

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: P649492

Luminaire Tested: **GLAN-SA6D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649492
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-SA6D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 31563.5 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

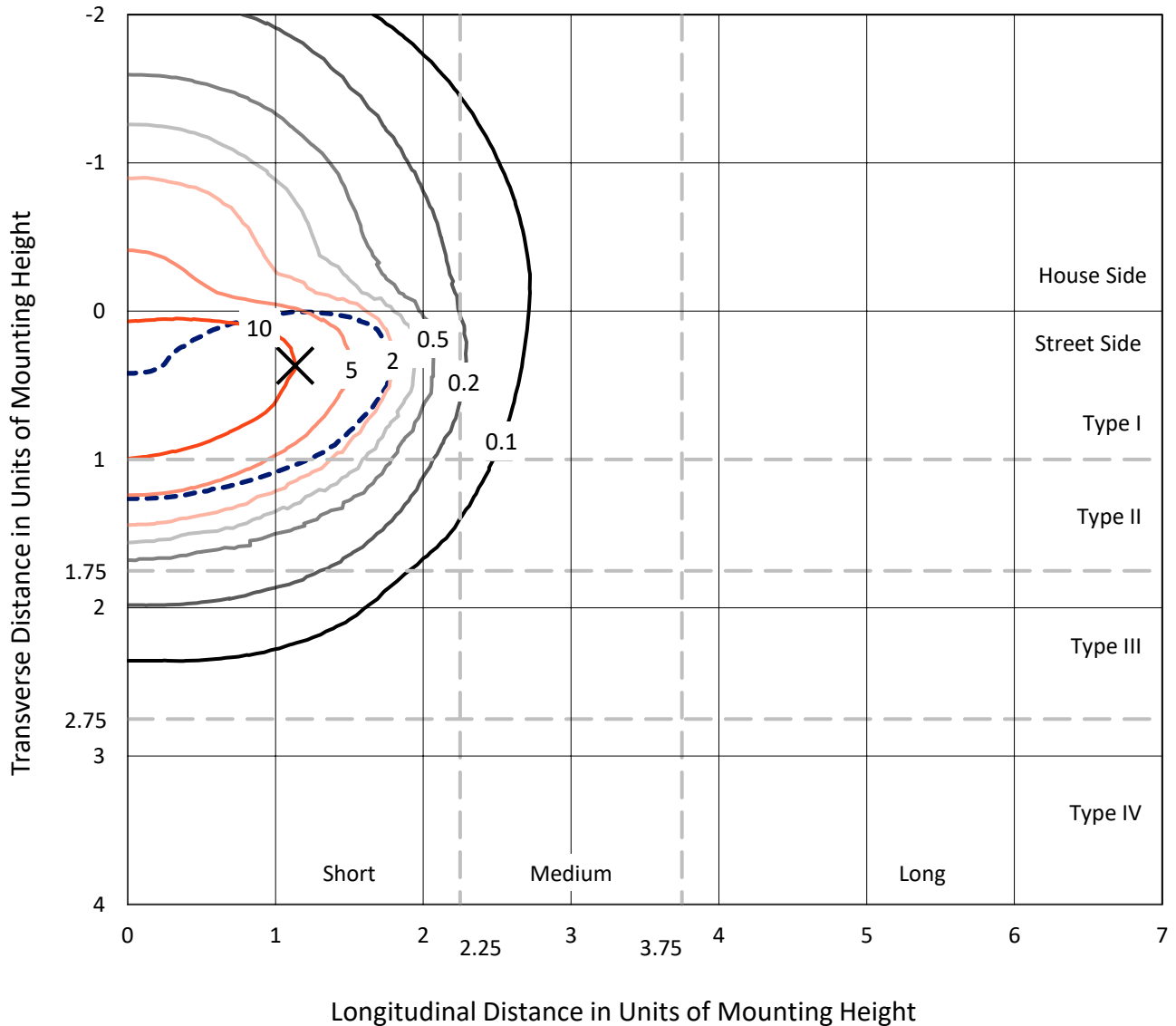
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

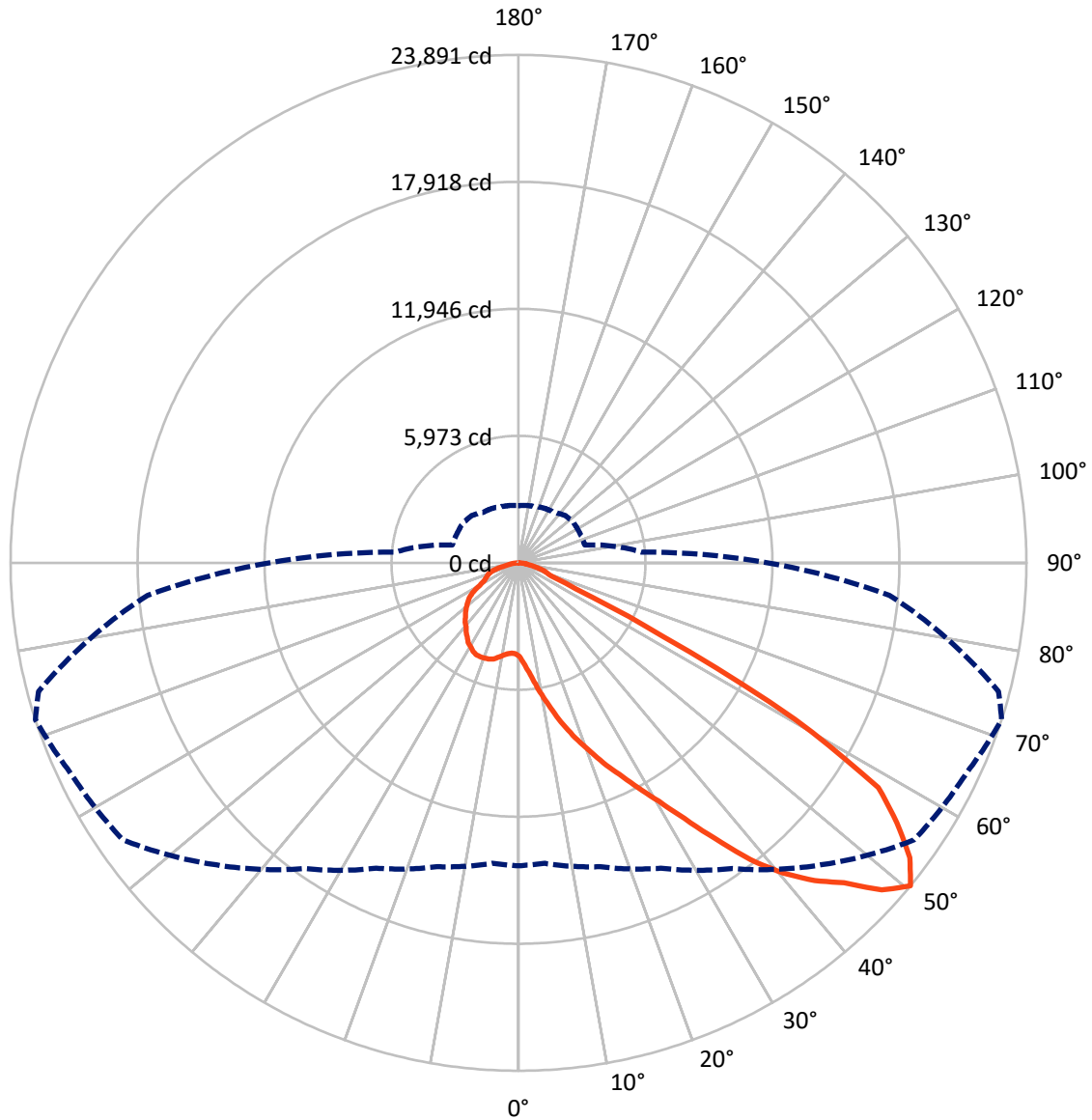
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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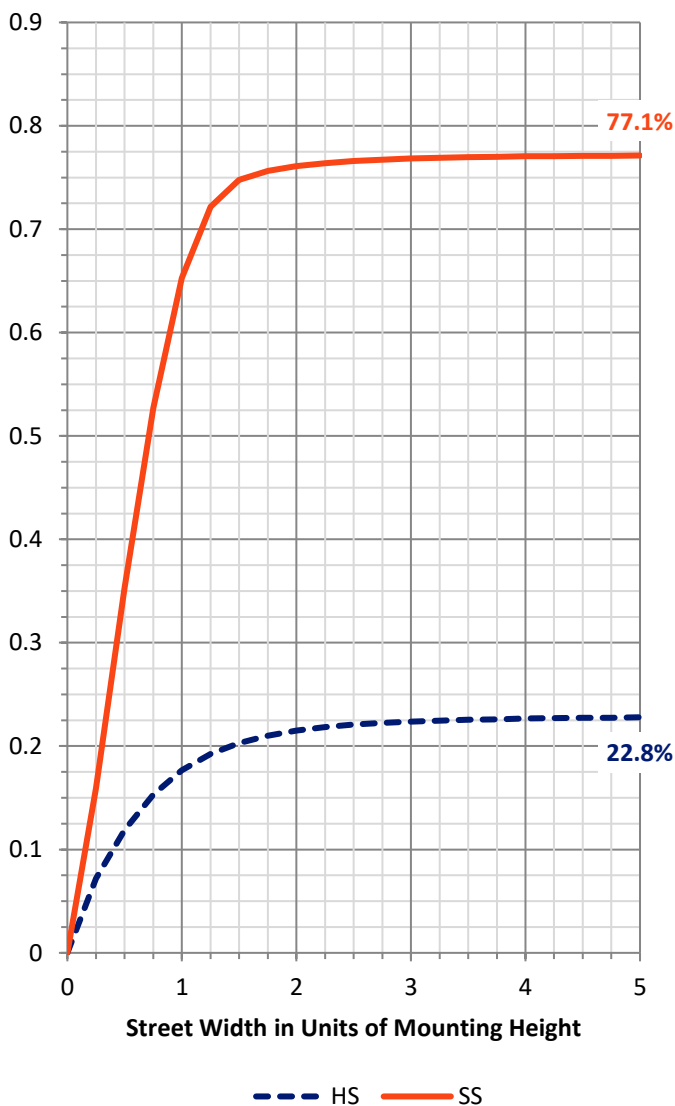
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7231.4 | 0.0 | 7231.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 24332.1 | 0.0 | 24332.1 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 31563.5 | 0.0 | 31563.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 516.8 | 1.6 |
| 10°-20° | 1932.1 | 6.1 |
| 20°-30° | 3746.2 | 11.9 |
| 30°-40° | 6206.2 | 19.7 |
| 40°-50° | 8683.8 | 27.5 |
| 50°-60° | 7325.9 | 23.2 |
| 60°-70° | 2232.9 | 7.1 |
| 70°-80° | 783.4 | 2.5 |
| 80°-90° | 136.2 | 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° | 31563.5 | 100.0 |
| 0°-180° | 31563.5 | 100.0 |

Coefficient of Utilization

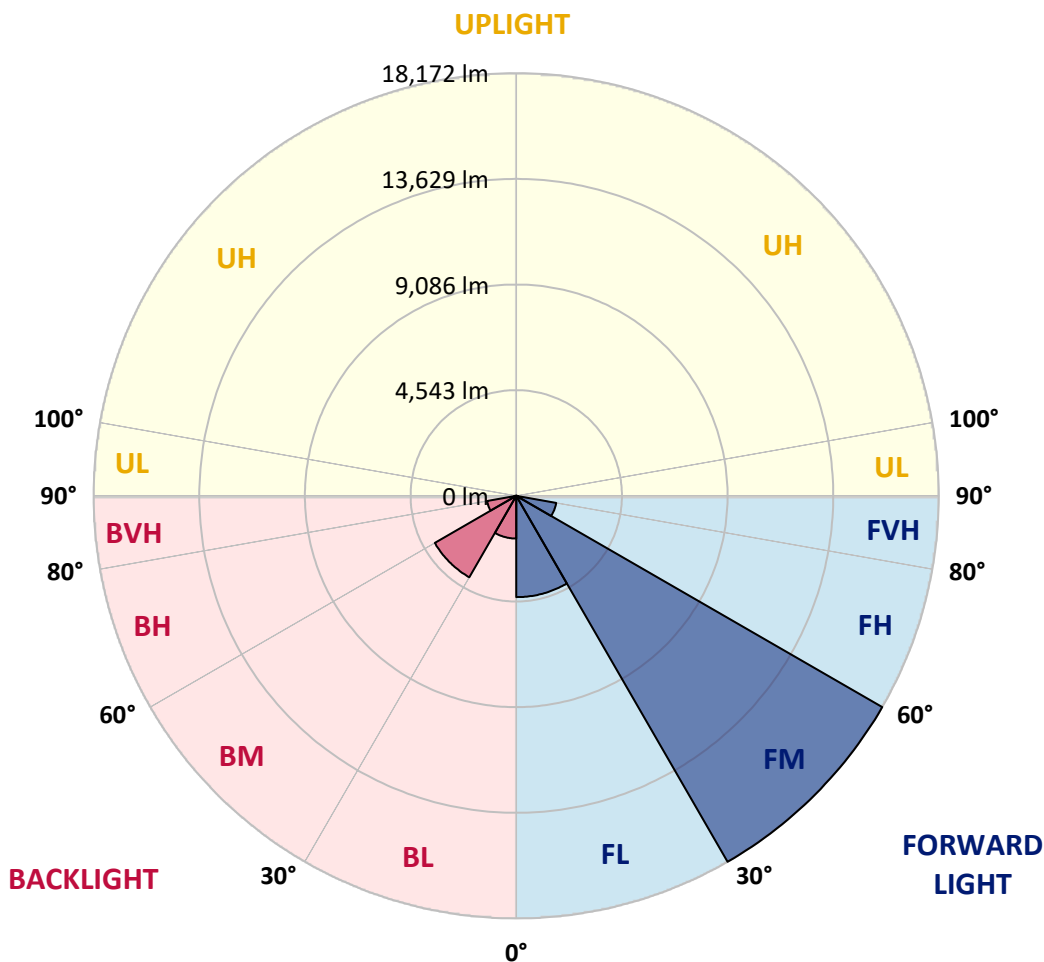


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4356.9 | 13.8 | | | |
