

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: McGRAW-EDISON

Report Number: P532158

Luminaire Tested: **GALN-SA7C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37799 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 377
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

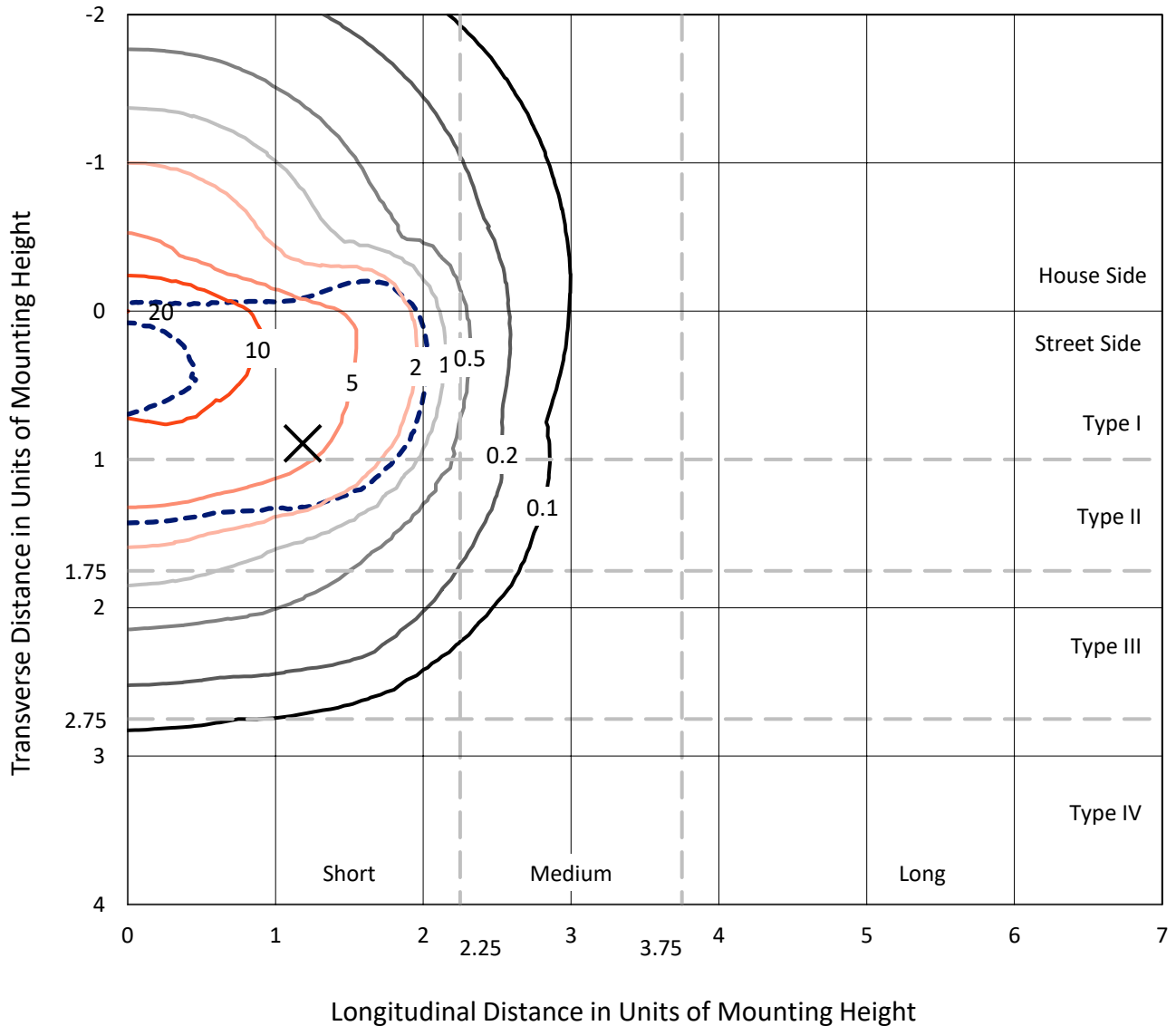




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Iso-Footcandle Lines of Horizontal Illumination

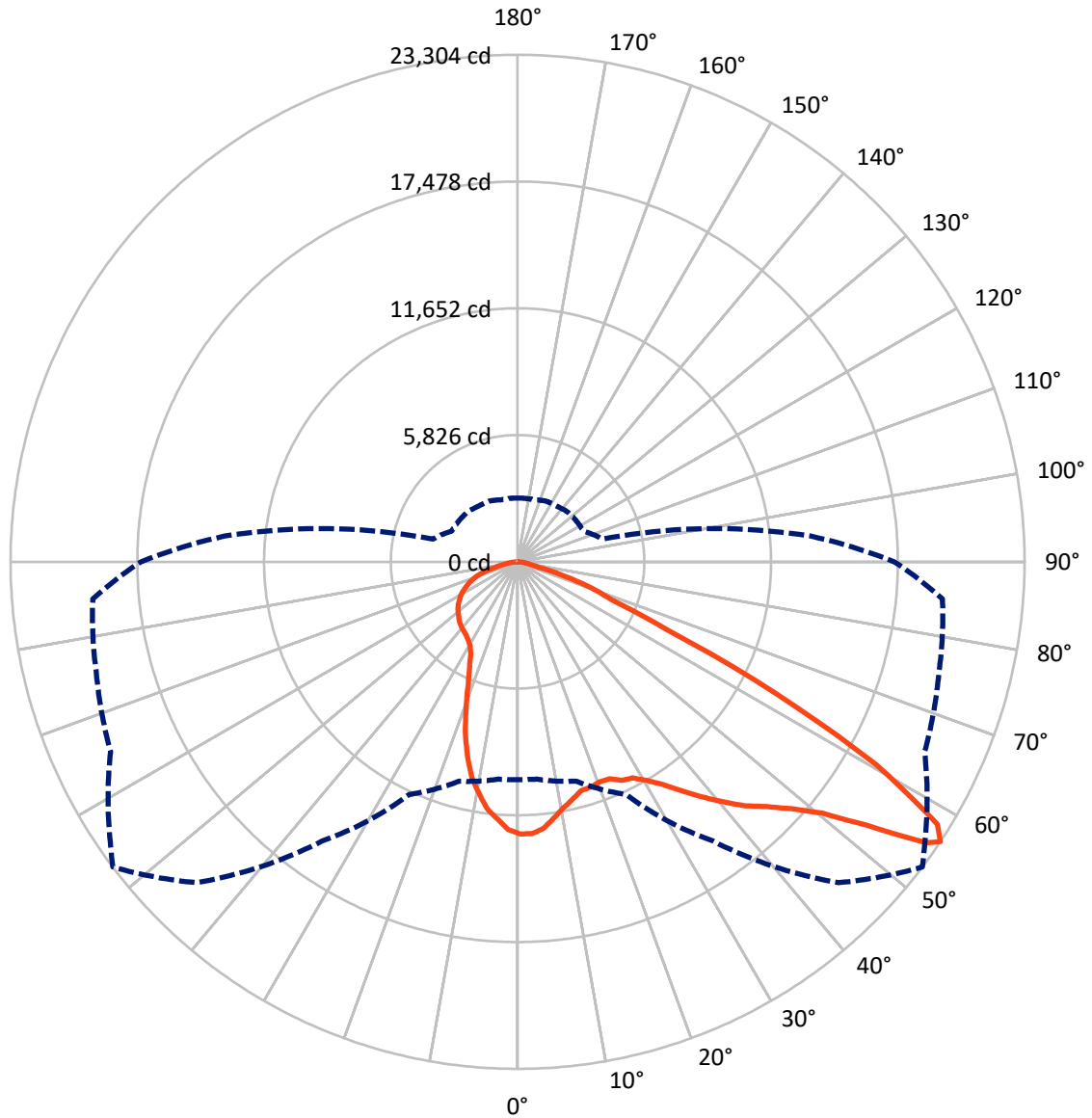
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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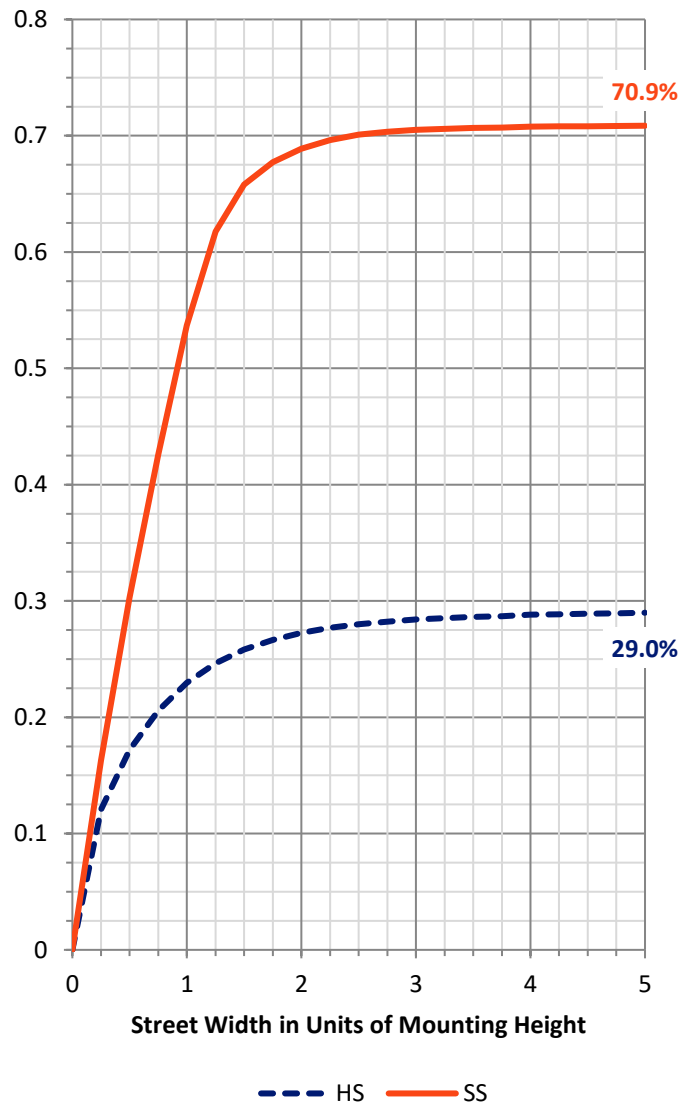
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11030.6 | 0.0 | 11030.6 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 26768.4 | 0.0 | 26768.4 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 37799.0 | 0.0 | 37799.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1107.1 | 2.9 |
| 10°-20° | 2765.0 | 7.3 |
| 20°-30° | 4077.3 | 10.8 |
| 30°-40° | 5825.6 | 15.4 |
| 40°-50° | 8018.2 | 21.2 |
| 50°-60° | 9475.3 | 25.1 |
| 60°-70° | 5049.7 | 13.4 |
| 70°-80° | 1281.1 | 3.4 |
| 80°-90° | 199.8 | 0.5 |
| 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° | 37799.0 | 100.0 |
| 0°-180° | 37799.0 | 100.0 |

Coefficient of Utilization

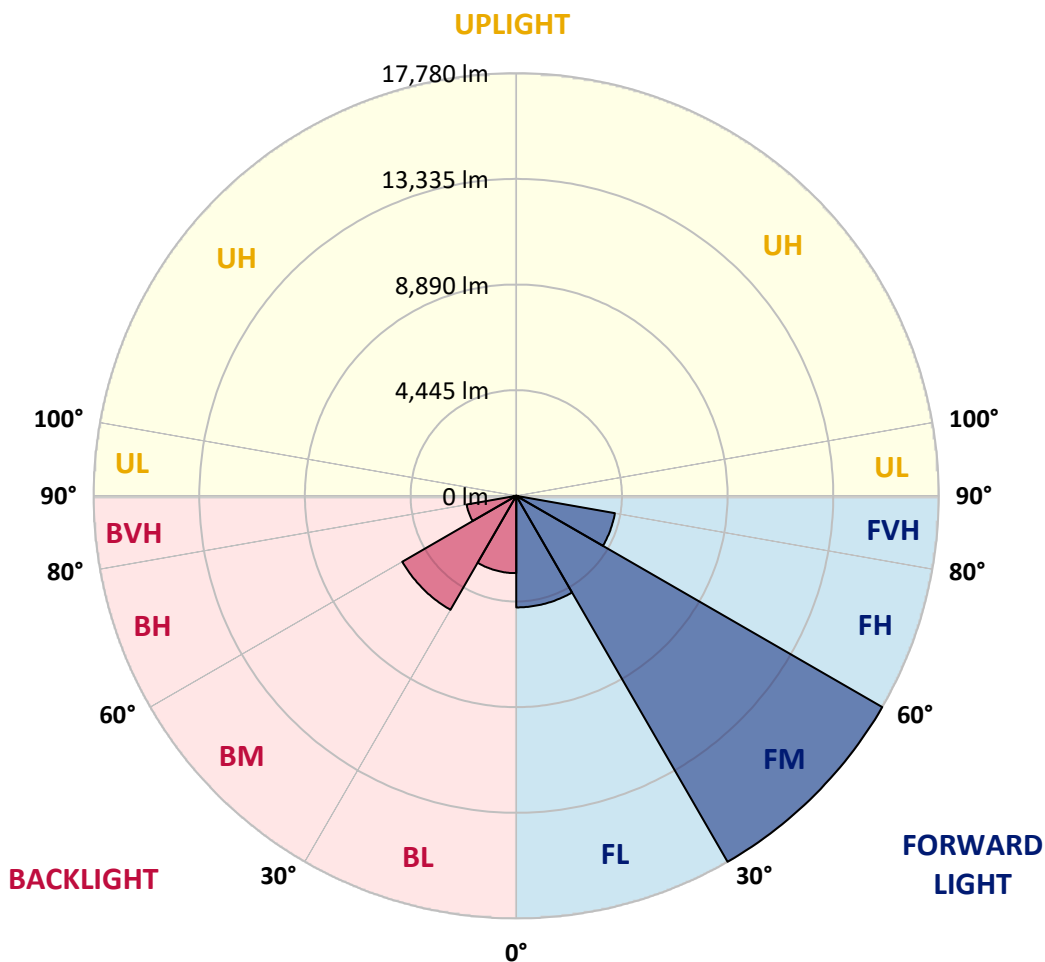


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4696.0 | 12.4 | | | |
