

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: P529468

Luminaire Tested: **GLAN-SA4C-760-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4C-760-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24278 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

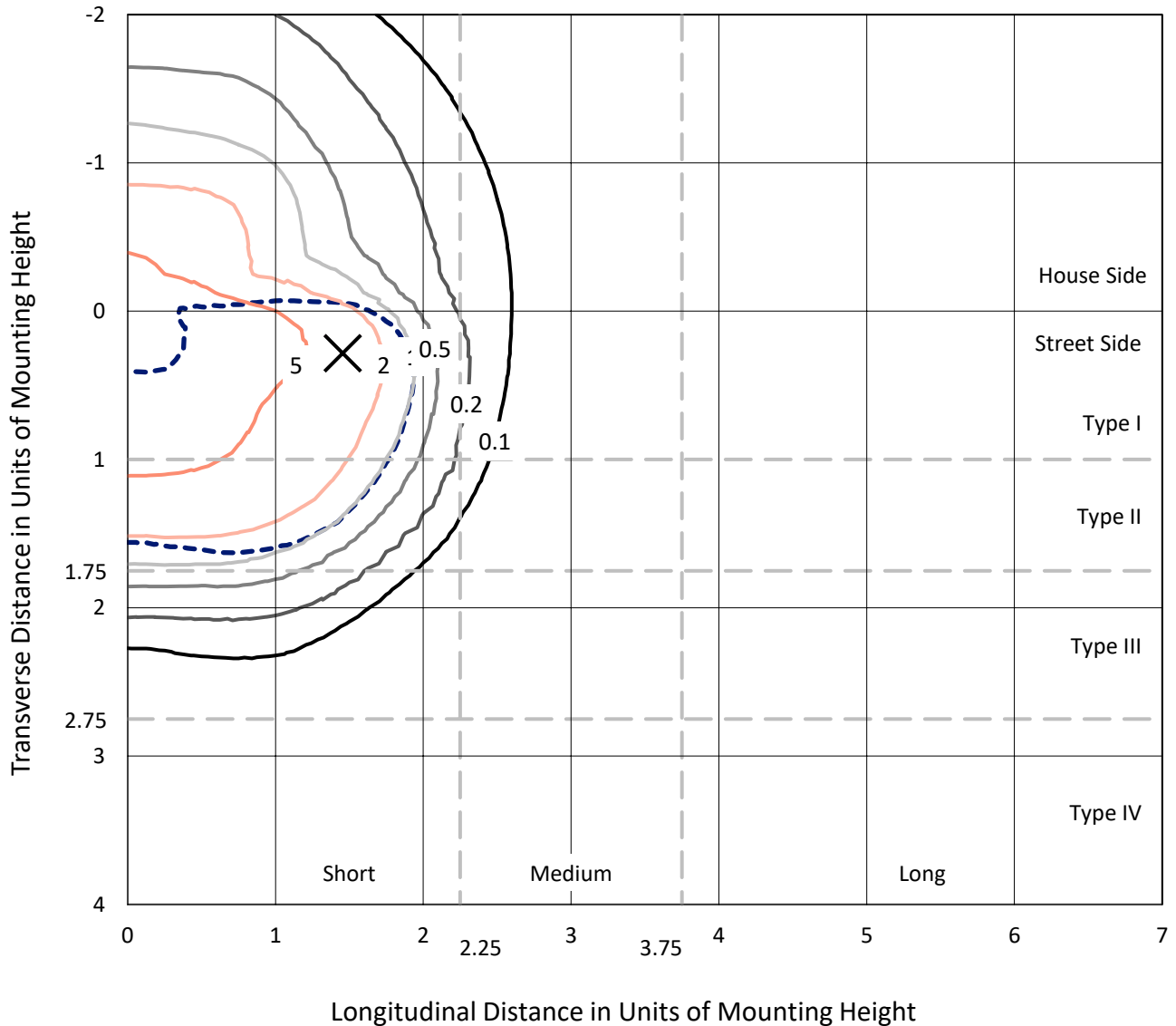
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

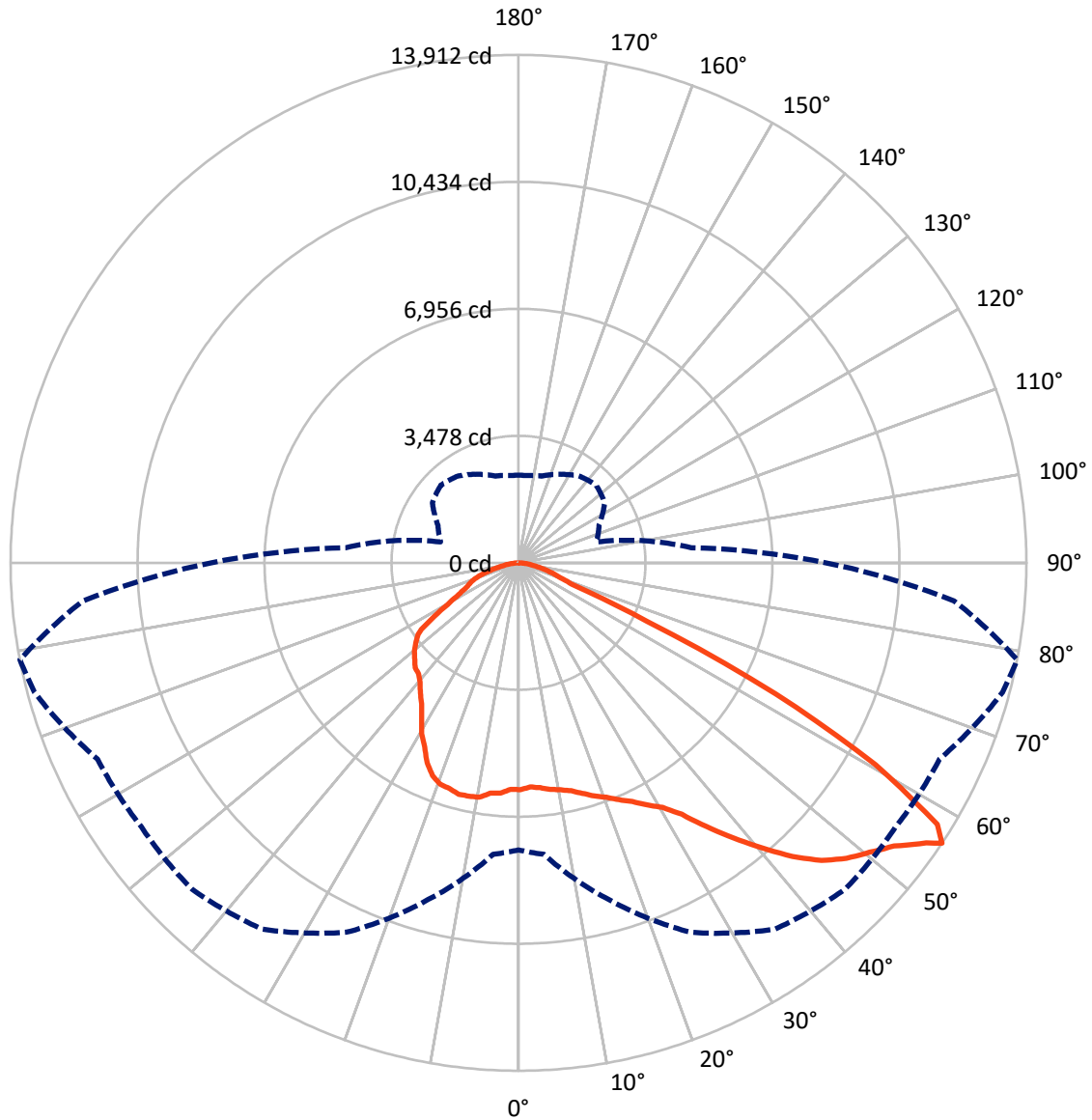
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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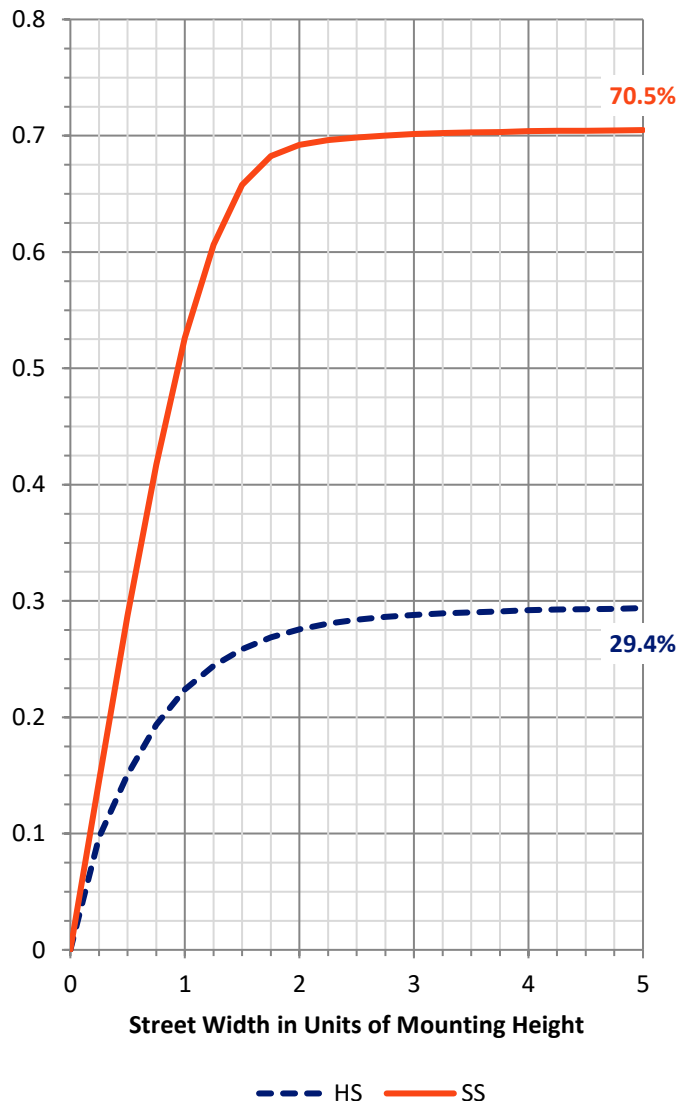
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7169.8   | 0.0    | 7169.8  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 17108.2  | 0.0    | 17108.2 |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 24278.0  | 0.0    | 24278.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 564.8   | 2.3       |
| 10°-20°   | 1545.6  | 6.4       |
| 20°-30°   | 2644.3  | 10.9      |
| 30°-40°   | 4052.6  | 16.7      |
| 40°-50°   | 5477.1  | 22.6      |
| 50°-60°   | 6290.7  | 25.9      |
| 60°-70°   | 2867.5  | 11.8      |
| 70°-80°   | 707.0   | 2.9       |
| 80°-90°   | 128.5   | 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°    | 24278.0 | 100.0     |
| 0°-180°   | 24278.0 | 100.0     |

**Coefficient of Utilization**

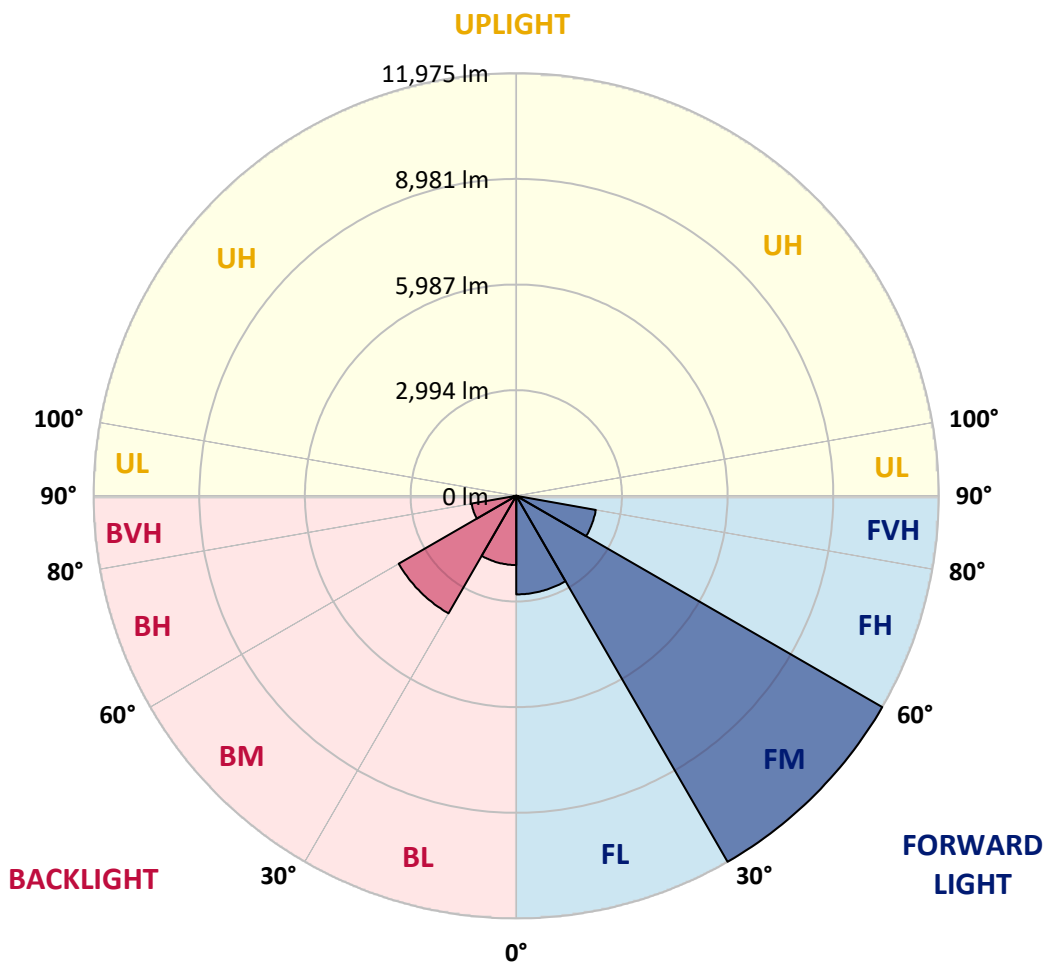


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2793.4  | 11.5      |                         |      |         |
