

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: P459372

Luminaire Tested: **GALN-SA8B-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459372
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: McGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43047 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

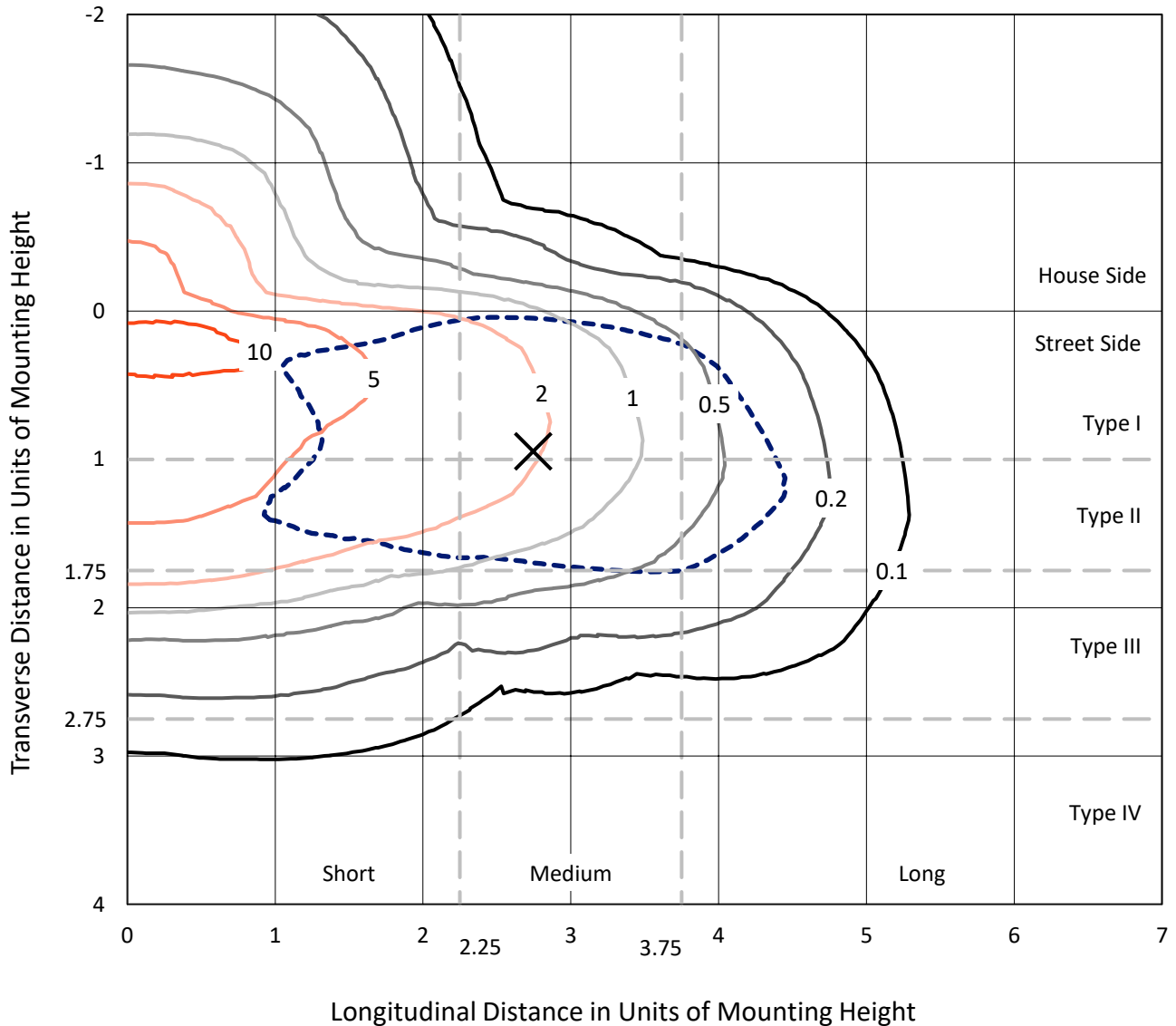
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

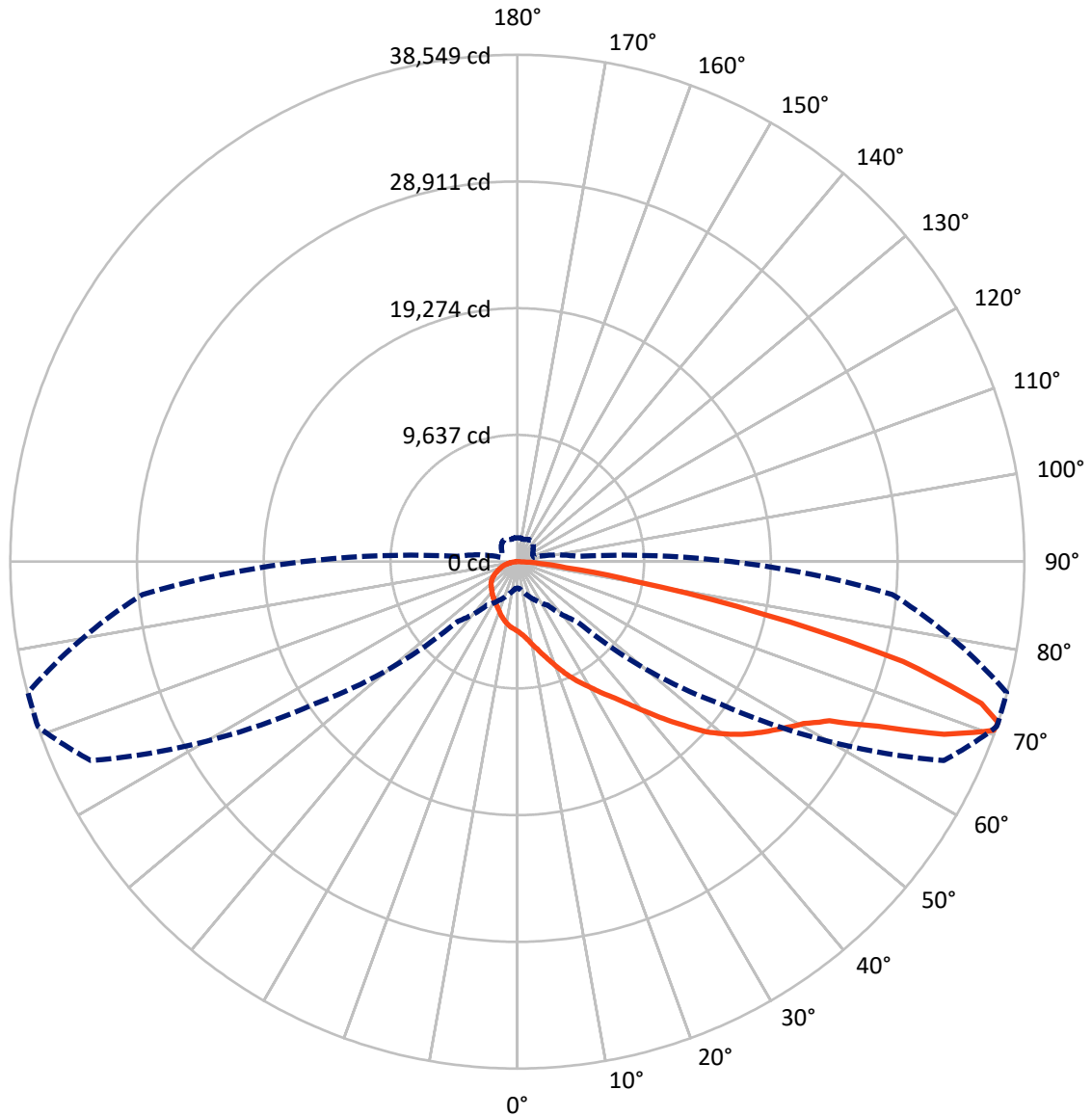
× Max cd
 - - - 1/2 Max cd



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 | 7741.9 | 0.0 | 7741.9 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 35305.1 | 0.0 | 35305.1 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 43047.0 | 0.0 | 43047.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 530.5 | 1.2 |
| 10°-20° | 1723.4 | 4.0 |
| 20°-30° | 3011.9 | 7.0 |
| 30°-40° | 4479.8 | 10.4 |
| 40°-50° | 6600.3 | 15.3 |
| 50°-60° | 9240.6 | 21.5 |
| 60°-70° | 10335.3 | 24.0 |
| 70°-80° | 6313.2 | 14.7 |
| 80°-90° | 812.1 | 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° | 43047.0 | 100.0 |
| 0°-180° | 43047.0 | 100.0 |

Coefficient of Utilization



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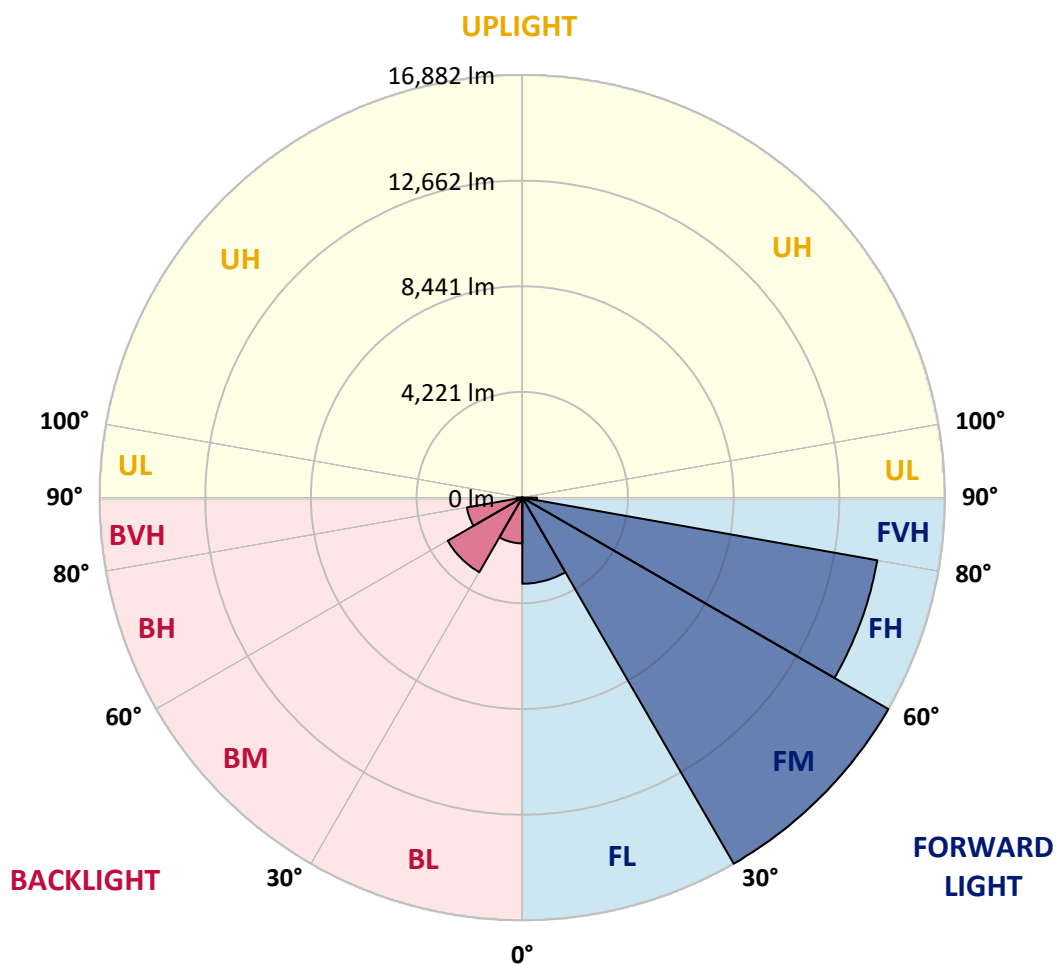
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3439.5 | 8.0 | | | |
| FM | (30°-60°) | 16882.2 | 39.2 | | | |
| FH | (60°-80°) | 14399.1 | 33.4 | | | G5 |
