

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: P533259

Luminaire Tested: **GLAN-SA8C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29836 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

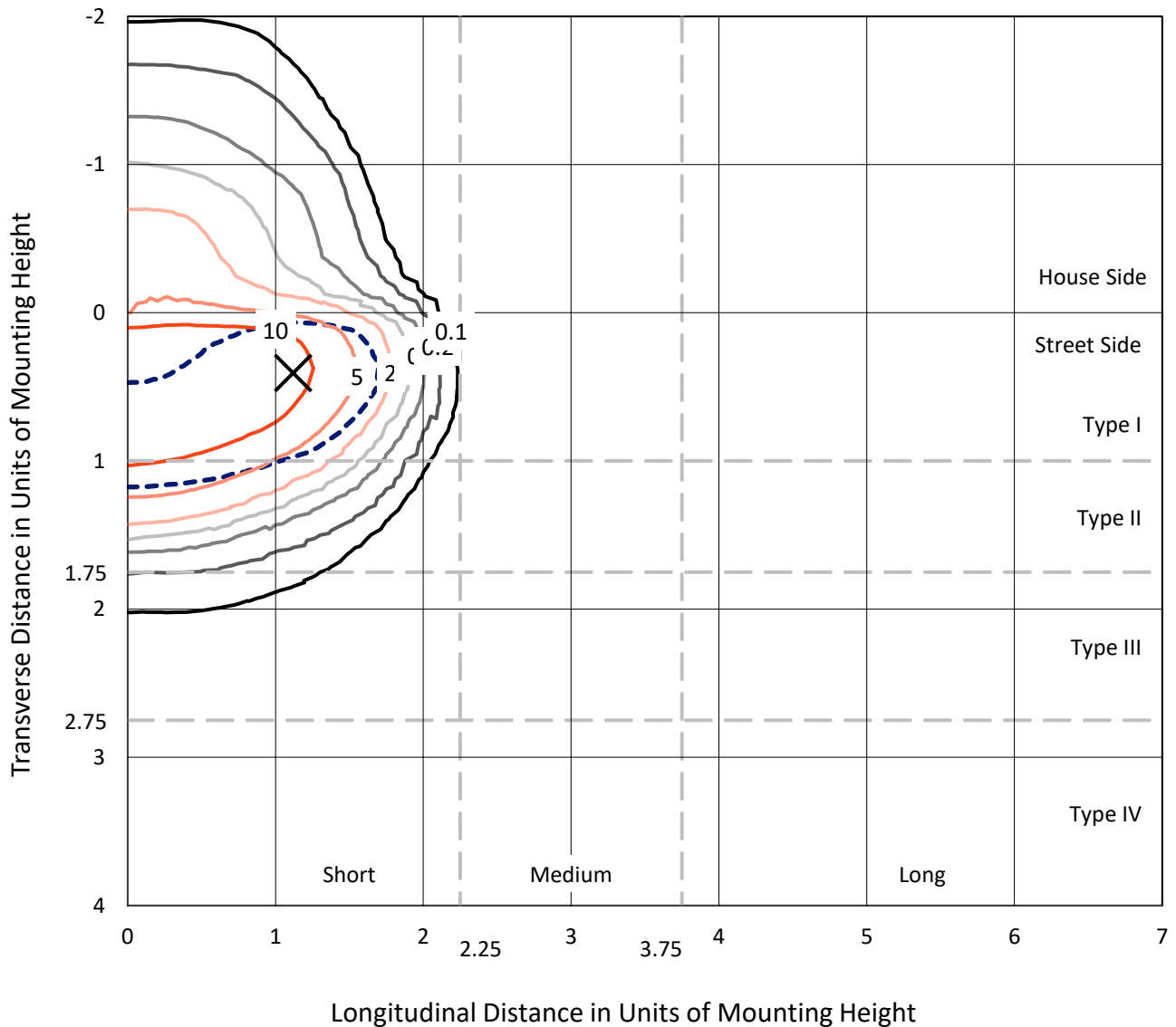
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

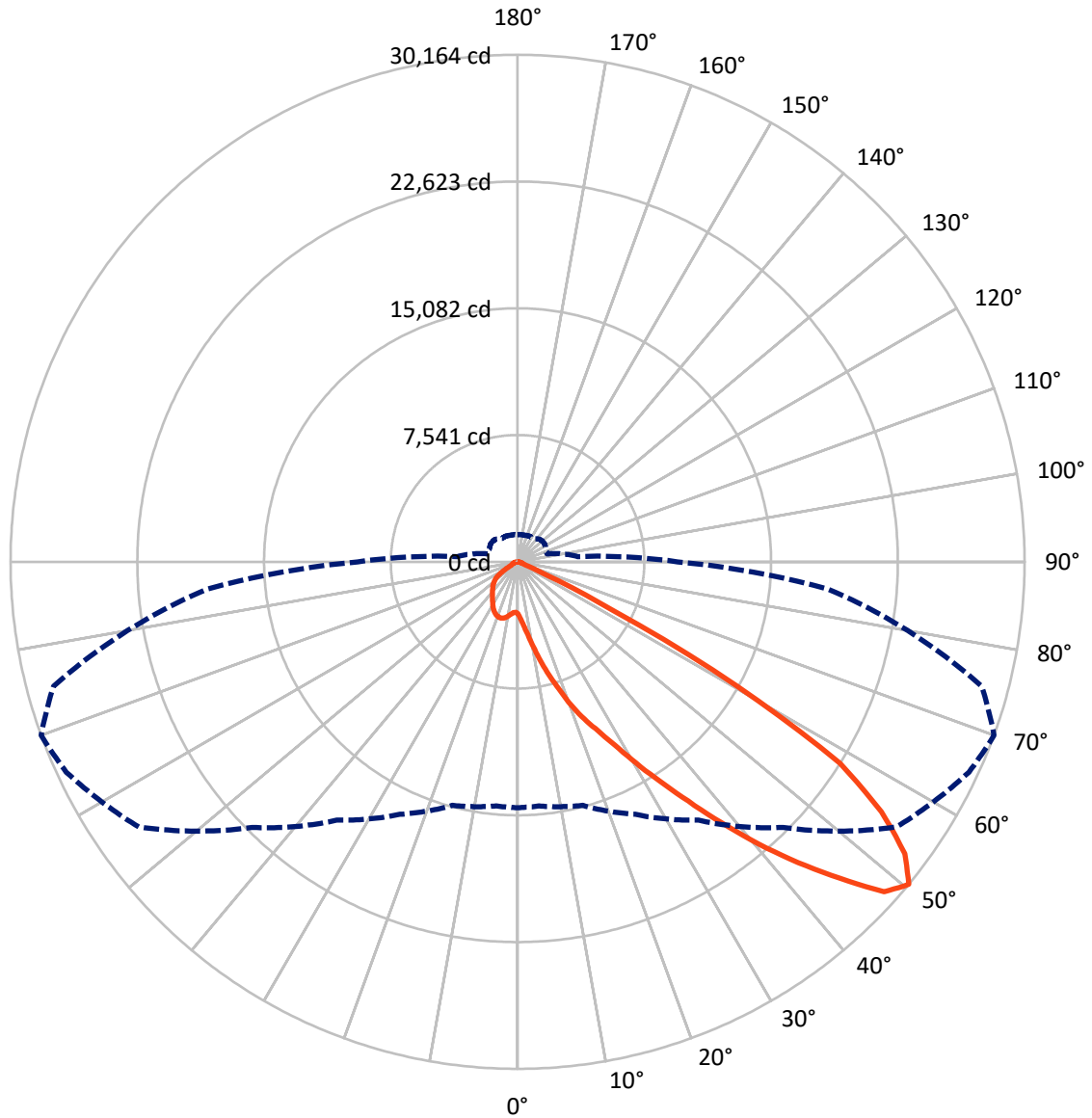
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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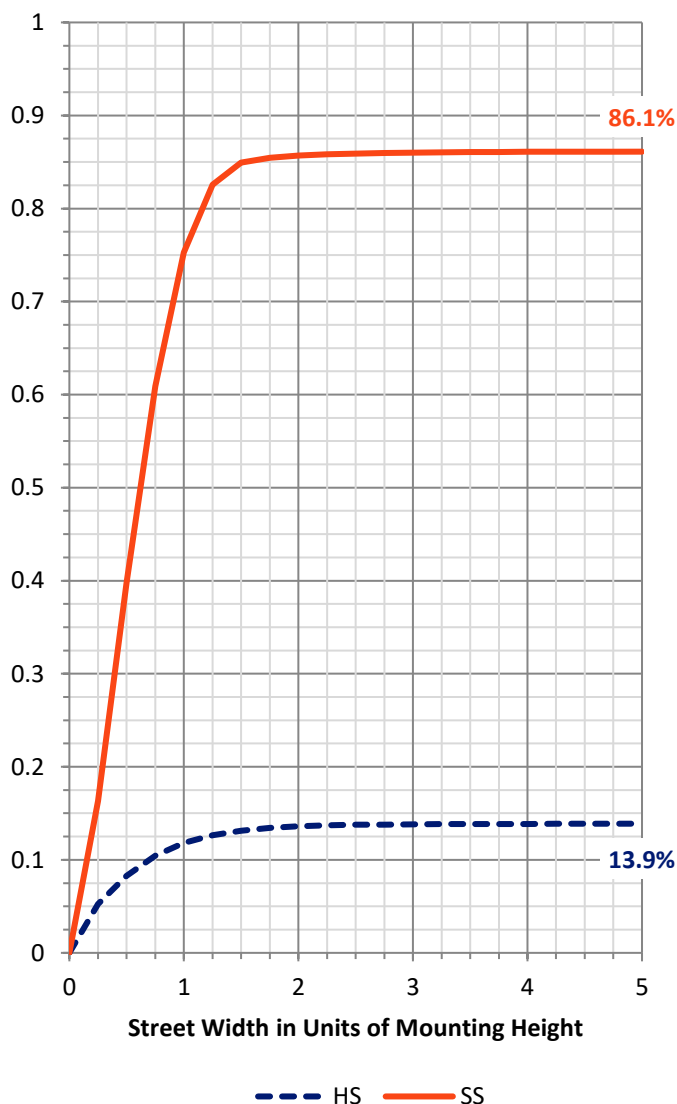
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4166.8 | 0.0 | 4166.8 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 25669.2 | 0.0 | 25669.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 29836.0 | 0.0 | 29836.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 401.9 | 1.3 |
| 10°-20° | 1738.3 | 5.8 |
| 20°-30° | 3646.7 | 12.2 |
| 30°-40° | 6285.8 | 21.1 |
| 40°-50° | 9186.6 | 30.8 |
| 50°-60° | 7154.8 | 24.0 |
| 60°-70° | 1212.2 | 4.1 |
| 70°-80° | 166.5 | 0.6 |
| 80°-90° | 43.1 | 0.1 |
| 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° | 29836.0 | 100.0 |
| 0°-180° | 29836.0 | 100.0 |

Coefficient of Utilization



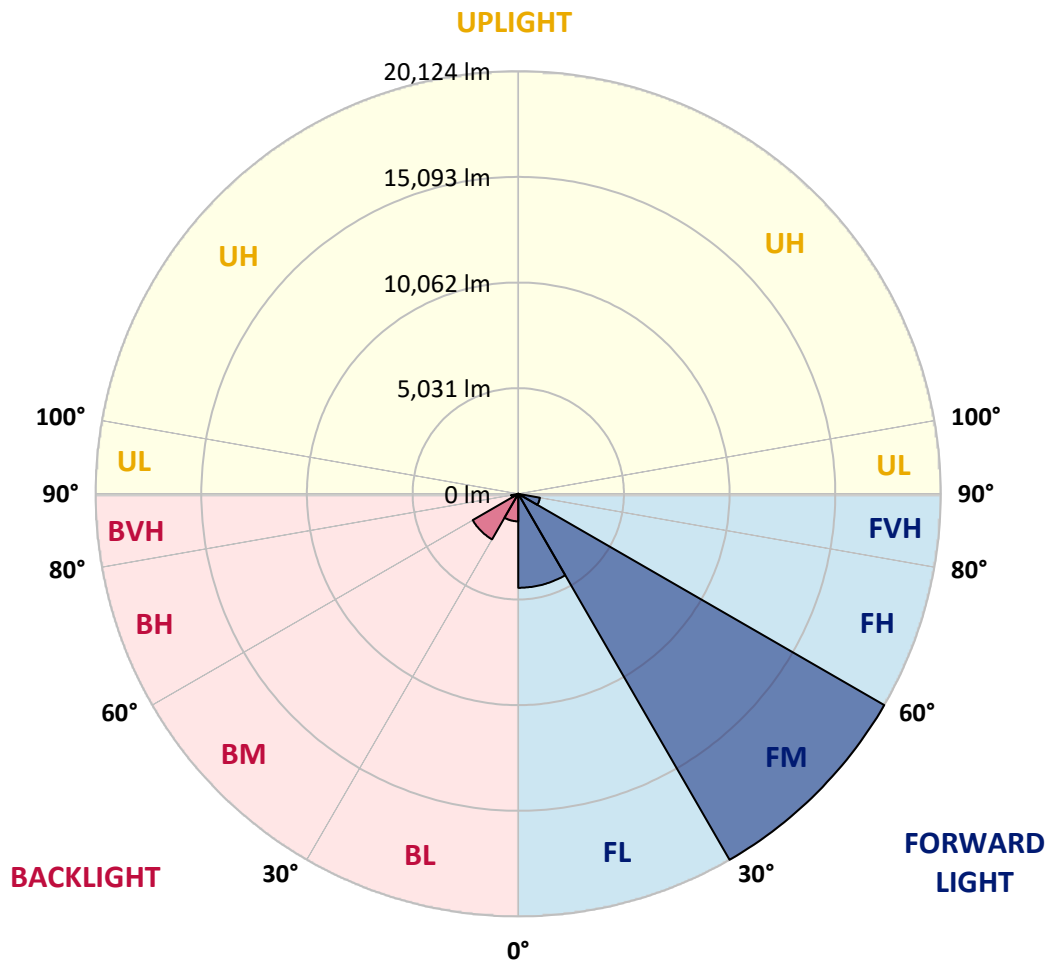
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4475.8 | 15.0 | | | |
| FM (30°-60°) | 20123.9 | 67.4 | | | |