| FM (30°-60°)   | 11974.6 | 49.3      |                         |      |         |
| FH (60°-80°)   | 2288.9  | 9.4       |                         |      | G2/5000 |
| FVH (80°-90°)  | 51.3    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1961.3  | 8.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 3845.8  | 15.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1285.6  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 77.2    | 0.3       |                         |      | G1/100  |
| 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°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  | 6211.8  |
| 2.5°  | 5909.4  | 5894.2  | 5930.5  | 5957.7  | 5991.0  | 6033.3  | 6054.5  | 6066.6  | 6172.5  | 6145.2  | 6226.9  |
| 5°    | 5782.3  | 5743.0  | 5770.2  | 5791.4  | 5848.9  | 5900.3  | 5957.7  | 6048.5  | 6145.2  | 6187.6  | 6287.4  |
| 7.5°  | 5670.4  | 5649.3  | 5643.2  | 5658.3  | 5737.0  | 5803.5  | 5903.3  | 6036.4  | 6193.6  | 6263.2  | 6320.7  |
| 10°   | 5486.0  | 5455.7  | 5501.1  | 5600.9  | 5622.1  | 5761.2  | 5876.1  | 6066.6  | 6202.7  | 6323.7  | 6493.0  |
| 12.5° | 5404.3  | 5374.1  | 5383.1  | 5440.6  | 5588.8  | 5721.9  | 5857.9  | 6072.7  | 6360.0  | 6408.4  | 6635.2  |
| 15°   | 5534.4  | 5504.1  | 5513.2  | 5498.1  | 5640.2  | 5709.8  | 5924.5  | 6193.6  | 6468.8  | 6550.5  | 6792.4  |
| 17.5° | 5830.7  | 5833.7  | 5794.4  | 5761.2  | 5727.9  | 5876.1  | 6024.3  | 6266.2  | 6511.2  | 6716.8  | 6898.3  |
| 20°   | 6396.3  | 6296.5  | 6217.8  | 6030.3  | 5978.9  | 6042.4  | 6229.9  | 6462.8  | 6683.6  | 6852.9  | 7058.6  |
