

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: P459316

Luminaire Tested: **GLAN-SA7D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51154 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

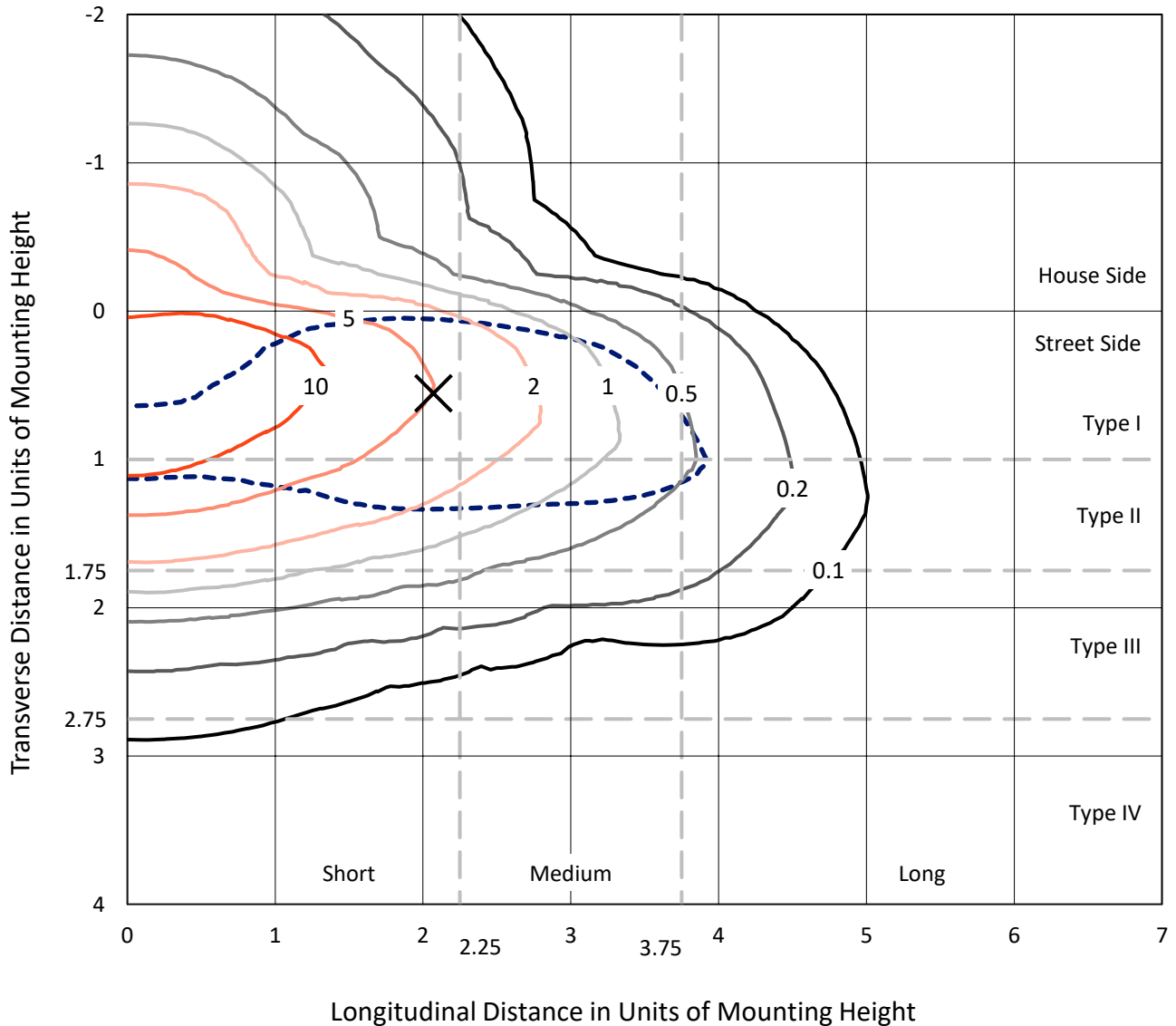
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

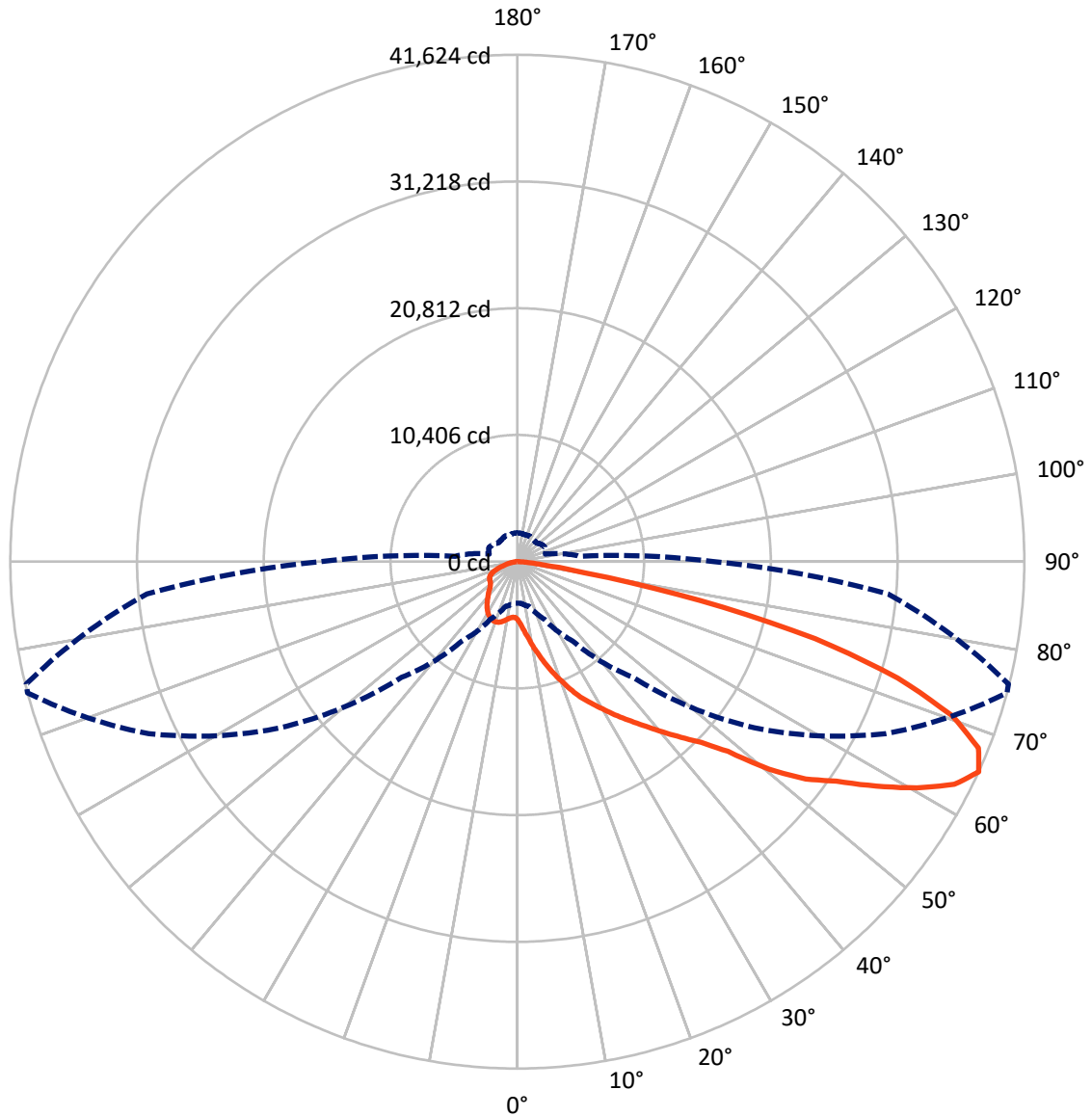
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8599.7 | 0.0 | 8599.7 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 42554.3 | 0.0 | 42554.3 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 51154.0 | 0.0 | 51154.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 577.5 | 1.1 |
| 10°-20° | 2261.8 | 4.4 |
| 20°-30° | 4369.1 | 8.5 |
| 30°-40° | 7096.7 | 13.9 |
| 40°-50° | 9762.1 | 19.1 |
| 50°-60° | 11525.8 | 22.5 |
| 60°-70° | 10098.5 | 19.7 |
| 70°-80° | 4821.1 | 9.4 |
| 80°-90° | 641.5 | 1.3 |
| 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° | 51154.0 | 100.0 |
| 0°-180° | 51154.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P459316

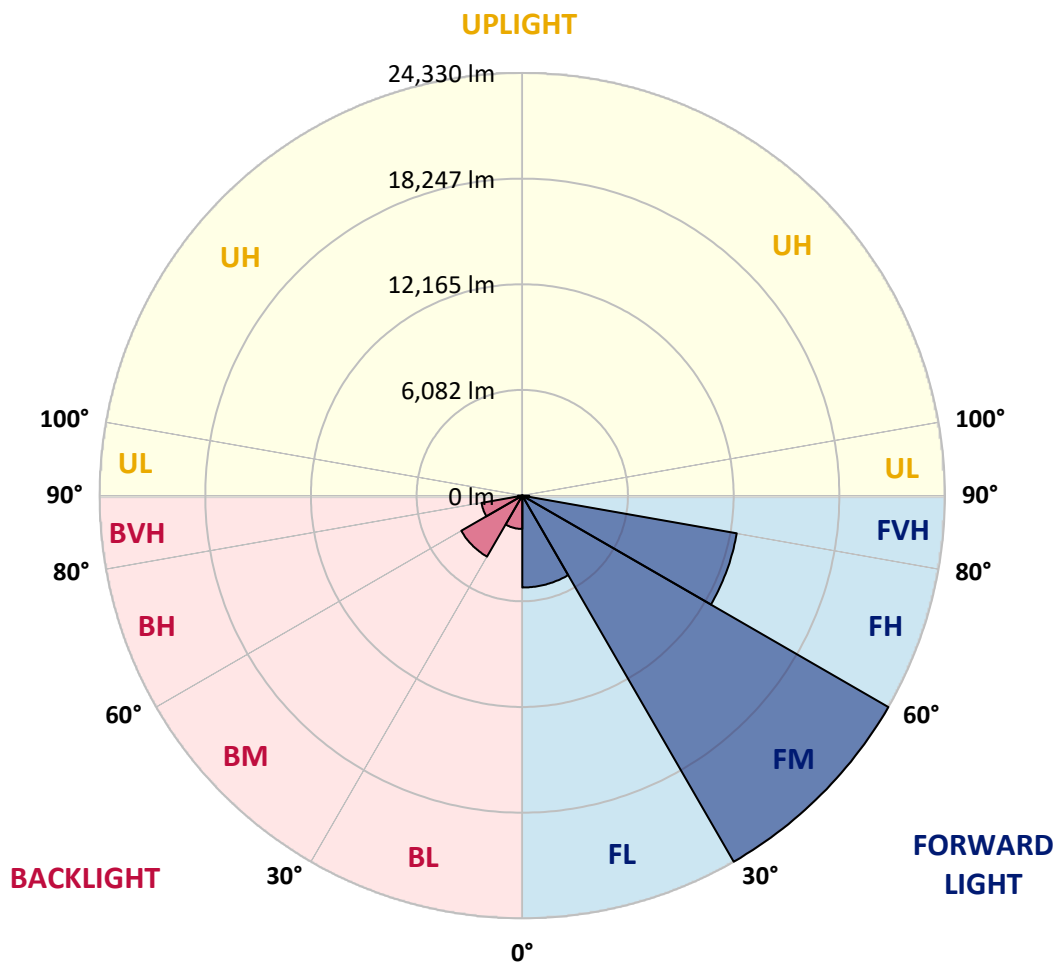
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5288.5 | 10.3 | | | |
| FM (30°-60°) | 24329.9 | 47.6 | | | |
| FH (60°-80°) | 12535.0 | 24.5 | | | G5 |
| FVH (80°-90°) | 400.9 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1919.8 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 4054.7 | 7.9 | B3/5000 | | |