| FH (60°-80°) | 1049.6 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 19.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1311.2 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2503.3 | 8.4 | B3/5000 | | |
| BH (60°-80°) | 329.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 |
| 2.5° | 4047.0 | 4017.5 | 3953.8 | 3836.0 | 3787.0 | 3669.3 | 3600.6 | 3468.1 | 3384.7 | 3291.5 | 3188.5 |
| 5° | 5700.1 | 5548.0 | 5454.8 | 5322.4 | 4934.9 | 4694.5 | 4297.2 | 3958.7 | 3801.7 | 3630.0 | 3394.6 |
| 7.5° | 7407.2 | 7309.1 | 7181.6 | 6897.0 | 6632.1 | 6131.8 | 5449.9 | 4704.3 | 4385.5 | 4091.1 | 3625.1 |
| 10° | 8820.0 | 8545.3 | 8530.5 | 8319.6 | 8030.2 | 7431.7 | 6612.5 | 5685.4 | 5116.4 | 4684.7 | 3953.8 |
| 12.5° | 9806.0 | 9555.8 | 9668.6 | 9644.1 | 9374.3 | 8824.9 | 7878.1 | 6651.8 | 6058.2 | 5386.2 | 4292.3 |
| 15° | 10703.7 | 10600.6 | 10566.3 | 10536.9 | 10428.9 | 10021.8 | 9173.2 | 7829.1 | 6970.6 | 6161.2 | 4674.9 |
| 17.5° | 11581.7 | 11316.8 | 11444.4 | 11468.9 | 11459.1 | 11091.2 | 10296.5 | 8947.5 | 7937.0 | 6980.4 | 5077.1 |
| 20° | 12361.7 | 12386.2 | 12214.5 | 12180.2 | 12150.8 | 12136.0 | 11361.0 | 10056.1 | 9124.1 | 7838.9 | 5602.0 |
| 22.5° | 13362.4 | 13190.7 | 13342.8 | 13244.7 | 13053.4 | 12935.6 | 12342.1 | 11037.2 | 10154.2 | 8873.9 | 6136.7 |