| 22.5° | 6831.7  | 6840.8  | 6728.9  | 6420.5  | 6308.6  | 6335.8  | 6496.1  | 6686.6  | 6928.5  | 7049.5  | 7285.4  |
| 25°   | 7463.8  | 7400.3  | 7279.3  | 7034.4  | 6783.4  | 6804.5  | 6922.5  | 7094.9  | 7161.4  | 7246.1  | 7503.1  |
| 27.5° | 8041.4  | 8059.6  | 7820.7  | 7590.8  | 7279.3  | 7218.8  | 7430.5  | 7460.8  | 7348.9  | 7509.2  | 7596.9  |
| 30°   | 8628.1  | 8613.0  | 8455.8  | 8186.6  | 7881.2  | 7893.3  | 7987.0  | 7838.8  | 7684.6  | 7772.3  | 7832.8  |
| 32.5° | 9236.0  | 9063.6  | 9057.6  | 8815.6  | 8582.8  | 8470.9  | 8356.0  | 8428.5  | 8189.6  | 8207.8  | 8150.3  |
| 35°   | 9722.9  | 9747.1  | 9608.0  | 9435.6  | 9320.7  | 9124.1  | 8809.6  | 8939.6  | 8894.3  | 8873.1  | 8625.1  |
| 37.5° | 10076.8 | 9983.0  | 10052.6 | 9995.1  | 9886.2  | 9641.3  | 9314.6  | 9438.6  | 9459.8  | 9562.6  | 9275.3  |
| 40°   | 10367.1 | 10327.8 | 10512.2 | 10542.5 | 10466.9 | 9937.6  | 9350.9  | 9719.9  | 10037.4 | 10261.2 | 9919.5  |
| 42.5° | 10506.2 | 10590.9 | 10784.4 | 11017.3 | 10847.9 | 10282.4 | 9538.4  | 9934.6  | 10642.3 | 10996.1 | 10530.4 |
| 45°   | 10693.7 | 10584.8 | 10872.1 | 11298.5 | 11301.6 | 10572.7 | 9719.9  | 10224.9 | 11114.1 | 11628.2 | 10947.7 |
| 47.5° | 10503.2 | 10557.6 | 10854.0 | 11395.3 | 11534.4 | 10878.2 | 10209.8 | 10636.2 | 11634.2 | 12090.9 | 11334.8 |
| 50°   | 10076.8 | 10185.6 | 10727.0 | 11289.5 | 11709.8 | 11201.8 | 10772.3 | 11080.8 | 12115.1 | 12462.9 | 11398.3 |
