

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: P459198

Luminaire Tested: **GLAN-SA6D-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42977 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

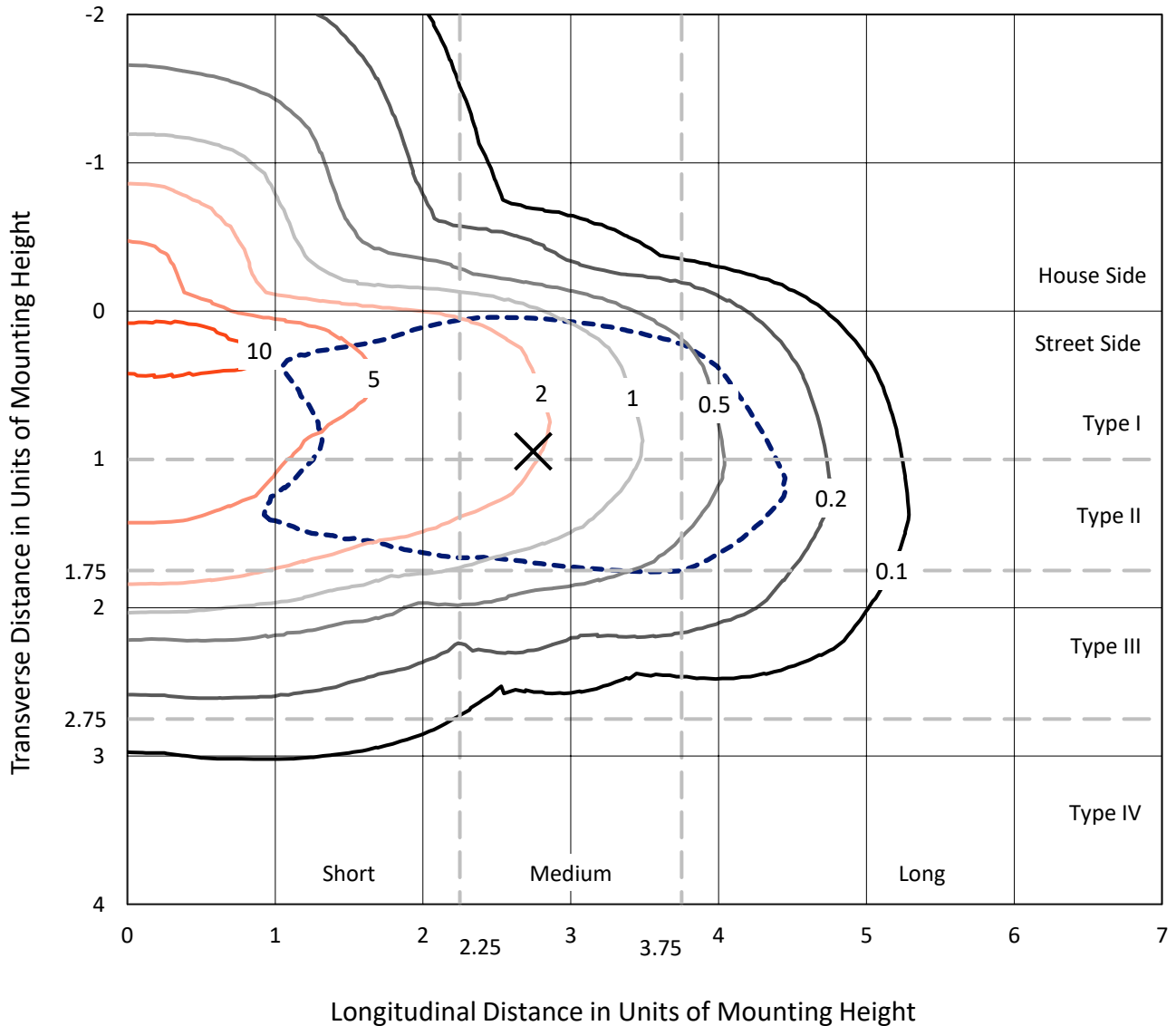
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

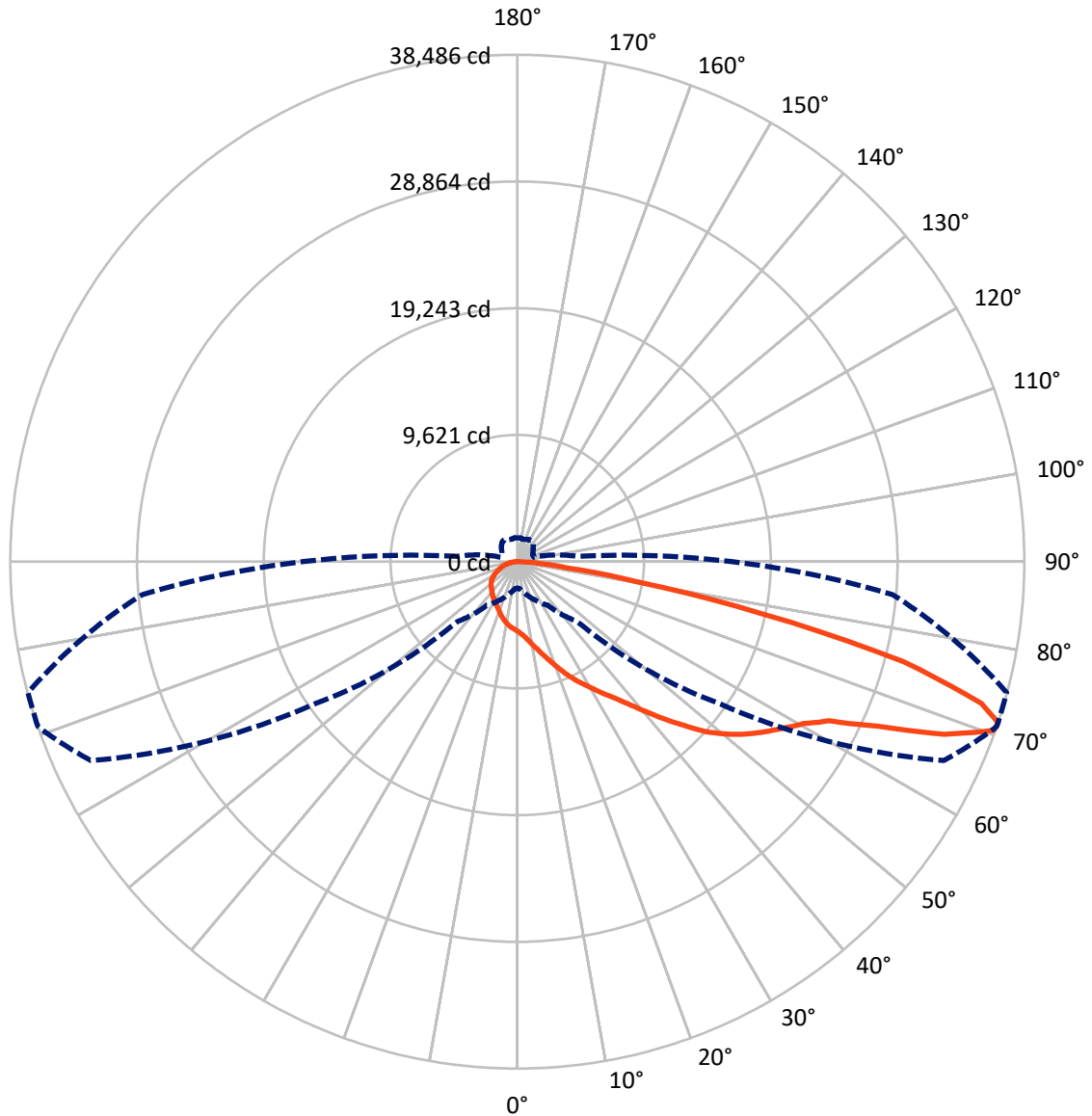
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7729.3 | 0.0 | 7729.3 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 35247.7 | 0.0 | 35247.7 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 42977.0 | 0.0 | 42977.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.6 | 1.2 |
| 10°-20° | 1720.6 | 4.0 |
| 20°-30° | 3007.0 | 7.0 |
| 30°-40° | 4472.5 | 10.4 |
| 40°-50° | 6589.6 | 15.3 |
| 50°-60° | 9225.5 | 21.5 |
| 60°-70° | 10318.5 | 24.0 |
| 70°-80° | 6302.9 | 14.7 |
| 80°-90° | 810.8 | 1.9 |
| 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° | 42977.0 | 100.0 |
| 0°-180° | 42977.0 | 100.0 |

Coefficient of Utilization



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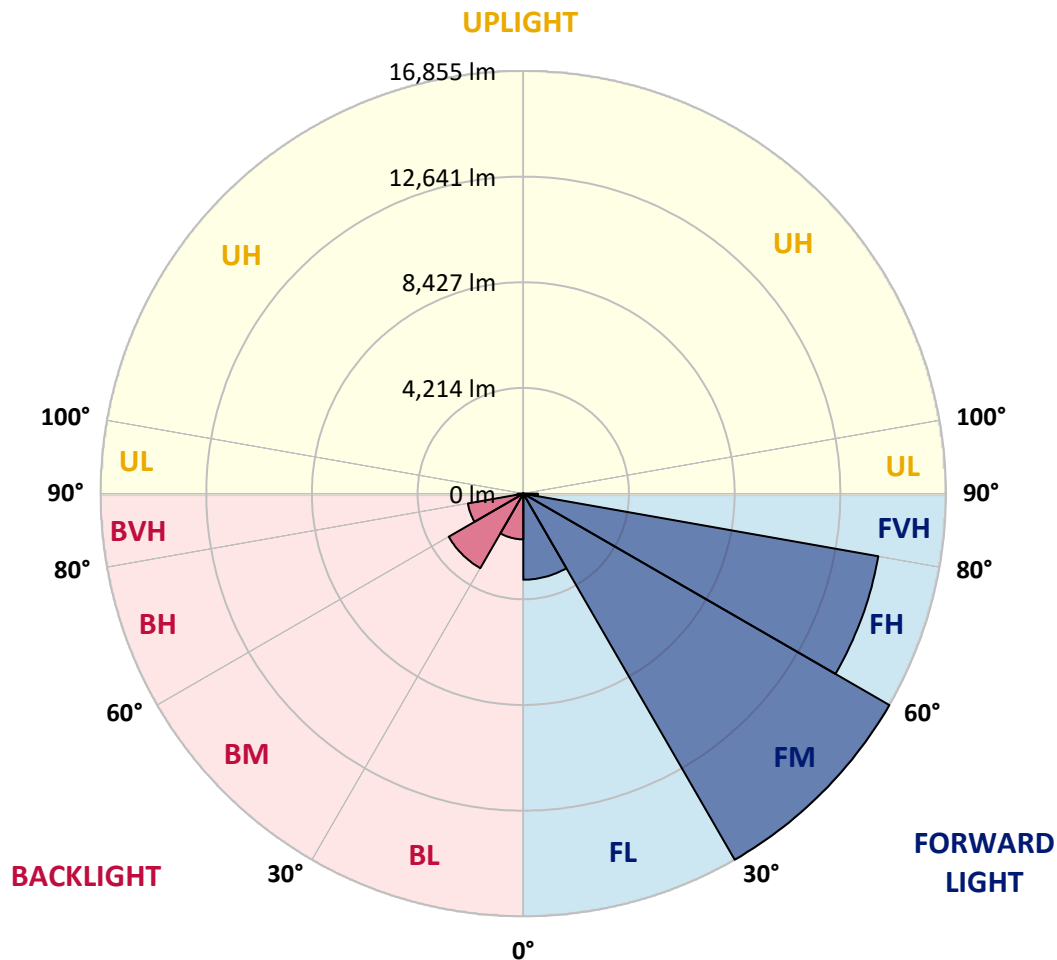
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3433.9 | 8.0 | | | |
| FM (30°-60°) | 16854.7 | 39.2 | | | |
| FH (60°-80°) | 14375.7 | 33.4 | | | G5 |
| FVH (80°-90°) | 583.4 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1823.3 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 3432.9 | 8.0 | B3/5000 | | |