| BH (60°-80°) | 2384.5 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 240.6 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 |
| 2.5° | 6314.9 | 6273.3 | 6228.9 | 6106.8 | 5976.4 | 5829.4 | 5618.5 | 5416.0 | 5146.8 | 5138.5 | 4938.7 |
| 5° | 8065.7 | 8038.0 | 7841.0 | 7727.2 | 7424.8 | 7022.5 | 6681.2 | 6151.2 | 5660.1 | 5601.9 | 5213.4 |
| 7.5° | 9675.0 | 9566.7 | 9491.8 | 9286.5 | 8986.9 | 8470.8 | 7810.4 | 7094.6 | 6273.3 | 6195.6 | 5551.9 |
| 10° | 10887.4 | 10876.3 | 10837.5 | 10659.9 | 10435.2 | 9921.9 | 9189.4 | 8162.8 | 7050.2 | 6897.6 | 5962.6 |
| 12.5° | 11794.7 | 11803.1 | 11797.5 | 11794.7 | 11633.8 | 11198.2 | 10404.7 | 9322.6 | 7835.4 | 7727.2 | 6437.0 |
| 15° | 12391.3 | 12474.5 | 12507.8 | 12646.5 | 12660.4 | 12369.1 | 11686.5 | 10443.5 | 8720.5 | 8559.6 | 6947.5 |
| 17.5° | 12785.3 | 12826.9 | 12982.3 | 13218.1 | 13409.5 | 13356.8 | 12749.2 | 11481.2 | 9625.0 | 9355.9 | 7477.5 |
| 20° | 13162.6 | 13234.7 | 13354.0 | 13675.9 | 14014.4 | 14169.8 | 13742.5 | 12543.9 | 10521.2 | 10349.2 | 8062.9 |
| 22.5° | 13947.8 | 14050.5 | 14092.1 | 14255.8 | 14544.3 | 14819.0 | 14624.8 | 13562.1 | 11503.4 | 11270.3 | 8684.4 |
| 25° | 15276.8 | 15385.0 | 15268.5 | 15229.7 | 15324.0 | 15460.0 | 15418.3 | 14522.1 | 12430.1 | 12097.2 | 9272.6 |
