

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: P456244

Luminaire Tested: **GALN-SA7C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40611 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

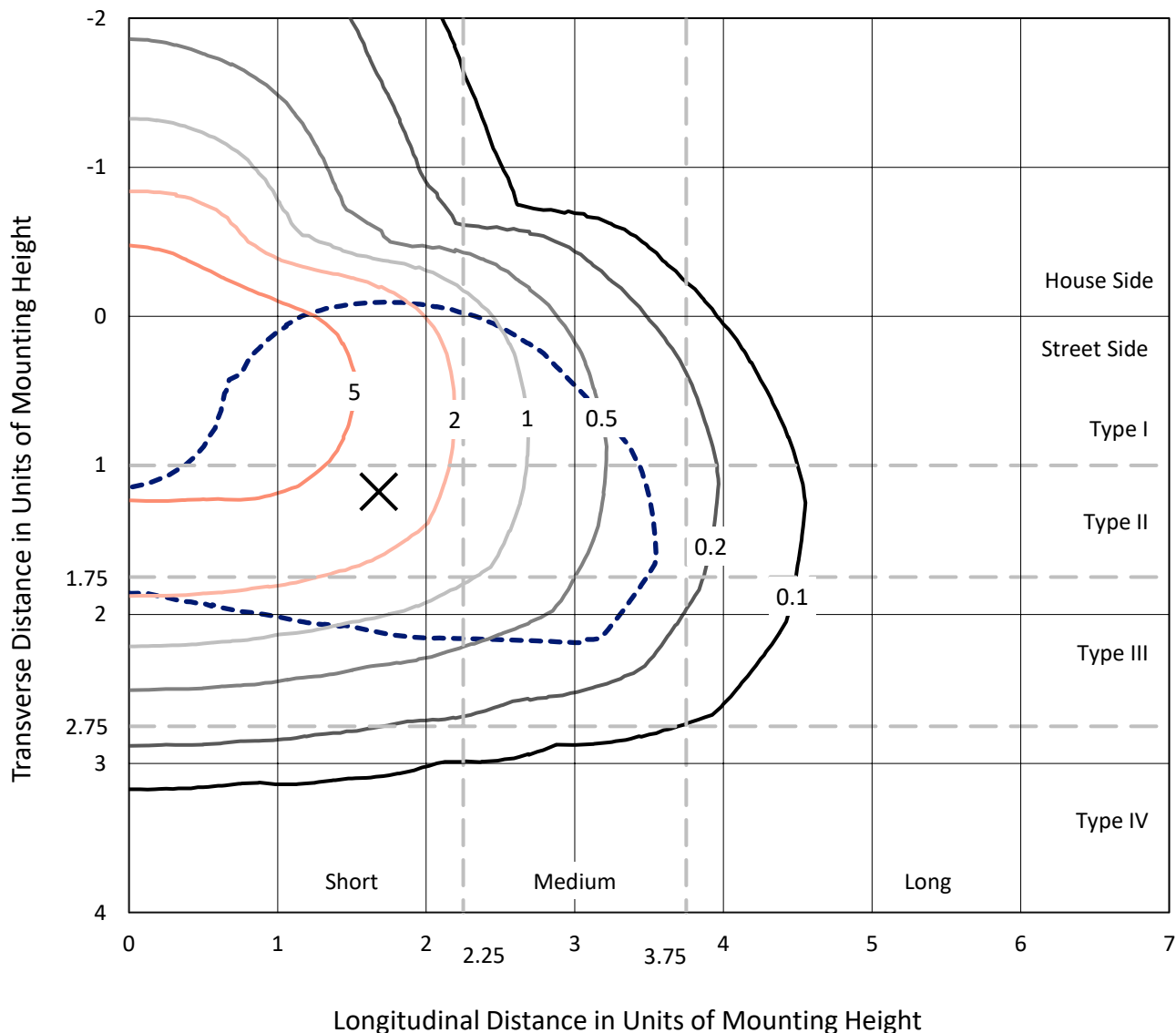
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

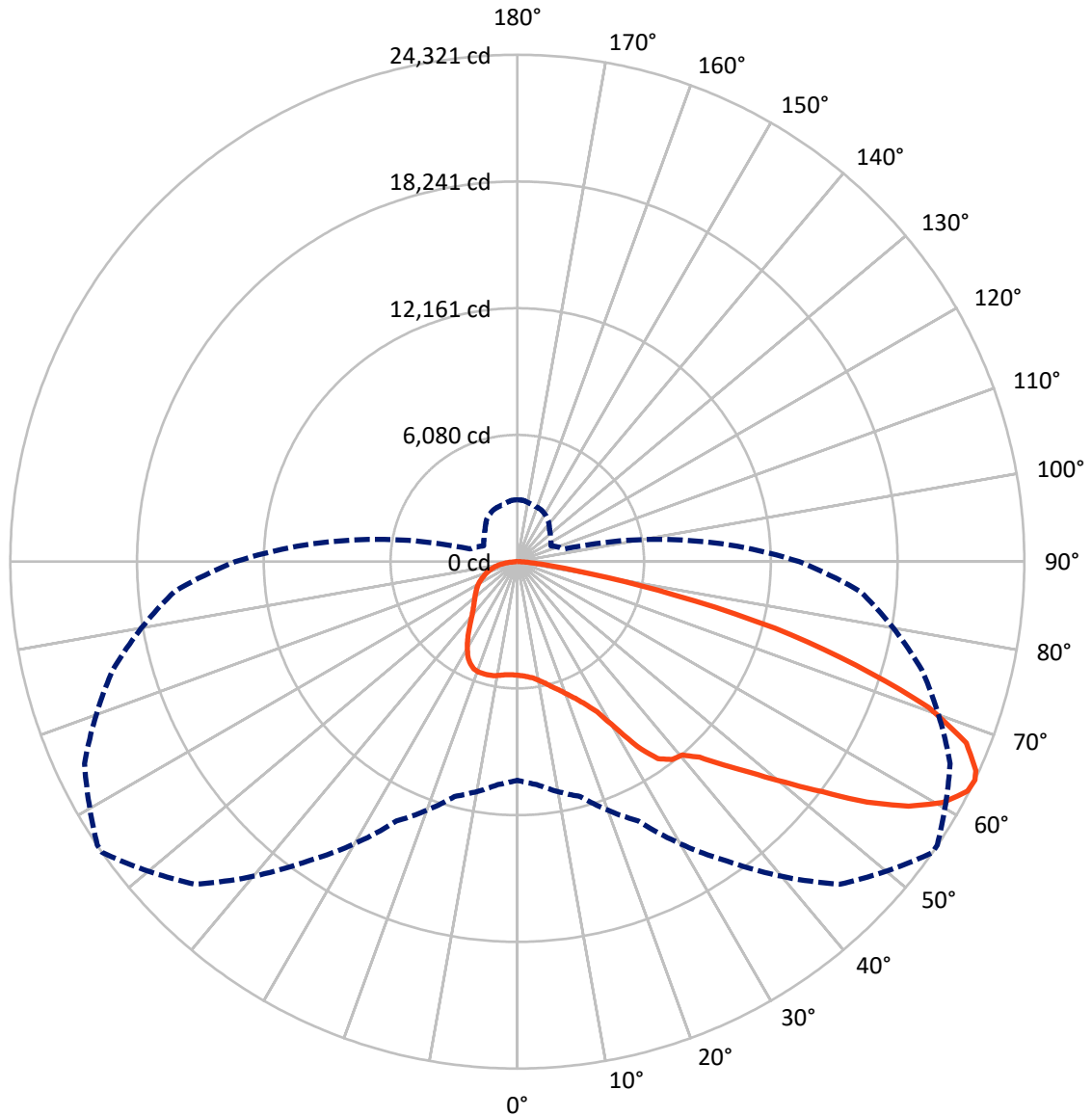
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9865.2 | 0.0 | 9865.2 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 30745.8 | 0.0 | 30745.8 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 40611.0 | 0.0 | 40611.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 530.0 | 1.3 |
| 10°-20° | 1672.4 | 4.1 |
| 20°-30° | 2977.3 | 7.3 |
| 30°-40° | 4580.8 | 11.3 |
| 40°-50° | 6493.7 | 16.0 |
| 50°-60° | 9399.5 | 23.1 |
| 60°-70° | 9727.5 | 24.0 |
| 70°-80° | 4555.4 | 11.2 |