| FVH | (80°-90°) | 584.4 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 1826.3 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 3438.5 | 8.0 | B3/5000 | | |
| BH | (60°-80°) | 2249.4 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 227.8 | 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° | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 |
| 2.5° | 5865.2 | 5836.8 | 5839.2 | 5798.9 | 5746.9 | 5690.1 | 5609.7 | 5538.7 | 5481.9 | 5448.8 | 5351.8 |
| 5° | 6499.3 | 6470.9 | 6435.4 | 6347.8 | 6310.0 | 6170.4 | 5993.0 | 5832.1 | 5709.0 | 5640.4 | 5446.4 |
| 7.5° | 7012.7 | 7005.6 | 6996.1 | 6946.4 | 6849.4 | 6655.4 | 6504.0 | 6224.8 | 6042.6 | 5912.5 | 5581.3 |
| 10° | 7329.7 | 7341.5 | 7348.6 | 7358.1 | 7317.9 | 7216.2 | 7007.9 | 6655.4 | 6423.6 | 6257.9 | 5756.4 |
| 12.5° | 7490.6 | 7502.4 | 7542.7 | 7630.2 | 7684.6 | 7672.8 | 7502.4 | 7157.0 | 6837.6 | 6619.9 | 5943.3 |
| 15° | 7590.0 | 7608.9 | 7679.9 | 7795.8 | 7978.0 | 8093.9 | 8011.1 | 7691.7 | 7341.5 | 7083.7 | 6165.7 |
| 17.5° | 7698.8 | 7720.1 | 7798.2 | 7963.8 | 8202.8 | 8453.5 | 8543.5 | 8269.0 | 7888.1 | 7580.5 | 6414.1 |
| 20° | 7760.3 | 7788.7 | 7899.9 | 8117.6 | 8396.8 | 8761.1 | 9059.2 | 8914.9 | 8498.5 | 8157.8 | 6700.4 |
| 22.5° | 7859.7 | 7883.4 | 7978.0 | 8209.9 | 8543.5 | 9000.1 | 9575.0 | 9544.2 | 9177.5 | 8737.5 | 7015.0 |
| 25° | 8129.4 | 8167.3 | 8214.6 | 8354.2 | 8675.9 | 9243.8 | 10003.2 | 10216.2 | 9835.3 | 9343.1 | 7303.7 |