| BH (60°-80°) | 2245.7 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 227.4 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 |
| 2.5° | 5855.7 | 5827.3 | 5829.7 | 5789.5 | 5737.6 | 5680.9 | 5600.5 | 5529.7 | 5473.0 | 5439.9 | 5343.1 |
| 5° | 6488.7 | 6460.4 | 6424.9 | 6337.5 | 6299.7 | 6160.4 | 5983.2 | 5822.6 | 5699.8 | 5631.3 | 5437.6 |
| 7.5° | 7001.3 | 6994.2 | 6984.7 | 6935.1 | 6838.3 | 6644.6 | 6493.4 | 6214.7 | 6032.8 | 5902.9 | 5572.2 |
| 10° | 7317.8 | 7329.6 | 7336.7 | 7346.1 | 7306.0 | 7204.4 | 6996.6 | 6644.6 | 6413.1 | 6247.8 | 5747.0 |
| 12.5° | 7478.4 | 7490.2 | 7530.4 | 7617.8 | 7672.1 | 7660.3 | 7490.2 | 7145.4 | 6826.5 | 6609.2 | 5933.6 |
| 15° | 7577.6 | 7596.5 | 7667.4 | 7783.1 | 7965.0 | 8080.8 | 7998.1 | 7679.2 | 7329.6 | 7072.1 | 6155.6 |
| 17.5° | 7686.3 | 7707.5 | 7785.5 | 7950.8 | 8189.4 | 8439.8 | 8529.6 | 8255.6 | 7875.3 | 7568.2 | 6403.7 |
| 20° | 7747.7 | 7776.0 | 7887.1 | 8104.4 | 8383.1 | 8746.9 | 9044.5 | 8900.4 | 8484.7 | 8144.5 | 6689.5 |
| 22.5° | 7846.9 | 7870.5 | 7965.0 | 8196.5 | 8529.6 | 8985.4 | 9559.4 | 9528.7 | 9162.6 | 8723.3 | 7003.6 |
| 25° | 8116.2 | 8154.0 | 8201.2 | 8340.6 | 8661.8 | 9228.7 | 9987.0 | 10199.6 | 9819.3 | 9328.0 | 7291.8 |
| 27.5° | 8624.0 | 8654.8 | 8652.4 | 8671.3 | 8853.2 | 9439.0 | 10357.8 | 10863.3 | 10471.2 | 9939.7 | 7570.5 |