| 80°-90° | 674.4 | 1.7 |
| 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° | 40611.0 | 100.0 |
| 0°-180° | 40611.0 | 100.0 |

Coefficient of Utilization



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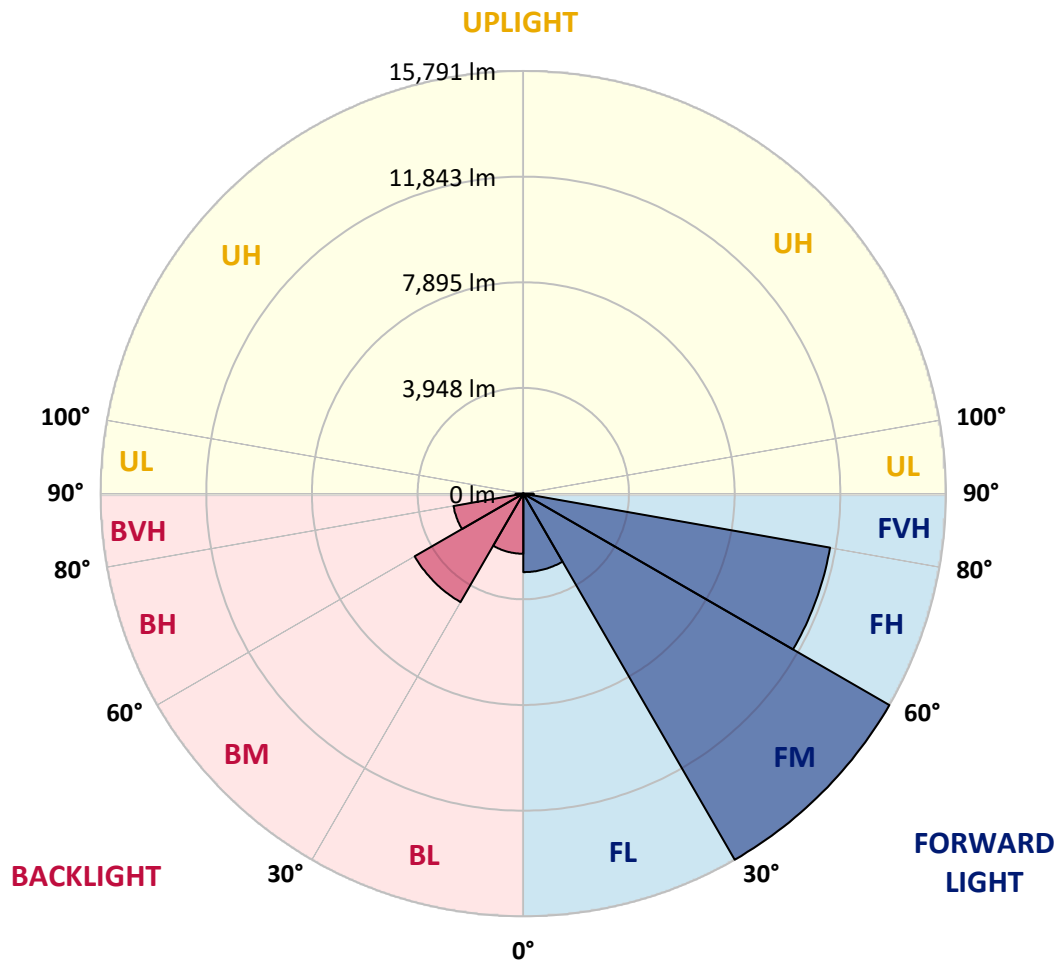
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2932.8 | 7.2 | | | |
| FM | (30°-60°) | 15790.7 | 38.9 | | | |
| FH | (60°-80°) | 11636.2 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 386.1 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 2246.9 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 4683.4 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 2646.6 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 288.2 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 |