| 27.5° | 8638.1 | 8668.8 | 8666.5 | 8685.4 | 8867.6 | 9454.3 | 10374.7 | 10881.0 | 10488.3 | 9955.9 | 7582.9 |
| 30° | 9217.7 | 9229.6 | 9239.0 | 9196.5 | 9236.7 | 9669.6 | 10715.4 | 11538.7 | 11146.0 | 10585.3 | 7826.6 |
| 32.5° | 9922.8 | 9946.5 | 9866.0 | 9757.2 | 9724.1 | 9989.0 | 10996.9 | 12196.5 | 11924.4 | 11224.1 | 8067.9 |
| 35° | 10755.6 | 10817.1 | 10653.9 | 10462.2 | 10327.4 | 10448.0 | 11375.5 | 12868.4 | 12721.7 | 12040.3 | 8387.3 |
| 37.5° | 11706.7 | 11782.4 | 11631.0 | 11254.8 | 11063.2 | 11096.3 | 11870.0 | 13698.9 | 13729.6 | 12970.1 | 8862.9 |
| 40° | 12485.1 | 12584.5 | 12589.2 | 12056.9 | 11765.9 | 11803.7 | 12497.0 | 14593.2 | 14945.7 | 14120.0 | 9423.6 |
| 42.5° | 12998.5 | 13095.5 | 13197.3 | 12885.0 | 12579.8 | 12795.1 | 13228.0 | 15563.2 | 16313.2 | 15515.9 | 10206.7 |
| 45° | 13561.6 | 13649.2 | 13706.0 | 13564.0 | 13393.7 | 13952.0 | 14110.5 | 16594.8 | 17770.7 | 17075.1 | 11063.2 |
| 47.5° | 14214.6 | 14311.6 | 14366.1 | 14231.2 | 14167.3 | 14967.0 | 15061.6 | 17557.7 | 19327.5 | 18589.3 | 12009.6 |
| 50° | 15085.3 | 15158.7 | 15130.3 | 15045.1 | 15030.9 | 15745.4 | 15974.9 | 18459.2 | 20612.2 | 20219.4 | 12991.4 |
| 52.5° | 16168.9 | 16256.5 | 16287.2 | 16166.5 | 16112.1 | 16301.4 | 16710.7 | 19280.1 | 21781.0 | 21620.1 | 14039.6 |
| 55° | 16824.3 | 16963.9 | 17432.3 | 17621.6 | 17751.7 | 17020.7 | 17503.3 | 20186.3 | 22829.1 | 23096.4 | 15165.8 |