| FM (30°-60°) | 18172.0 | 57.6 | | | |
| FH (60°-80°) | 1742.3 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 61.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1838.2 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4043.9 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1274.0 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 75.2 | 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° | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 |
| 2.5° | 5651.5 | 5616.4 | 5510.9 | 5475.8 | 5350.8 | 5124.3 | 5046.2 | 4815.8 | 4718.0 | 4628.2 | 4522.8 |
| 5° | 7147.5 | 6983.4 | 6971.7 | 6772.5 | 6483.5 | 6315.5 | 5815.6 | 5479.7 | 5171.2 | 5014.9 | 4725.9 |
| 7.5° | 8100.4 | 8104.3 | 8104.3 | 7940.2 | 7709.8 | 7284.1 | 6835.0 | 6229.6 | 5764.8 | 5534.4 | 5042.3 |
| 10° | 9006.5 | 8928.4 | 8885.5 | 8869.8 | 8713.6 | 8299.6 | 7819.2 | 7069.3 | 6432.7 | 6163.2 | 5280.5 |
| 12.5° | 9647.1 | 9580.7 | 9678.3 | 9627.5 | 9514.3 | 9244.8 | 8791.8 | 7936.4 | 7139.6 | 6776.4 | 5663.3 |
| 15° | 9951.7 | 9998.6 | 10076.7 | 10217.3 | 10166.6 | 10065.0 | 9565.0 | 8826.9 | 7901.3 | 7491.1 | 6003.0 |
| 17.5° | 10420.4 | 10291.5 | 10385.2 | 10561.0 | 10701.6 | 10654.8 | 10369.7 | 9471.3 | 8655.0 | 8151.2 | 6460.1 |
| 20° | 10748.5 | 10674.2 | 10721.1 | 10924.3 | 11029.7 | 11295.2 | 11146.9 | 10314.9 | 9377.6 | 8846.4 | 6999.0 |
