

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: P530270

Luminaire Tested: **GLAN-SA5C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530270
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-SA5C-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 25874 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

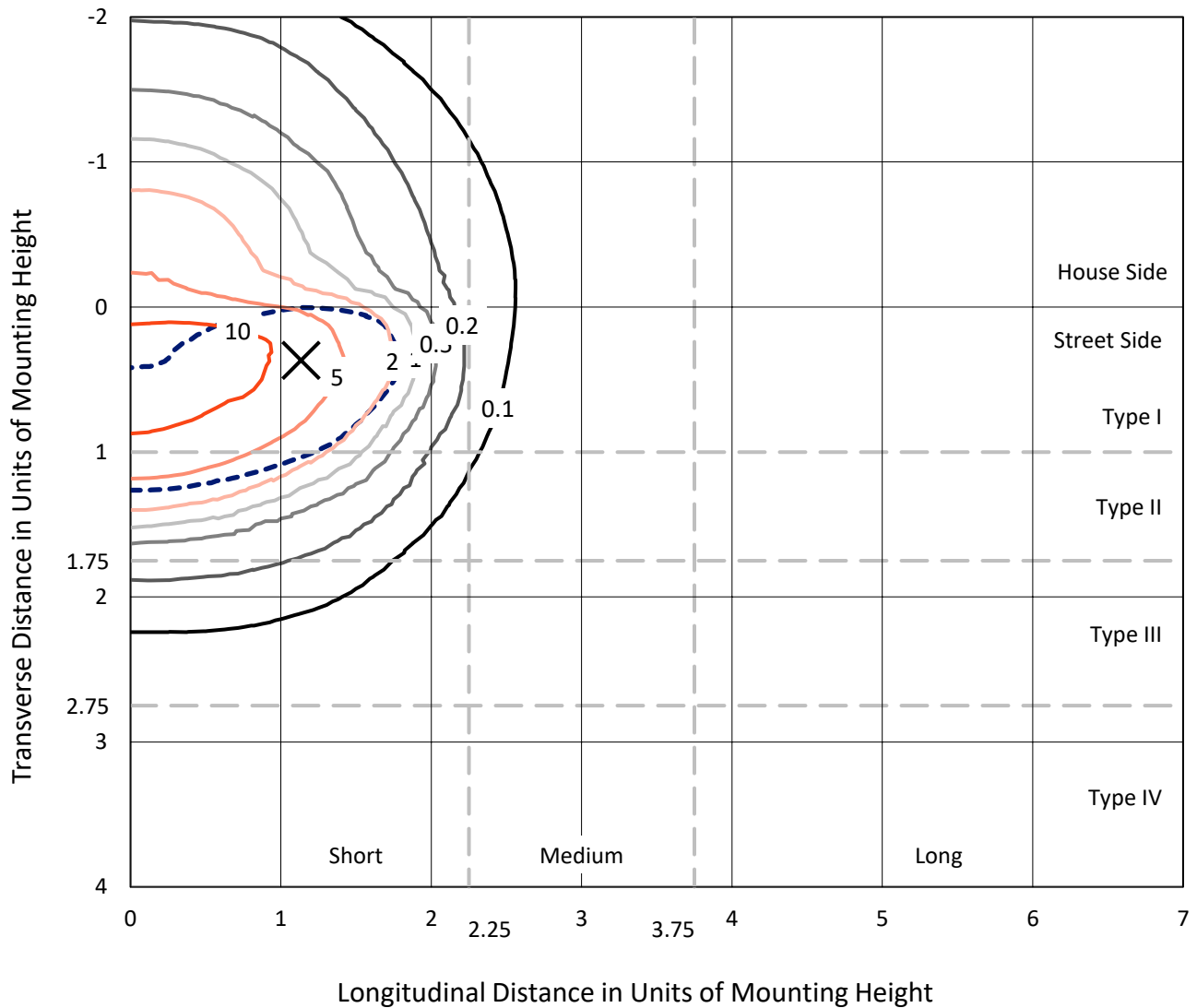
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

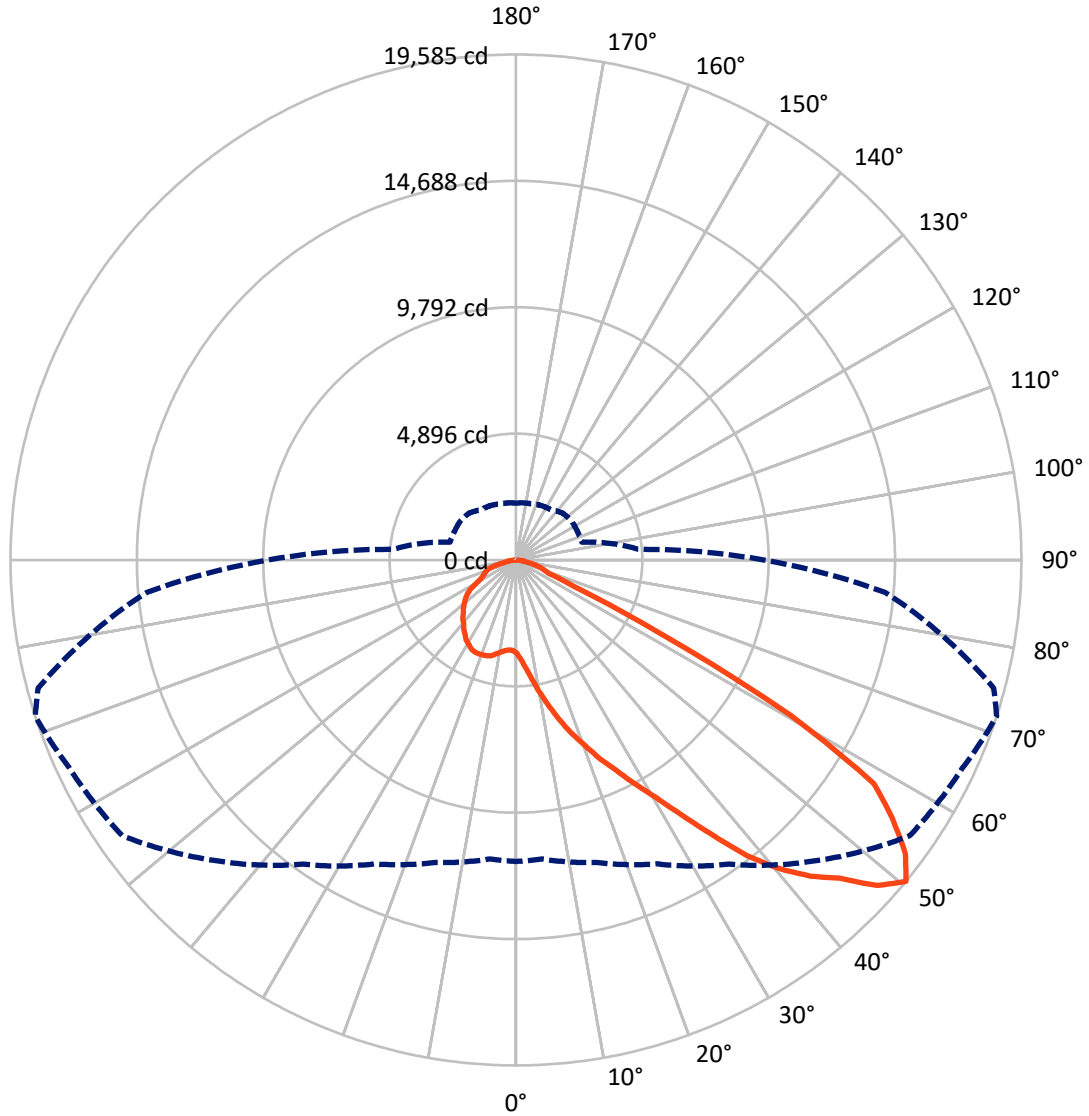
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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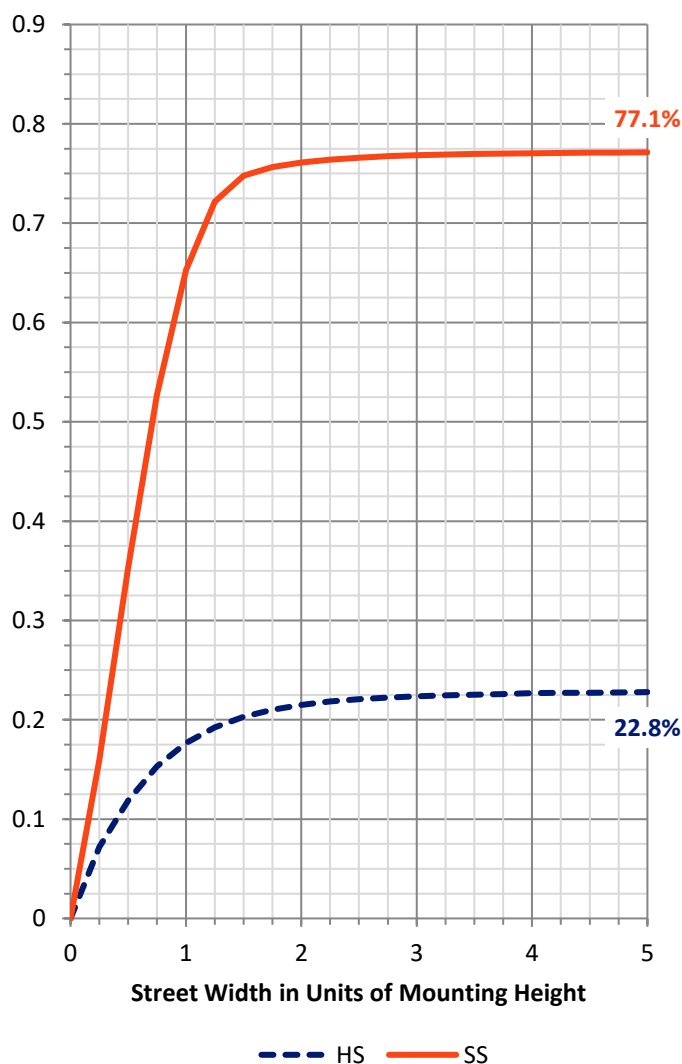
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5927.9 | 0.0 | 5927.9 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 19946.1 | 0.0 | 19946.1 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 25874.0 | 0.0 | 25874.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 423.7 | 1.6 |
| 10°-20° | 1583.8 | 6.1 |
| 20°-30° | 3070.9 | 11.9 |
| 30°-40° | 5087.5 | 19.7 |
| 40°-50° | 7118.5 | 27.5 |
| 50°-60° | 6005.4 | 23.2 |
| 60°-70° | 1830.4 | 7.1 |
| 70°-80° | 642.2 | 2.5 |
| 80°-90° | 111.6 | 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° | 25874.0 | 100.0 |
| 0°-180° | 25874.0 | 100.0 |

Coefficient of Utilization



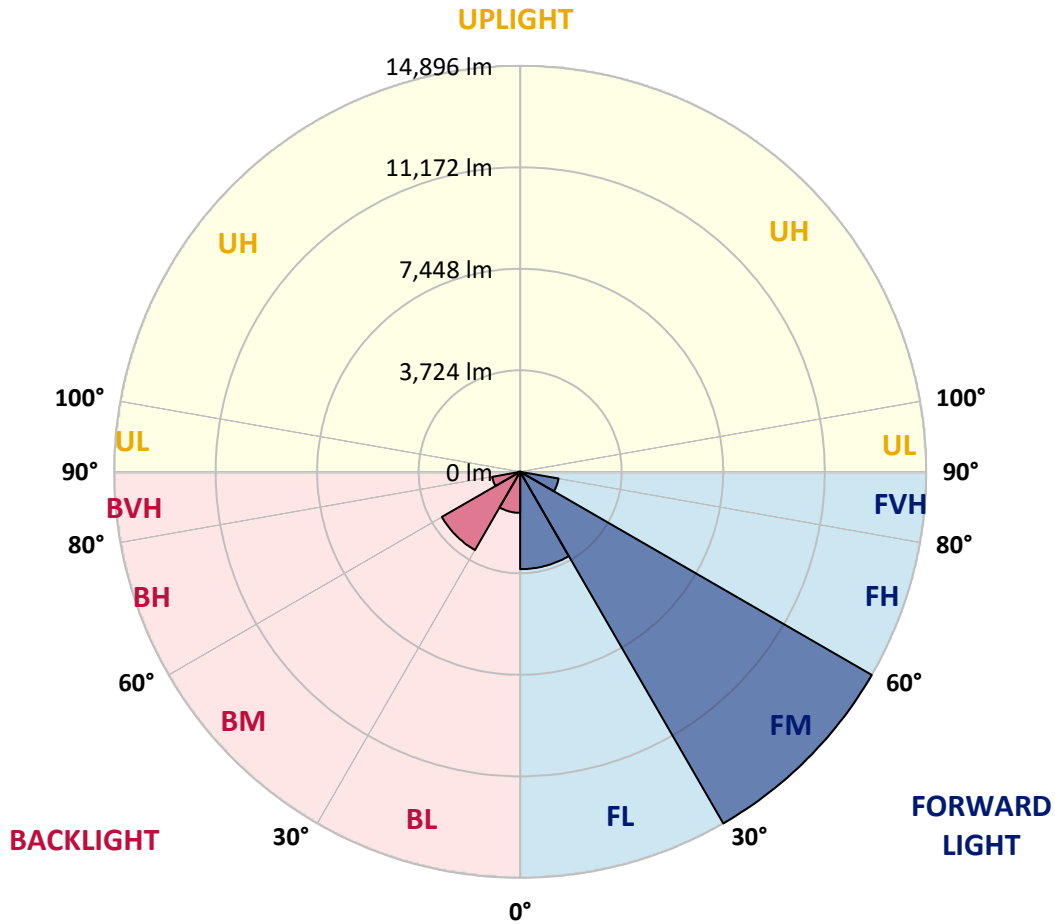
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3571.5 | 13.8 | | | |