| 25° | 14544.6 | 14682.0 | 14323.9 | 14284.6 | 14073.7 | 13666.5 | 13131.8 | 12136.0 | 11145.1 | 9835.4 | 6715.5 |
| 27.5° | 16001.5 | 15761.2 | 15667.9 | 15452.1 | 15069.5 | 14897.8 | 14269.9 | 13269.2 | 12342.1 | 10845.9 | 7274.8 |
| 30° | 17252.4 | 17188.6 | 16722.6 | 16467.5 | 16134.0 | 16129.1 | 15251.0 | 14804.6 | 13902.0 | 12430.4 | 8044.9 |
| 32.5° | 18272.7 | 17993.1 | 17821.4 | 17644.8 | 17375.0 | 17448.6 | 16707.9 | 16472.4 | 15564.9 | 13902.0 | 8952.4 |
| 35° | 18954.6 | 18753.5 | 18650.5 | 18380.7 | 18302.2 | 18630.8 | 18321.8 | 18223.7 | 17478.1 | 15972.1 | 10016.9 |
| 37.5° | 19170.4 | 19234.2 | 19214.6 | 18876.1 | 19042.9 | 19930.8 | 20328.1 | 20073.0 | 19680.6 | 18155.0 | 11169.7 |
| 40° | 19361.7 | 19405.9 | 19307.8 | 19705.1 | 20180.9 | 21191.5 | 22628.8 | 22206.9 | 22059.7 | 20367.4 | 12773.7 |
| 42.5° | 19469.7 | 19435.3 | 19435.3 | 20122.1 | 20843.2 | 22874.0 | 24850.9 | 24571.3 | 24458.5 | 22722.0 | 14628.0 |
| 45° | 19003.6 | 18670.1 | 19028.2 | 19960.2 | 21412.2 | 23703.0 | 26626.7 | 27014.2 | 26852.3 | 25523.0 | 16796.2 |
| 47.5° | 17262.2 | 17468.2 | 17669.4 | 18915.3 | 20720.5 | 23448.0 | 27715.7 | 29035.3 | 29334.5 | 27877.6 | 18218.8 |
| 50° | 14628.0 | 14583.8 | 15000.8 | 16570.5 | 18763.3 | 22349.1 | 27504.8 | 29619.0 | 30163.5 | 28584.0 | 18518.0 |