| 22.5° | 11685.9 | 11576.5 | 11424.2 | 11455.4 | 11494.4 | 11682.0 | 11717.1 | 11240.6 | 10217.3 | 9654.9 | 7510.7 |
| 25° | 12841.9 | 12740.3 | 12560.7 | 12377.2 | 12263.9 | 12228.7 | 12349.8 | 11967.1 | 11021.9 | 10439.9 | 8061.4 |
| 27.5° | 14115.2 | 13943.4 | 13830.1 | 13451.2 | 13146.6 | 13099.7 | 13041.1 | 12834.2 | 11974.9 | 11346.1 | 8682.4 |
| 30° | 15353.3 | 15216.6 | 15064.3 | 14458.9 | 14142.5 | 14091.7 | 13802.7 | 13861.3 | 13009.9 | 12310.8 | 9385.4 |
| 32.5° | 16290.6 | 16302.4 | 15954.8 | 15497.8 | 15201.0 | 14931.5 | 14826.0 | 14994.0 | 14337.8 | 13775.4 | 10170.5 |
| 35° | 17048.3 | 17083.5 | 16751.5 | 16337.5 | 16017.3 | 16204.7 | 16157.9 | 16236.0 | 15923.6 | 15236.2 | 11084.4 |
| 37.5° | 17786.5 | 17610.8 | 17255.4 | 17056.2 | 16888.2 | 17196.8 | 17595.2 | 17661.6 | 17720.2 | 16911.7 | 12146.8 |
| 40° | 17907.6 | 17923.3 | 17716.2 | 17856.9 | 17645.9 | 18110.7 | 19036.4 | 18950.5 | 19188.7 | 18481.8 | 13298.9 |
| 42.5° | 17735.8 | 17770.9 | 17852.9 | 18052.1 | 18559.8 | 19118.4 | 20493.2 | 20141.7 | 20430.7 | 19801.9 | 14419.8 |
| 45° | 17454.6 | 17310.0 | 17411.6 | 18169.3 | 19048.1 | 20290.1 | 21825.0 | 21551.6 | 21457.9 | 20930.6 | 15755.6 |
| 47.5° | 16111.0 | 16259.4 | 16575.8 | 17509.2 | 18829.3 | 20493.2 | 22770.2 | 22707.7 | 22989.0 | 22617.9 | 16970.3 |
| 50° | 14248.0 | 14189.4 | 14798.7 | 15849.3 | 17552.2 | 20094.8 | 22719.4 | 23285.8 | 23891.1 | 23375.6 | 17513.1 |
