

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: P533804

Luminaire Tested: **GLAN-SA9B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39406 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 364  
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



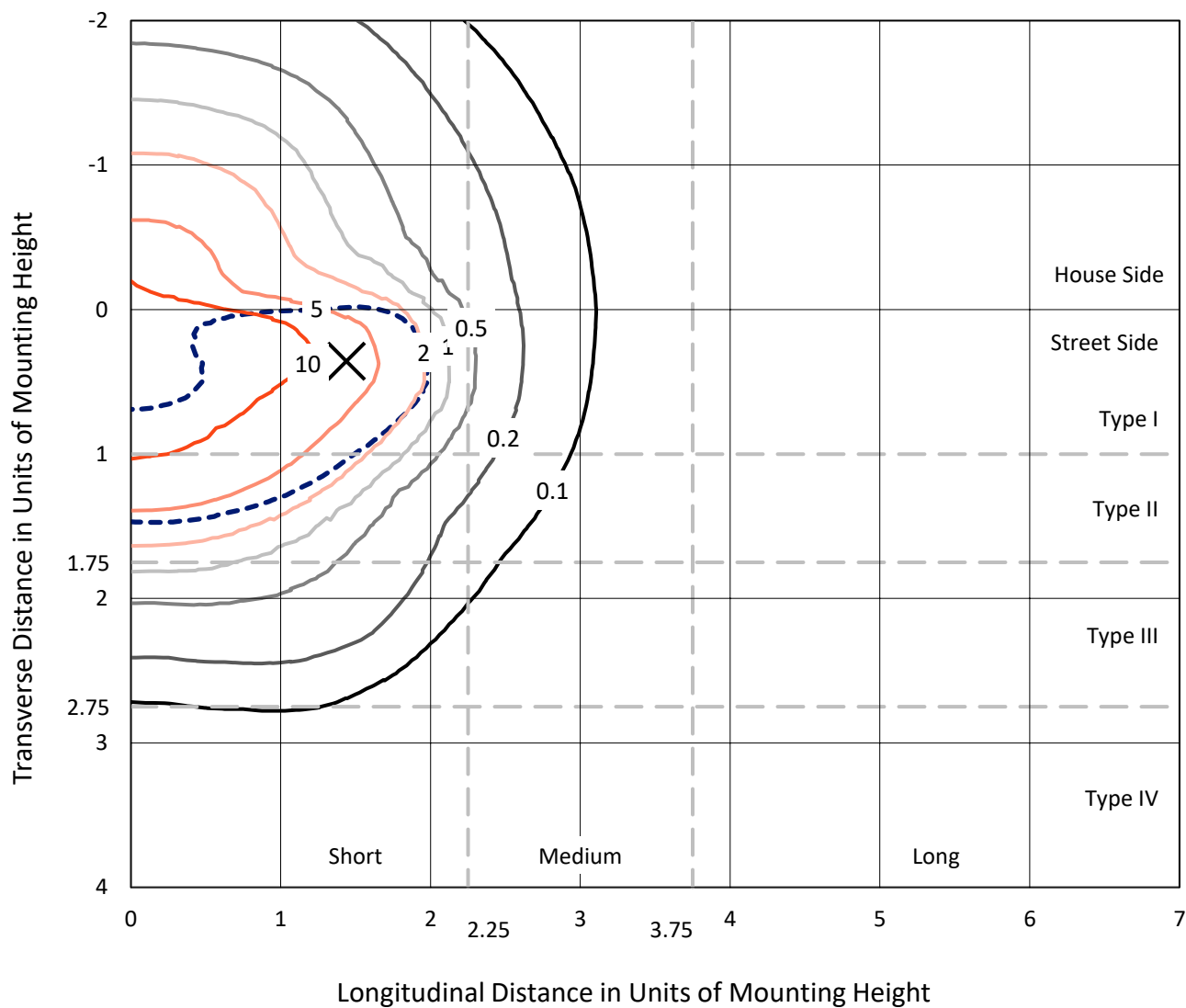
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

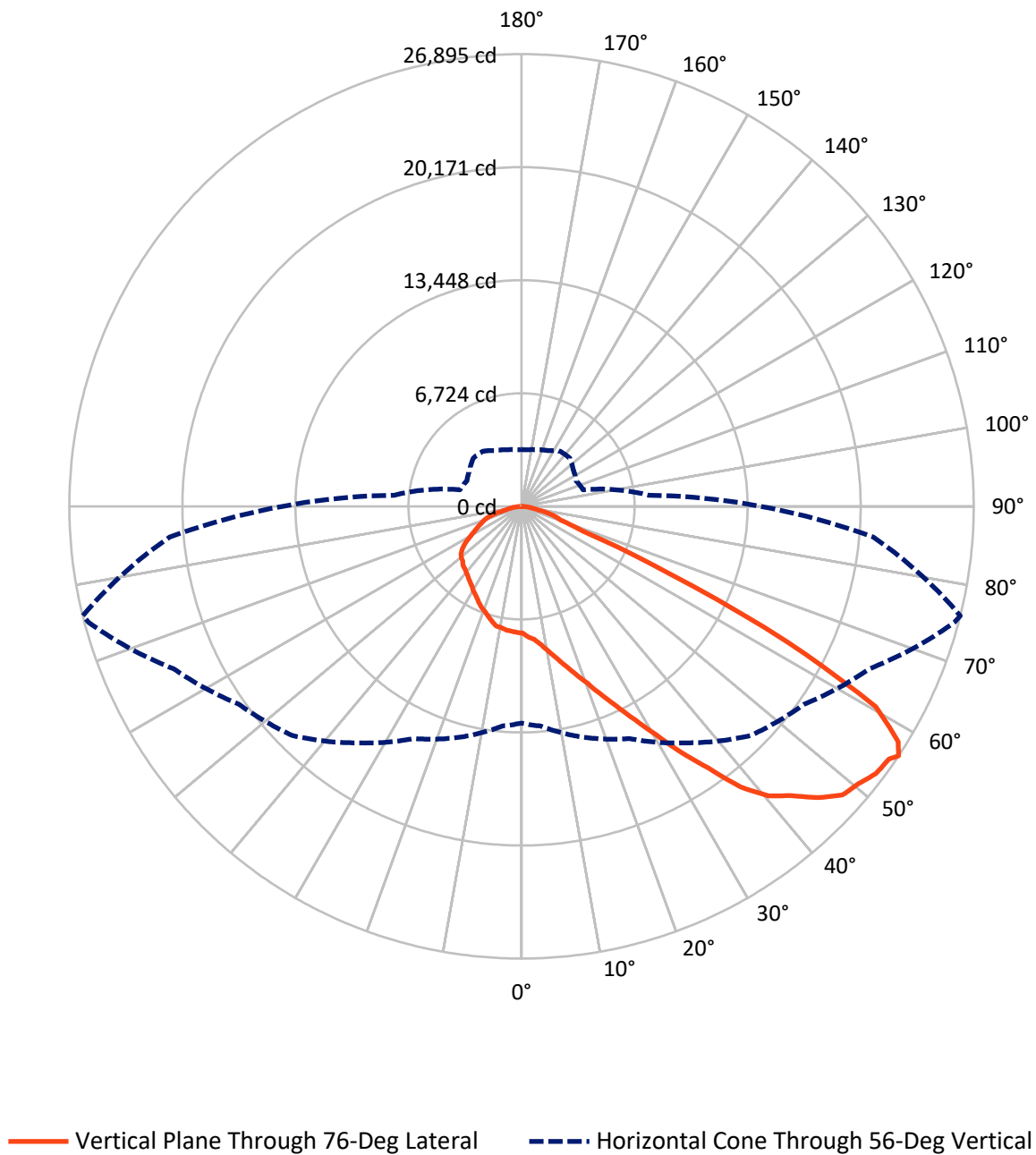
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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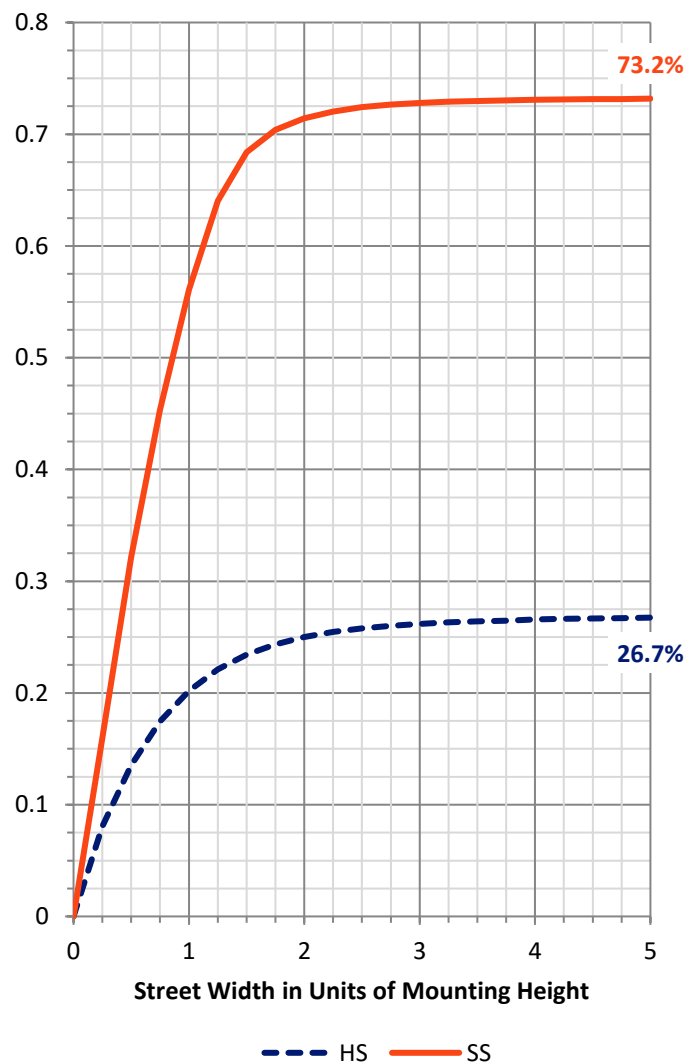
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10595.1  | 0.0    | 10595.1 |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 28810.9  | 0.0    | 28810.9 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 39406.0  | 0.0    | 39406.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 747.7   | 1.9       |
| 10°-20°   | 2348.8  | 6.0       |
| 20°-30°   | 4107.8  | 10.4      |
| 30°-40°   | 6431.6  | 16.3      |
| 40°-50°   | 9356.2  | 23.7      |
| 50°-60°   | 10283.1 | 26.1      |
| 60°-70°   | 4589.9  | 11.6      |
| 70°-80°   | 1325.7  | 3.4       |
| 80°-90°   | 215.0   | 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°    | 39406.0 | 100.0     |
| 0°-180°   | 39406.0 | 100.0     |

**Coefficient of Utilization**



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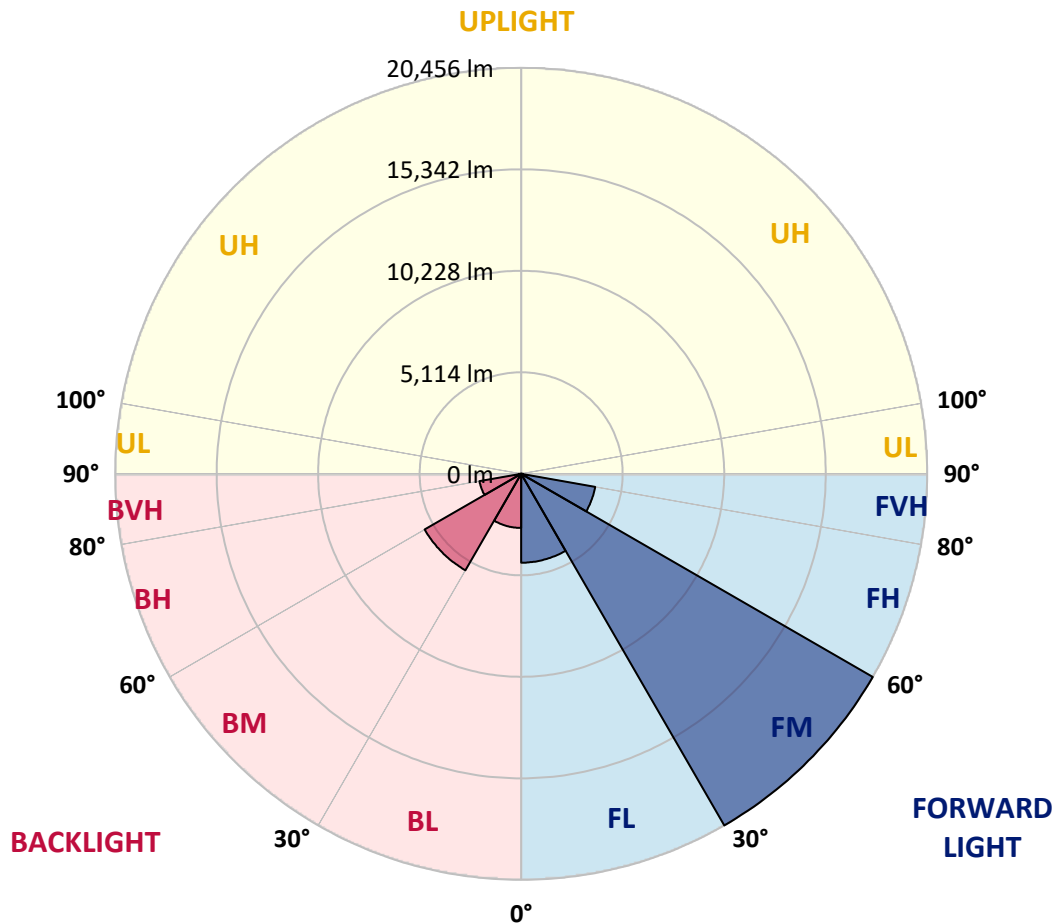