| 57.5° | 15984.4 | 16164.2 | 17212.3 | 18158.7 | 19381.9 | 18818.8 | 18627.1 | 21132.7 | 23877.2 | 24527.8 | 16514.3 |
| 60° | 13935.5 | 13975.7 | 15326.6 | 17070.3 | 19530.9 | 21130.3 | 20971.8 | 22637.4 | 25012.8 | 25971.1 | 18291.2 |
| 62.5° | 9667.3 | 9752.5 | 11349.5 | 14131.8 | 17690.2 | 21963.1 | 24960.8 | 25235.2 | 26640.6 | 28131.2 | 20896.1 |
| 65° | 4985.1 | 4873.9 | 6328.9 | 8881.8 | 13336.9 | 19985.2 | 28192.7 | 30012.1 | 30170.6 | 31509.7 | 24563.3 |
| 67.5° | 3068.6 | 3118.3 | 3799.7 | 5186.2 | 7885.7 | 14524.6 | 27854.3 | 35848.9 | 35013.7 | 35657.3 | 27967.9 |
| 70° | 2304.4 | 2366.0 | 2834.4 | 3548.9 | 4807.6 | 8304.5 | 22400.8 | 37263.7 | 38430.2 | 38264.5 | 29004.2 |
| 71° | 2004.0 | 2067.8 | 2555.2 | 3229.5 | 4038.7 | 6409.4 | 18873.2 | 35782.7 | 38548.5 | 38520.1 | 28613.8 |
| 72.5° | 1708.2 | 1748.4 | 2129.4 | 2735.0 | 3404.6 | 4492.9 | 14179.1 | 32091.8 | 36904.1 | 37848.1 | 27220.3 |
| 75° | 1341.5 | 1372.3 | 1542.6 | 2086.8 | 2680.6 | 2758.7 | 7608.9 | 24059.4 | 30310.2 | 32108.3 | 22661.1 |
| 77.5° | 1093.1 | 1114.4 | 1201.9 | 1549.7 | 2067.8 | 1954.3 | 3991.4 | 15660.2 | 18989.1 | 20799.1 | 13348.7 |
| 80° | 868.3 | 892.0 | 944.0 | 1050.5 | 1549.7 | 1393.5 | 1904.6 | 7935.4 | 9172.8 | 9153.9 | 5328.1 |
| 82.5° | 674.3 | 681.4 | 742.9 | 771.3 | 1059.9 | 989.0 | 1031.6 | 3359.7 | 3721.6 | 3844.7 | 1923.5 |