| 52.5° | 10639.9 | 10963.6 | 11414.9 | 12974.9 | 15574.7 | 19504.0 | 24782.2 | 28113.0 | 28839.0 | 27715.7 | 18321.8 |
| 55° | 6195.6 | 5837.5 | 6852.9 | 8172.4 | 10625.2 | 14711.4 | 20951.1 | 24919.6 | 26263.7 | 26136.1 | 17330.9 |
| 57.5° | 2482.1 | 2403.7 | 2751.9 | 3708.5 | 5543.1 | 9119.2 | 15236.3 | 20475.3 | 22628.8 | 23938.5 | 15231.4 |
| 60° | 1089.0 | 1064.5 | 1250.9 | 1510.9 | 2266.3 | 4204.0 | 8334.3 | 12734.5 | 14981.2 | 16727.5 | 10482.9 |
| 62.5° | 784.9 | 775.1 | 868.3 | 961.5 | 1196.9 | 1829.7 | 3502.5 | 5131.1 | 6396.7 | 7726.1 | 4694.5 |
| 65° | 632.8 | 657.3 | 721.1 | 770.2 | 883.0 | 1015.4 | 1236.2 | 1427.5 | 1751.2 | 1815.0 | 1035.0 |
| 67.5° | 515.1 | 534.7 | 593.6 | 647.5 | 667.1 | 549.4 | 569.0 | 500.4 | 500.4 | 446.4 | 358.1 |
| 70° | 377.7 | 382.6 | 451.3 | 515.1 | 412.1 | 220.7 | 387.5 | 387.5 | 348.3 | 333.6 | 304.1 |
| 72.5° | 279.6 | 284.5 | 338.5 | 318.9 | 161.9 | 137.4 | 284.5 | 313.9 | 284.5 | 269.8 | 245.3 |
| 75° | 206.0 | 210.9 | 176.6 | 73.6 | 68.7 | 88.3 | 166.8 | 215.8 | 206.0 | 201.1 | 186.4 |
| 77.5° | 39.2 | 29.4 | 24.5 | 34.3 | 49.1 | 73.6 | 107.9 | 132.4 | 137.4 | 147.2 | 137.4 |
| 80° | 4.9 | 4.9 | 14.7 | 29.4 | 54.0 | 78.5 | 112.8 | 127.5 | 132.4 | 137.4 | 127.5 |
| 82.5° | 0.0 | 4.9 | 14.7 | 29.4 | 54.0 | 73.6 | 98.1 | 112.8 | 122.6 | 127.5 | 122.6 |
