

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: P522877

Luminaire Tested: **GLAN-SA8B-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42834 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

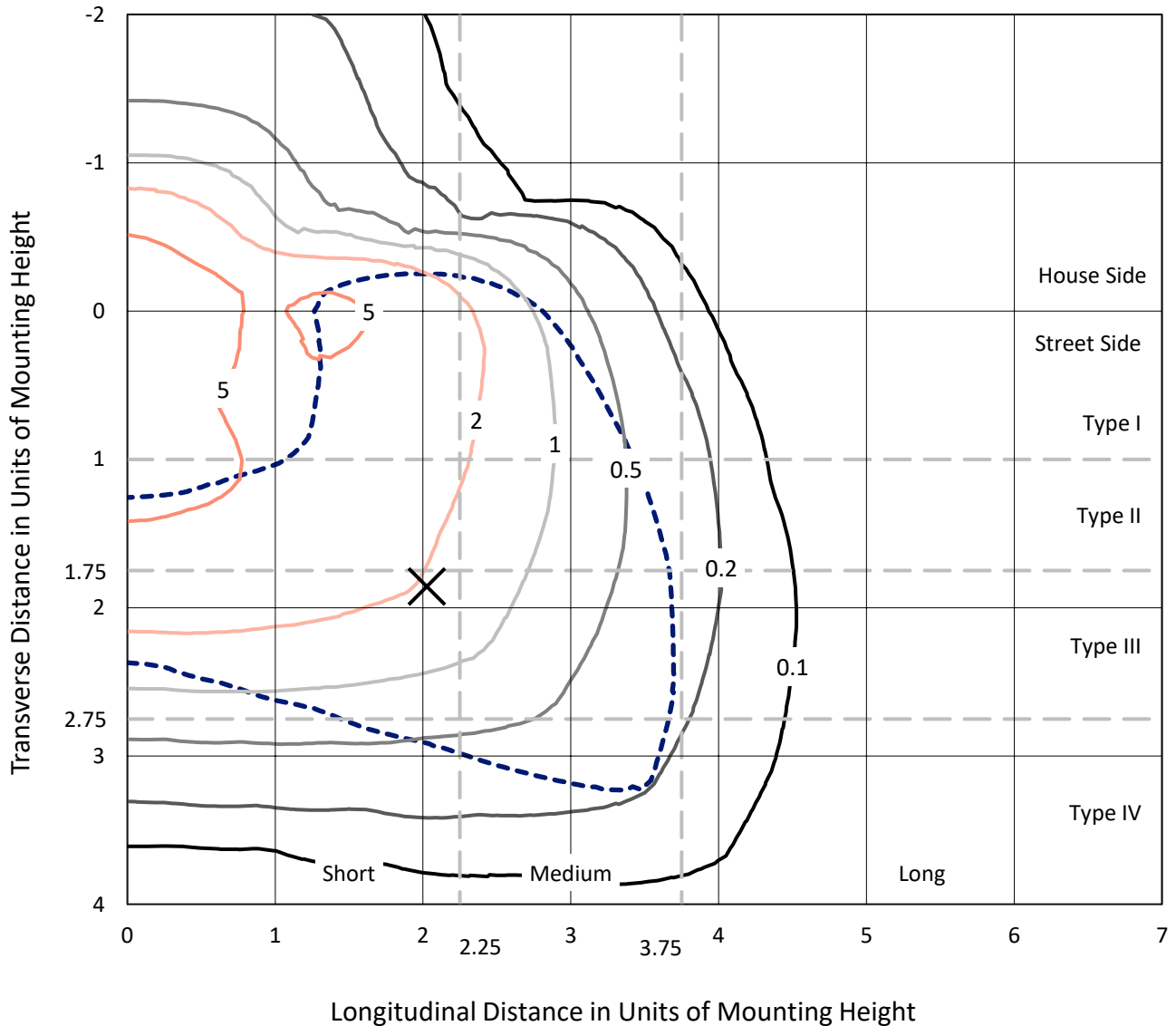
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

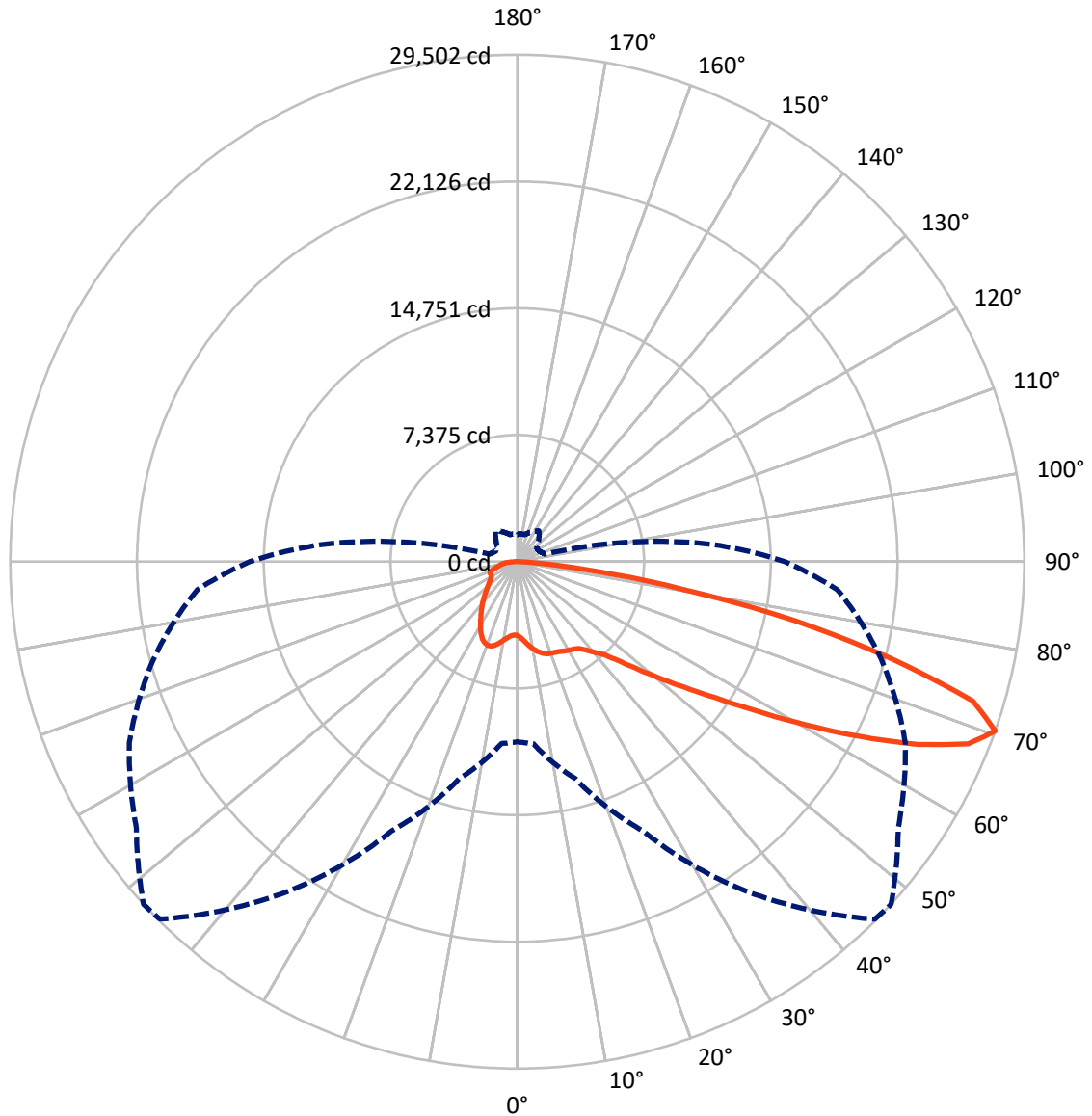
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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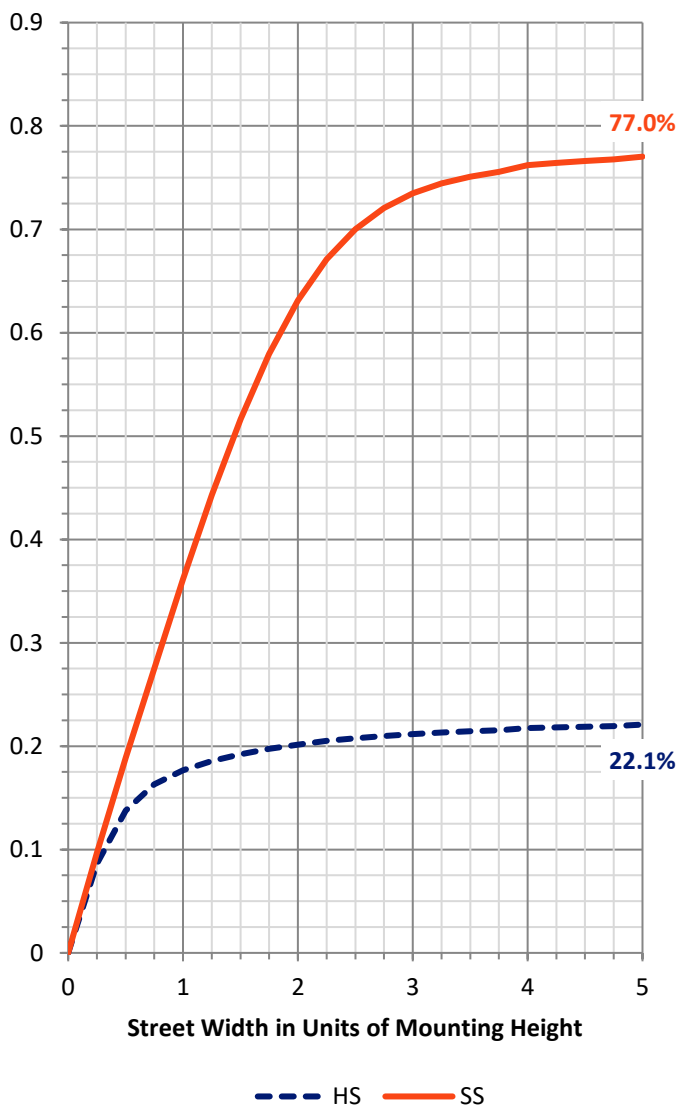
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9698.5   | 0.0    | 9698.5  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 33135.6  | 0.0    | 33135.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 42834.0  | 0.0    | 42834.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 443.2   | 1.0       |
| 10°-20°   | 1481.8  | 3.5       |
| 20°-30°   | 2464.2  | 5.8       |
| 30°-40°   | 3492.6  | 8.2       |
| 40°-50°   | 5155.9  | 12.0      |
| 50°-60°   | 8930.2  | 20.8      |
| 60°-70°   | 12614.2 | 29.4      |
| 70°-80°   | 7251.3  | 16.9      |
| 80°-90°   | 1000.5  | 2.3       |
| 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°    | 42834.0 | 100.0     |
| 0°-180°   | 42834.0 | 100.0     |

**Coefficient of Utilization**



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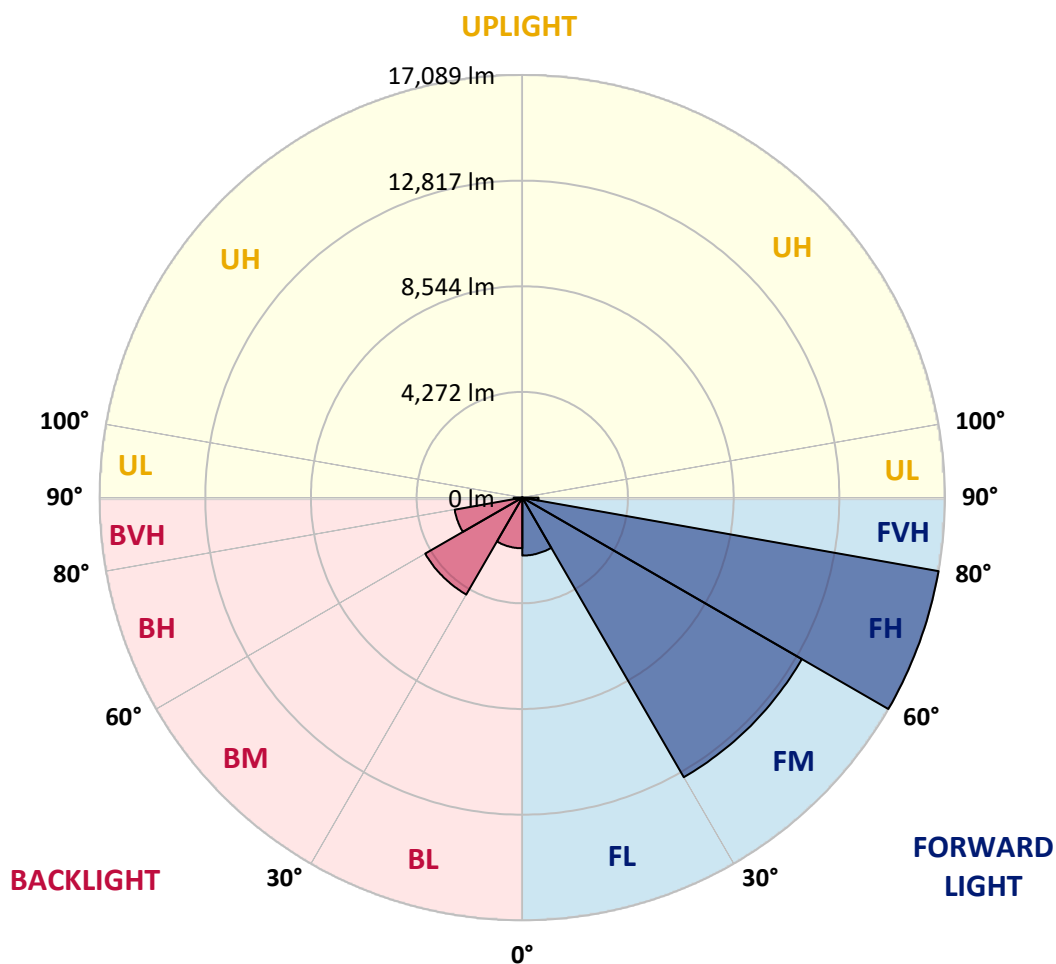