| 52.5° | 9632.2  | 9692.7  | 10539.5 | 11371.1 | 11788.5 | 11619.1 | 11525.4 | 11694.7 | 12701.8 | 12883.2 | 11477.0 |
| 55°   | 8422.5  | 8709.8  | 9919.5  | 11334.8 | 12172.5 | 12372.1 | 12299.6 | 12547.6 | 13367.1 | 13548.6 | 11906.4 |
| 56°   | 7863.0  | 8014.2  | 9547.5  | 11165.5 | 12248.2 | 12647.4 | 12611.1 | 12723.0 | 13721.0 | 13911.5 | 11972.9 |
| 57.5° | 6828.7  | 6840.8  | 8141.2  | 10415.5 | 11963.9 | 12729.0 | 12692.7 | 12780.4 | 13651.4 | 13521.4 | 11389.3 |
| 60°   | 4273.2  | 4460.7  | 5540.4  | 8011.2  | 10173.5 | 11809.6 | 12015.3 | 11310.6 | 11510.2 | 11235.0 | 8861.0  |
| 62.5° | 2213.7  | 2186.5  | 2903.3  | 4684.5  | 6753.1  | 8455.8  | 8646.3  | 8613.0  | 8304.5  | 7902.3  | 5788.4  |
| 65°   | 1103.8  | 1109.9  | 1518.2  | 2319.6  | 3459.7  | 4427.5  | 4959.7  | 5017.2  | 4197.6  | 3861.9  | 2746.0  |
| 67.5° | 801.4   | 831.7   | 1091.7  | 1418.4  | 1630.1  | 1823.6  | 2234.9  | 2192.6  | 1660.3  | 1578.7  | 1463.7  |
| 70°   | 623.0   | 650.2   | 886.1   | 1082.7  | 982.9   | 982.9   | 1070.6  | 1106.9  | 1182.5  | 1215.7  | 1255.1  |
| 72.5° | 453.6   | 474.8   | 677.4   | 747.0   | 644.2   | 692.5   | 801.4   | 886.1   | 964.7   | 976.8   | 1022.2  |
| 75°   | 311.5   | 329.6   | 444.6   | 411.3   | 387.1   | 477.8   | 586.7   | 665.3   | 722.8   | 753.0   | 780.3   |
| 77.5° | 202.6   | 208.7   | 254.0   | 214.7   | 248.0   | 308.5   | 381.1   | 447.6   | 505.0   | 529.2   | 535.3   |
| 80°   | 90.7    | 99.8    | 108.9   | 136.1   | 172.4   | 220.8   | 272.2   | 326.6   | 362.9   | 372.0   | 390.1   |