| 85° | 0.0 | 4.9 | 9.8 | 24.5 | 44.1 | 54.0 | 49.1 | 34.3 | 29.4 | 34.3 | 24.5 |
| 87.5° | 0.0 | 0.0 | 4.9 | 4.9 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| 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° | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 | 3090.4 |
| 2.5° | 3129.7 | 3110.0 | 3041.4 | 2967.8 | 2904.0 | 2933.4 | 2904.0 | 2879.5 | 2889.3 | 2879.5 | 2869.7 |
| 5° | 3301.4 | 3213.1 | 3065.9 | 3002.1 | 2948.2 | 2943.3 | 2928.5 | 2923.6 | 2928.5 | 2928.5 | 2884.4 |
| 7.5° | 3463.2 | 3321.0 | 3164.0 | 3095.3 | 3031.6 | 3036.5 | 3002.1 | 3002.1 | 2997.2 | 2972.7 | 2962.9 |
| 10° | 3708.5 | 3517.2 | 3316.1 | 3193.4 | 3114.9 | 3100.2 | 3065.9 | 3031.6 | 3031.6 | 3031.6 | 2982.5 |
| 12.5° | 3978.3 | 3737.9 | 3463.2 | 3321.0 | 3227.8 | 3154.2 | 3100.2 | 3090.4 | 3036.5 | 3026.7 | 3002.1 |
| 15° | 4213.8 | 3909.6 | 3561.3 | 3365.1 | 3247.4 | 3149.3 | 3065.9 | 3011.9 | 2987.4 | 2972.7 | 2953.1 |
| 17.5° | 4444.3 | 4056.8 | 3615.3 | 3365.1 | 3237.6 | 3124.8 | 3036.5 | 2987.4 | 2928.5 | 2938.4 | 2899.1 |
| 20° | 4753.4 | 4213.8 | 3630.0 | 3301.4 | 3144.4 | 3036.5 | 2918.7 | 2894.2 | 2859.9 | 2830.4 | 2840.2 |
| 22.5° | 5052.6 | 4326.6 | 3585.9 | 3222.9 | 2997.2 | 2869.7 | 2810.8 | 2781.4 | 2766.7 | 2742.1 | 2707.8 |