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4478.1  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 20456.4 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 3783.9  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 92.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2726.3  | 6.9       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5614.5  | 14.2      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2131.8  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 122.5   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  | 7539.8  |
| 2.5°  | 8306.1  | 8173.3  | 8163.0  | 8127.3  | 8147.7  | 8055.8  | 7958.7  | 7831.0  | 7698.2  | 7779.9  | 7585.8  |
| 5°    | 8888.4  | 8709.6  | 8781.1  | 8658.5  | 8673.9  | 8551.3  | 8352.0  | 8203.9  | 8040.4  | 7943.4  | 7805.5  |
| 7.5°  | 9092.8  | 9108.1  | 9159.2  | 9138.7  | 9036.6  | 9036.6  | 8903.7  | 8643.2  | 8357.2  | 8301.0  | 8071.1  |
| 10°   | 9368.6  | 9373.7  | 9317.5  | 9332.8  | 9475.9  | 9409.5  | 9292.0  | 9179.6  | 8811.8  | 8745.4  | 8336.7  |
| 12.5° | 9465.7  | 9373.7  | 9465.7  | 9547.4  | 9716.0  | 9807.9  | 9782.4  | 9700.6  | 9307.3  | 9261.3  | 8663.7  |
| 15°   | 9481.0  | 9424.8  | 9501.4  | 9685.3  | 9833.5  | 10221.7 | 10415.8 | 10359.6 | 9838.6  | 9843.7  | 9031.5  |
| 17.5° | 9409.5  | 9486.1  | 9516.7  | 9675.1  | 10017.4 | 10380.0 | 10942.0 | 11018.6 | 10589.5 | 10523.1 | 9496.3  |
| 20°   | 9506.5  | 9450.3  | 9491.2  | 9634.2  | 10088.9 | 10655.9 | 11391.5 | 11897.2 | 11294.4 | 11248.4 | 9976.5  |
