

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: P457897

Luminaire Tested: **GLAN-SA9B-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46587 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

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



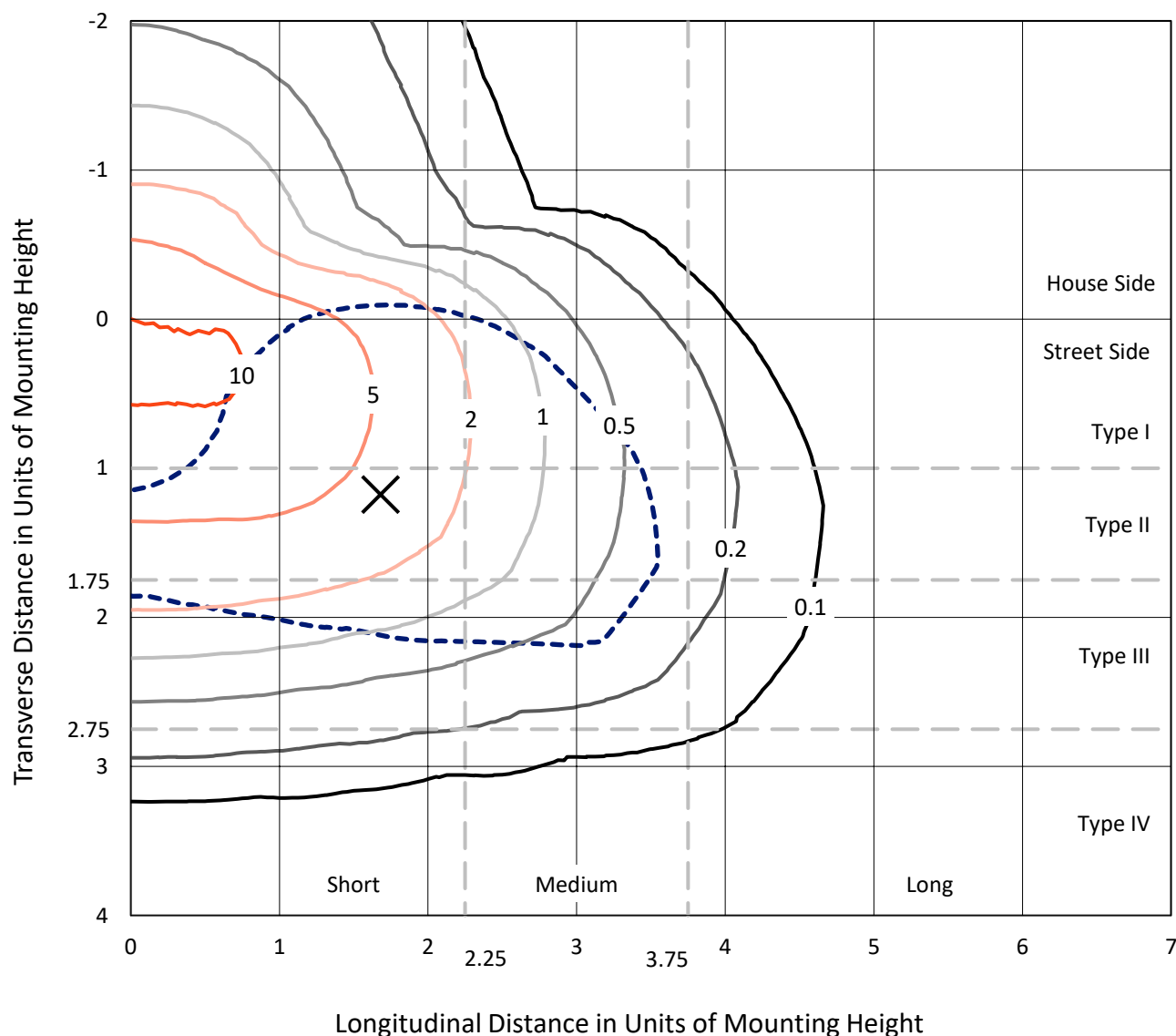
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

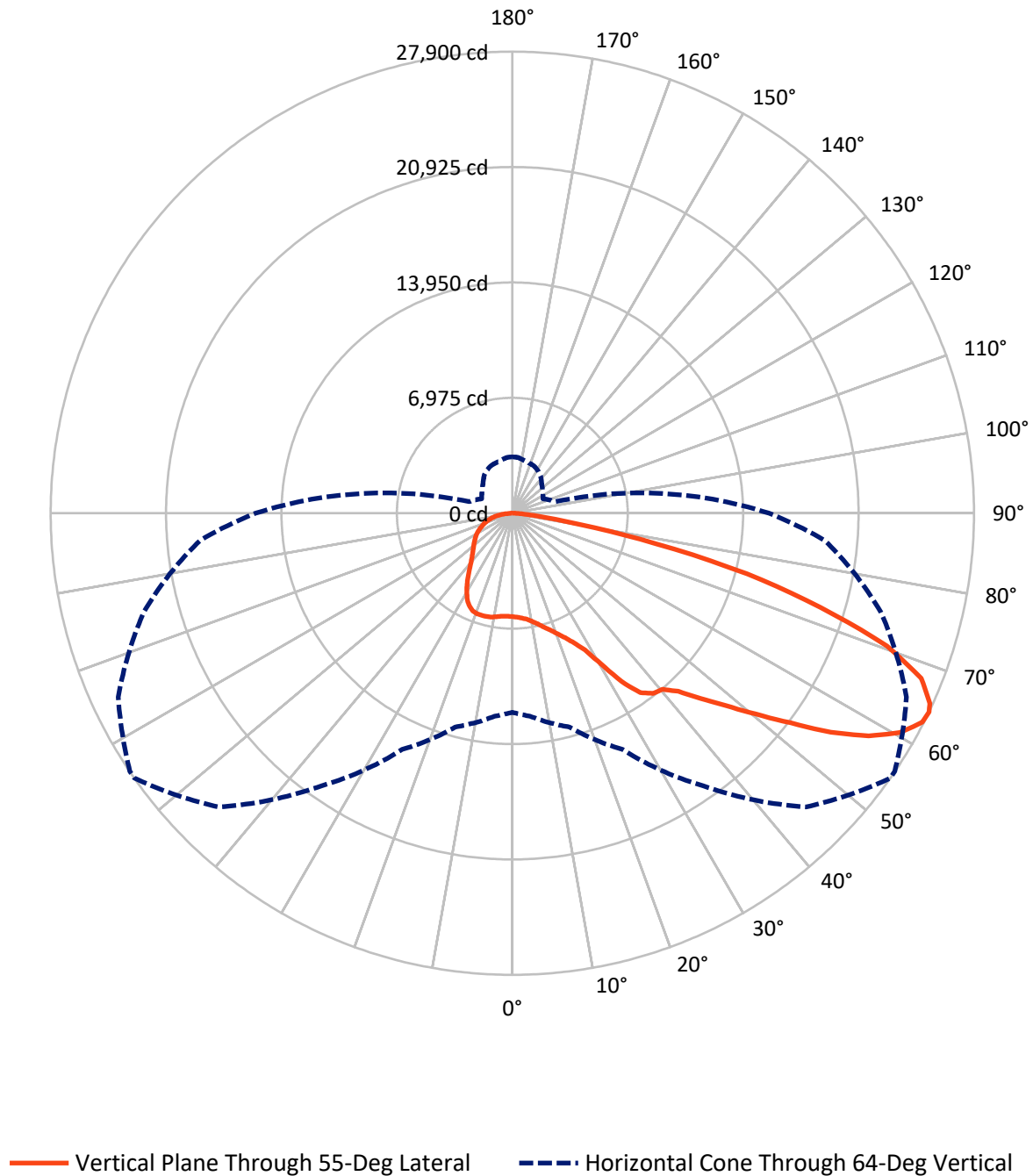


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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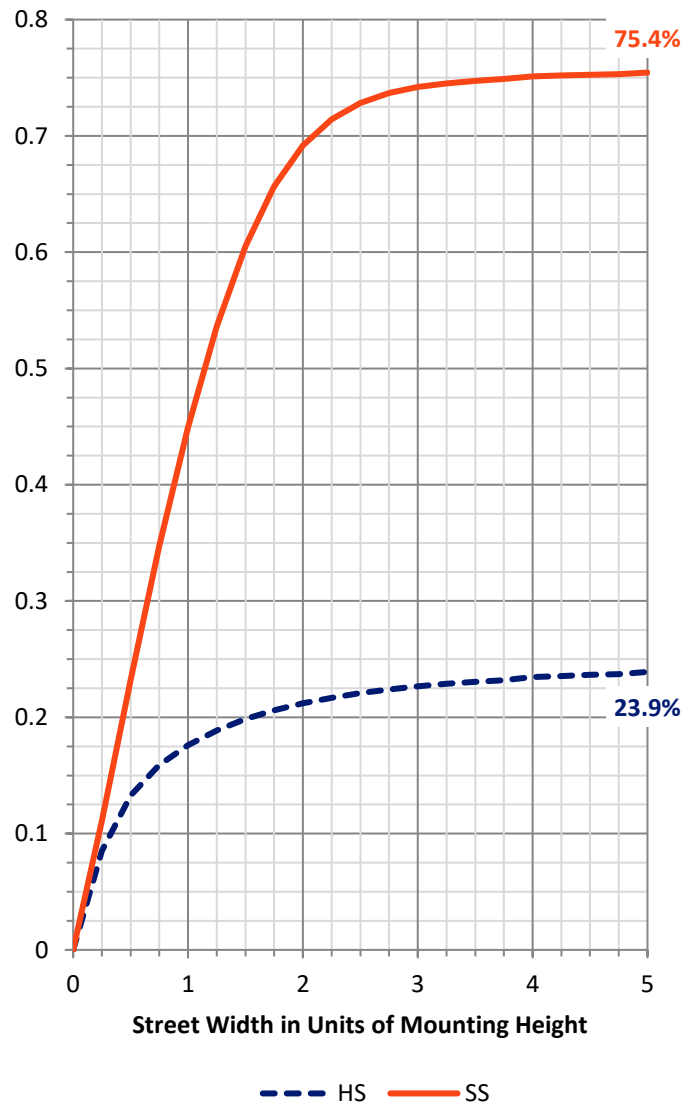
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11316.9  | 0.0    | 11316.9 |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 35270.1  | 0.0    | 35270.1 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 46587.0  | 0.0    | 46587.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 608.0   | 1.3       |
| 10°-20°   | 1918.5  | 4.1       |
| 20°-30°   | 3415.4  | 7.3       |
| 30°-40°   | 5254.9  | 11.3      |
| 40°-50°   | 7449.3  | 16.0      |
| 50°-60°   | 10782.7 | 23.1      |
| 60°-70°   | 11158.9 | 24.0      |
| 70°-80°   | 5225.7  | 11.2      |
| 80°-90°   | 773.6   | 1.7       |
| 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°    | 46587.0 | 100.0     |
| 0°-180°   | 46587.0 | 100.0     |

**Coefficient of Utilization**



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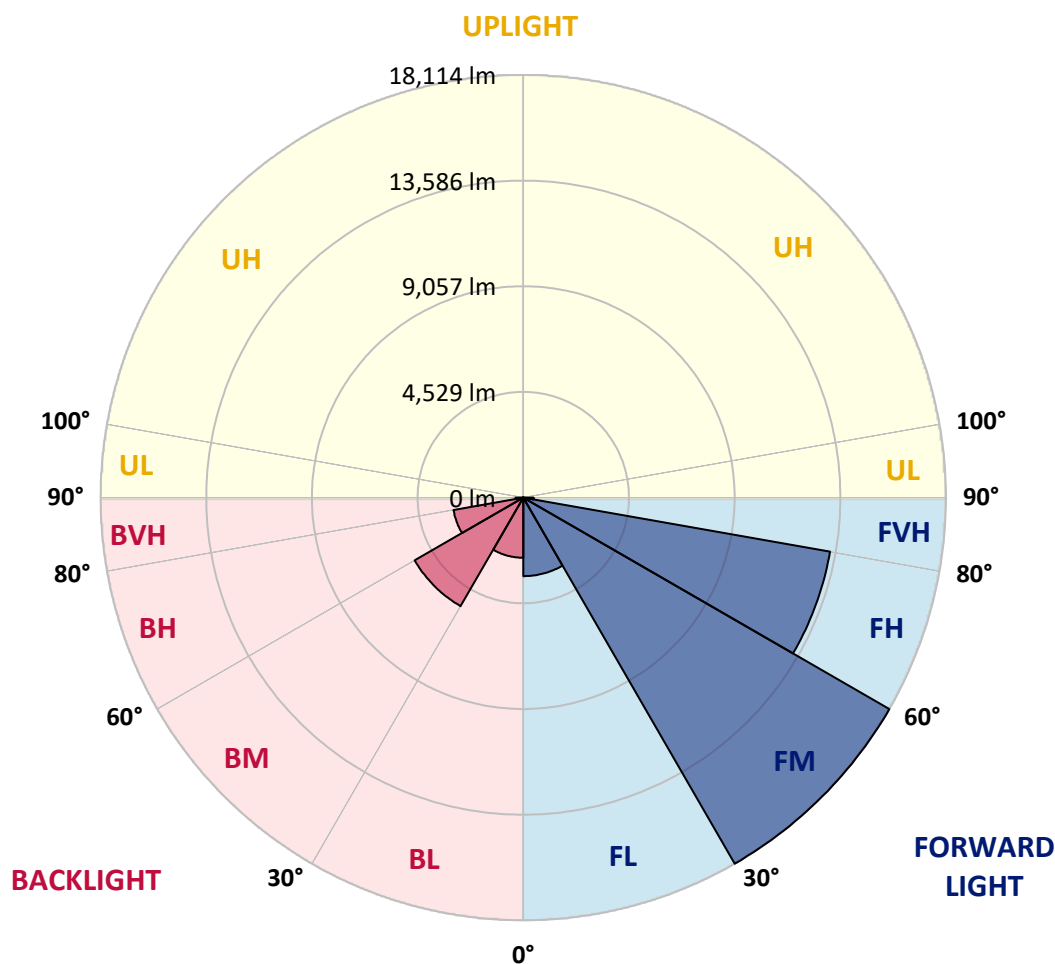
