

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: P530660

Luminaire Tested: **GLAN-SA5D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P530660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25026 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

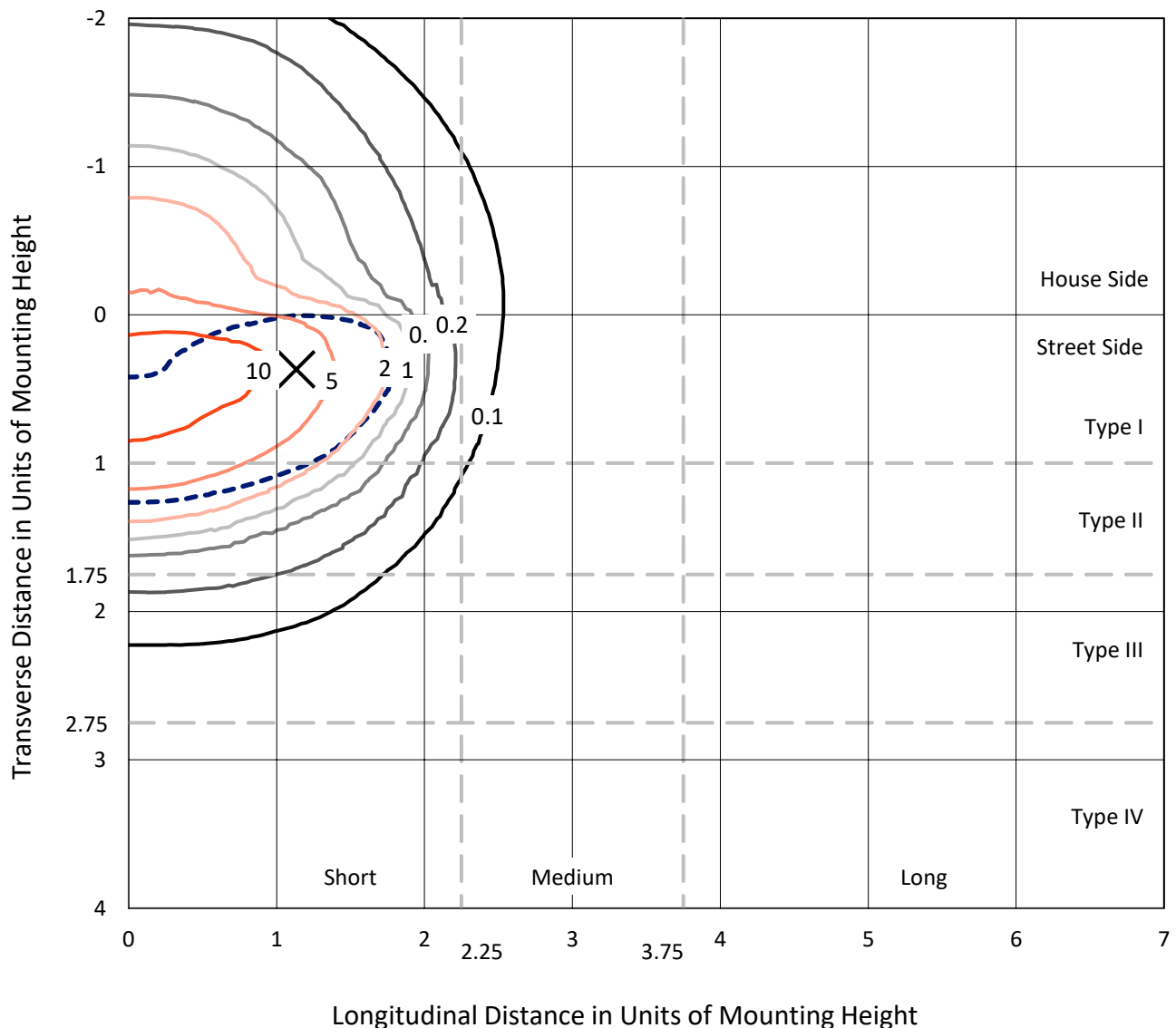
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

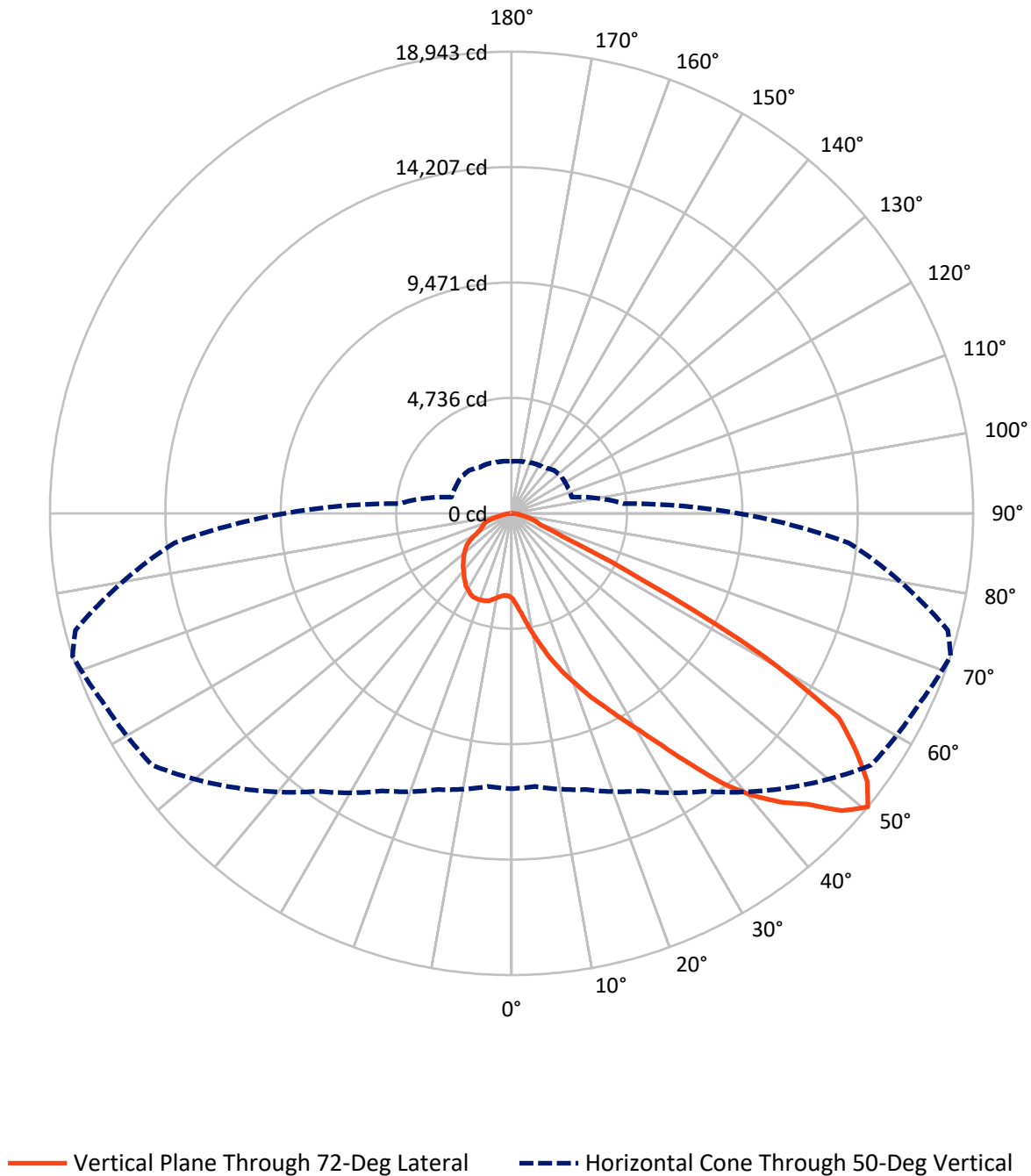
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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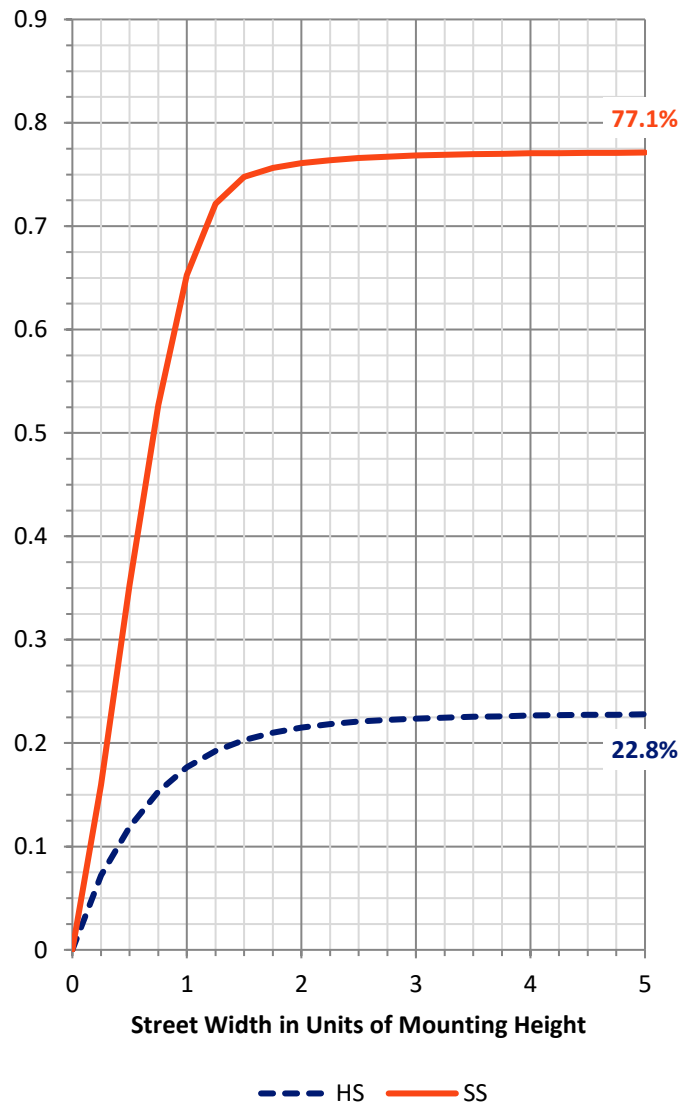
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5733.6   | 0.0    | 5733.6  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 19292.4  | 0.0    | 19292.4 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 25026.0  | 0.0    | 25026.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 409.8   | 1.6       |
| 10°-20°   | 1531.9  | 6.1       |
| 20°-30°   | 2970.3  | 11.9      |
| 30°-40°   | 4920.7  | 19.7      |
| 40°-50°   | 6885.2  | 27.5      |
| 50°-60°   | 5808.5  | 23.2      |
| 60°-70°   | 1770.4  | 7.1       |
| 70°-80°   | 621.1   | 2.5       |
| 80°-90°   | 108.0   | 0.4       |
| 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°    | 25026.0 | 100.0     |
| 0°-180°   | 25026.0 | 100.0     |

**Coefficient of Utilization**



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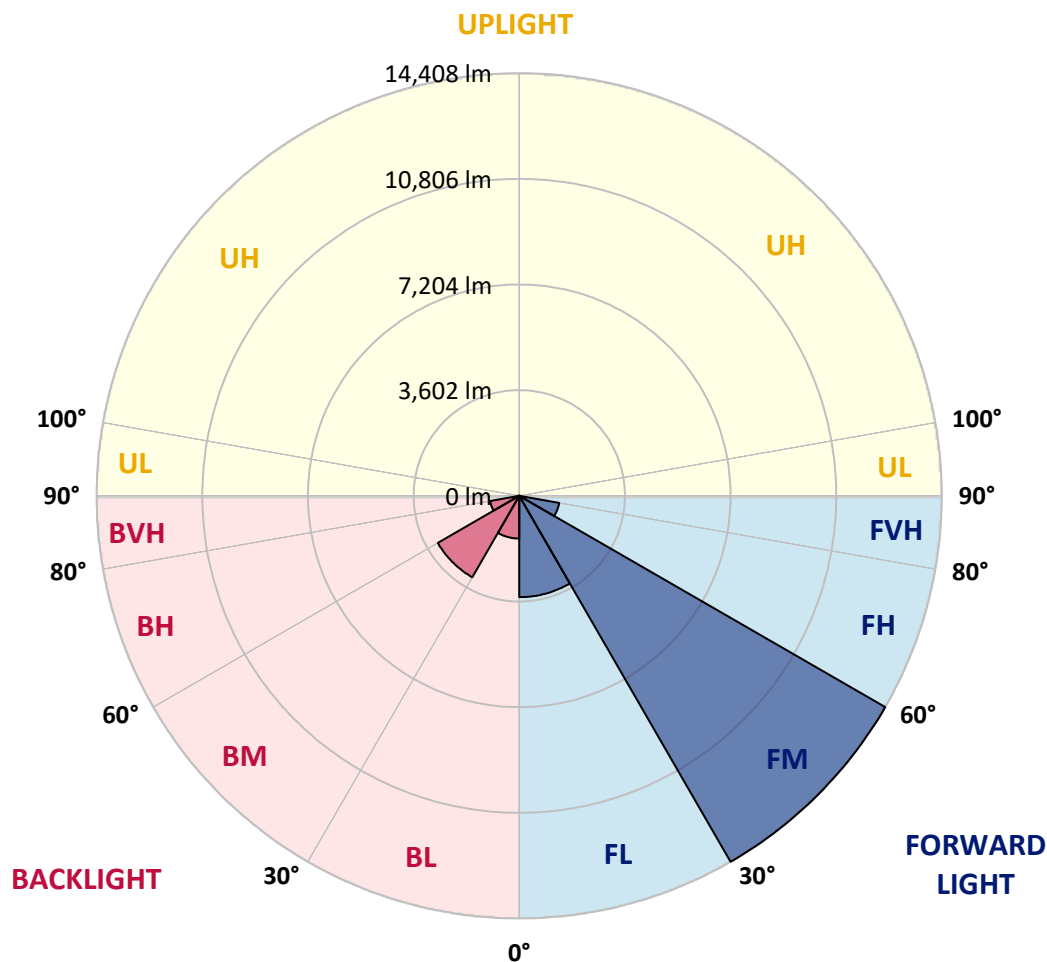