| 22.5° | 9879.4  | 9802.8  | 9792.6  | 9884.5  | 10211.5 | 10798.9 | 11866.6 | 12775.8 | 12152.6 | 12178.2 | 10574.2 |
| 25°   | 10170.6 | 10211.5 | 10175.7 | 10170.6 | 10374.9 | 11013.5 | 12494.9 | 13823.0 | 13317.3 | 13169.2 | 11279.1 |
| 27.5° | 10671.2 | 10768.3 | 10696.8 | 10793.8 | 10747.8 | 11335.3 | 12944.4 | 14982.6 | 14573.9 | 14374.7 | 11917.6 |
| 30°   | 11365.9 | 11417.0 | 11350.6 | 11350.6 | 11212.7 | 11784.8 | 13353.1 | 16193.3 | 16024.7 | 15754.0 | 12668.6 |
| 32.5° | 12280.3 | 12356.9 | 12224.1 | 12147.5 | 12127.1 | 12454.0 | 14088.7 | 17388.6 | 17674.7 | 17444.8 | 13664.7 |
| 35°   | 13491.0 | 13445.0 | 13286.7 | 13215.1 | 12939.3 | 13480.8 | 15181.8 | 18762.7 | 19513.7 | 19105.0 | 14870.2 |
| 37.5° | 14558.6 | 14487.1 | 14476.9 | 14078.4 | 14144.8 | 14589.3 | 16111.5 | 19804.8 | 21296.4 | 21179.0 | 16142.2 |
| 40°   | 15554.7 | 15621.1 | 15728.4 | 15503.7 | 15401.5 | 15891.9 | 17194.5 | 20601.7 | 22680.8 | 22634.8 | 17123.0 |
| 42.5° | 16622.4 | 16561.1 | 16750.1 | 16561.1 | 16407.8 | 17102.5 | 18369.4 | 21153.4 | 23896.6 | 23518.6 | 18149.7 |
| 45°   | 18170.2 | 17976.1 | 18042.5 | 18057.8 | 17945.4 | 18200.8 | 18854.7 | 21551.9 | 24749.7 | 24708.8 | 18900.7 |
| 47.5° | 19462.6 | 19467.7 | 19355.3 | 19268.5 | 18926.2 | 19181.6 | 19396.2 | 21802.2 | 25730.4 | 25664.0 | 19191.8 |
| 50°   | 19942.8 | 19876.3 | 20203.3 | 20392.3 | 20412.7 | 19891.7 | 19820.2 | 21940.1 | 26246.4 | 25955.2 | 19483.0 |
| 52.5° | 18216.2 | 18277.5 | 18793.4 | 19917.2 | 20566.0 | 20622.2 | 20315.7 | 22226.2 | 26455.8 | 26394.5 | 19718.0 |