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3364.3  | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 18114.3 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 13348.5 | 28.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 442.9   | 1.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2577.5  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5372.6  | 11.5      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3036.1  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 330.7   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  | 6250.6  |
| 2.5°  | 6320.7  | 6318.1  | 6325.9  | 6318.1  | 6323.3  | 6305.1  | 6297.3  | 6302.5  | 6294.7  | 6281.7  | 6258.4  |
| 5°    | 6398.6  | 6396.0  | 6398.6  | 6388.2  | 6393.4  | 6383.0  | 6364.8  | 6370.0  | 6357.0  | 6328.5  | 6294.7  |
| 7.5°  | 6531.0  | 6520.6  | 6520.6  | 6518.0  | 6507.7  | 6492.1  | 6479.1  | 6473.9  | 6460.9  | 6424.6  | 6372.6  |
| 10°   | 6702.4  | 6702.4  | 6705.0  | 6684.2  | 6697.2  | 6668.7  | 6655.7  | 6653.1  | 6608.9  | 6562.2  | 6489.5  |
| 12.5° | 6928.3  | 6941.3  | 6933.5  | 6923.1  | 6918.0  | 6907.6  | 6863.4  | 6873.8  | 6824.5  | 6744.0  | 6655.7  |
| 15°   | 7208.8  | 7229.6  | 7216.6  | 7211.4  | 7198.4  | 7159.5  | 7141.3  | 7133.5  | 7068.6  | 6951.7  | 6834.9  |
| 17.5° | 7580.1  | 7554.2  | 7543.8  | 7530.8  | 7476.3  | 7447.7  | 7416.5  | 7411.4  | 7354.2  | 7216.6  | 7034.8  |
| 20°   | 7904.7  | 7941.1  | 7920.3  | 7907.3  | 7852.8  | 7798.3  | 7774.9  | 7767.1  | 7717.8  | 7567.2  | 7276.3  |