| FM (30°-60°) | 17779.9 | 47.0 | | | |
| FH (60°-80°) | 4212.2 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 80.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3253.4 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 5539.2 | 14.7 | B4/8500 | | |
| BH (60°-80°) | 2118.6 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 119.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 |
| 2.5° | 12350.2 | 12243.6 | 12306.6 | 12282.3 | 12481.2 | 12539.3 | 12510.2 | 12534.5 | 12646.0 | 12592.7 | 12481.2 |
| 5° | 11540.5 | 11690.8 | 11719.9 | 11792.6 | 11909.0 | 12136.9 | 12316.3 | 12364.8 | 12418.1 | 12665.4 | 12641.2 |
| 7.5° | 10803.4 | 10905.3 | 10851.9 | 11065.3 | 11317.4 | 11685.9 | 11904.1 | 11942.9 | 12432.7 | 12568.4 | 12670.3 |
| 10° | 10337.9 | 10236.1 | 10478.5 | 10536.7 | 10822.8 | 11244.7 | 11506.5 | 11666.5 | 12112.6 | 12650.9 | 12713.9 |
| 12.5° | 9906.4 | 9872.4 | 10017.9 | 10182.8 | 10502.8 | 10939.2 | 11205.9 | 11268.9 | 11957.5 | 12524.8 | 12820.6 |
| 15° | 9586.3 | 9547.5 | 9693.0 | 9814.2 | 10187.6 | 10575.5 | 10914.9 | 11094.4 | 11787.8 | 12452.1 | 12728.4 |
| 17.5° | 9334.2 | 9329.3 | 9411.8 | 9630.0 | 10013.0 | 10337.9 | 10885.9 | 10895.6 | 11700.5 | 12563.6 | 12806.0 |
| 20° | 9319.6 | 9314.8 | 9329.3 | 9571.8 | 9920.9 | 10318.5 | 10793.7 | 10881.0 | 11700.5 | 12486.0 | 12810.9 |
| 22.5° | 9440.9 | 9363.3 | 9450.6 | 9605.7 | 9857.9 | 10352.5 | 10827.7 | 11021.6 | 11981.7 | 12869.1 | 13029.1 |