| 52.5° | 10670.3 | 10982.8 | 11506.2 | 12810.7 | 15240.0 | 17923.3 | 21610.3 | 22555.4 | 23047.5 | 22938.1 | 17075.7 |
| 55° | 6745.2 | 6838.9 | 7155.2 | 8705.8 | 10893.0 | 14384.6 | 18524.8 | 20715.8 | 21594.6 | 22004.7 | 16673.4 |
| 57.5° | 3276.9 | 3101.1 | 3487.8 | 4733.7 | 6292.1 | 9674.4 | 14287.0 | 18044.3 | 19954.2 | 20696.3 | 15798.5 |
| 60° | 1710.7 | 1777.1 | 1929.4 | 2374.7 | 3253.4 | 5022.7 | 8905.0 | 12025.6 | 14943.2 | 16083.7 | 11974.9 |
| 62.5° | 1417.8 | 1441.2 | 1542.7 | 1765.4 | 2163.7 | 2890.2 | 4546.3 | 5862.5 | 7620.0 | 8647.2 | 6811.6 |
| 65° | 1202.9 | 1214.7 | 1324.1 | 1472.4 | 1726.3 | 2034.9 | 2339.5 | 2448.9 | 2964.4 | 3042.5 | 2421.5 |
| 67.5° | 1003.7 | 1015.5 | 1132.7 | 1273.2 | 1437.3 | 1519.3 | 1597.4 | 1589.6 | 1648.2 | 1624.8 | 1620.9 |
| 70° | 773.3 | 785.0 | 906.1 | 1054.5 | 1136.5 | 1089.7 | 1331.8 | 1386.5 | 1409.9 | 1429.5 | 1460.8 |
| 72.5° | 558.5 | 581.9 | 675.7 | 781.1 | 738.2 | 847.5 | 1097.5 | 1179.5 | 1210.8 | 1222.5 | 1261.6 |
| 75° | 406.2 | 414.0 | 437.5 | 406.2 | 468.7 | 589.8 | 773.3 | 874.8 | 913.9 | 925.7 | 984.2 |
| 77.5° | 179.7 | 183.5 | 187.5 | 234.4 | 300.8 | 367.1 | 460.9 | 542.9 | 597.6 | 613.2 | 628.8 |
| 80° | 93.7 | 97.6 | 121.1 | 160.1 | 214.8 | 269.5 | 335.9 | 382.7 | 417.9 | 421.8 | 437.5 |
