

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: P653998

Luminaire Tested: **GLAN-SA7A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15802.4 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

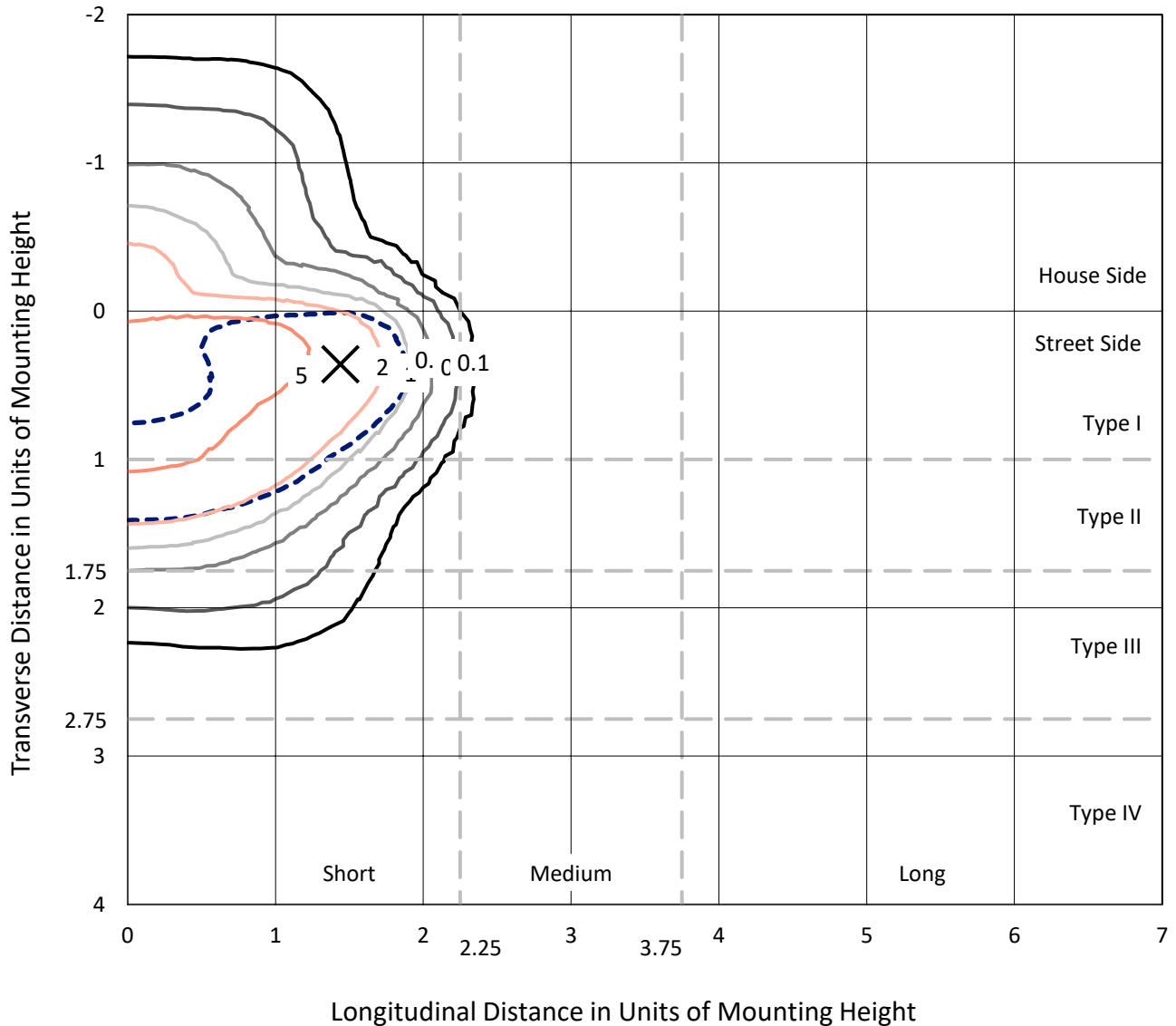
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

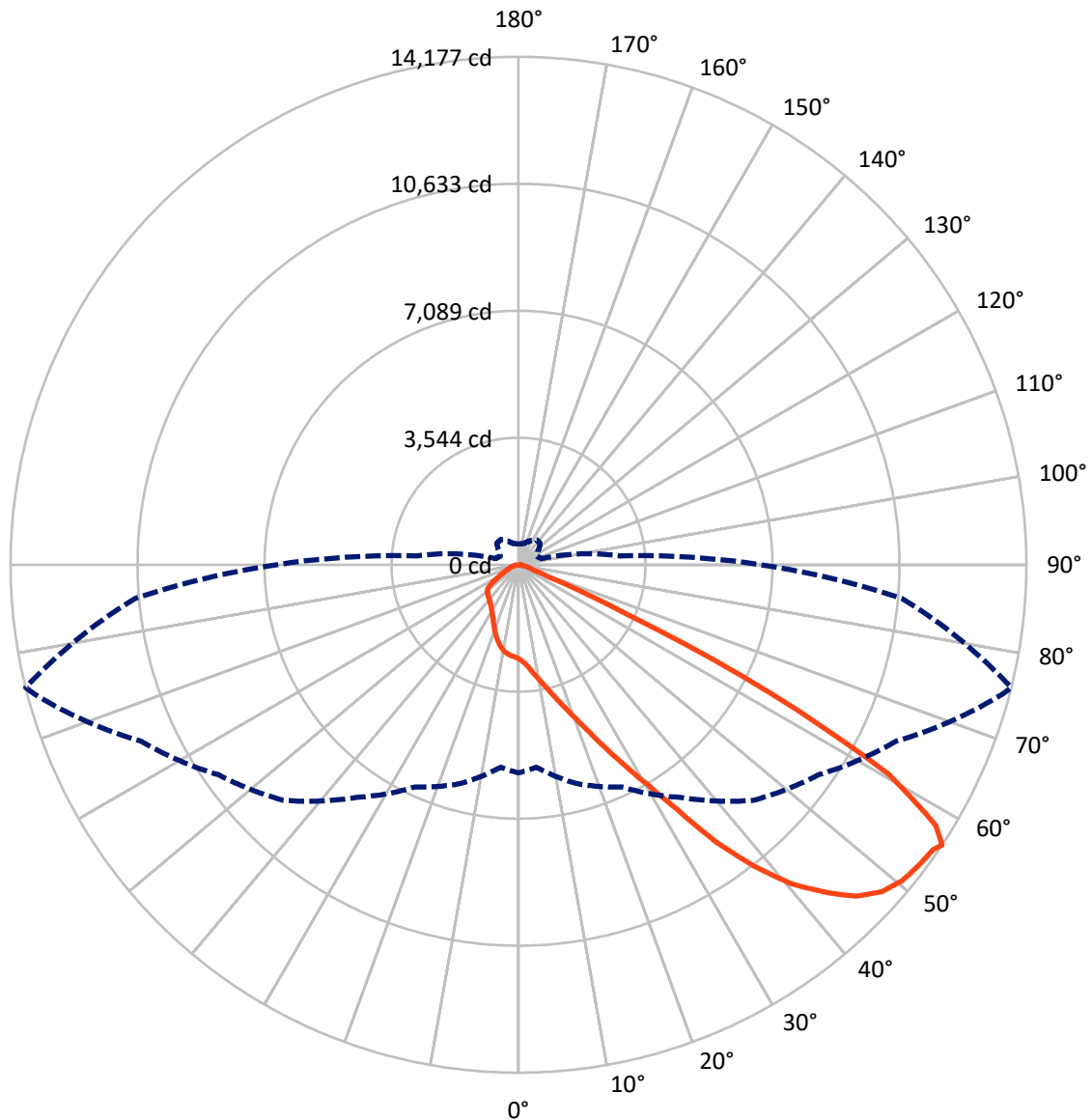
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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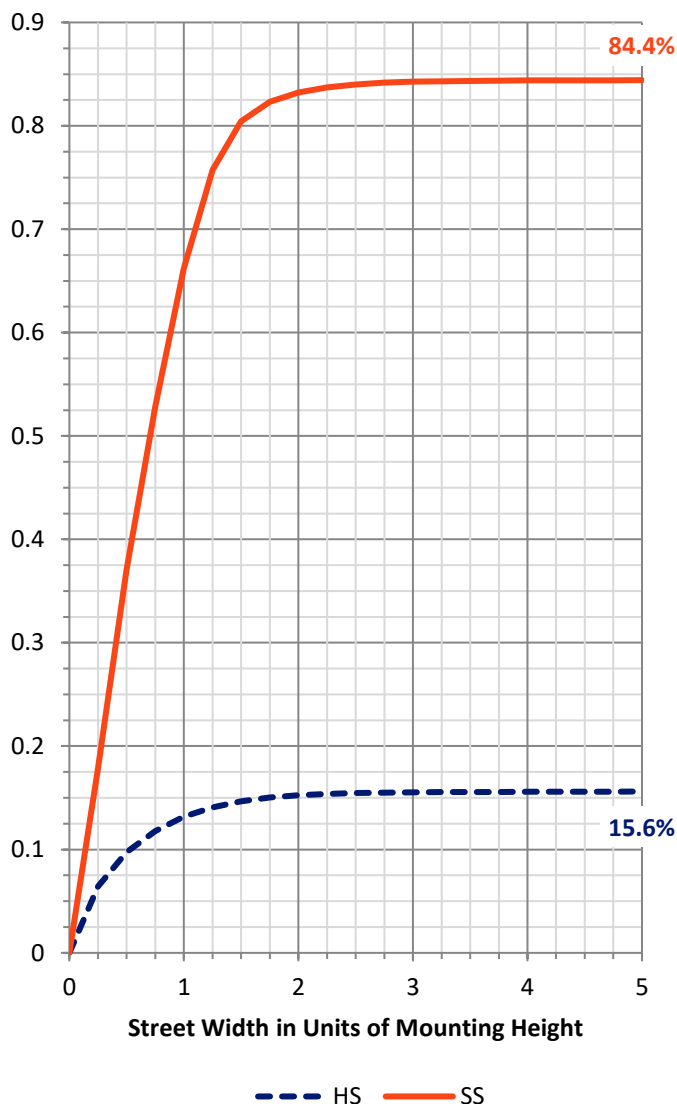
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2482.5   | 0.0    | 2482.5  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 13319.9  | 0.0    | 13319.9 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 15802.4  | 0.0    | 15802.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.0   | 1.7       |
| 10°-20°   | 851.2   | 5.4       |
| 20°-30°   | 1543.5  | 9.8       |
| 30°-40°   | 2661.9  | 16.8      |
| 40°-50°   | 4324.3  | 27.4      |
| 50°-60°   | 4558.0  | 28.8      |
| 60°-70°   | 1392.7  | 8.8       |
| 70°-80°   | 178.5   | 1.1       |
| 80°-90°   | 27.1    | 0.2       |
| 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°    | 15802.4 | 100.0     |
| 0°-180°   | 15802.4 | 100.0     |

**Coefficient of Utilization**

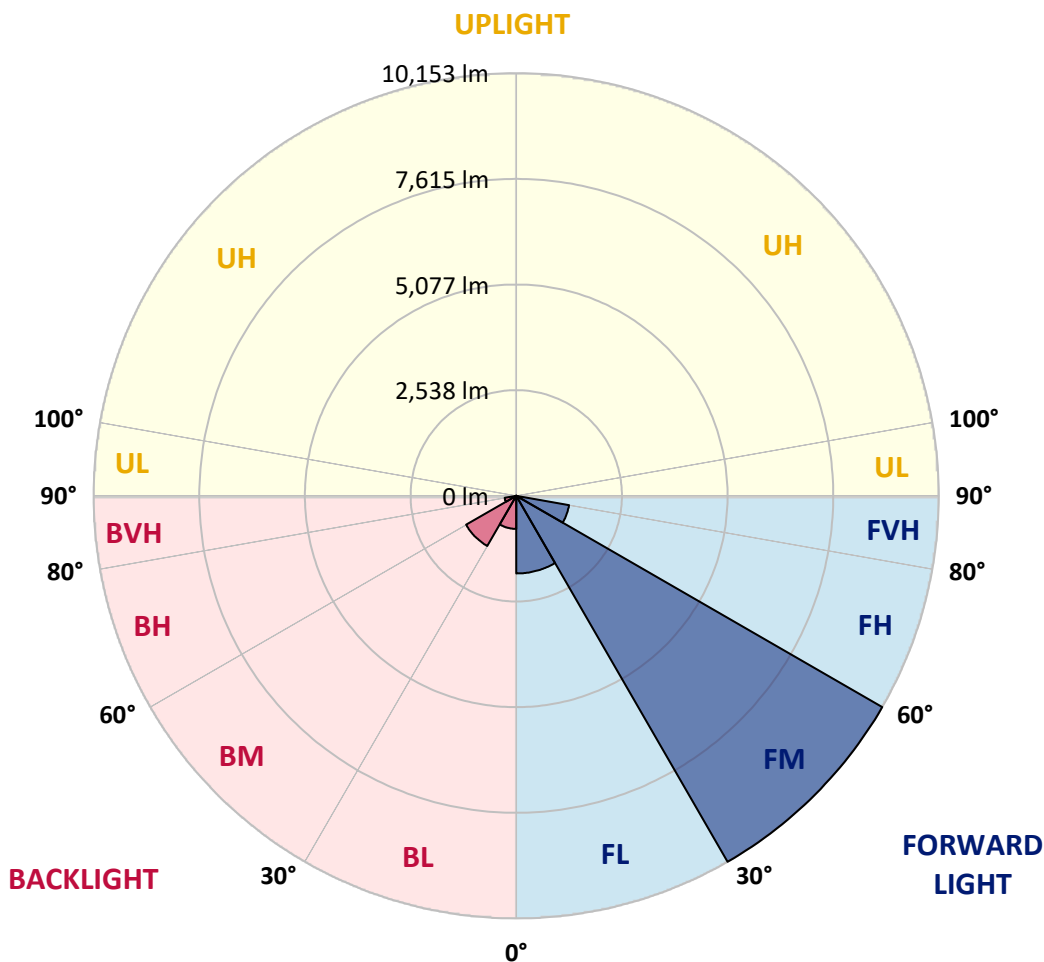


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1865.6  | 11.8      |                         |      |         |