| 25° | 9634.8 | 9654.2 | 9702.7 | 9756.1 | 9901.5 | 10430.1 | 11128.3 | 11288.3 | 12311.4 | 13198.8 | 13329.7 |
| 27.5° | 9988.8 | 9979.1 | 9998.5 | 10027.6 | 10153.7 | 10502.8 | 11249.5 | 11661.7 | 13000.0 | 13785.5 | 13654.6 |
| 30° | 10507.6 | 10473.7 | 10551.3 | 10653.1 | 10536.7 | 10735.5 | 11652.0 | 11962.3 | 13640.0 | 14377.1 | 14018.3 |
| 32.5° | 10978.0 | 11104.1 | 11249.5 | 11293.2 | 11152.5 | 11191.3 | 12185.4 | 12500.5 | 14173.4 | 15104.4 | 14464.4 |
| 35° | 11564.7 | 11666.5 | 11860.5 | 11996.3 | 11972.0 | 11855.6 | 12912.7 | 13329.7 | 14944.4 | 15637.8 | 14934.7 |
| 37.5° | 12136.9 | 12258.1 | 12578.1 | 12980.6 | 12757.5 | 12704.2 | 13688.5 | 14032.8 | 15182.0 | 15923.9 | 15279.0 |
| 40° | 13058.2 | 13053.3 | 13606.1 | 13814.6 | 14013.4 | 13921.3 | 14493.5 | 14609.8 | 15308.1 | 15860.9 | 15288.7 |
| 42.5° | 14139.5 | 14071.6 | 14634.1 | 14959.0 | 15216.0 | 15225.7 | 15332.3 | 15293.5 | 15366.3 | 15540.8 | 15186.9 |
| 45° | 15167.5 | 15312.9 | 15880.3 | 16462.1 | 16719.1 | 16748.2 | 16040.3 | 15967.5 | 15468.1 | 15448.7 | 14992.9 |
| 47.5° | 16423.3 | 16457.3 | 16922.8 | 17688.9 | 18285.3 | 18081.7 | 16956.7 | 16796.7 | 15914.2 | 16064.5 | 15317.8 |
| 50° | 16496.1 | 16748.2 | 17165.2 | 18067.1 | 19900.0 | 19846.7 | 18144.7 | 17844.1 | 16631.8 | 16937.3 | 16224.5 |
| 52.5° | 14973.5 | 14915.3 | 15409.9 | 16884.0 | 19778.8 | 21602.0 | 20113.4 | 19395.7 | 18173.8 | 17941.1 | 17693.8 |