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3454.5  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 14408.1 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 1381.4  | 5.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 48.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1457.5  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3206.3  | 12.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1010.2  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 59.6    | 0.2       |                         |      | 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°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  | 3483.8  |
| 2.5°  | 4481.0  | 4453.1  | 4369.5  | 4341.6  | 4242.5  | 4062.9  | 4001.0  | 3818.3  | 3740.9  | 3669.6  | 3586.0  |
| 5°    | 5667.0  | 5537.0  | 5527.7  | 5369.7  | 5140.6  | 5007.4  | 4611.0  | 4344.7  | 4100.1  | 3976.2  | 3747.1  |
| 7.5°  | 6422.6  | 6425.7  | 6425.7  | 6295.7  | 6113.0  | 5775.4  | 5419.3  | 4939.3  | 4570.8  | 4388.1  | 3997.9  |
| 10°   | 7141.1  | 7079.1  | 7045.1  | 7032.7  | 6908.8  | 6580.6  | 6199.7  | 5605.1  | 5100.3  | 4886.7  | 4186.8  |
| 12.5° | 7648.9  | 7596.3  | 7673.7  | 7633.5  | 7543.7  | 7330.0  | 6970.8  | 6292.6  | 5660.8  | 5372.8  | 4490.3  |
| 15°   | 7890.5  | 7927.7  | 7989.6  | 8101.1  | 8060.8  | 7980.3  | 7583.9  | 6998.6  | 6264.7  | 5939.5  | 4759.7  |
| 17.5° | 8262.1  | 8159.9  | 8234.2  | 8373.6  | 8485.1  | 8447.9  | 8221.8  | 7509.6  | 6862.4  | 6462.9  | 5122.0  |