| FM (30°-60°) | 14896.4 | 57.6 | | | |
| FH (60°-80°) | 1428.2 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 50.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1506.9 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3315.0 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1044.4 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.6 | 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° | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 |
| 2.5° | 4632.8 | 4604.0 | 4517.6 | 4488.7 | 4386.3 | 4200.6 | 4136.6 | 3947.7 | 3867.6 | 3794.0 | 3707.5 |
| 5° | 5859.1 | 5724.6 | 5715.0 | 5551.7 | 5314.8 | 5177.1 | 4767.3 | 4491.9 | 4239.0 | 4110.9 | 3874.0 |
| 7.5° | 6640.3 | 6643.5 | 6643.5 | 6509.0 | 6320.1 | 5971.1 | 5602.9 | 5106.7 | 4725.7 | 4536.8 | 4133.4 |
| 10° | 7383.1 | 7319.0 | 7283.8 | 7271.0 | 7142.9 | 6803.6 | 6409.7 | 5795.0 | 5273.2 | 5052.2 | 4328.7 |
| 12.5° | 7908.1 | 7853.7 | 7933.7 | 7892.1 | 7799.3 | 7578.4 | 7207.0 | 6505.8 | 5852.7 | 5554.9 | 4642.4 |
| 15° | 8157.9 | 8196.3 | 8260.3 | 8375.6 | 8334.0 | 8250.7 | 7840.9 | 7235.8 | 6477.0 | 6140.8 | 4921.0 |
| 17.5° | 8542.1 | 8436.4 | 8513.2 | 8657.3 | 8772.6 | 8734.2 | 8500.4 | 7764.1 | 7094.9 | 6681.9 | 5295.6 |
| 20° | 8811.0 | 8750.2 | 8788.6 | 8955.1 | 9041.5 | 9259.2 | 9137.6 | 8455.6 | 7687.2 | 7251.8 | 5737.4 |