| 55°   | 14660.8 | 14957.1 | 15805.0 | 17102.5 | 18640.1 | 20331.0 | 20852.0 | 22522.4 | 26568.2 | 26517.1 | 20760.1 |
| 56°   | 12888.2 | 13118.1 | 14221.5 | 15238.0 | 17169.0 | 19273.6 | 20514.9 | 22839.2 | 26655.0 | 26895.1 | 21005.3 |
| 57.5° | 10374.9 | 10640.6 | 11432.3 | 12586.8 | 14865.1 | 17260.9 | 19585.2 | 22450.9 | 26317.9 | 26409.8 | 21184.1 |
| 60°   | 6487.5  | 6513.1  | 7463.2  | 8224.3  | 9828.3  | 12167.9 | 14946.8 | 19534.1 | 24356.3 | 24223.5 | 19028.4 |
| 62.5° | 4255.2  | 4260.3  | 5123.6  | 5746.8  | 6477.3  | 7013.7  | 8796.5  | 12954.6 | 17971.0 | 17736.0 | 13547.2 |
| 65°   | 2988.3  | 3054.8  | 3723.9  | 4556.6  | 4852.9  | 4571.9  | 4515.7  | 6829.8  | 10037.8 | 9700.6  | 7279.3  |
| 67.5° | 2186.3  | 2191.5  | 2784.0  | 3678.0  | 4107.1  | 3478.7  | 2824.9  | 3335.7  | 3974.2  | 3964.0  | 3371.5  |
| 70°   | 1445.6  | 1506.9  | 1961.6  | 2748.3  | 3238.7  | 2794.2  | 2308.9  | 2385.6  | 2528.6  | 2528.6  | 2508.2  |
| 72.5° | 842.9   | 899.1   | 1200.4  | 1741.9  | 1818.6  | 1747.0  | 1828.8  | 2043.3  | 2135.3  | 2130.2  | 2104.6  |
| 75°   | 480.2   | 505.7   | 572.1   | 725.4   | 904.2   | 1067.6  | 1343.5  | 1547.8  | 1639.8  | 1696.0  | 1629.5  |
| 77.5° | 281.0   | 296.3   | 337.1   | 413.8   | 470.0   | 577.2   | 730.5   | 873.5   | 996.1   | 980.8   | 991.0   |
| 80°   | 148.1   | 148.1   | 189.0   | 245.2   | 326.9   | 408.7   | 485.3   | 567.0   | 633.4   | 648.8   | 664.1   |