| 30° | 9202.8 | 9214.6 | 9224.0 | 9181.5 | 9221.7 | 9653.9 | 10698.0 | 11520.0 | 11127.9 | 10568.1 | 7813.8 |
| 32.5° | 9906.7 | 9930.3 | 9850.0 | 9741.3 | 9708.2 | 9972.8 | 10979.1 | 12176.6 | 11905.0 | 11205.8 | 8054.8 |
| 35° | 10738.1 | 10799.5 | 10636.6 | 10445.2 | 10310.6 | 10431.1 | 11357.0 | 12847.5 | 12701.0 | 12020.7 | 8373.7 |
| 37.5° | 11687.7 | 11763.3 | 11612.1 | 11236.5 | 11045.2 | 11078.3 | 11850.7 | 13676.6 | 13707.3 | 12949.1 | 8848.4 |
| 40° | 12464.8 | 12564.0 | 12568.8 | 12037.3 | 11746.7 | 11784.5 | 12476.6 | 14569.5 | 14921.4 | 14097.0 | 9408.3 |
| 42.5° | 12977.4 | 13074.2 | 13175.8 | 12864.0 | 12559.3 | 12774.3 | 13206.5 | 15537.9 | 16286.7 | 15490.7 | 10190.1 |
| 45° | 13539.6 | 13627.0 | 13683.7 | 13541.9 | 13371.9 | 13929.3 | 14087.6 | 16567.8 | 17741.8 | 17047.3 | 11045.2 |
| 47.5° | 14191.5 | 14288.4 | 14342.7 | 14208.1 | 14144.3 | 14942.7 | 15037.2 | 17529.2 | 19296.0 | 18559.1 | 11990.0 |
| 50° | 15060.8 | 15134.0 | 15105.7 | 15020.6 | 15006.4 | 15719.8 | 15948.9 | 18429.1 | 20578.7 | 20186.5 | 12970.3 |
| 52.5° | 16142.6 | 16230.0 | 16260.7 | 16140.3 | 16085.9 | 16274.9 | 16683.5 | 19248.8 | 21745.5 | 21584.9 | 14016.7 |
| 55° | 16796.9 | 16936.3 | 17404.0 | 17593.0 | 17722.9 | 16993.0 | 17474.8 | 20153.5 | 22791.9 | 23058.9 | 15141.1 |
| 57.5° | 15958.4 | 16137.9 | 17184.3 | 18129.2 | 19350.4 | 18788.2 | 18596.8 | 21098.3 | 23838.4 | 24487.9 | 16487.5 |