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2342.3  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 13050.7 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 17089.0 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 653.6   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2046.9  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4528.0  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2776.5  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 346.9   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  | 4300.0  |
| 2.5°  | 4577.4  | 4561.3  | 4559.0  | 4524.6  | 4506.3  | 4471.9  | 4458.2  | 4426.1  | 4387.1  | 4348.2  | 4311.5  |
| 5°    | 4937.2  | 4937.2  | 4921.2  | 4873.0  | 4797.4  | 4719.5  | 4685.1  | 4623.2  | 4513.2  | 4423.8  | 4348.2  |
| 7.5°  | 5306.3  | 5310.8  | 5278.8  | 5207.7  | 5100.0  | 4973.9  | 4941.8  | 4850.1  | 4694.3  | 4563.6  | 4451.3  |
| 10°   | 5624.9  | 5624.9  | 5581.3  | 5485.0  | 5349.8  | 5212.3  | 5180.2  | 5077.0  | 4902.8  | 4740.1  | 4593.4  |
| 12.5° | 5867.8  | 5867.8  | 5810.5  | 5684.5  | 5537.8  | 5414.0  | 5377.3  | 5278.8  | 5116.0  | 4934.9  | 4749.3  |
| 15°   | 6026.0  | 6014.5  | 5950.3  | 5808.2  | 5666.1  | 5558.4  | 5533.2  | 5450.7  | 5301.7  | 5118.3  | 4909.7  |
| 17.5° | 6032.9  | 6028.3  | 5966.4  | 5847.2  | 5723.4  | 5650.1  | 5634.0  | 5579.0  | 5462.1  | 5287.9  | 5067.9  |
| 20°   | 5899.9  | 5909.1  | 5867.8  | 5783.0  | 5723.4  | 5691.3  | 5684.5  | 5666.1  | 5583.6  | 5420.9  | 5200.8  |