| 82.5° | 51.4    | 51.4    | 66.5    | 96.8    | 127.0   | 160.3   | 196.6   | 235.9   | 278.2   | 287.3   | 284.3   |
| 85°   | 27.2    | 27.2    | 39.3    | 57.5    | 78.6    | 93.8    | 90.7    | 93.8    | 99.8    | 114.9   | 111.9   |
| 87.5° | 9.1     | 9.1     | 12.1    | 12.1    | 15.1    | 18.1    | 15.1    | 21.2    | 27.2    | 27.2    | 27.2    |
| 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°    | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 |
| 2.5°  | 6202.7 | 6229.9 | 6193.6 | 6272.3 | 6272.3 | 6257.1 | 6181.5 | 6205.7 | 6223.9 | 6223.9 | 6239.0 |
| 5°    | 6320.7 | 6311.6 | 6335.8 | 6242.0 | 6184.6 | 6163.4 | 6039.4 | 5978.9 | 5927.5 | 5924.5 | 5879.1 |
| 7.5°  | 6387.2 | 6363.0 | 6353.9 | 6284.4 | 6030.3 | 5876.1 | 5610.0 | 5455.7 | 5422.5 | 5304.5 | 5349.9 |
| 10°   | 6493.0 | 6538.4 | 6493.0 | 6115.0 | 5761.2 | 5407.3 | 5147.2 | 4908.3 | 4814.6 | 4739.0 | 4693.6 |
| 12.5° | 6710.8 | 6689.6 | 6426.5 | 5915.4 | 5419.4 | 4999.1 | 4612.0 | 4360.9 | 4267.2 | 4200.7 | 4194.6 |
| 15°   | 6895.3 | 6789.4 | 6387.2 | 5600.9 | 4887.2 | 4439.6 | 4122.0 | 3943.6 | 3901.3 | 3907.3 | 3934.5 |
| 17.5° | 6958.8 | 6886.2 | 6181.5 | 5274.3 | 4491.0 | 3964.8 | 3816.6 | 3789.4 | 3828.7 | 3874.0 | 3886.1 |
| 20°   | 7058.6 | 6943.6 | 6096.9 | 4829.7 | 4001.1 | 3668.4 | 3659.3 | 3756.1 | 3828.7 | 3895.2 | 3904.3 |
| 22.5° | 7267.2 | 6976.9 | 5821.7 | 4409.3 | 3665.4 | 3580.7 | 3668.4 | 3750.1 | 3861.9 | 3916.4 | 3868.0 |