| 25° | 5322.4 | 4449.2 | 3517.2 | 3080.6 | 2840.2 | 2747.0 | 2693.1 | 2688.2 | 2653.8 | 2653.8 | 2590.1 |
| 27.5° | 5597.1 | 4493.4 | 3399.5 | 2913.8 | 2702.9 | 2648.9 | 2624.4 | 2614.6 | 2599.9 | 2565.5 | 2521.4 |
| 30° | 5911.0 | 4508.1 | 3227.8 | 2742.1 | 2580.3 | 2521.4 | 2555.7 | 2580.3 | 2516.5 | 2452.7 | 2472.3 |
| 32.5° | 6171.0 | 4473.8 | 3021.7 | 2580.3 | 2492.0 | 2462.5 | 2531.2 | 2555.7 | 2482.1 | 2413.5 | 2379.1 |
| 35° | 6485.0 | 4390.4 | 2820.6 | 2452.7 | 2403.7 | 2462.5 | 2521.4 | 2521.4 | 2374.2 | 2290.8 | 2271.2 |
| 37.5° | 6960.8 | 4297.2 | 2634.2 | 2344.8 | 2310.5 | 2433.1 | 2511.6 | 2457.6 | 2227.1 | 2124.1 | 2099.5 |
| 40° | 7471.0 | 4238.3 | 2452.7 | 2236.9 | 2261.4 | 2384.0 | 2428.2 | 2261.4 | 2025.9 | 1962.2 | 1942.6 |
| 42.5° | 8211.7 | 4120.6 | 2290.8 | 2143.7 | 2217.3 | 2315.4 | 2315.4 | 2016.1 | 1927.8 | 1893.5 | 1888.6 |
| 45° | 9133.9 | 4037.2 | 2148.6 | 2065.2 | 2153.5 | 2178.0 | 2099.5 | 1888.6 | 1824.8 | 1815.0 | 1819.9 |
| 47.5° | 9585.2 | 3875.3 | 2001.4 | 1972.0 | 2035.8 | 2040.7 | 1834.6 | 1785.6 | 1731.6 | 1716.9 | 1707.1 |
| 50° | 9516.5 | 3585.9 | 1810.1 | 1849.3 | 1937.6 | 1888.6 | 1672.8 | 1682.6 | 1633.5 | 1628.6 | 1604.1 |
| 52.5° | 9035.8 | 3129.7 | 1618.8 | 1712.0 | 1810.1 | 1667.8 | 1540.3 | 1530.5 | 1530.5 | 1466.7 | 1442.2 |
| 55° | 8010.6 | 2521.4 | 1388.2 | 1506.0 | 1623.7 | 1403.0 | 1368.6 | 1358.8 | 1334.3 | 1275.4 | 1260.7 |
