 5208.7 | 4021.1 | 3529.2 | 3272.6 | 3102.6 | 2993.9 | 2918.6 | 2867.0 | 2825.3 | 2811.3 |
| 30°   | 6665.2  | 5257.5 | 3888.7 | 3361.9 | 3113.8 | 2959.1 | 2867.0 | 2815.5 | 2770.9 | 2717.9 | 2708.2 |
| 32.5° | 6899.3  | 5257.5 | 3718.6 | 3179.3 | 2956.3 | 2832.2 | 2777.9 | 2745.8 | 2695.6 | 2644.0 | 2630.1 |
| 35°   | 7133.5  | 5225.4 | 3518.0 | 2988.3 | 2811.3 | 2741.6 | 2738.8 | 2701.2 | 2624.5 | 2554.9 | 2536.7 |
| 37.5° | 7380.2  | 5159.8 | 3292.2 | 2809.9 | 2692.8 | 2701.2 | 2724.9 | 2641.3 | 2532.6 | 2433.6 | 2407.1 |
| 40°   | 7659.0  | 5069.3 | 3058.0 | 2655.2 | 2593.9 | 2683.0 | 2687.2 | 2554.9 | 2343.0 | 2252.4 | 2228.7 |
| 42.5° | 7986.5  | 4978.7 | 2840.6 | 2518.6 | 2515.8 | 2628.7 | 2616.2 | 2368.1 | 2241.2 | 2195.3 | 2182.7 |
| 45°   | 8417.2  | 4927.1 | 2634.3 | 2389.0 | 2454.5 | 2540.9 | 2495.0 | 2265.0 | 2212.0 | 2185.5 | 2174.3 |
| 47.5° | 9096.0  | 4953.6 | 2444.8 | 2285.8 | 2393.1 | 2453.1 | 2269.2 | 2223.1 | 2185.5 | 2153.5 | 2142.3 |
| 50°   | 9946.2  | 4938.2 | 2291.4 | 2214.8 | 2323.5 | 2361.1 | 2167.3 | 2168.7 | 2149.3 | 2113.0 | 2096.3 |
| 52.5° | 10586.0 | 4818.4 | 2192.5 | 2174.3 | 2262.2 | 2198.1 | 2103.2 | 2115.8 | 2106.0 | 2053.0 | 2035.0 |
| 55°   | 11203.4 | 4715.2 | 2142.3 | 2159.0 | 2217.5 | 1994.5 | 2028.0 | 2058.6 | 2048.9 | 1997.3 | 1988.9 |
| 57.5° | 11971.4 | 4695.7 | 2111.6 | 2163.1 | 2179.9 | 1892.8 | 1955.5 | 1995.9 | 1988.9 | 1966.7 | 1962.5 |
| 60°   | 12912.3 | 4701.3 | 2083.8 | 2170.1 | 2138.1 | 1817.5 | 1887.2 | 1938.8 | 1942.9 | 1938.8 | 1936.0 |
| 62.5° | 13429.4 | 4549.4 | 2014.1 | 2150.7 | 2064.2 | 1752.1 | 1816.1 | 1891.4 | 1892.8 | 1901.2 | 1899.8 |
| 65°   | 12990.3 | 4095.0 | 1884.4 | 2082.4 | 1940.2 | 1697.7 | 1754.8 | 1837.0 | 1816.1 | 1853.8 | 1853.8 |
| 66°   | 12563.8 | 3832.9 | 1820.3 | 2037.8 | 1887.2 | 1676.8 | 1735.3 | 1809.2 | 1782.7 | 1834.2 | 1834.2 |
| 67.5° | 11692.7 | 3391.1 | 1704.6 | 1942.9 | 1812.0 | 1647.4 | 1713.0 | 1763.1 | 1726.9 | 1803.6 | 1798.0 |
| 70°   | 10101.0 | 2623.1 | 1471.8 | 1728.3 | 1687.9 | 1604.3 | 1682.3 | 1671.2 | 1618.2 | 1735.3 | 1713.0 |
| 72.5° | 8516.2  | 1993.1 | 1181.9 | 1446.8 | 1499.7 | 1549.9 | 1639.2 | 1554.1 | 1487.2 | 1569.5 | 1520.7 |
| 75°   | 6608.0  | 1498.3 | 933.9  | 1124.8 | 1267.0 | 1464.9 | 1587.5 | 1418.9 | 1322.7 | 1314.3 | 1287.9 |
| 77.5° | 3572.3  | 1028.6 | 740.1  | 858.6  | 1006.4 | 1358.9 | 1552.7 | 1274.0 | 1128.9 | 1095.5 | 1074.6 |
| 80°   | 1414.7  | 669.0  | 538.0  | 650.9  | 703.9  | 1205.6 | 1469.1 | 1105.3 | 931.1  | 897.6  | 865.6  |
| 82.5° | 584.0   | 395.8  | 347.1  | 436.2  | 458.6  | 1031.4 | 1318.5 | 905.9  | 719.2  | 995.2  | 1056.5 |
| 85°   | 250.9   | 217.4  | 206.2  | 225.8  | 259.2  | 723.3  | 1049.6 | 691.3  | 776.4  | 692.7  | 550.5  |
| 87.5° | 75.3    | 92.0   | 87.8   | 86.4   | 94.7   | 172.8  | 558.9  | 384.7  | 570.1  | 216.0  | 161.7  |
| 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)