| FM (30°-60°)   | 10153.0 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1288.0  | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 13.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 794.1   | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1391.3  | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 283.2   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.8    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  | 2630.3  |
| 2.5°  | 3029.4  | 2959.5  | 2962.4  | 2956.5  | 2947.9  | 2915.8  | 2819.7  | 2805.1  | 2741.0  | 2723.6  | 2665.3  |
| 5°    | 3393.5  | 3332.3  | 3367.3  | 3314.9  | 3265.4  | 3236.3  | 3078.9  | 3006.1  | 2904.1  | 2866.3  | 2784.7  |
| 7.5°  | 3620.7  | 3591.6  | 3580.0  | 3582.8  | 3536.2  | 3463.4  | 3393.5  | 3233.3  | 3096.4  | 3067.3  | 2895.4  |
| 10°   | 3731.4  | 3713.9  | 3731.4  | 3722.7  | 3743.0  | 3751.8  | 3629.4  | 3533.3  | 3332.3  | 3282.8  | 3014.8  |
| 12.5° | 3757.6  | 3792.6  | 3807.1  | 3845.0  | 3894.5  | 3979.0  | 3970.3  | 3839.2  | 3571.2  | 3539.2  | 3198.3  |
| 15°   | 3821.7  | 3850.9  | 3836.3  | 3897.4  | 3990.6  | 4133.3  | 4209.1  | 4188.7  | 3900.3  | 3842.1  | 3411.0  |
| 17.5° | 3880.0  | 3827.6  | 3877.0  | 3999.4  | 4092.6  | 4311.1  | 4494.6  | 4579.1  | 4258.7  | 4191.6  | 3606.1  |
| 20°   | 3958.6  | 3944.0  | 3935.3  | 3996.4  | 4162.5  | 4453.8  | 4817.9  | 4972.3  | 4660.6  | 4590.7  | 3885.8  |
| 22.5° | 4197.4  | 4200.4  | 4194.6  | 4104.2  | 4223.7  | 4552.8  | 5100.4  | 5482.1  | 5141.2  | 5083.0  | 4203.3  |