| 22.5° | 9579.4 | 9489.8 | 9364.9 | 9390.5 | 9422.5 | 9576.2 | 9605.0 | 9214.4 | 8375.6 | 7914.5 | 6156.8 |
| 25° | 10527.1 | 10443.9 | 10296.6 | 10146.1 | 10053.3 | 10024.4 | 10123.7 | 9809.9 | 9035.1 | 8558.1 | 6608.3 |
| 27.5° | 11570.8 | 11430.0 | 11337.1 | 11026.6 | 10776.8 | 10738.4 | 10690.4 | 10520.7 | 9816.3 | 9300.9 | 7117.3 |
| 30° | 12585.8 | 12473.7 | 12348.9 | 11852.6 | 11593.3 | 11551.6 | 11314.7 | 11362.7 | 10664.8 | 10091.7 | 7693.6 |
| 32.5° | 13354.2 | 13363.8 | 13078.8 | 12704.2 | 12460.9 | 12240.0 | 12153.5 | 12291.2 | 11753.3 | 11292.3 | 8337.2 |
| 35° | 13975.3 | 14004.1 | 13732.0 | 13392.6 | 13130.1 | 13283.7 | 13245.3 | 13309.4 | 13053.2 | 12489.7 | 9086.3 |
| 37.5° | 14580.4 | 14436.3 | 14145.0 | 13981.7 | 13844.0 | 14097.0 | 14423.5 | 14478.0 | 14526.0 | 13863.2 | 9957.2 |
| 40° | 14679.7 | 14692.5 | 14522.8 | 14638.0 | 14465.2 | 14846.2 | 15605.0 | 15534.5 | 15729.8 | 15150.3 | 10901.7 |
| 42.5° | 14538.8 | 14567.6 | 14634.8 | 14798.1 | 15214.3 | 15672.2 | 16799.2 | 16511.0 | 16747.9 | 16232.5 | 11820.6 |
| 45° | 14308.3 | 14189.8 | 14273.1 | 14894.2 | 15614.6 | 16632.7 | 17890.9 | 17666.8 | 17590.0 | 17157.8 | 12915.5 |
| 47.5° | 13206.9 | 13328.6 | 13587.9 | 14353.1 | 15435.3 | 16799.2 | 18665.8 | 18614.5 | 18845.0 | 18540.9 | 13911.3 |
| 50° | 11679.7 | 11631.7 | 12131.1 | 12992.4 | 14388.3 | 16472.6 | 18624.1 | 19088.4 | 19584.6 | 19162.0 | 14356.3 |