| 82.5° | 86.8    | 91.9    | 122.6   | 178.8   | 235.0   | 291.2   | 372.9   | 429.1   | 490.4   | 495.5   | 505.7   |
| 85°   | 46.0    | 51.1    | 76.6    | 117.5   | 158.4   | 178.8   | 183.9   | 173.7   | 189.0   | 178.8   | 204.3   |
| 87.5° | 15.3    | 15.3    | 25.5    | 20.4    | 20.4    | 25.5    | 30.6    | 30.6    | 40.9    | 40.9    | 40.9    |
| 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°    | 7539.8  | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 | 7539.8 |
| 2.5°  | 7580.7  | 7580.7 | 7493.9 | 7330.4 | 7304.9 | 7238.4 | 7177.1 | 7172.0 | 7126.1 | 7085.2 | 7064.8 |
| 5°    | 7723.7  | 7565.4 | 7437.7 | 7289.5 | 7115.8 | 7034.1 | 6942.2 | 6840.0 | 6799.1 | 6840.0 | 6834.9 |
| 7.5°  | 7887.2  | 7754.4 | 7371.3 | 7095.4 | 6896.2 | 6814.5 | 6712.3 | 6605.0 | 6615.2 | 6615.2 | 6543.7 |
| 10°   | 8045.6  | 7866.8 | 7253.8 | 6901.3 | 6610.1 | 6548.8 | 6492.6 | 6533.5 | 6584.6 | 6594.8 | 6548.8 |
| 12.5° | 8311.2  | 7907.6 | 7197.6 | 6707.2 | 6523.3 | 6390.5 | 6426.2 | 6538.6 | 6645.9 | 6615.2 | 6651.0 |
| 15°   | 8510.4  | 7943.4 | 6942.2 | 6508.0 | 6278.1 | 6339.4 | 6467.1 | 6543.7 | 6722.5 | 6702.1 | 6737.8 |
| 17.5° | 8704.5  | 7963.8 | 6691.9 | 6242.3 | 6145.3 | 6313.8 | 6410.9 | 6630.6 | 6686.7 | 6809.3 | 6855.3 |
| 20°   | 9103.0  | 8004.7 | 6436.4 | 6078.9 | 6048.2 | 6242.3 | 6410.9 | 6513.1 | 6635.7 | 6742.9 | 6742.9 |
| 22.5° | 9307.3  | 7984.3 | 6267.9 | 5864.3 | 5961.4 | 6084.0 | 6237.2 | 6410.9 | 6410.9 | 6513.1 | 6518.2 |