| 25°   | 4512.0  | 4474.2  | 4445.0  | 4372.3  | 4357.6  | 4643.2  | 5385.9  | 6105.4  | 5718.0  | 5677.2  | 4547.0  |
| 27.5° | 4844.2  | 4844.2  | 4756.7  | 4689.8  | 4596.5  | 4867.5  | 5648.1  | 6711.3  | 6414.1  | 6358.8  | 4847.0  |
| 30°   | 5205.3  | 5225.7  | 5214.0  | 5071.3  | 5013.0  | 5112.1  | 5916.1  | 7486.1  | 7212.3  | 7142.4  | 5342.2  |
| 32.5° | 5738.4  | 5694.7  | 5744.2  | 5624.8  | 5452.9  | 5540.3  | 6338.4  | 8179.4  | 8249.3  | 8150.2  | 5991.8  |
| 35°   | 6443.3  | 6417.1  | 6385.0  | 6189.8  | 5986.0  | 6055.9  | 6935.6  | 9032.8  | 9551.3  | 9501.8  | 6647.2  |
| 37.5° | 7075.4  | 7060.8  | 7034.6  | 6900.6  | 6664.7  | 6749.1  | 7614.2  | 9921.3  | 10821.3 | 10658.2 | 7573.5  |
| 40°   | 7739.6  | 7818.2  | 7733.7  | 7614.2  | 7398.7  | 7585.1  | 8412.4  | 10448.5 | 11890.4 | 11692.3 | 8281.3  |
| 42.5° | 8639.6  | 8578.5  | 8616.3  | 8397.8  | 8281.3  | 8485.2  | 9213.4  | 10975.7 | 12720.5 | 12484.6 | 9032.8  |
| 45°   | 9597.9  | 9600.9  | 9498.9  | 9429.0  | 9126.0  | 9347.5  | 9705.7  | 11267.0 | 13381.7 | 13198.2 | 9600.9  |
| 47.5° | 10212.6 | 10209.7 | 10320.3 | 10431.0 | 10119.3 | 9900.8  | 10040.7 | 11543.7 | 13722.6 | 13638.1 | 9807.7  |
| 50°   | 10116.5 | 10145.6 | 10288.3 | 10701.9 | 10865.0 | 10570.9 | 10355.3 | 11462.2 | 13877.0 | 13868.3 | 9985.4  |
| 52.5° | 8799.8  | 8895.9  | 9134.8  | 9732.0  | 10553.4 | 10917.4 | 10684.5 | 11613.6 | 13952.7 | 13967.2 | 10250.4 |