| 22.5° | 5757.8  | 5773.9  | 5734.9  | 5689.0  | 5684.5  | 5716.5  | 5721.1  | 5725.7  | 5673.0  | 5514.8  | 5313.1  |
| 25°   | 5723.4  | 5734.9  | 5695.9  | 5654.7  | 5679.9  | 5764.7  | 5783.0  | 5801.4  | 5760.1  | 5627.2  | 5446.1  |
| 27.5° | 5897.6  | 5888.5  | 5812.8  | 5723.4  | 5739.5  | 5854.1  | 5879.3  | 5899.9  | 5879.3  | 5764.7  | 5611.1  |
| 30°   | 6390.4  | 6360.6  | 6209.4  | 5948.1  | 5865.5  | 5945.8  | 5971.0  | 6028.3  | 6028.3  | 5943.5  | 5789.9  |
| 32.5° | 7215.6  | 7158.3  | 6880.9  | 6367.5  | 6081.0  | 6032.9  | 6058.1  | 6152.1  | 6200.2  | 6133.7  | 5966.4  |
| 35°   | 8217.3  | 8157.7  | 7761.1  | 7071.2  | 6475.2  | 6207.1  | 6200.2  | 6305.6  | 6434.0  | 6285.0  | 6067.2  |
| 37.5° | 9223.5  | 9161.6  | 8684.8  | 7910.1  | 7050.6  | 6573.8  | 6532.5  | 6569.2  | 6624.2  | 6351.5  | 6207.1  |
| 40°   | 10229.7 | 10156.4 | 9739.2  | 8847.6  | 7754.2  | 7059.7  | 6952.0  | 6787.0  | 6764.0  | 6569.2  | 6477.5  |
| 42.5° | 11226.8 | 11160.3 | 10949.5 | 9899.7  | 8597.7  | 7534.2  | 7369.2  | 7084.9  | 7172.0  | 7055.1  | 6974.9  |
| 45°   | 12233.0 | 12237.6 | 12013.0 | 11080.1 | 9615.4  | 8409.8  | 8187.5  | 7742.8  | 7949.1  | 7905.5  | 7951.4  |
| 47.5° | 13124.7 | 13113.2 | 13033.0 | 12226.2 | 10878.4 | 9537.5  | 9251.0  | 8735.3  | 9088.3  | 9248.7  | 9599.4  |
| 50°   | 13988.8 | 13981.9 | 13986.5 | 13525.8 | 12345.4 | 10878.4 | 10562.1 | 10021.2 | 10816.5 | 11373.5 | 12001.5 |