| 82.5° | 58.6 | 62.5 | 85.9 | 113.3 | 152.3 | 199.2 | 246.1 | 285.1 | 312.4 | 316.3 | 320.2 |
| 85° | 27.3 | 35.2 | 50.7 | 70.3 | 101.6 | 128.9 | 132.8 | 113.3 | 121.1 | 125.0 | 117.1 |
| 87.5° | 7.8 | 11.7 | 15.7 | 11.7 | 15.7 | 15.7 | 19.5 | 23.4 | 23.4 | 23.4 | 27.3 |
| 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° | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 | 4393.9 |
| 2.5° | 4464.2 | 4429.0 | 4292.3 | 4241.6 | 4108.8 | 4132.2 | 4061.9 | 4058.1 | 4042.4 | 4038.5 | 4034.6 |
| 5° | 4573.6 | 4464.2 | 4300.2 | 4175.2 | 4101.0 | 4093.1 | 4042.4 | 4042.4 | 4058.1 | 4069.7 | 4042.4 |
| 7.5° | 4753.2 | 4628.2 | 4351.0 | 4233.8 | 4167.4 | 4155.7 | 4120.5 | 4093.1 | 4128.3 | 4116.6 | 4085.4 |
| 10° | 4960.2 | 4741.5 | 4448.6 | 4347.1 | 4237.7 | 4210.3 | 4210.3 | 4222.1 | 4163.4 | 4183.0 | 4151.8 |
| 12.5° | 5190.7 | 4897.7 | 4573.6 | 4456.4 | 4327.5 | 4311.9 | 4304.1 | 4218.2 | 4249.4 | 4233.8 | 4155.7 |
| 15° | 5483.6 | 5077.4 | 4733.7 | 4534.5 | 4425.1 | 4354.9 | 4253.3 | 4237.7 | 4218.2 | 4179.1 | 4143.9 |
| 17.5° | 5800.0 | 5272.7 | 4807.9 | 4557.9 | 4393.9 | 4343.1 | 4265.0 | 4183.0 | 4124.5 | 4132.2 | 4104.9 |
| 20° | 6069.4 | 5452.3 | 4835.3 | 4581.4 | 4370.5 | 4272.8 | 4151.8 | 4101.0 | 4038.5 | 4034.6 | 4030.6 |
| 22.5° | 6389.7 | 5694.5 | 4874.3 | 4518.9 | 4300.2 | 4198.6 | 4116.6 | 4026.8 | 3983.8 | 3929.1 | 3956.5 |