| 25°   | 7327.7 | 6904.3 | 5434.6 | 3904.3 | 3453.7 | 3526.3 | 3620.0 | 3731.9 | 3810.5 | 3840.8 | 3861.9 |
| 27.5° | 7379.1 | 6792.4 | 4911.4 | 3568.6 | 3387.1 | 3523.2 | 3620.0 | 3713.8 | 3756.1 | 3783.3 | 3807.5 |
| 30°   | 7524.3 | 6759.2 | 4457.7 | 3344.8 | 3344.8 | 3462.7 | 3586.7 | 3610.9 | 3668.4 | 3701.7 | 3744.0 |
| 32.5° | 7596.9 | 6529.3 | 3992.0 | 3202.7 | 3302.5 | 3493.0 | 3502.1 | 3547.4 | 3550.5 | 3577.7 | 3532.3 |
| 35°   | 7787.4 | 6366.0 | 3559.5 | 3099.8 | 3320.6 | 3462.7 | 3508.1 | 3480.9 | 3332.7 | 3260.1 | 3275.2 |
| 37.5° | 7926.5 | 6284.4 | 3248.0 | 3087.7 | 3323.6 | 3496.0 | 3520.2 | 3314.6 | 3160.3 | 3039.4 | 3069.6 |
| 40°   | 8301.5 | 6081.7 | 3012.1 | 3066.6 | 3350.9 | 3532.3 | 3465.8 | 3242.0 | 2963.8 | 2839.8 | 2818.6 |
| 42.5° | 8588.8 | 5936.6 | 2864.0 | 3042.4 | 3372.0 | 3583.7 | 3438.6 | 3096.8 | 2812.5 | 2697.6 | 2727.9 |
| 45°   | 8921.5 | 5903.3 | 2785.3 | 3048.4 | 3408.3 | 3610.9 | 3405.3 | 2984.9 | 2682.5 | 2637.1 | 2628.1 |
| 47.5° | 9039.4 | 5664.4 | 2700.6 | 2997.0 | 3399.2 | 3601.9 | 3293.4 | 2900.2 | 2634.1 | 2640.2 | 2664.4 |
| 50°   | 8842.9 | 5419.4 | 2637.1 | 2891.2 | 3338.8 | 3520.2 | 3118.0 | 2788.3 | 2606.9 | 2682.5 | 2724.8 |
| 52.5° | 8591.9 | 5168.4 | 2507.1 | 2749.0 | 3214.8 | 3393.2 | 3036.3 | 2782.3 | 2579.7 | 2555.5 | 2564.6 |
| 55°   | 8667.5 | 4962.8 | 2325.6 | 2555.5 | 3015.2 | 3157.3 | 2945.6 | 2724.8 | 2513.1 | 2422.4 | 2452.7 |
| 56°   | 8422.5 | 4751.1 | 2207.7 | 2434.5 | 2879.1 | 3006.1 | 2900.2 | 2673.4 | 2458.7 | 2398.2 | 2398.2 |