| 55°   | 6699.7  | 6752.1  | 7206.4  | 7931.8  | 8840.6  | 10087.3 | 10553.4 | 11733.0 | 14011.0 | 14037.2 | 10570.9 |
| 56°   | 5811.2  | 5671.4  | 6326.8  | 6842.4  | 7928.9  | 9292.1  | 10221.3 | 11639.9 | 13976.0 | 14177.0 | 10731.1 |
| 57.5° | 4386.8  | 4293.6  | 4823.7  | 5467.5  | 6513.2  | 7952.2  | 9190.1  | 11200.0 | 13740.1 | 13737.1 | 10500.9 |
| 60°   | 2668.2  | 2575.0  | 2982.8  | 3361.5  | 3947.0  | 4896.6  | 6210.3  | 8919.2  | 11616.6 | 11861.2 | 8502.7  |
| 62.5° | 1587.6  | 1645.8  | 2047.8  | 2277.8  | 2467.2  | 2566.2  | 3212.9  | 5301.4  | 7751.2  | 7925.9  | 5275.3  |
| 65°   | 1057.4  | 1077.7  | 1380.7  | 1759.4  | 1843.9  | 1468.1  | 1307.9  | 2146.8  | 3361.5  | 3253.7  | 2175.9  |
| 67.5° | 652.4   | 699.1   | 926.3   | 1322.5  | 1465.2  | 1071.9  | 620.4   | 801.1   | 926.3   | 926.3   | 629.2   |
| 70°   | 396.1   | 419.5   | 617.5   | 900.0   | 1004.9  | 690.4   | 451.5   | 451.5   | 445.6   | 436.9   | 375.8   |
| 72.5° | 189.3   | 203.9   | 314.6   | 463.1   | 471.9   | 364.1   | 349.5   | 381.6   | 372.8   | 370.0   | 311.7   |
| 75°   | 81.6    | 87.4    | 110.7   | 145.7   | 166.0   | 154.4   | 212.6   | 273.8   | 282.6   | 273.8   | 224.3   |
| 77.5° | 26.2    | 29.1    | 40.8    | 52.4    | 55.3    | 67.0    | 90.3    | 113.6   | 131.1   | 122.4   | 110.7   |
| 80°   | 2.9     | 5.8     | 11.7    | 26.2    | 40.8    | 52.4    | 67.0    | 75.8    | 84.4    | 84.4    | 78.6    |