| 25° | 6772.5 | 5788.2 | 4882.1 | 4483.8 | 4249.4 | 4069.7 | 4026.8 | 3929.1 | 3913.5 | 3835.4 | 3851.0 |
| 27.5° | 7049.8 | 5839.0 | 4819.6 | 4374.4 | 4132.2 | 3995.5 | 3917.4 | 3847.1 | 3819.8 | 3761.2 | 3745.6 |
| 30° | 7420.8 | 5917.1 | 4686.8 | 4237.7 | 4015.1 | 3862.8 | 3815.9 | 3800.2 | 3722.1 | 3659.7 | 3651.8 |
| 32.5° | 7842.6 | 5967.9 | 4600.9 | 4097.0 | 3894.0 | 3776.8 | 3800.2 | 3726.1 | 3628.4 | 3573.7 | 3558.1 |
| 35° | 8178.5 | 5987.4 | 4386.1 | 3936.9 | 3812.0 | 3737.7 | 3710.4 | 3694.8 | 3554.2 | 3503.4 | 3464.4 |
| 37.5° | 8690.2 | 5944.5 | 4206.4 | 3823.7 | 3722.1 | 3694.8 | 3671.3 | 3565.9 | 3405.7 | 3331.6 | 3276.9 |
| 40° | 9287.7 | 5932.8 | 3976.0 | 3663.6 | 3636.2 | 3667.4 | 3597.2 | 3433.1 | 3210.5 | 3128.5 | 3089.4 |
| 42.5° | 9861.9 | 6014.8 | 3831.5 | 3577.6 | 3542.4 | 3554.2 | 3456.6 | 3210.5 | 3101.1 | 3054.2 | 2991.8 |
| 45° | 10822.7 | 6186.6 | 3593.3 | 3444.8 | 3429.2 | 3421.4 | 3304.2 | 3046.4 | 2983.9 | 2925.4 | 2913.6 |
| 47.5° | 11689.7 | 6073.3 | 3440.9 | 3308.1 | 3323.8 | 3280.8 | 3030.8 | 2948.8 | 2878.5 | 2819.9 | 2800.4 |
| 50° | 11740.5 | 5803.8 | 3226.1 | 3202.7 | 3206.5 | 3132.4 | 2894.1 | 2839.5 | 2749.6 | 2710.6 | 2683.2 |
| 52.5° | 11474.9 | 5362.5 | 3026.9 | 3034.8 | 3046.4 | 2925.4 | 2726.2 | 2687.1 | 2612.9 | 2558.2 | 2542.6 |
| 55° | 10729.0 | 4675.1 | 2831.6 | 2862.9 | 2894.1 | 2663.7 | 2601.2 | 2503.6 | 2445.0 | 2366.9 | 2370.8 |