| 20°   | 8522.2  | 8463.4  | 8500.6  | 8661.6  | 8745.2  | 8955.8  | 8838.1  | 8178.5  | 7435.3  | 7014.1  | 5549.4  |
| 22.5° | 9265.4  | 9178.7  | 9058.0  | 9082.7  | 9113.7  | 9262.3  | 9290.2  | 8912.4  | 8101.1  | 7655.1  | 5955.0  |
| 25°   | 10182.1 | 10101.6 | 9959.1  | 9813.6  | 9723.8  | 9695.9  | 9791.9  | 9488.4  | 8739.0  | 8277.6  | 6391.7  |
| 27.5° | 11191.6 | 11055.4 | 10965.6 | 10665.2 | 10423.6 | 10386.5 | 10340.0 | 10175.9 | 9494.6  | 8996.0  | 6884.1  |
| 30°   | 12173.3 | 12064.9 | 11944.1 | 11464.1 | 11213.3 | 11173.0 | 10943.9 | 10990.3 | 10315.2 | 9760.9  | 7441.5  |
| 32.5° | 12916.5 | 12925.8 | 12650.2 | 12287.9 | 12052.5 | 11838.8 | 11755.2 | 11888.4 | 11368.1 | 10922.2 | 8063.9  |
| 35°   | 13517.3 | 13545.1 | 13281.9 | 12953.7 | 12699.7 | 12848.4 | 12811.2 | 12873.1 | 12625.4 | 12080.4 | 8788.5  |
| 37.5° | 14102.6 | 13963.2 | 13681.4 | 13523.5 | 13390.3 | 13634.9 | 13950.8 | 14003.5 | 14049.9 | 13408.9 | 9630.9  |
| 40°   | 14198.6 | 14210.9 | 14046.8 | 14158.3 | 13991.1 | 14359.6 | 15093.5 | 15025.4 | 15214.3 | 14653.8 | 10544.4 |
| 42.5° | 14062.3 | 14090.2 | 14155.2 | 14313.1 | 14715.7 | 15158.5 | 16248.6 | 15969.9 | 16199.0 | 15700.5 | 11433.2 |
| 45°   | 13839.3 | 13724.8 | 13805.3 | 14406.0 | 15102.8 | 16087.6 | 17304.6 | 17087.8 | 17013.5 | 16595.4 | 12492.2 |
| 47.5° | 12774.1 | 12891.7 | 13142.6 | 13882.7 | 14929.4 | 16248.6 | 18054.0 | 18004.4 | 18227.4 | 17933.2 | 13455.3 |