| 22.5° | 8291.7  | 8299.5  | 8307.3  | 8276.1  | 8250.1  | 8208.6  | 8167.0  | 8154.0  | 8135.9  | 7980.1  | 7624.3  |
| 25°   | 8704.6  | 8735.7  | 8709.8  | 8678.6  | 8647.4  | 8644.8  | 8683.8  | 8678.6  | 8670.8  | 8520.2  | 8086.5  |
| 27.5° | 9377.2  | 9405.7  | 9413.5  | 9379.7  | 9260.3  | 9270.7  | 9359.0  | 9387.5  | 9507.0  | 9257.7  | 8681.2  |
| 30°   | 9756.3  | 9784.9  | 9849.8  | 9977.0  | 10166.6 | 10332.8 | 10545.7 | 10610.6 | 10724.9 | 10254.9 | 9387.5  |
| 32.5° | 9990.0  | 10000.4 | 10117.2 | 10353.6 | 10922.3 | 11542.9 | 12122.0 | 12145.4 | 12218.1 | 11558.5 | 10034.2 |
| 35°   | 10358.8 | 10366.5 | 10460.0 | 10719.7 | 11387.1 | 12420.6 | 13316.5 | 13345.1 | 13285.4 | 11963.6 | 10335.4 |
| 37.5° | 10813.2 | 10834.0 | 10893.7 | 11109.2 | 11906.5 | 13155.5 | 13812.5 | 13791.8 | 13262.0 | 12285.6 | 10867.7 |
| 40°   | 11475.4 | 11475.4 | 11405.3 | 11696.1 | 12454.4 | 13576.2 | 13986.5 | 13950.2 | 13809.9 | 13217.9 | 11677.9 |
| 42.5° | 12059.7 | 12049.3 | 12215.5 | 12412.8 | 13140.0 | 14225.4 | 14716.2 | 14776.0 | 15007.1 | 14389.0 | 12599.8 |
| 45°   | 12820.5 | 12867.3 | 12960.8 | 13319.1 | 14305.9 | 15334.3 | 15967.9 | 16025.0 | 16352.2 | 15768.0 | 13677.5 |
| 47.5° | 13589.2 | 13604.8 | 13898.2 | 14376.0 | 15749.8 | 16837.8 | 17357.2 | 17450.7 | 17749.3 | 17380.6 | 14838.3 |
| 50°   | 14134.5 | 14282.6 | 14752.6 | 15505.7 | 17237.8 | 18671.2 | 19076.3 | 19188.0 | 19715.1 | 19136.0 | 16191.2 |
| 52.5° | 14711.0 | 14856.5 | 15430.4 | 16578.2 | 18946.5 | 20546.1 | 21044.7 | 21120.0 | 21667.9 | 20912.3 | 17575.3 |