| 52.5° | 15226.6 | 15265.5 | 14988.2 | 14866.7 | 14128.6 | 12462.3 | 12113.9 | 11554.6 | 12858.8 | 13736.7 | 14963.0 |
| 55°   | 16468.9 | 16436.8 | 16219.0 | 16345.1 | 15994.4 | 14337.2 | 13972.8 | 13528.1 | 15132.6 | 16093.0 | 17935.8 |
| 57.5° | 17200.1 | 17211.5 | 17433.9 | 18050.4 | 18298.0 | 16675.2 | 16345.1 | 16001.3 | 17688.3 | 18369.1 | 20581.0 |
| 60°   | 17857.9 | 17910.6 | 18550.1 | 19714.5 | 20386.1 | 19547.2 | 19253.8 | 18919.2 | 20033.1 | 20303.6 | 22877.7 |
| 62.5° | 18064.2 | 18226.9 | 19343.2 | 21085.2 | 22421.5 | 22788.3 | 22423.8 | 21685.8 | 22265.7 | 22160.2 | 24434.0 |
| 65°   | 17035.0 | 17257.4 | 19258.4 | 21598.7 | 24239.2 | 25864.3 | 25632.8 | 24262.1 | 24168.1 | 23533.2 | 24688.4 |
| 67.5° | 14325.8 | 14548.1 | 17117.6 | 20521.4 | 24991.0 | 28527.7 | 28296.2 | 26141.6 | 25323.3 | 23661.6 | 22763.0 |
| 70°   | 10481.9 | 10621.7 | 13078.8 | 17278.0 | 23480.5 | 29421.7 | 29501.9 | 27058.5 | 24910.8 | 21917.3 | 18690.0 |
| 72.5° | 6039.7  | 6349.2  | 8070.6  | 12155.1 | 19182.8 | 27161.6 | 27718.6 | 25151.4 | 22302.3 | 18284.2 | 13067.4 |
| 75°   | 2597.0  | 2603.8  | 3731.6  | 6704.5  | 12991.7 | 21832.4 | 22371.1 | 20849.1 | 17514.1 | 12643.3 | 6977.2  |
| 77.5° | 1235.5  | 1258.4  | 1641.2  | 2993.5  | 7151.4  | 15084.4 | 16537.6 | 14729.2 | 11201.6 | 6074.1  | 2635.9  |
| 80°   | 802.2   | 818.3   | 1003.9  | 1485.3  | 3506.9  | 8746.7  | 9759.8  | 8496.9  | 4941.8  | 2170.6  | 1136.9  |
| 82.5° | 485.9   | 490.5   | 671.6   | 907.7   | 1930.0  | 3960.8  | 4669.0  | 3688.0  | 2108.8  | 1299.6  | 669.3   |