| 52.5° | 8747.0 | 9003.1 | 9432.1 | 10501.5 | 12492.9 | 14692.5 | 17714.9 | 18489.7 | 18893.1 | 18803.4 | 13997.7 |
| 55° | 5529.3 | 5606.1 | 5865.5 | 7136.5 | 8929.5 | 11791.8 | 15185.5 | 16981.7 | 17702.0 | 18038.2 | 13667.9 |
| 57.5° | 2686.2 | 2542.1 | 2859.1 | 3880.4 | 5157.9 | 7930.5 | 11711.7 | 14791.7 | 16357.3 | 16965.7 | 12950.8 |
| 60° | 1402.3 | 1456.8 | 1581.6 | 1946.6 | 2667.0 | 4117.4 | 7299.8 | 9857.9 | 12249.6 | 13184.5 | 9816.3 |
| 62.5° | 1162.2 | 1181.4 | 1264.7 | 1447.2 | 1773.7 | 2369.2 | 3726.7 | 4805.7 | 6246.5 | 7088.5 | 5583.7 |
| 65° | 986.1 | 995.7 | 1085.4 | 1207.0 | 1415.1 | 1668.1 | 1917.8 | 2007.4 | 2430.1 | 2494.1 | 1985.0 |
| 67.5° | 822.8 | 832.4 | 928.5 | 1043.7 | 1178.2 | 1245.5 | 1309.5 | 1303.1 | 1351.1 | 1331.9 | 1328.7 |
| 70° | 633.9 | 643.5 | 742.8 | 864.5 | 931.7 | 893.3 | 1091.8 | 1136.6 | 1155.8 | 1171.8 | 1197.4 |
| 72.5° | 457.8 | 477.0 | 553.9 | 640.3 | 605.1 | 694.8 | 899.7 | 966.9 | 992.5 | 1002.1 | 1034.1 |
| 75° | 333.0 | 339.4 | 358.6 | 333.0 | 384.2 | 483.5 | 633.9 | 717.2 | 749.2 | 758.8 | 806.8 |
| 77.5° | 147.3 | 150.5 | 153.7 | 192.1 | 246.5 | 301.0 | 377.8 | 445.0 | 489.9 | 502.7 | 515.5 |
| 80° | 76.8 | 80.0 | 99.3 | 131.3 | 176.1 | 220.9 | 275.3 | 313.8 | 342.6 | 345.8 | 358.6 |
| 82.5° | 48.0 | 51.2 | 70.4 | 92.8 | 124.9 | 163.3 | 201.7 | 233.7 | 256.1 | 259.3 | 262.5 |