| 55° | 11409.5 | 11545.3 | 11981.7 | 13470.3 | 17174.9 | 21626.2 | 22794.8 | 22208.1 | 19822.4 | 19424.8 | 19138.7 |
| 56° | 10008.2 | 10027.6 | 10439.8 | 11797.5 | 15671.8 | 20855.3 | 23304.0 | 22828.8 | 20641.9 | 20035.8 | 19599.4 |
| 57.5° | 8296.5 | 8185.0 | 8398.4 | 9140.2 | 13227.9 | 19226.0 | 22746.3 | 23211.8 | 21602.0 | 20695.2 | 20089.1 |
| 60° | 6531.5 | 6507.3 | 6420.0 | 6555.8 | 8359.6 | 14483.8 | 18935.1 | 19982.5 | 21505.0 | 20074.6 | 19240.6 |
| 62.5° | 5333.8 | 5212.6 | 5387.2 | 5581.1 | 5809.0 | 8985.1 | 13305.5 | 13921.3 | 17073.1 | 16025.7 | 14454.7 |
| 65° | 4136.1 | 4078.0 | 4296.2 | 4926.5 | 5062.3 | 5707.2 | 7578.9 | 8054.1 | 10080.9 | 9901.5 | 8718.4 |
| 67.5° | 2846.3 | 2856.0 | 3045.1 | 4005.2 | 4693.8 | 4635.6 | 4640.4 | 4887.7 | 5261.1 | 3908.2 | 3404.0 |
| 70° | 1803.8 | 1799.0 | 1900.8 | 2579.6 | 3777.3 | 3816.1 | 3622.2 | 3549.4 | 3365.2 | 2036.6 | 2157.8 |
| 72.5° | 1158.9 | 1125.0 | 1178.3 | 1425.6 | 1954.1 | 2259.6 | 2327.5 | 2371.1 | 1949.3 | 1600.1 | 1735.9 |
| 75° | 654.6 | 620.7 | 601.3 | 664.3 | 771.0 | 892.2 | 979.5 | 1008.6 | 1129.8 | 1212.2 | 1285.0 |
| 77.5° | 198.8 | 179.4 | 218.2 | 290.9 | 383.1 | 514.0 | 625.5 | 644.9 | 761.3 | 858.3 | 931.0 |
| 80° | 87.3 | 97.0 | 135.8 | 194.0 | 271.5 | 363.7 | 441.3 | 470.3 | 547.9 | 620.7 | 640.1 |
| 82.5° | 53.3 | 58.2 | 92.1 | 130.9 | 189.1 | 257.0 | 315.2 | 324.9 | 402.5 | 460.6 | 475.2 |