| 55°   | 15204.4 | 15339.5 | 15991.3 | 17528.6 | 20307.2 | 22460.0 | 23363.7 | 23275.4 | 23537.7 | 22280.8 | 18642.6 |
| 57.5° | 15284.9 | 15394.0 | 16214.6 | 18136.3 | 21330.4 | 24101.2 | 25397.0 | 25448.9 | 25145.1 | 23304.0 | 19523.0 |
| 60°   | 14661.7 | 14885.0 | 15827.7 | 18071.3 | 21790.0 | 25243.8 | 26913.5 | 26949.9 | 26087.8 | 23828.5 | 19873.5 |
| 62.5° | 13558.0 | 13534.7 | 14674.7 | 17027.4 | 21146.0 | 25503.5 | 27806.9 | 27767.9 | 26456.5 | 23576.6 | 19533.4 |
| 64°   | 12033.7 | 12314.2 | 13378.9 | 15744.6 | 20107.3 | 25103.6 | 27900.3 | 27879.6 | 26279.9 | 23052.1 | 18954.3 |
| 65°   | 11104.0 | 11088.5 | 12140.2 | 14695.5 | 19073.7 | 24501.1 | 27734.1 | 27705.6 | 25911.2 | 22582.0 | 18505.0 |
| 67.5° | 8016.4  | 8052.8  | 9091.5  | 11340.4 | 15505.7 | 22145.8 | 26651.3 | 26544.8 | 24456.9 | 21023.9 | 16796.3 |
| 70°   | 4856.1  | 4876.8  | 5692.3  | 7523.0  | 11130.0 | 17902.5 | 24023.3 | 24028.5 | 22231.5 | 18697.2 | 14295.5 |
| 72.5° | 2557.9  | 2612.4  | 2939.6  | 4271.8  | 6759.5  | 12560.9 | 19489.2 | 19951.4 | 19086.7 | 15957.5 | 11293.6 |
| 75°   | 1423.1  | 1430.9  | 1662.0  | 2106.0  | 3448.6  | 7029.6  | 14648.7 | 14781.2 | 15111.0 | 12843.9 | 8351.4  |
| 77.5° | 1085.5  | 1101.1  | 1173.8  | 1360.7  | 1877.5  | 3259.0  | 8865.6  | 9530.4  | 10649.6 | 9055.1  | 4765.2  |
| 80°   | 880.3   | 895.9   | 958.2   | 1069.9  | 1249.1  | 1545.1  | 4118.6  | 4476.9  | 5700.0  | 4019.9  | 1859.3  |
| 82.5° | 685.6   | 675.2   | 755.7   | 828.4   | 908.9   | 914.1   | 1690.5  | 1869.7  | 2321.6  | 1729.5  | 805.0   |