| 82.5° | 2.9     | 2.9     | 11.7    | 23.3    | 37.8    | 49.5    | 64.1    | 72.8    | 84.4    | 87.4    | 81.6    |
| 85°   | 0.0     | 2.9     | 8.7     | 20.4    | 32.0    | 32.0    | 29.1    | 29.1    | 20.4    | 20.4    | 20.4    |
| 87.5° | 0.0     | 0.0     | 2.9     | 2.9     | 2.9     | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     |
| 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°    | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 | 2630.3 |
| 2.5°  | 2653.6 | 2647.8 | 2569.2 | 2519.6 | 2493.4 | 2441.0 | 2409.0 | 2385.7 | 2368.2 | 2347.8 | 2350.7 |
| 5°    | 2688.6 | 2668.2 | 2537.1 | 2446.8 | 2339.1 | 2280.8 | 2231.3 | 2190.5 | 2164.2 | 2158.4 | 2146.8 |
| 7.5°  | 2787.7 | 2679.8 | 2481.8 | 2318.6 | 2181.7 | 2123.5 | 2079.8 | 2053.6 | 2065.2 | 2039.0 | 2059.4 |
| 10°   | 2863.4 | 2703.1 | 2414.8 | 2178.9 | 2041.9 | 1998.2 | 1974.9 | 1995.4 | 2024.5 | 2012.8 | 1998.2 |
| 12.5° | 2956.5 | 2726.4 | 2307.0 | 2044.8 | 1916.6 | 1884.6 | 1925.4 | 1963.3 | 2021.5 | 2044.8 | 2015.7 |
| 15°   | 3061.4 | 2752.7 | 2170.1 | 1890.5 | 1808.9 | 1835.1 | 1905.0 | 1972.1 | 2030.3 | 2059.4 | 2076.8 |
| 17.5° | 3189.6 | 2743.9 | 2036.1 | 1768.1 | 1707.0 | 1782.7 | 1867.2 | 1928.3 | 2015.7 | 2059.4 | 2047.8 |
| 20°   | 3309.0 | 2714.8 | 1887.5 | 1645.8 | 1648.7 | 1718.6 | 1788.5 | 1887.5 | 1934.1 | 1992.4 | 1972.1 |
| 22.5° | 3422.6 | 2662.4 | 1733.1 | 1561.3 | 1561.3 | 1669.0 | 1704.0 | 1768.1 | 1808.9 | 1838.0 | 1835.1 |