| 25°   | 9562.7  | 7902.5 | 6002.2 | 5762.1 | 5833.7 | 5951.2 | 6124.8 | 6063.5 | 6129.9 | 6129.9 | 6211.7 |
| 27.5° | 9853.9  | 7728.8 | 5772.4 | 5578.2 | 5721.3 | 5849.0 | 5874.5 | 5833.7 | 5757.0 | 5746.8 | 5716.2 |
| 30°   | 10088.9 | 7514.3 | 5603.8 | 5517.0 | 5634.4 | 5706.0 | 5624.2 | 5537.4 | 5404.6 | 5394.4 | 5322.8 |
| 32.5° | 10410.7 | 7248.7 | 5394.4 | 5363.7 | 5496.5 | 5501.6 | 5476.1 | 5343.3 | 5149.2 | 5067.4 | 4985.7 |
| 35°   | 10952.2 | 7095.4 | 5236.0 | 5282.0 | 5322.8 | 5307.5 | 5261.5 | 5118.5 | 4924.4 | 4888.6 | 4858.0 |
| 37.5° | 11350.6 | 6983.0 | 5072.5 | 5128.7 | 5164.5 | 5184.9 | 5047.0 | 4888.6 | 4893.7 | 4822.2 | 4801.8 |
| 40°   | 11800.1 | 6911.5 | 4939.7 | 4965.3 | 4970.4 | 5036.8 | 4868.2 | 4791.6 | 4827.3 | 4781.4 | 4812.0 |
| 42.5° | 12377.4 | 6931.9 | 4801.8 | 4781.4 | 4878.4 | 4852.9 | 4771.1 | 4669.0 | 4689.4 | 4551.5 | 4571.9 |
| 45°   | 12683.9 | 7069.9 | 4720.1 | 4628.1 | 4735.4 | 4730.3 | 4623.0 | 4525.9 | 4403.3 | 4137.7 | 4147.9 |
| 47.5° | 12888.2 | 7105.6 | 4525.9 | 4464.6 | 4577.0 | 4643.4 | 4520.8 | 4296.1 | 4122.4 | 3933.4 | 3887.4 |
| 50°   | 13097.6 | 7172.0 | 4434.0 | 4306.3 | 4352.3 | 4510.6 | 4357.4 | 4142.8 | 3974.2 | 3805.7 | 3831.2 |
| 52.5° | 13281.5 | 7299.7 | 4255.2 | 4066.2 | 4147.9 | 4321.6 | 4239.9 | 3979.4 | 3795.5 | 3657.5 | 3616.7 |
| 55°   | 14098.9 | 7585.8 | 3953.8 | 3708.6 | 3902.7 | 4122.4 | 4076.4 | 3759.7 | 3560.5 | 3489.0 | 3478.7 |
| 56°   | 14226.6 | 7596.0 | 3795.5 | 3586.0 | 3764.8 | 4056.0 | 3999.8 | 3662.6 | 3483.9 | 3371.5 | 3376.6 |