| 60° | 13912.8 | 13953.0 | 15301.7 | 17042.6 | 19499.2 | 21096.0 | 20937.7 | 22600.6 | 24972.2 | 25928.8 | 18261.4 |
| 62.5° | 9651.6 | 9736.6 | 11331.0 | 14108.8 | 17661.5 | 21927.4 | 24920.2 | 25194.2 | 26597.3 | 28085.4 | 20862.1 |
| 65° | 4977.0 | 4865.9 | 6318.6 | 8867.3 | 13315.2 | 19952.7 | 28146.8 | 29963.3 | 30121.6 | 31458.5 | 24523.4 |
| 67.5° | 3063.6 | 3113.3 | 3793.5 | 5177.7 | 7872.9 | 14501.0 | 27809.1 | 35790.6 | 34956.8 | 35599.3 | 27922.4 |
| 70° | 2300.7 | 2362.1 | 2829.8 | 3543.2 | 4799.8 | 8291.0 | 22364.4 | 37203.1 | 38367.7 | 38202.3 | 28957.0 |
| 71° | 2000.7 | 2064.5 | 2551.1 | 3224.3 | 4032.1 | 6398.9 | 18842.5 | 35724.5 | 38485.8 | 38457.4 | 28567.3 |
| 72.5° | 1705.4 | 1745.6 | 2125.9 | 2730.6 | 3399.1 | 4485.6 | 14156.1 | 32039.6 | 36844.1 | 37786.6 | 27176.0 |
| 75° | 1339.3 | 1370.0 | 1540.1 | 2083.4 | 2676.3 | 2754.2 | 7596.5 | 24020.2 | 30260.9 | 32056.1 | 22624.2 |
| 77.5° | 1091.3 | 1112.6 | 1199.9 | 1547.2 | 2064.5 | 1951.1 | 3984.9 | 15634.8 | 18958.2 | 20765.3 | 13327.0 |
| 80° | 866.9 | 890.5 | 942.5 | 1048.8 | 1547.2 | 1391.3 | 1901.5 | 7922.5 | 9157.9 | 9139.0 | 5319.5 |
| 82.5° | 673.2 | 680.3 | 741.7 | 770.0 | 1058.2 | 987.4 | 1029.9 | 3354.2 | 3715.6 | 3838.4 | 1920.4 |
| 85° | 425.2 | 446.4 | 656.7 | 590.5 | 633.0 | 578.7 | 507.9 | 1332.2 | 1641.7 | 1618.0 | 767.7 |