| 85° | 19.4 | 24.2 | 48.5 | 77.6 | 121.2 | 164.9 | 164.9 | 179.4 | 164.9 | 164.9 | 179.4 |
| 87.5° | 0.0 | 0.0 | 4.8 | 9.7 | 9.7 | 14.5 | 19.4 | 19.4 | 24.2 | 29.1 | 33.9 |
| 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° | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 | 12505.4 |
| 2.5° | 12539.3 | 12515.1 | 12476.3 | 12335.7 | 12321.1 | 12277.5 | 12035.1 | 11996.3 | 12035.1 | 11918.7 | 11928.4 |
| 5° | 12515.1 | 12587.8 | 12296.9 | 12156.3 | 11894.4 | 11705.3 | 11487.1 | 11375.6 | 11176.8 | 11050.7 | 11191.3 |
| 7.5° | 12621.8 | 12592.7 | 12229.0 | 11923.5 | 11530.8 | 11050.7 | 10667.7 | 10449.5 | 10100.3 | 10003.3 | 10076.1 |
| 10° | 12583.0 | 12427.8 | 12001.1 | 11598.6 | 10856.8 | 10434.9 | 9814.2 | 9213.0 | 8883.2 | 8713.5 | 8689.3 |
| 12.5° | 12529.6 | 12486.0 | 11773.2 | 11079.8 | 10299.1 | 9411.8 | 8539.0 | 7971.6 | 7433.4 | 7200.7 | 7234.6 |
| 15° | 12592.7 | 12224.2 | 11346.5 | 10468.8 | 9431.2 | 8267.4 | 7326.7 | 6594.5 | 6221.2 | 6070.9 | 6070.9 |
| 17.5° | 12563.6 | 12098.1 | 11142.8 | 9785.1 | 8471.1 | 7094.0 | 6061.2 | 5619.9 | 5464.7 | 5464.7 | 5508.4 |
| 20° | 12578.1 | 12180.5 | 10730.7 | 9101.4 | 7336.4 | 5973.9 | 5222.3 | 5062.3 | 5130.2 | 5154.4 | 5178.7 |
| 22.5° | 12660.6 | 11909.0 | 10328.2 | 8349.9 | 6284.2 | 5110.8 | 4742.3 | 4747.1 | 4868.3 | 4999.3 | 4975.0 |
| 25° | 12762.4 | 11802.3 | 9838.5 | 7603.1 | 5479.3 | 4688.9 | 4572.5 | 4558.0 | 4650.1 | 4718.0 | 4727.7 |