| 27.5° | 17008.2 | 17022.0 | 16794.5 | 16578.1 | 16345.0 | 16275.7 | 16148.0 | 15373.9 | 13234.7 | 12957.3 | 9863.6 |
| 30° | 18867.1 | 18800.5 | 18423.2 | 18032.0 | 17638.0 | 17249.6 | 16883.3 | 16195.2 | 14130.9 | 13811.9 | 10443.5 |
| 32.5° | 20592.9 | 20556.9 | 20137.9 | 19530.3 | 18864.4 | 18498.1 | 17757.3 | 17024.8 | 15090.9 | 14783.0 | 11040.0 |
| 35° | 21885.9 | 21938.6 | 21478.0 | 20814.9 | 20087.9 | 19763.3 | 18828.3 | 17896.0 | 16084.2 | 15748.5 | 11689.3 |
| 37.5° | 22804.3 | 22776.5 | 22368.7 | 21794.3 | 21156.2 | 20873.2 | 20079.6 | 18847.7 | 17152.4 | 16830.6 | 12399.6 |
| 40° | 23131.7 | 23115.0 | 22812.6 | 22393.6 | 21988.5 | 21888.6 | 21389.2 | 19874.3 | 18376.0 | 17998.7 | 13254.2 |
| 42.5° | 22923.6 | 22959.6 | 22759.9 | 22646.1 | 22571.2 | 22643.3 | 22690.5 | 21220.0 | 19710.6 | 19363.8 | 14180.9 |
| 45° | 22285.4 | 22266.0 | 22238.2 | 22424.1 | 22845.9 | 23320.3 | 23977.9 | 22490.7 | 21161.7 | 20884.3 | 15423.9 |
| 47.5° | 21145.1 | 21283.8 | 21353.2 | 21866.5 | 22787.6 | 23911.3 | 25459.5 | 24194.3 | 23267.6 | 23026.2 | 17318.9 |
| 50° | 19549.7 | 19660.7 | 20071.3 | 20984.1 | 22357.6 | 24133.3 | 26907.9 | 26980.0 | 26780.2 | 26328.0 | 19377.7 |
| 52.5° | 17058.1 | 17230.1 | 18076.4 | 19749.4 | 21475.2 | 24041.7 | 27784.6 | 29368.9 | 29632.5 | 29294.0 | 21405.9 |
| 55° | 14269.7 | 14511.0 | 15404.5 | 17599.2 | 20260.0 | 23542.3 | 28389.5 | 30753.4 | 31805.0 | 31491.5 | 23359.2 |