| 87.5° | 129.9 | 137.0 | 222.0 | 250.4 | 281.1 | 252.7 | 186.6 | 392.1 | 479.5 | 519.7 | 191.3 |
| 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° | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 | 5274.6 |
| 2.5° | 5305.3 | 5279.3 | 5187.2 | 5111.6 | 5040.7 | 4962.8 | 4896.6 | 4877.7 | 4861.2 | 4854.1 | 4851.8 |
| 5° | 5354.9 | 5276.9 | 5095.1 | 4946.2 | 4828.1 | 4719.5 | 4651.0 | 4620.3 | 4589.6 | 4589.6 | 4599.0 |
| 7.5° | 5425.8 | 5284.0 | 5002.9 | 4780.9 | 4632.1 | 4530.5 | 4480.9 | 4476.2 | 4483.3 | 4490.4 | 4492.7 |
| 10° | 5503.7 | 5279.3 | 4868.3 | 4591.9 | 4459.7 | 4412.4 | 4414.8 | 4454.9 | 4492.7 | 4521.1 | 4525.8 |
| 12.5° | 5579.3 | 5251.0 | 4710.0 | 4414.8 | 4329.7 | 4339.2 | 4405.3 | 4495.1 | 4568.3 | 4608.5 | 4610.8 |
| 15° | 5664.3 | 5206.1 | 4518.7 | 4247.1 | 4218.7 | 4291.9 | 4414.8 | 4551.8 | 4662.8 | 4728.9 | 4736.0 |
| 17.5° | 5735.2 | 5130.5 | 4317.9 | 4084.1 | 4119.5 | 4254.1 | 4424.2 | 4601.4 | 4736.0 | 4818.7 | 4832.9 |
| 20° | 5815.5 | 5033.6 | 4110.1 | 3928.2 | 4029.8 | 4211.6 | 4405.3 | 4596.7 | 4736.0 | 4816.3 | 4835.2 |
| 22.5° | 5879.3 | 4896.6 | 3911.6 | 3800.6 | 3949.4 | 4159.7 | 4341.5 | 4495.1 | 4608.5 | 4651.0 | 4679.3 |
| 25° | 5905.3 | 4724.2 | 3725.0 | 3696.7 | 3885.7 | 4074.6 | 4197.5 | 4284.9 | 4320.3 | 4315.6 | 4327.4 |
| 27.5° | 5891.1 | 4525.8 | 3564.4 | 3614.0 | 3805.4 | 3942.4 | 4003.8 | 3996.7 | 3932.9 | 3873.9 | 3902.2 |