| 2.5° | 5509.9 | 5507.6 | 5514.4 | 5507.6 | 5512.2 | 5496.3 | 5489.5 | 5494.0 | 5487.3 | 5475.9 | 5455.6 |
| 5° | 5577.8 | 5575.5 | 5577.8 | 5568.7 | 5573.3 | 5564.2 | 5548.4 | 5552.9 | 5541.6 | 5516.7 | 5487.3 |
| 7.5° | 5693.3 | 5684.2 | 5684.2 | 5681.9 | 5672.9 | 5659.3 | 5648.0 | 5643.5 | 5632.1 | 5600.4 | 5555.2 |
| 10° | 5842.7 | 5842.7 | 5844.9 | 5826.8 | 5838.1 | 5813.2 | 5801.9 | 5799.6 | 5761.2 | 5720.4 | 5657.0 |
| 12.5° | 6039.6 | 6050.9 | 6044.1 | 6035.1 | 6030.5 | 6021.5 | 5983.0 | 5992.1 | 5949.1 | 5878.9 | 5801.9 |
| 15° | 6284.1 | 6302.2 | 6290.9 | 6286.3 | 6275.0 | 6241.1 | 6225.2 | 6218.4 | 6161.8 | 6060.0 | 5958.1 |
| 17.5° | 6607.8 | 6585.2 | 6576.1 | 6564.8 | 6517.2 | 6492.3 | 6465.2 | 6460.7 | 6410.9 | 6290.9 | 6132.4 |
| 20° | 6890.8 | 6922.5 | 6904.3 | 6893.0 | 6845.5 | 6797.9 | 6777.6 | 6770.8 | 6727.8 | 6596.5 | 6342.9 |