| 85° | 22.4 | 28.8 | 41.6 | 57.6 | 83.2 | 105.7 | 108.9 | 92.8 | 99.3 | 102.5 | 96.1 |
| 87.5° | 6.4 | 9.6 | 12.8 | 9.6 | 12.8 | 12.8 | 16.0 | 19.2 | 19.2 | 19.2 | 22.4 |
| 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° | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 | 3601.9 |
| 2.5° | 3659.5 | 3630.7 | 3518.6 | 3477.0 | 3368.2 | 3387.4 | 3329.7 | 3326.5 | 3313.7 | 3310.5 | 3307.3 |
| 5° | 3749.2 | 3659.5 | 3525.0 | 3422.6 | 3361.8 | 3355.4 | 3313.7 | 3313.7 | 3326.5 | 3336.1 | 3313.7 |
| 7.5° | 3896.4 | 3794.0 | 3566.7 | 3470.6 | 3416.2 | 3406.6 | 3377.8 | 3355.4 | 3384.2 | 3374.6 | 3348.9 |
| 10° | 4066.1 | 3886.8 | 3646.7 | 3563.5 | 3473.8 | 3451.4 | 3451.4 | 3461.0 | 3413.0 | 3429.0 | 3403.4 |
| 12.5° | 4255.0 | 4014.9 | 3749.2 | 3653.1 | 3547.5 | 3534.6 | 3528.2 | 3457.8 | 3483.4 | 3470.6 | 3406.6 |
| 15° | 4495.1 | 4162.2 | 3880.4 | 3717.1 | 3627.5 | 3569.9 | 3486.6 | 3473.8 | 3457.8 | 3425.8 | 3397.0 |
| 17.5° | 4754.5 | 4322.3 | 3941.3 | 3736.4 | 3601.9 | 3560.3 | 3496.2 | 3429.0 | 3381.0 | 3387.4 | 3365.0 |
| 20° | 4975.4 | 4469.5 | 3963.7 | 3755.6 | 3582.7 | 3502.6 | 3403.4 | 3361.8 | 3310.5 | 3307.3 | 3304.1 |
| 22.5° | 5237.9 | 4668.0 | 3995.7 | 3704.3 | 3525.0 | 3441.8 | 3374.6 | 3300.9 | 3265.7 | 3220.9 | 3243.3 |
| 25° | 5551.7 | 4744.9 | 4002.1 | 3675.5 | 3483.4 | 3336.1 | 3300.9 | 3220.9 | 3208.1 | 3144.0 | 3156.8 |