| 57.5° | 14247.0 | 7473.4 | 3570.7 | 3473.6 | 3626.9 | 3958.9 | 3887.4 | 3586.0 | 3340.8 | 3238.7 | 3208.0 |
| 60°   | 12535.7 | 5833.7 | 3289.7 | 3228.4 | 3407.2 | 3662.6 | 3637.1 | 3376.6 | 3100.7 | 2983.2 | 3039.4 |
| 62.5° | 8546.2  | 4275.6 | 3070.1 | 3059.9 | 3151.8 | 3402.1 | 3335.7 | 3100.7 | 2870.9 | 2794.2 | 2758.5 |
| 65°   | 4975.5  | 3243.8 | 2855.5 | 2814.7 | 2891.3 | 3024.1 | 3070.1 | 2824.9 | 2584.8 | 2533.7 | 2518.4 |
| 67.5° | 2937.3  | 2681.9 | 2579.7 | 2513.3 | 2487.7 | 2569.5 | 2605.2 | 2462.2 | 2222.1 | 2150.6 | 2211.9 |
| 70°   | 2457.1  | 2385.6 | 2390.7 | 2278.3 | 2217.0 | 2160.8 | 2130.2 | 2002.4 | 1803.2 | 1711.3 | 1685.7 |
| 72.5° | 2119.9  | 2089.3 | 2068.9 | 1966.7 | 1910.5 | 1782.8 | 1650.0 | 1522.3 | 1374.1 | 1297.5 | 1302.6 |
| 75°   | 1619.3  | 1609.1 | 1619.3 | 1568.2 | 1471.2 | 1369.0 | 1246.4 | 1083.0 | 970.6  | 873.5  | 894.0  |
| 77.5° | 965.5   | 996.1  | 1011.4 | 991.0  | 950.1  | 858.2  | 781.6  | 674.3  | 567.0  | 490.4  | 480.2  |
| 80°   | 664.1   | 689.6  | 715.2  | 689.6  | 648.8  | 582.3  | 500.6  | 418.9  | 342.3  | 301.4  | 291.2  |
| 82.5° | 505.7   | 531.3  | 546.6  | 521.0  | 470.0  | 398.4  | 342.3  | 286.1  | 224.8  | 183.9  | 173.7  |
| 85°   | 183.9   | 209.4  | 204.3  | 245.2  | 265.6  | 255.4  | 219.7  | 168.6  | 127.7  | 91.9   | 86.8   |
| 87.5° | 51.1    | 46.0   | 51.1   | 51.1   | 51.1   | 46.0   | 40.9   | 40.9   | 40.9   | 25.5   | 20.4   |
| 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)