| 85° | 425.9 | 447.2 | 657.7 | 591.5 | 634.1 | 579.7 | 508.7 | 1334.4 | 1644.3 | 1620.7 | 768.9 |
| 87.5° | 130.1 | 137.2 | 222.4 | 250.8 | 281.5 | 253.2 | 186.9 | 392.7 | 480.3 | 520.5 | 191.6 |
| 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° | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 | 5283.2 |
| 2.5° | 5313.9 | 5287.9 | 5195.6 | 5119.9 | 5048.9 | 4970.9 | 4904.6 | 4885.7 | 4869.1 | 4862.0 | 4859.7 |
| 5° | 5363.6 | 5285.5 | 5103.4 | 4954.3 | 4836.0 | 4727.2 | 4658.6 | 4627.8 | 4597.0 | 4597.0 | 4606.5 |
| 7.5° | 5434.6 | 5292.6 | 5011.1 | 4788.7 | 4639.6 | 4537.9 | 4488.2 | 4483.5 | 4490.6 | 4497.7 | 4500.0 |
| 10° | 5512.7 | 5287.9 | 4876.2 | 4599.4 | 4466.9 | 4419.6 | 4422.0 | 4462.2 | 4500.0 | 4528.4 | 4533.2 |
| 12.5° | 5588.4 | 5259.5 | 4717.7 | 4422.0 | 4336.8 | 4346.3 | 4412.5 | 4502.4 | 4575.8 | 4616.0 | 4618.3 |
| 15° | 5673.6 | 5214.6 | 4526.1 | 4254.0 | 4225.6 | 4298.9 | 4422.0 | 4559.2 | 4670.4 | 4736.6 | 4743.7 |
| 17.5° | 5744.5 | 5138.8 | 4325.0 | 4090.7 | 4126.2 | 4261.1 | 4431.4 | 4608.9 | 4743.7 | 4826.5 | 4840.7 |
| 20° | 5825.0 | 5041.8 | 4116.8 | 3934.6 | 4036.3 | 4218.5 | 4412.5 | 4604.1 | 4743.7 | 4824.2 | 4843.1 |
| 22.5° | 5888.9 | 4904.6 | 3918.0 | 3806.8 | 3955.9 | 4166.4 | 4348.6 | 4502.4 | 4616.0 | 4658.6 | 4687.0 |
| 25° | 5914.9 | 4731.9 | 3731.1 | 3702.7 | 3892.0 | 4081.3 | 4204.3 | 4291.8 | 4327.3 | 4322.6 | 4334.4 |