| 57.5° | 11539.5 | 11794.7 | 12713.1 | 14838.4 | 18140.2 | 22438.0 | 28786.3 | 32296.1 | 34762.7 | 34354.8 | 25789.7 |
| 60° | 8648.4 | 8914.7 | 9702.7 | 11891.8 | 15121.5 | 20279.4 | 28517.1 | 33633.4 | 37717.6 | 37542.8 | 28223.0 |
| 62.5° | 5579.7 | 5873.8 | 6559.1 | 8370.9 | 11622.7 | 17330.0 | 27077.1 | 34371.5 | 40275.8 | 40064.9 | 29998.7 |
| 65° | 3398.9 | 3432.2 | 3809.5 | 5196.8 | 7954.7 | 13417.9 | 23783.7 | 33392.1 | 41624.2 | 41560.4 | 30539.8 |
| 67.5° | 2197.5 | 2250.2 | 2422.2 | 3113.1 | 4769.5 | 9319.8 | 19017.0 | 30159.7 | 40836.2 | 40814.0 | 29421.6 |
| 70° | 1856.2 | 1872.8 | 1950.5 | 2100.4 | 2771.8 | 5651.8 | 13354.0 | 25007.3 | 37842.5 | 37842.5 | 26733.1 |
| 72.5° | 1659.2 | 1681.4 | 1709.1 | 1756.3 | 1978.3 | 3201.9 | 7968.6 | 19466.4 | 32673.4 | 32889.9 | 22754.3 |
| 75° | 1506.6 | 1501.0 | 1517.7 | 1526.0 | 1686.9 | 2092.0 | 4120.2 | 14397.3 | 25276.4 | 24843.6 | 16478.2 |
| 77.5° | 1290.2 | 1298.5 | 1290.2 | 1326.2 | 1489.9 | 1592.6 | 2092.0 | 9661.1 | 15318.4 | 14758.0 | 8271.0 |
| 80° | 1059.9 | 1073.8 | 1087.6 | 1109.8 | 1273.5 | 1209.7 | 1256.9 | 4403.3 | 5665.7 | 5546.4 | 2555.4 |
| 82.5° | 796.3 | 815.7 | 837.9 | 890.6 | 1001.6 | 799.1 | 793.5 | 1881.2 | 2044.9 | 1872.8 | 940.6 |
| 85° | 321.9 | 380.1 | 574.3 | 627.1 | 629.8 | 438.4 | 488.3 | 785.2 | 835.1 | 815.7 | 369.0 |