| 25°   | 3582.8 | 2563.4 | 1605.0 | 1479.7 | 1514.7 | 1584.6 | 1613.7 | 1634.1 | 1616.7 | 1640.0 | 1642.9 |
| 27.5° | 3696.4 | 2461.4 | 1500.1 | 1406.9 | 1471.0 | 1523.5 | 1514.7 | 1503.0 | 1462.2 | 1430.2 | 1450.6 |
| 30°   | 3818.8 | 2341.9 | 1409.9 | 1357.4 | 1392.4 | 1439.0 | 1404.0 | 1369.1 | 1305.0 | 1252.5 | 1255.4 |
| 32.5° | 3993.6 | 2286.6 | 1331.2 | 1299.2 | 1345.8 | 1351.6 | 1313.7 | 1261.2 | 1197.2 | 1147.7 | 1144.8 |
| 35°   | 4319.8 | 2251.7 | 1264.2 | 1261.2 | 1270.0 | 1272.9 | 1235.1 | 1171.0 | 1144.8 | 1104.0 | 1118.5 |
| 37.5° | 4646.0 | 2234.2 | 1217.6 | 1205.9 | 1203.1 | 1205.9 | 1162.3 | 1101.0 | 1150.6 | 1147.7 | 1153.5 |
| 40°   | 5062.6 | 2312.8 | 1150.6 | 1136.0 | 1139.0 | 1139.0 | 1083.6 | 1066.1 | 1153.5 | 1162.3 | 1165.1 |
| 42.5° | 5484.9 | 2411.9 | 1106.9 | 1060.2 | 1071.9 | 1071.9 | 1042.8 | 1022.4 | 1083.6 | 1025.3 | 1016.6 |
| 45°   | 5852.0 | 2557.5 | 1060.2 | 984.6  | 1013.7 | 1028.2 | 1019.5 | 984.6  | 946.7  | 847.6  | 847.6  |
| 47.5° | 5971.4 | 2685.6 | 1004.9 | 911.7  | 935.0  | 999.1  | 972.9  | 900.0  | 833.1  | 751.5  | 745.7  |
| 50°   | 6181.1 | 2825.5 | 961.3  | 827.3  | 876.7  | 955.5  | 929.2  | 856.4  | 780.6  | 722.4  | 725.3  |
| 52.5° | 6396.6 | 2985.7 | 879.7  | 728.2  | 789.4  | 920.5  | 920.5  | 838.9  | 722.4  | 681.6  | 675.8  |
| 55°   | 6720.0 | 2979.9 | 734.0  | 597.1  | 704.9  | 868.1  | 882.6  | 751.5  | 646.6  | 614.6  | 614.6  |
| 56°   | 6766.6 | 2845.9 | 661.2  | 559.3  | 667.1  | 853.4  | 856.4  | 728.2  | 617.5  | 582.6  | 582.6  |