| 85°   | 509.0   | 509.0   | 573.9   | 558.3   | 586.9   | 534.9   | 745.3   | 823.2   | 929.7   | 734.9   | 373.9   |
| 87.5° | 202.6   | 223.3   | 376.5   | 337.6   | 262.3   | 210.3   | 275.3   | 290.8   | 322.0   | 288.2   | 155.8   |
| 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°    | 6250.6  | 6250.6  | 6250.6 | 6250.6 | 6250.6 | 6250.6 | 6250.6 | 6250.6 | 6250.6 | 6250.6 | 6250.6 |
| 2.5°  | 6261.0  | 6268.7  | 6250.6 | 6237.6 | 6232.4 | 6224.6 | 6216.8 | 6219.4 | 6229.8 | 6240.2 | 6237.6 |
| 5°    | 6292.1  | 6294.7  | 6263.6 | 6248.0 | 6237.6 | 6227.2 | 6227.2 | 6235.0 | 6255.8 | 6271.3 | 6271.3 |
| 7.5°  | 6370.0  | 6370.0  | 6325.9 | 6297.3 | 6281.7 | 6263.6 | 6258.4 | 6261.0 | 6276.5 | 6297.3 | 6299.9 |
| 10°   | 6492.1  | 6481.7  | 6424.6 | 6380.4 | 6351.8 | 6307.7 | 6268.7 | 6248.0 | 6255.8 | 6268.7 | 6268.7 |
| 12.5° | 6640.1  | 6611.5  | 6538.8 | 6479.1 | 6409.0 | 6325.9 | 6245.4 | 6203.8 | 6201.2 | 6214.2 | 6209.0 |
| 15°   | 6798.5  | 6767.3  | 6666.1 | 6557.0 | 6434.9 | 6312.9 | 6216.8 | 6157.1 | 6110.3 | 6097.4 | 6125.9 |
| 17.5° | 6982.9  | 6918.0  | 6777.7 | 6627.1 | 6445.3 | 6286.9 | 6136.3 | 6014.3 | 5931.2 | 5907.8 | 5915.6 |
| 20°   | 7206.2  | 7120.5  | 6930.9 | 6694.6 | 6437.5 | 6193.4 | 5959.7 | 5796.1 | 5661.1 | 5619.5 | 5624.7 |
| 22.5° | 7515.2  | 7367.2  | 7089.3 | 6728.4 | 6372.6 | 6016.9 | 5692.3 | 5479.3 | 5315.7 | 5250.8 | 5289.7 |