| 87.5° | 74.9 | 88.8 | 185.9 | 280.2 | 258.0 | 163.7 | 180.3 | 255.3 | 291.3 | 269.1 | 124.9 |
| 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° | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 | 4752.9 |
| 2.5° | 4847.2 | 4750.1 | 4583.6 | 4456.0 | 4364.4 | 4283.9 | 4234.0 | 4203.5 | 4192.4 | 4189.6 | 4192.4 |
| 5° | 5010.9 | 4838.9 | 4575.3 | 4408.8 | 4317.2 | 4264.5 | 4234.0 | 4231.2 | 4234.0 | 4236.8 | 4228.5 |
| 7.5° | 5235.6 | 4988.7 | 4644.6 | 4489.3 | 4419.9 | 4381.1 | 4367.2 | 4361.6 | 4364.4 | 4361.6 | 4361.6 |
| 10° | 5535.3 | 5196.8 | 4780.6 | 4619.7 | 4561.4 | 4517.0 | 4494.8 | 4480.9 | 4469.8 | 4458.7 | 4453.2 |
| 12.5° | 5865.5 | 5427.1 | 4927.7 | 4772.3 | 4689.0 | 4619.7 | 4569.7 | 4533.7 | 4508.7 | 4483.7 | 4478.2 |
| 15° | 6234.5 | 5671.2 | 5091.4 | 4874.9 | 4755.6 | 4653.0 | 4567.0 | 4508.7 | 4464.3 | 4428.2 | 4425.5 |
| 17.5° | 6586.8 | 5901.5 | 5202.3 | 4922.1 | 4747.3 | 4603.0 | 4489.3 | 4408.8 | 4353.3 | 4306.1 | 4300.6 |
| 20° | 6964.2 | 6120.7 | 5252.3 | 4891.6 | 4664.1 | 4489.3 | 4339.4 | 4242.3 | 4178.5 | 4125.8 | 4117.5 |
| 22.5° | 7344.3 | 6306.6 | 5246.7 | 4794.5 | 4519.8 | 4314.5 | 4156.3 | 4053.7 | 3978.7 | 3926.0 | 3906.6 |
| 25° | 7707.8 | 6456.4 | 5177.4 | 4639.1 | 4320.0 | 4106.4 | 3945.5 | 3851.1 | 3784.5 | 3720.7 | 3720.7 |