| 85°   | 295.7   | 298.0   | 408.0   | 561.6   | 1171.3  | 1368.4  | 1405.1  | 1393.6  | 1237.7  | 850.4   | 357.6   |
| 87.5° | 142.1   | 146.7   | 210.9   | 265.9   | 460.7   | 424.0   | 401.1   | 465.3   | 584.5   | 458.4   | 153.6   |
| 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°    | 4300.0  | 4300.0  | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 |
| 2.5°  | 4295.4  | 4288.6  | 4272.5 | 4265.6 | 4261.1 | 4263.3 | 4261.1 | 4261.1 | 4263.3 | 4263.3 | 4263.3 |
| 5°    | 4316.1  | 4304.6  | 4279.4 | 4279.4 | 4293.1 | 4325.2 | 4355.0 | 4378.0 | 4403.2 | 4400.9 | 4400.9 |
| 7.5°  | 4405.5  | 4384.8  | 4355.0 | 4364.2 | 4398.6 | 4449.0 | 4501.7 | 4552.2 | 4602.6 | 4607.2 | 4604.9 |
| 10°   | 4536.1  | 4515.5  | 4483.4 | 4494.8 | 4549.9 | 4625.5 | 4692.0 | 4765.3 | 4820.3 | 4836.4 | 4831.8 |
| 12.5° | 4685.1  | 4643.8  | 4616.3 | 4648.4 | 4735.5 | 4836.4 | 4900.6 | 4955.6 | 4994.5 | 5017.5 | 5008.3 |
| 15°   | 4836.4  | 4797.4  | 4765.3 | 4831.8 | 4937.2 | 5031.2 | 5063.3 | 5072.5 | 5079.3 | 5102.3 | 5097.7 |
| 17.5° | 4983.1  | 4930.4  | 4918.9 | 5006.0 | 5106.8 | 5148.1 | 5129.8 | 5090.8 | 5061.0 | 5079.3 | 5077.0 |
| 20°   | 5113.7  | 5072.5  | 5067.9 | 5155.0 | 5193.9 | 5155.0 | 5077.0 | 5008.3 | 4955.6 | 4960.1 | 4957.9 |
| 22.5° | 5237.5  | 5205.4  | 5210.0 | 5246.7 | 5184.8 | 5051.8 | 4923.5 | 4829.5 | 4772.2 | 4783.7 | 4790.5 |