| 50°   | 11296.9 | 11250.5 | 11733.5 | 12566.6 | 13916.8 | 15932.7 | 18013.7 | 18462.8 | 18942.8 | 18534.0 | 13885.8 |
| 52.5° | 8460.3  | 8708.0  | 9123.0  | 10157.3 | 12083.5 | 14210.9 | 17134.3 | 17883.7 | 18273.9 | 18187.2 | 13538.9 |
| 55°   | 5348.1  | 5422.4  | 5673.2  | 6902.6  | 8636.8  | 11405.3 | 14687.8 | 16425.1 | 17121.9 | 17447.0 | 13220.0 |
| 57.5° | 2598.2  | 2458.8  | 2765.4  | 3753.2  | 4988.8  | 7670.6  | 11327.9 | 14306.9 | 15821.2 | 16409.6 | 12526.3 |
| 60°   | 1356.4  | 1409.0  | 1529.8  | 1882.8  | 2579.6  | 3982.4  | 7060.6  | 9534.9  | 11848.1 | 12752.4 | 9494.6  |
| 62.5° | 1124.1  | 1142.7  | 1223.2  | 1399.7  | 1715.6  | 2291.6  | 3604.6  | 4648.2  | 6041.7  | 6856.2  | 5400.7  |
| 65°   | 953.8   | 963.1   | 1049.8  | 1167.5  | 1368.8  | 1613.4  | 1854.9  | 1941.7  | 2350.4  | 2412.4  | 1920.0  |
| 67.5° | 795.9   | 805.2   | 898.1   | 1009.5  | 1139.6  | 1204.6  | 1266.6  | 1260.4  | 1306.8  | 1288.2  | 1285.1  |
| 70°   | 613.2   | 622.4   | 718.4   | 836.1   | 901.2   | 864.0   | 1056.0  | 1099.3  | 1117.9  | 1133.4  | 1158.2  |
| 72.5° | 442.8   | 461.4   | 535.7   | 619.3   | 585.3   | 672.0   | 870.2   | 935.2   | 960.0   | 969.3   | 1000.2  |
| 75°   | 322.1   | 328.3   | 346.8   | 322.1   | 371.6   | 467.6   | 613.2   | 693.7   | 724.6   | 733.9   | 780.4   |
| 77.5° | 142.5   | 145.5   | 148.6   | 185.8   | 238.4   | 291.1   | 365.4   | 430.4   | 473.8   | 486.2   | 498.6   |
| 80°   | 74.3    | 77.4    | 96.0    | 127.0   | 170.3   | 213.7   | 266.3   | 303.5   | 331.4   | 334.4   | 346.8   |