| 27.5° | 8035.2 | 6545.2 | 5047.0 | 4450.4 | 4114.7 | 3890.0 | 3762.3 | 3676.3 | 3615.3 | 3573.7 | 3548.7 |
| 30° | 8357.0 | 6586.8 | 4869.4 | 4211.8 | 3898.3 | 3706.8 | 3604.2 | 3554.2 | 3498.7 | 3451.6 | 3446.0 |
| 32.5° | 8645.6 | 6578.5 | 4647.4 | 3978.7 | 3693.0 | 3557.0 | 3515.4 | 3476.5 | 3418.3 | 3351.7 | 3335.0 |
| 35° | 8925.8 | 6523.0 | 4383.8 | 3723.5 | 3520.9 | 3468.2 | 3479.3 | 3423.8 | 3318.4 | 3235.2 | 3221.3 |
| 37.5° | 9231.0 | 6423.1 | 4095.3 | 3515.4 | 3376.7 | 3426.6 | 3454.4 | 3332.3 | 3160.2 | 3029.8 | 2999.3 |
| 40° | 9583.4 | 6309.4 | 3795.6 | 3307.3 | 3262.9 | 3387.8 | 3387.8 | 3163.0 | 2927.2 | 2846.7 | 2824.5 |
| 42.5° | 9996.8 | 6215.1 | 3545.9 | 3132.5 | 3168.6 | 3293.4 | 3279.6 | 2938.3 | 2841.2 | 2799.5 | 2788.5 |
| 45° | 10651.6 | 6181.8 | 3287.9 | 2979.9 | 3090.9 | 3182.4 | 3068.7 | 2860.6 | 2805.1 | 2771.8 | 2760.7 |
| 47.5° | 11686.5 | 6220.6 | 3060.4 | 2866.1 | 3002.1 | 3071.5 | 2832.8 | 2807.9 | 2769.0 | 2721.9 | 2716.3 |
| 50° | 12646.5 | 6184.5 | 2899.4 | 2802.3 | 2924.4 | 2938.3 | 2735.7 | 2744.1 | 2721.9 | 2669.1 | 2658.0 |
| 52.5° | 13431.7 | 6070.8 | 2796.8 | 2769.0 | 2857.8 | 2705.2 | 2644.2 | 2674.7 | 2666.4 | 2599.8 | 2588.7 |
| 55° | 14294.6 | 6001.4 | 2746.8 | 2769.0 | 2813.4 | 2502.7 | 2558.2 | 2602.6 | 2591.5 | 2544.3 | 2541.5 |
| 57.5° | 15340.6 | 6015.3 | 2710.8 | 2777.4 | 2769.0 | 2400.0 | 2472.1 | 2524.9 | 2522.1 | 2508.2 | 2508.2 |