| 27.5° | 5900.7 | 4533.2 | 3570.2 | 3619.9 | 3811.5 | 3948.8 | 4010.3 | 4003.2 | 3939.3 | 3880.2 | 3908.6 |
| 30° | 5841.5 | 4296.6 | 3435.4 | 3534.7 | 3707.4 | 3783.2 | 3773.7 | 3681.4 | 3560.8 | 3449.6 | 3456.7 |
| 32.5° | 5735.1 | 4041.0 | 3310.0 | 3437.7 | 3560.8 | 3593.9 | 3530.0 | 3409.3 | 3236.6 | 3092.3 | 3071.0 |
| 35° | 5645.2 | 3797.4 | 3198.8 | 3326.5 | 3414.1 | 3397.5 | 3336.0 | 3179.8 | 3023.7 | 2895.9 | 2874.6 |
| 37.5° | 5631.0 | 3589.1 | 3092.3 | 3201.1 | 3250.8 | 3227.2 | 3151.4 | 3019.0 | 2962.2 | 2865.2 | 2853.3 |
| 40° | 5706.7 | 3442.5 | 2983.5 | 3068.6 | 3092.3 | 3073.4 | 2990.6 | 2914.9 | 2966.9 | 2943.2 | 2943.2 |
| 42.5° | 5912.5 | 3364.4 | 2886.5 | 2936.1 | 2955.1 | 2969.3 | 2910.1 | 2846.2 | 2910.1 | 2801.3 | 2765.8 |
| 45° | 6239.0 | 3366.7 | 2798.9 | 2806.0 | 2862.8 | 2912.5 | 2872.3 | 2777.6 | 2744.5 | 2526.8 | 2484.2 |
| 47.5° | 6719.3 | 3447.2 | 2727.9 | 2683.0 | 2784.7 | 2867.5 | 2810.8 | 2673.5 | 2526.8 | 2382.5 | 2356.5 |
| 50° | 7280.0 | 3591.5 | 2664.1 | 2555.2 | 2680.6 | 2810.8 | 2768.2 | 2607.3 | 2455.9 | 2368.3 | 2351.8 |
| 52.5° | 7902.3 | 3773.7 | 2586.0 | 2413.3 | 2552.9 | 2784.7 | 2777.6 | 2597.8 | 2389.6 | 2330.5 | 2316.3 |
| 55° | 8671.2 | 3953.5 | 2489.0 | 2247.7 | 2439.3 | 2763.4 | 2751.6 | 2519.7 | 2375.4 | 2332.8 | 2328.1 |
| 57.5° | 9565.5 | 4213.8 | 2349.4 | 2079.7 | 2309.2 | 2675.9 | 2649.9 | 2472.4 | 2328.1 | 2297.3 | 2295.0 |