| 25°   | 7865.8  | 7704.8  | 7240.0 | 6720.6 | 6203.8 | 5733.8 | 5375.4 | 5097.6 | 4949.6 | 4853.5 | 4874.2 |
| 27.5° | 8348.8  | 8063.2  | 7401.0 | 6650.5 | 5962.3 | 5388.4 | 4972.9 | 4710.6 | 4575.6 | 4526.3 | 4549.6 |
| 30°   | 8966.9  | 8528.0  | 7575.0 | 6460.9 | 5580.6 | 4952.2 | 4567.8 | 4396.4 | 4315.9 | 4253.6 | 4274.4 |
| 32.5° | 9413.5  | 8855.2  | 7613.9 | 6141.5 | 5167.7 | 4554.8 | 4292.6 | 4165.3 | 4077.0 | 4017.3 | 4030.3 |
| 35°   | 9732.9  | 9133.1  | 7595.7 | 5749.4 | 4736.6 | 4227.6 | 4074.4 | 3970.6 | 3827.7 | 3697.9 | 3674.5 |
| 37.5° | 10161.4 | 9481.0  | 7463.3 | 5320.9 | 4310.7 | 4006.9 | 3897.8 | 3705.7 | 3500.5 | 3326.5 | 3318.7 |
| 40°   | 10818.4 | 9888.7  | 7180.2 | 4817.1 | 3947.2 | 3843.3 | 3710.9 | 3461.6 | 3240.8 | 3100.6 | 3090.2 |
| 42.5° | 11496.2 | 10265.3 | 6795.9 | 4287.4 | 3648.5 | 3671.9 | 3510.9 | 3264.2 | 3129.2 | 3038.3 | 3027.9 |
| 45°   | 12324.6 | 10673.0 | 6380.4 | 3827.7 | 3427.8 | 3510.9 | 3336.9 | 3194.1 | 3113.6 | 3053.9 | 3038.3 |
| 47.5° | 13220.5 | 11091.1 | 5913.0 | 3414.8 | 3240.8 | 3362.9 | 3264.2 | 3199.3 | 3155.1 | 3113.6 | 3095.4 |
| 50°   | 14186.5 | 11558.5 | 5474.1 | 3082.4 | 3072.0 | 3209.7 | 3256.4 | 3233.1 | 3207.1 | 3194.1 | 3178.5 |
| 52.5° | 15246.0 | 12036.3 | 5105.4 | 2848.7 | 2924.0 | 3100.6 | 3259.0 | 3277.2 | 3277.2 | 3269.4 | 3259.0 |
| 55°   | 15962.7 | 12368.7 | 4731.4 | 2659.2 | 2773.4 | 3012.3 | 3253.8 | 3323.9 | 3349.9 | 3339.5 | 3329.1 |
| 57.5° | 16492.5 | 12550.5 | 4261.4 | 2495.6 | 2646.2 | 2926.6 | 3225.3 | 3329.1 | 3355.1 | 3368.1 | 3362.9 |