| 60° | 16411.6 | 6020.8 | 2655.3 | 2774.6 | 2716.3 | 2319.5 | 2383.4 | 2458.3 | 2463.8 | 2472.1 | 2472.1 |
| 62.5° | 16766.8 | 5779.4 | 2547.1 | 2724.6 | 2599.8 | 2241.9 | 2300.1 | 2402.8 | 2397.2 | 2419.4 | 2422.2 |
| 65° | 16103.7 | 5110.8 | 2386.1 | 2610.9 | 2450.0 | 2186.4 | 2236.3 | 2330.6 | 2300.1 | 2358.4 | 2369.5 |
| 67.5° | 14658.1 | 4228.5 | 2136.4 | 2405.6 | 2283.5 | 2128.1 | 2194.7 | 2230.8 | 2175.3 | 2289.0 | 2291.8 |
| 70° | 12668.7 | 3301.7 | 1820.1 | 2114.2 | 2094.8 | 2067.1 | 2161.4 | 2105.9 | 2028.2 | 2166.9 | 2139.2 |
| 72.5° | 10593.3 | 2522.1 | 1453.9 | 1728.6 | 1842.3 | 1975.5 | 2103.1 | 1945.0 | 1836.8 | 1878.4 | 1828.4 |
| 75° | 7957.5 | 1864.5 | 1168.1 | 1354.0 | 1534.3 | 1845.1 | 2050.4 | 1750.8 | 1584.3 | 1545.4 | 1534.3 |
| 77.5° | 4056.4 | 1218.0 | 874.0 | 1012.7 | 1151.5 | 1667.5 | 1978.3 | 1523.2 | 1312.4 | 1251.3 | 1223.6 |
| 80° | 1448.3 | 757.5 | 616.0 | 699.2 | 776.9 | 1434.5 | 1728.6 | 1259.7 | 1018.3 | 1007.2 | 1018.3 |
| 82.5° | 671.4 | 488.3 | 413.4 | 457.8 | 460.6 | 957.2 | 1317.9 | 940.6 | 774.1 | 1176.4 | 993.3 |
| 85° | 288.6 | 244.2 | 233.1 | 227.5 | 210.9 | 427.3 | 740.8 | 505.0 | 788.0 | 352.4 | 324.6 |
| 87.5° | 86.0 | 97.1 | 86.0 | 63.8 | 47.2 | 47.2 | 74.9 | 27.7 | 19.4 | 13.9 | 13.9 |
| 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)