| 27.5° | 5779.0 | 4786.5 | 3950.9 | 3585.9 | 3387.4 | 3275.3 | 3211.3 | 3153.6 | 3131.2 | 3083.2 | 3070.4 |
| 30° | 6083.2 | 4850.5 | 3842.0 | 3473.8 | 3291.3 | 3166.5 | 3128.0 | 3115.2 | 3051.2 | 3000.0 | 2993.6 |
| 32.5° | 6429.0 | 4892.2 | 3771.6 | 3358.6 | 3192.1 | 3096.0 | 3115.2 | 3054.4 | 2974.4 | 2929.5 | 2916.7 |
| 35° | 6704.3 | 4908.2 | 3595.5 | 3227.3 | 3124.8 | 3064.0 | 3041.6 | 3028.8 | 2913.5 | 2871.9 | 2839.9 |
| 37.5° | 7123.7 | 4872.9 | 3448.2 | 3134.4 | 3051.2 | 3028.8 | 3009.6 | 2923.1 | 2791.9 | 2731.0 | 2686.2 |
| 40° | 7613.6 | 4863.3 | 3259.3 | 3003.2 | 2980.8 | 3006.4 | 2948.7 | 2814.3 | 2631.8 | 2564.5 | 2532.5 |
| 42.5° | 8084.2 | 4930.6 | 3140.8 | 2932.7 | 2903.9 | 2913.5 | 2833.5 | 2631.8 | 2542.1 | 2503.7 | 2452.5 |
| 45° | 8871.8 | 5071.4 | 2945.5 | 2823.9 | 2811.1 | 2804.7 | 2708.6 | 2497.3 | 2446.1 | 2398.1 | 2388.4 |
| 47.5° | 9582.6 | 4978.6 | 2820.7 | 2711.8 | 2724.6 | 2689.4 | 2484.5 | 2417.3 | 2359.6 | 2311.6 | 2295.6 |
| 50° | 9624.2 | 4757.7 | 2644.6 | 2625.4 | 2628.6 | 2567.7 | 2372.4 | 2327.6 | 2254.0 | 2222.0 | 2199.5 |
| 52.5° | 9406.5 | 4395.9 | 2481.3 | 2487.7 | 2497.3 | 2398.1 | 2234.8 | 2202.8 | 2141.9 | 2097.1 | 2084.3 |
| 55° | 8795.0 | 3832.4 | 2321.2 | 2346.8 | 2372.4 | 2183.5 | 2132.3 | 2052.3 | 2004.2 | 1940.2 | 1943.4 |