| 57.5° | 6342.7 | 1849.3 | 1044.9 | 1172.4 | 1378.4 | 1192.0 | 1187.1 | 1143.0 | 1079.2 | 1035.0 | 1035.0 |
| 60° | 3772.3 | 1064.5 | 657.3 | 716.2 | 912.4 | 966.4 | 1074.3 | 1054.7 | 946.7 | 878.1 | 858.5 |
| 62.5° | 1721.8 | 549.4 | 417.0 | 426.8 | 490.5 | 627.9 | 843.7 | 976.2 | 824.1 | 706.4 | 696.6 |
| 65° | 578.8 | 407.2 | 343.4 | 328.7 | 338.5 | 377.7 | 505.3 | 691.7 | 657.3 | 544.5 | 524.9 |
| 67.5° | 353.2 | 363.0 | 323.8 | 299.2 | 299.2 | 294.3 | 289.4 | 313.9 | 387.5 | 377.7 | 382.6 |
| 70° | 304.1 | 333.6 | 299.2 | 269.8 | 260.0 | 245.3 | 206.0 | 171.7 | 147.2 | 171.7 | 181.5 |
| 72.5° | 245.3 | 264.9 | 255.1 | 230.6 | 206.0 | 186.4 | 147.2 | 112.8 | 83.4 | 73.6 | 73.6 |
| 75° | 181.5 | 196.2 | 206.0 | 176.6 | 157.0 | 132.4 | 107.9 | 73.6 | 44.1 | 29.4 | 29.4 |
| 77.5° | 132.4 | 147.2 | 152.1 | 137.4 | 117.7 | 93.2 | 68.7 | 49.1 | 24.5 | 9.8 | 9.8 |
| 80° | 112.8 | 132.4 | 147.2 | 137.4 | 122.6 | 88.3 | 63.8 | 34.3 | 19.6 | 4.9 | 4.9 |
| 82.5° | 107.9 | 132.4 | 147.2 | 132.4 | 117.7 | 83.4 | 63.8 | 39.2 | 14.7 | 4.9 | 4.9 |
| 85° | 24.5 | 34.3 | 44.1 | 54.0 | 63.8 | 63.8 | 49.1 | 29.4 | 14.7 | 4.9 | 4.9 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 4.9 | 4.9 | 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)