| 27.5° | 12675.1 | 11618.0 | 9339.0 | 6672.1 | 4819.8 | 4407.7 | 4383.4 | 4393.1 | 4422.2 | 4558.0 | 4514.4 |
| 30° | 12961.2 | 11671.4 | 8713.5 | 5891.5 | 4456.2 | 4315.6 | 4286.5 | 4271.9 | 4315.6 | 4354.3 | 4320.4 |
| 32.5° | 13315.2 | 11482.3 | 8248.0 | 5139.9 | 4276.8 | 4247.7 | 4189.5 | 4170.1 | 4194.3 | 4155.5 | 4174.9 |
| 35° | 13470.3 | 11448.3 | 7641.9 | 4601.6 | 4136.1 | 4111.9 | 4078.0 | 4073.1 | 4078.0 | 4044.0 | 4014.9 |
| 37.5° | 13557.6 | 11608.3 | 6948.5 | 4354.3 | 4048.9 | 4073.1 | 3995.5 | 3985.8 | 3898.5 | 3917.9 | 3932.5 |
| 40° | 13707.9 | 11361.1 | 6386.0 | 4116.7 | 3995.5 | 3947.0 | 3879.1 | 3864.6 | 3806.4 | 3772.5 | 3806.4 |
| 42.5° | 13489.7 | 11288.3 | 5833.3 | 4014.9 | 3917.9 | 3864.6 | 3816.1 | 3733.7 | 3714.3 | 3685.2 | 3665.8 |
| 45° | 13315.2 | 10871.3 | 5338.7 | 3888.8 | 3825.8 | 3796.7 | 3704.6 | 3617.3 | 3544.6 | 3573.7 | 3530.0 |
| 47.5° | 13446.1 | 10725.8 | 4848.9 | 3782.2 | 3699.7 | 3665.8 | 3573.7 | 3505.8 | 3433.0 | 3399.1 | 3389.4 |
| 50° | 13969.8 | 10997.4 | 4436.8 | 3704.6 | 3593.1 | 3573.7 | 3452.4 | 3374.9 | 3307.0 | 3282.7 | 3292.4 |
| 52.5° | 15220.8 | 11739.3 | 4155.5 | 3544.6 | 3491.2 | 3404.0 | 3336.1 | 3239.1 | 3195.4 | 3117.9 | 3166.4 |
| 55° | 16806.4 | 12946.7 | 4082.8 | 3394.3 | 3365.2 | 3287.6 | 3195.4 | 3122.7 | 3040.3 | 2977.2 | 2962.7 |
| 56° | 17315.5 | 13523.7 | 4024.6 | 3336.1 | 3287.6 | 3243.9 | 3122.7 | 3079.1 | 2948.2 | 2933.6 | 2923.9 |