| 57.5° | 6417.1 | 2569.2 | 579.7  | 512.7  | 620.4  | 827.3  | 830.2  | 707.9  | 594.3  | 544.7  | 538.9  |
| 60°   | 4937.3 | 1739.0 | 483.6  | 457.3  | 562.2  | 745.7  | 760.3  | 643.8  | 521.4  | 483.6  | 480.6  |
| 62.5° | 2787.7 | 964.1  | 425.3  | 413.6  | 483.6  | 635.0  | 678.7  | 562.2  | 442.8  | 422.4  | 428.2  |
| 65°   | 1272.9 | 530.2  | 358.3  | 335.0  | 390.3  | 489.4  | 547.7  | 463.1  | 364.1  | 340.8  | 340.8  |
| 67.5° | 466.1  | 361.2  | 305.9  | 265.1  | 273.8  | 317.5  | 355.4  | 300.0  | 241.8  | 206.8  | 215.5  |
| 70°   | 332.0  | 302.9  | 268.0  | 230.1  | 212.6  | 206.8  | 203.9  | 169.0  | 119.4  | 93.2   | 99.1   |
| 72.5° | 268.0  | 250.5  | 224.3  | 195.2  | 166.0  | 139.9  | 119.4  | 87.4   | 55.3   | 37.8   | 35.0   |
| 75°   | 192.3  | 183.5  | 163.2  | 139.9  | 116.5  | 99.1   | 81.6   | 55.3   | 29.1   | 14.5   | 14.5   |
| 77.5° | 99.1   | 99.1   | 96.1   | 87.4   | 72.8   | 58.3   | 46.6   | 32.0   | 17.5   | 5.8    | 5.8    |
| 80°   | 75.8   | 81.6   | 84.4   | 75.8   | 67.0   | 52.4   | 37.8   | 23.3   | 11.7   | 2.9    | 2.9    |
| 82.5° | 72.8   | 84.4   | 90.3   | 78.6   | 67.0   | 49.5   | 37.8   | 23.3   | 11.7   | 2.9    | 2.9    |
| 85°   | 17.5   | 17.5   | 26.2   | 29.1   | 37.8   | 40.8   | 32.0   | 20.4   | 8.7    | 2.9    | 2.9    |
| 87.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 2.9    | 2.9    | 2.9    | 2.9    | 0.0    |
| 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)