| 25°   | 5375.0  | 5342.9  | 5354.4 | 5294.8 | 5090.8 | 4859.3 | 4673.6 | 4593.4 | 4570.5 | 4593.4 | 4609.5 |
| 27.5° | 5553.8  | 5533.2  | 5526.3 | 5297.1 | 4923.5 | 4575.1 | 4364.2 | 4334.4 | 4355.0 | 4405.5 | 4430.7 |
| 30°   | 5746.3  | 5746.3  | 5709.7 | 5258.1 | 4694.3 | 4233.5 | 4050.2 | 4054.8 | 4125.8 | 4196.9 | 4222.1 |
| 32.5° | 5932.0  | 5971.0  | 5856.4 | 5152.7 | 4398.6 | 3901.2 | 3761.4 | 3766.0 | 3827.8 | 3914.9 | 3937.9 |
| 35°   | 6085.6  | 6197.9  | 5982.4 | 4960.1 | 4050.2 | 3621.6 | 3516.1 | 3454.2 | 3456.5 | 3523.0 | 3541.3 |
| 37.5° | 6296.5  | 6505.0  | 6055.8 | 4673.6 | 3678.9 | 3383.2 | 3264.0 | 3156.3 | 3085.2 | 3057.7 | 3057.7 |
| 40°   | 6663.2  | 6970.3  | 6074.1 | 4249.6 | 3328.2 | 3156.3 | 2986.6 | 2858.3 | 2720.7 | 2597.0 | 2574.1 |
| 42.5° | 7284.4  | 7671.7  | 6037.4 | 3761.4 | 3011.8 | 2906.4 | 2741.4 | 2583.2 | 2393.0 | 2218.8 | 2205.0 |
| 45°   | 8384.6  | 8584.0  | 5938.9 | 3254.8 | 2729.9 | 2665.7 | 2505.3 | 2333.4 | 2131.7 | 1975.8 | 1964.3 |
| 47.5° | 10147.2 | 9865.3  | 5808.2 | 2805.6 | 2473.2 | 2454.9 | 2331.1 | 2131.7 | 1930.0 | 1822.2 | 1810.8 |
| 50°   | 12721.3 | 11882.4 | 5789.9 | 2480.1 | 2266.9 | 2276.1 | 2175.2 | 1991.9 | 1815.4 | 1726.0 | 1712.2 |
| 52.5° | 15820.2 | 14318.9 | 5911.4 | 2250.9 | 2085.8 | 2120.2 | 2069.8 | 1900.2 | 1744.3 | 1668.7 | 1654.9 |
| 55°   | 18827.5 | 16510.1 | 5984.7 | 2072.1 | 1916.2 | 1980.4 | 1987.3 | 1845.2 | 1703.0 | 1627.4 | 1618.2 |