| 82.5° | 46.5    | 49.5    | 68.1    | 89.8    | 120.8   | 157.9   | 195.1   | 226.1   | 247.7   | 250.8   | 253.9   |
| 85°   | 21.7    | 27.9    | 40.3    | 55.7    | 80.5    | 102.2   | 105.3   | 89.8    | 96.0    | 99.1    | 92.9    |
| 87.5° | 6.2     | 9.3     | 12.4    | 9.3     | 12.4    | 12.4    | 15.5    | 18.6    | 18.6    | 18.6    | 21.7    |
| 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°    | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 | 3483.8 |
| 2.5°  | 3539.6 | 3511.7 | 3403.3 | 3363.1 | 3257.8 | 3276.4 | 3220.6 | 3217.5 | 3205.1 | 3202.0 | 3198.9 |
| 5°    | 3626.3 | 3539.6 | 3409.5 | 3310.4 | 3251.6 | 3245.4 | 3205.1 | 3205.1 | 3217.5 | 3226.8 | 3205.1 |
| 7.5°  | 3768.7 | 3669.6 | 3449.8 | 3356.9 | 3304.2 | 3294.9 | 3267.1 | 3245.4 | 3273.3 | 3264.0 | 3239.2 |
| 10°   | 3932.9 | 3759.4 | 3527.2 | 3446.7 | 3360.0 | 3338.3 | 3338.3 | 3347.6 | 3301.1 | 3316.6 | 3291.8 |
| 12.5° | 4115.6 | 3883.3 | 3626.3 | 3533.4 | 3431.2 | 3418.8 | 3412.6 | 3344.5 | 3369.3 | 3356.9 | 3294.9 |
| 15°   | 4347.8 | 4025.8 | 3753.2 | 3595.3 | 3508.6 | 3452.9 | 3372.3 | 3360.0 | 3344.5 | 3313.5 | 3285.6 |
| 17.5° | 4598.7 | 4180.6 | 3812.1 | 3613.9 | 3483.8 | 3443.6 | 3381.6 | 3316.6 | 3270.2 | 3276.4 | 3254.7 |
| 20°   | 4812.3 | 4323.0 | 3833.8 | 3632.5 | 3465.3 | 3387.8 | 3291.8 | 3251.6 | 3202.0 | 3198.9 | 3195.8 |
| 22.5° | 5066.3 | 4515.0 | 3864.7 | 3582.9 | 3409.5 | 3329.0 | 3264.0 | 3192.7 | 3158.7 | 3115.3 | 3137.0 |