| 57.5° | 9451.8 | 3765.1 | 2558.2 | 2609.0 | 2675.4 | 2421.5 | 2374.7 | 2253.6 | 2167.7 | 2105.2 | 2097.3 |
| 60° | 6335.0 | 2679.3 | 2148.2 | 2167.7 | 2316.1 | 2214.6 | 2210.6 | 2089.5 | 1972.4 | 1917.7 | 1886.5 |
| 62.5° | 3737.7 | 2046.6 | 1855.2 | 1835.7 | 1831.8 | 1890.4 | 1988.0 | 1945.1 | 1792.7 | 1687.3 | 1718.5 |
| 65° | 1956.7 | 1769.3 | 1726.3 | 1660.0 | 1620.9 | 1605.2 | 1679.5 | 1699.0 | 1597.4 | 1484.2 | 1476.3 |
| 67.5° | 1644.3 | 1644.3 | 1609.1 | 1585.7 | 1531.0 | 1464.6 | 1417.8 | 1355.3 | 1339.6 | 1308.4 | 1269.3 |
| 70° | 1495.8 | 1534.9 | 1523.2 | 1468.5 | 1421.7 | 1347.5 | 1226.4 | 1124.9 | 1027.2 | 992.1 | 1015.5 |
| 72.5° | 1304.5 | 1343.5 | 1343.5 | 1316.2 | 1253.7 | 1140.4 | 1023.3 | 906.1 | 824.1 | 761.6 | 753.8 |
| 75° | 1003.7 | 1023.3 | 1070.1 | 1038.9 | 956.9 | 886.6 | 765.5 | 644.4 | 566.3 | 507.8 | 496.0 |
| 77.5° | 640.6 | 671.8 | 671.8 | 667.9 | 609.3 | 542.9 | 464.8 | 378.8 | 320.2 | 277.3 | 265.6 |
| 80° | 425.7 | 445.2 | 460.9 | 445.2 | 406.2 | 355.4 | 296.8 | 238.3 | 195.3 | 160.1 | 152.3 |
| 82.5° | 312.4 | 335.9 | 347.6 | 332.0 | 292.9 | 253.8 | 210.9 | 168.0 | 125.0 | 97.6 | 89.8 |
| 85° | 121.1 | 125.0 | 140.6 | 168.0 | 164.0 | 160.1 | 128.9 | 93.7 | 70.3 | 50.7 | 46.9 |
| 87.5° | 31.2 | 27.3 | 31.2 | 31.2 | 27.3 | 23.4 | 23.4 | 23.4 | 23.4 | 11.7 | 15.7 |
| 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)