| 60°   | 16601.5 | 12381.7 | 3645.9 | 2324.2 | 2508.5 | 2802.0 | 3121.4 | 3251.2 | 3285.0 | 3365.5 | 3373.3 |
| 62.5° | 16110.7 | 11862.3 | 3033.1 | 2155.4 | 2339.7 | 2612.4 | 2981.2 | 3162.9 | 3230.5 | 3355.1 | 3368.1 |
| 64°   | 15508.3 | 11280.6 | 2692.9 | 2048.9 | 2230.7 | 2505.9 | 2911.0 | 3139.6 | 3227.9 | 3394.1 | 3404.4 |
| 65°   | 15066.8 | 10857.3 | 2480.0 | 1981.4 | 2160.6 | 2435.8 | 2872.1 | 3147.4 | 3251.2 | 3453.8 | 3469.4 |
| 67.5° | 13441.2 | 9400.5  | 2051.5 | 1823.0 | 1994.4 | 2316.4 | 2879.9 | 3212.3 | 3246.0 | 3477.2 | 3474.6 |
| 70°   | 11122.2 | 7484.1  | 1719.1 | 1677.6 | 1833.4 | 2220.3 | 2848.7 | 3108.4 | 3111.0 | 3264.2 | 3227.9 |
| 72.5° | 8328.0  | 5531.2  | 1490.6 | 1526.9 | 1654.2 | 1991.8 | 2690.3 | 2968.2 | 2924.0 | 2944.8 | 2908.4 |
| 75°   | 5720.8  | 3658.9  | 1282.8 | 1365.9 | 1467.2 | 1760.7 | 2467.0 | 2695.5 | 2625.4 | 2599.4 | 2573.5 |
| 77.5° | 3053.9  | 2022.9  | 1067.3 | 1207.5 | 1275.0 | 1521.7 | 2152.8 | 2373.5 | 2300.8 | 2199.5 | 2165.8 |
| 80°   | 1236.1  | 953.0   | 859.6  | 999.8  | 1038.7 | 1225.7 | 1791.8 | 1929.4 | 1874.9 | 1698.3 | 1641.2 |
| 82.5° | 620.6   | 571.3   | 675.2  | 786.8  | 789.4  | 875.1  | 1332.2 | 1462.0 | 1340.0 | 1124.4 | 1075.1 |
| 85°   | 324.6   | 335.0   | 464.8  | 553.1  | 488.2  | 472.6  | 799.8  | 885.5  | 812.8  | 706.3  | 636.2  |
| 87.5° | 116.9   | 135.0   | 244.1  | 241.5  | 171.4  | 90.9   | 176.6  | 85.7   | 46.7   | 28.6   | 36.4   |
| 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)