| 57.5° | 7748.0 | 3086.4 | 2097.1 | 2138.7 | 2193.1 | 1985.0 | 1946.6 | 1847.4 | 1776.9 | 1725.7 | 1719.3 |
| 60° | 5193.1 | 2196.3 | 1760.9 | 1776.9 | 1898.6 | 1815.3 | 1812.1 | 1712.9 | 1616.8 | 1572.0 | 1546.4 |
| 62.5° | 3064.0 | 1677.7 | 1520.8 | 1504.8 | 1501.6 | 1549.6 | 1629.7 | 1594.4 | 1469.6 | 1383.1 | 1408.7 |
| 65° | 1604.0 | 1450.4 | 1415.1 | 1360.7 | 1328.7 | 1315.9 | 1376.7 | 1392.7 | 1309.5 | 1216.6 | 1210.2 |
| 67.5° | 1347.9 | 1347.9 | 1319.1 | 1299.9 | 1255.1 | 1200.6 | 1162.2 | 1111.0 | 1098.2 | 1072.6 | 1040.5 |
| 70° | 1226.2 | 1258.3 | 1248.7 | 1203.8 | 1165.4 | 1104.6 | 1005.3 | 922.1 | 842.0 | 813.2 | 832.4 |
| 72.5° | 1069.4 | 1101.4 | 1101.4 | 1079.0 | 1027.7 | 934.9 | 838.8 | 742.8 | 675.6 | 624.3 | 617.9 |
| 75° | 822.8 | 838.8 | 877.3 | 851.6 | 784.4 | 726.8 | 627.5 | 528.3 | 464.2 | 416.2 | 406.6 |
| 77.5° | 525.1 | 550.7 | 550.7 | 547.5 | 499.5 | 445.0 | 381.0 | 310.6 | 262.5 | 227.3 | 217.7 |
| 80° | 349.0 | 365.0 | 377.8 | 365.0 | 333.0 | 291.4 | 243.3 | 195.3 | 160.1 | 131.3 | 124.9 |
| 82.5° | 256.1 | 275.3 | 284.9 | 272.1 | 240.1 | 208.1 | 172.9 | 137.7 | 102.5 | 80.0 | 73.6 |
| 85° | 99.3 | 102.5 | 115.3 | 137.7 | 134.5 | 131.3 | 105.7 | 76.8 | 57.6 | 41.6 | 38.4 |
| 87.5° | 25.6 | 22.4 | 25.6 | 25.6 | 22.4 | 19.2 | 19.2 | 19.2 | 19.2 | 9.6 | 12.8 |
| 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)