| 25°   | 5369.7 | 4589.4 | 3870.9 | 3555.1 | 3369.3 | 3226.8 | 3192.7 | 3115.3 | 3102.9 | 3041.0 | 3053.4 |
| 27.5° | 5589.6 | 4629.6 | 3821.4 | 3468.3 | 3276.4 | 3168.0 | 3106.0 | 3050.3 | 3028.6 | 2982.2 | 2969.8 |
| 30°   | 5883.8 | 4691.6 | 3716.1 | 3360.0 | 3183.4 | 3062.7 | 3025.5 | 3013.1 | 2951.2 | 2901.6 | 2895.5 |
| 32.5° | 6218.3 | 4731.8 | 3648.0 | 3248.5 | 3087.4 | 2994.5 | 3013.1 | 2954.3 | 2876.9 | 2833.5 | 2821.1 |
| 35°   | 6484.6 | 4747.3 | 3477.6 | 3121.5 | 3022.4 | 2963.6 | 2941.9 | 2929.5 | 2818.0 | 2777.8 | 2746.8 |
| 37.5° | 6890.2 | 4713.2 | 3335.2 | 3031.7 | 2951.2 | 2929.5 | 2910.9 | 2827.3 | 2700.4 | 2641.5 | 2598.2 |
| 40°   | 7364.0 | 4703.9 | 3152.5 | 2904.7 | 2883.1 | 2907.8 | 2852.1 | 2722.0 | 2545.5 | 2480.5 | 2449.5 |
| 42.5° | 7819.3 | 4769.0 | 3037.9 | 2836.6 | 2808.7 | 2818.0 | 2740.6 | 2545.5 | 2458.8 | 2421.7 | 2372.1 |
| 45°   | 8581.1 | 4905.2 | 2849.0 | 2731.3 | 2718.9 | 2712.7 | 2619.8 | 2415.5 | 2365.9 | 2319.5 | 2310.2 |
| 47.5° | 9268.5 | 4815.4 | 2728.2 | 2622.9 | 2635.3 | 2601.3 | 2403.1 | 2338.0 | 2282.3 | 2235.8 | 2220.4 |
| 50°   | 9308.8 | 4601.8 | 2557.9 | 2539.3 | 2542.4 | 2483.6 | 2294.7 | 2251.3 | 2180.1 | 2149.1 | 2127.5 |
| 52.5° | 9098.2 | 4251.8 | 2400.0 | 2406.2 | 2415.5 | 2319.5 | 2161.5 | 2130.6 | 2071.7 | 2028.4 | 2016.0 |
| 55°   | 8506.7 | 3706.8 | 2245.1 | 2269.9 | 2294.7 | 2112.0 | 2062.4 | 1985.0 | 1938.6 | 1876.6 | 1879.7 |