| 30° | 5832.0 | 4289.6 | 3429.8 | 3529.0 | 3701.4 | 3777.0 | 3767.6 | 3675.4 | 3555.0 | 3443.9 | 3451.0 |
| 32.5° | 5725.7 | 4034.5 | 3304.6 | 3432.1 | 3555.0 | 3588.0 | 3524.3 | 3403.8 | 3231.4 | 3087.3 | 3066.0 |
| 35° | 5636.0 | 3791.2 | 3193.6 | 3321.1 | 3408.5 | 3392.0 | 3330.6 | 3174.7 | 3018.8 | 2891.2 | 2870.0 |
| 37.5° | 5621.8 | 3583.3 | 3087.3 | 3195.9 | 3245.5 | 3221.9 | 3146.3 | 3014.0 | 2957.4 | 2860.5 | 2848.7 |
| 40° | 5697.4 | 3436.9 | 2978.6 | 3063.6 | 3087.3 | 3068.4 | 2985.7 | 2910.1 | 2962.1 | 2938.5 | 2938.5 |
| 42.5° | 5902.9 | 3358.9 | 2881.8 | 2931.4 | 2950.3 | 2964.4 | 2905.4 | 2841.6 | 2905.4 | 2796.7 | 2761.3 |
| 45° | 6228.9 | 3361.3 | 2794.4 | 2801.5 | 2858.1 | 2907.8 | 2867.6 | 2773.1 | 2740.0 | 2522.7 | 2480.2 |
| 47.5° | 6708.4 | 3441.6 | 2723.5 | 2678.6 | 2780.2 | 2862.9 | 2806.2 | 2669.2 | 2522.7 | 2378.6 | 2352.7 |
| 50° | 7268.2 | 3585.7 | 2659.7 | 2551.1 | 2676.3 | 2806.2 | 2763.7 | 2603.0 | 2451.9 | 2364.5 | 2347.9 |
| 52.5° | 7889.4 | 3767.6 | 2581.8 | 2409.3 | 2548.7 | 2780.2 | 2773.1 | 2593.6 | 2385.7 | 2326.7 | 2312.5 |
| 55° | 8657.1 | 3947.1 | 2484.9 | 2244.0 | 2435.3 | 2758.9 | 2747.1 | 2515.6 | 2371.6 | 2329.0 | 2324.3 |
| 57.5° | 9550.0 | 4206.9 | 2345.6 | 2076.3 | 2305.4 | 2671.5 | 2645.6 | 2468.4 | 2324.3 | 2293.6 | 2291.2 |