| 60° | 11006.4 | 4618.3 | 2150.7 | 1925.9 | 2176.7 | 2522.1 | 2555.2 | 2392.0 | 2252.4 | 2245.3 | 2242.9 |
| 62.5° | 12901.5 | 5186.2 | 1944.8 | 1767.4 | 2022.9 | 2323.4 | 2418.0 | 2283.1 | 2171.9 | 2207.4 | 2212.2 |
| 65° | 15518.3 | 5664.1 | 1731.9 | 1632.5 | 1852.5 | 2131.7 | 2287.9 | 2181.4 | 2082.0 | 2150.7 | 2150.7 |
| 67.5° | 17224.1 | 5673.6 | 1537.9 | 1492.9 | 1679.8 | 1970.8 | 2150.7 | 2060.7 | 1966.1 | 2082.0 | 2086.8 |
| 70° | 16869.2 | 4970.9 | 1377.0 | 1346.2 | 1511.8 | 1798.1 | 1999.2 | 1928.3 | 1819.4 | 1923.5 | 1885.7 |
| 71° | 16296.7 | 4580.5 | 1313.1 | 1289.4 | 1445.6 | 1715.3 | 1928.3 | 1869.1 | 1760.3 | 1828.9 | 1807.6 |
| 72.5° | 15383.4 | 3977.2 | 1209.0 | 1213.7 | 1346.2 | 1611.2 | 1828.9 | 1767.4 | 1658.5 | 1696.4 | 1689.3 |
| 75° | 13003.3 | 3473.2 | 1033.9 | 1055.2 | 1157.0 | 1433.8 | 1630.1 | 1582.8 | 1471.6 | 1471.6 | 1464.5 |
| 77.5° | 8129.4 | 2427.5 | 858.8 | 870.7 | 981.9 | 1227.9 | 1400.6 | 1360.4 | 1254.0 | 1218.5 | 1209.0 |
| 80° | 3033.2 | 1254.0 | 671.9 | 686.1 | 754.7 | 967.7 | 1159.3 | 1121.5 | 1012.6 | 972.4 | 934.6 |
| 82.5° | 1147.5 | 629.3 | 494.5 | 482.7 | 556.0 | 738.2 | 908.5 | 863.6 | 778.4 | 681.4 | 653.0 |
| 85° | 433.0 | 312.3 | 302.8 | 293.4 | 326.5 | 437.7 | 563.1 | 553.6 | 463.7 | 395.1 | 388.0 |
| 87.5° | 113.6 | 101.7 | 118.3 | 87.5 | 92.3 | 82.8 | 85.2 | 35.5 | 16.6 | 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)