| 57.5° | 21268.6 | 18160.5 | 5659.2 | 1909.3 | 1769.5 | 1868.1 | 1918.5 | 1813.1 | 1682.4 | 1625.1 | 1615.9 |
| 60°   | 22967.0 | 18939.8 | 4733.2 | 1764.9 | 1661.8 | 1778.7 | 1893.3 | 1815.4 | 1732.8 | 1739.7 | 1744.3 |
| 62.5° | 23508.0 | 18593.7 | 3550.5 | 1657.2 | 1588.4 | 1748.9 | 1934.5 | 1909.3 | 1824.5 | 1877.2 | 1886.4 |
| 65°   | 22611.8 | 17163.4 | 2574.1 | 1572.4 | 1524.3 | 1769.5 | 2058.3 | 1978.1 | 1792.4 | 1831.4 | 1831.4 |
| 67.5° | 19611.4 | 14786.5 | 2003.3 | 1494.5 | 1450.9 | 1808.5 | 2182.1 | 1971.2 | 1716.8 | 1762.6 | 1721.4 |
| 70°   | 15556.6 | 11437.7 | 1668.7 | 1407.4 | 1373.0 | 1751.2 | 2193.6 | 1900.2 | 1627.4 | 1636.6 | 1558.6 |
| 72.5° | 10323.7 | 7520.4  | 1434.9 | 1324.8 | 1253.8 | 1574.7 | 2099.6 | 1808.5 | 1540.3 | 1487.6 | 1409.7 |
| 75°   | 5058.7  | 3749.9  | 1251.5 | 1221.7 | 1097.9 | 1370.7 | 1971.2 | 1721.4 | 1446.3 | 1363.8 | 1320.3 |
| 77.5° | 1959.8  | 1595.3  | 1068.1 | 1091.0 | 955.8  | 1207.9 | 1801.6 | 1597.6 | 1322.6 | 1210.2 | 1175.9 |
| 80°   | 951.2   | 905.4   | 875.6  | 910.0  | 786.2  | 1029.2 | 1645.7 | 1489.9 | 1207.9 | 1084.2 | 1033.7 |
| 82.5° | 591.4   | 559.3   | 671.6  | 708.3  | 605.1  | 939.8  | 1560.9 | 1398.2 | 1063.5 | 898.5  | 857.3  |
| 85°   | 300.3   | 320.9   | 449.3  | 483.6  | 433.2  | 747.2  | 1285.9 | 1049.8 | 767.9  | 637.2  | 641.8  |
| 87.5° | 114.6   | 153.6   | 236.1  | 254.4  | 231.5  | 394.2  | 708.3  | 612.0  | 492.8  | 334.6  | 309.4  |
| 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)