| 60° | 10988.5 | 4610.8 | 2147.2 | 1922.8 | 2173.1 | 2518.0 | 2551.1 | 2388.1 | 2248.7 | 2241.6 | 2239.3 |
| 62.5° | 12880.6 | 5177.7 | 1941.6 | 1764.5 | 2019.6 | 2319.6 | 2414.1 | 2279.4 | 2168.4 | 2203.8 | 2208.6 |
| 65° | 15493.0 | 5654.9 | 1729.1 | 1629.9 | 1849.5 | 2128.3 | 2284.2 | 2177.9 | 2078.7 | 2147.2 | 2147.2 |
| 67.5° | 17196.1 | 5664.3 | 1535.4 | 1490.5 | 1677.1 | 1967.6 | 2147.2 | 2057.4 | 1962.9 | 2078.7 | 2083.4 |
| 70° | 16841.8 | 4962.8 | 1374.7 | 1344.0 | 1509.4 | 1795.2 | 1996.0 | 1925.1 | 1816.5 | 1920.4 | 1882.6 |
| 71° | 16270.2 | 4573.0 | 1311.0 | 1287.3 | 1443.2 | 1712.5 | 1925.1 | 1866.1 | 1757.4 | 1825.9 | 1804.6 |
| 72.5° | 15358.4 | 3970.7 | 1207.0 | 1211.8 | 1344.0 | 1608.6 | 1825.9 | 1764.5 | 1655.8 | 1693.6 | 1686.5 |
| 75° | 12982.1 | 3467.6 | 1032.2 | 1053.5 | 1155.1 | 1431.4 | 1627.5 | 1580.2 | 1469.2 | 1469.2 | 1462.1 |
| 77.5° | 8116.2 | 2423.5 | 857.4 | 869.3 | 980.3 | 1225.9 | 1398.4 | 1358.2 | 1251.9 | 1216.5 | 1207.0 |
| 80° | 3028.2 | 1251.9 | 670.8 | 685.0 | 753.5 | 966.1 | 1157.4 | 1119.6 | 1011.0 | 970.8 | 933.0 |
| 82.5° | 1145.6 | 628.3 | 493.7 | 481.9 | 555.1 | 737.0 | 907.0 | 862.2 | 777.1 | 680.3 | 651.9 |
| 85° | 432.3 | 311.8 | 302.3 | 292.9 | 326.0 | 437.0 | 562.2 | 552.7 | 463.0 | 394.5 | 387.4 |
| 87.5° | 113.4 | 101.6 | 118.1 | 87.4 | 92.1 | 82.7 | 85.0 | 35.4 | 16.5 | 7.1 | 4.7 |
| 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)