| 57.5° | 7729.9 | 4040.4 | 2053.5 | 2241.0 | 2591.8 | 2743.0 | 2812.5 | 2643.2 | 2398.2 | 2292.4 | 2295.4 |
| 60°   | 5700.7 | 2873.0 | 1841.8 | 1974.8 | 2147.2 | 2268.2 | 2591.8 | 2558.5 | 2247.0 | 2174.4 | 2147.2 |
| 62.5° | 3514.2 | 2098.8 | 1690.5 | 1742.0 | 1829.7 | 1929.5 | 2262.1 | 2316.6 | 2086.7 | 2008.1 | 1989.9 |
| 65°   | 1968.8 | 1605.9 | 1575.6 | 1596.8 | 1639.1 | 1690.5 | 1878.0 | 1999.0 | 1841.8 | 1720.8 | 1714.7 |
| 67.5° | 1439.5 | 1436.5 | 1460.7 | 1478.9 | 1497.0 | 1497.0 | 1542.4 | 1590.7 | 1569.6 | 1472.8 | 1463.7 |
| 70°   | 1279.3 | 1288.3 | 1306.5 | 1309.5 | 1315.5 | 1294.4 | 1258.1 | 1243.0 | 1267.2 | 1206.7 | 1194.6 |
| 72.5° | 1055.5 | 1085.7 | 1106.9 | 1109.9 | 1076.6 | 1049.4 | 1001.0 | 949.6  | 931.5  | 919.4  | 916.3  |
| 75°   | 810.5  | 831.7  | 840.7  | 837.7  | 825.6  | 786.3  | 728.8  | 677.4  | 644.2  | 607.9  | 626.0  |
| 77.5° | 547.4  | 577.6  | 592.8  | 592.8  | 574.6  | 514.1  | 486.9  | 447.6  | 414.3  | 375.0  | 381.1  |
| 80°   | 384.1  | 405.2  | 429.4  | 426.4  | 396.2  | 365.9  | 326.6  | 290.3  | 263.1  | 232.9  | 229.8  |
| 82.5° | 287.3  | 299.4  | 311.5  | 305.4  | 284.3  | 254.0  | 226.8  | 193.6  | 163.3  | 142.1  | 142.1  |
| 85°   | 102.8  | 111.9  | 136.1  | 142.1  | 154.2  | 154.2  | 130.0  | 108.9  | 87.7   | 72.6   | 72.6   |
| 87.5° | 30.2   | 30.2   | 33.3   | 33.3   | 30.2   | 33.3   | 27.2   | 30.2   | 33.3   | 21.2   | 21.2   |
| 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)