| 57.5° | 17727.7 | 14032.8 | 4034.3 | 3224.5 | 3176.1 | 3137.3 | 3064.5 | 2957.8 | 2870.6 | 2817.2 | 2841.5 |
| 60° | 16796.7 | 13135.8 | 3850.1 | 3054.8 | 3045.1 | 2972.4 | 2870.6 | 2822.1 | 2715.4 | 2652.4 | 2637.8 |
| 62.5° | 12486.0 | 8917.2 | 3122.7 | 2836.6 | 2831.8 | 2754.2 | 2637.8 | 2584.5 | 2565.1 | 2477.8 | 2477.8 |
| 65° | 7191.0 | 5590.8 | 2700.9 | 2657.2 | 2618.4 | 2540.8 | 2424.5 | 2380.8 | 2332.3 | 2303.2 | 2279.0 |
| 67.5° | 3069.4 | 2899.7 | 2453.6 | 2448.7 | 2405.1 | 2308.1 | 2191.7 | 2123.8 | 2060.8 | 2002.6 | 2031.7 |
| 70° | 2225.7 | 2259.6 | 2216.0 | 2191.7 | 2138.4 | 2017.2 | 1915.3 | 1832.9 | 1735.9 | 1697.1 | 1726.2 |
| 72.5° | 1765.0 | 1837.7 | 1900.8 | 1905.6 | 1842.6 | 1702.0 | 1590.5 | 1478.9 | 1372.2 | 1318.9 | 1343.2 |
| 75° | 1338.3 | 1386.8 | 1449.8 | 1464.4 | 1372.2 | 1275.3 | 1168.6 | 1052.2 | 969.8 | 906.8 | 916.4 |
| 77.5° | 964.9 | 955.2 | 1013.4 | 1003.7 | 960.1 | 892.2 | 795.2 | 688.5 | 596.4 | 538.2 | 543.1 |
| 80° | 659.5 | 674.0 | 707.9 | 703.1 | 649.8 | 606.1 | 533.4 | 446.1 | 378.2 | 329.7 | 320.0 |
| 82.5° | 460.6 | 484.9 | 514.0 | 489.7 | 446.1 | 402.5 | 349.1 | 286.1 | 232.7 | 194.0 | 184.3 |
| 85° | 164.9 | 189.1 | 218.2 | 232.7 | 247.3 | 237.6 | 198.8 | 160.0 | 116.4 | 97.0 | 92.1 |
| 87.5° | 33.9 | 38.8 | 43.6 | 43.6 | 43.6 | 38.8 | 33.9 | 33.9 | 29.1 | 14.5 | 14.5 |
| 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)