| 57.5° | 7494.1 | 2985.3 | 2028.4 | 2068.6 | 2121.3 | 1920.0 | 1882.8 | 1786.8 | 1718.7 | 1669.1 | 1662.9 |
| 60°   | 5022.9 | 2124.4 | 1703.2 | 1718.7 | 1836.4 | 1755.9 | 1752.8 | 1656.8 | 1563.9 | 1520.5 | 1495.7 |
| 62.5° | 2963.6 | 1622.7 | 1471.0 | 1455.5 | 1452.4 | 1498.8 | 1576.2 | 1542.2 | 1421.4 | 1337.8 | 1362.6 |
| 65°   | 1551.5 | 1402.8 | 1368.8 | 1316.1 | 1285.1 | 1272.8 | 1331.6 | 1347.1 | 1266.6 | 1176.8 | 1170.6 |
| 67.5° | 1303.7 | 1303.7 | 1275.9 | 1257.3 | 1213.9 | 1161.3 | 1124.1 | 1074.6 | 1062.2 | 1037.4 | 1006.4 |
| 70°   | 1186.1 | 1217.0 | 1207.7 | 1164.4 | 1127.2 | 1068.4 | 972.4  | 891.9  | 814.4  | 786.6  | 805.2  |
| 72.5° | 1034.3 | 1065.3 | 1065.3 | 1043.6 | 994.1  | 904.2  | 811.3  | 718.4  | 653.4  | 603.9  | 597.7  |
| 75°   | 795.9  | 811.3  | 848.5  | 823.7  | 758.7  | 703.0  | 607.0  | 511.0  | 449.0  | 402.6  | 393.3  |
| 77.5° | 507.9  | 532.6  | 532.6  | 529.5  | 483.1  | 430.4  | 368.5  | 300.4  | 253.9  | 219.9  | 210.6  |
| 80°   | 337.5  | 353.0  | 365.4  | 353.0  | 322.1  | 281.8  | 235.4  | 188.9  | 154.8  | 127.0  | 120.8  |
| 82.5° | 247.7  | 266.3  | 275.6  | 263.2  | 232.3  | 201.3  | 167.2  | 133.2  | 99.1   | 77.4   | 71.2   |
| 85°   | 96.0   | 99.1   | 111.5  | 133.2  | 130.1  | 127.0  | 102.2  | 74.3   | 55.7   | 40.3   | 37.2   |
| 87.5° | 24.8   | 21.7   | 24.8   | 24.8   | 21.7   | 18.6   | 18.6   | 18.6   | 18.6   | 9.3    | 12.4   |
| 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)