| 22.5° | 7228.1 | 7234.8 | 7241.6 | 7214.5 | 7191.8 | 7155.6 | 7119.4 | 7108.1 | 7092.2 | 6956.4 | 6646.3 |
| 25° | 7588.0 | 7615.1 | 7592.5 | 7565.3 | 7538.2 | 7535.9 | 7569.9 | 7565.3 | 7558.6 | 7427.3 | 7049.2 |
| 27.5° | 8174.3 | 8199.2 | 8206.0 | 8176.6 | 8072.4 | 8081.5 | 8158.4 | 8183.3 | 8287.5 | 8070.2 | 7567.6 |
| 30° | 8504.8 | 8529.7 | 8586.3 | 8697.2 | 8862.5 | 9007.3 | 9193.0 | 9249.6 | 9349.2 | 8939.4 | 8183.3 |
| 32.5° | 8708.5 | 8717.6 | 8819.4 | 9025.4 | 9521.2 | 10062.2 | 10567.0 | 10587.4 | 10650.8 | 10075.8 | 8747.0 |
| 35° | 9030.0 | 9036.8 | 9118.3 | 9344.6 | 9926.4 | 10827.4 | 11608.3 | 11633.2 | 11581.2 | 10429.0 | 9009.6 |
| 37.5° | 9426.1 | 9444.2 | 9496.3 | 9684.2 | 10379.1 | 11468.0 | 12040.7 | 12022.6 | 11560.8 | 10709.7 | 9473.7 |
| 40° | 10003.4 | 10003.4 | 9942.3 | 10195.8 | 10856.8 | 11834.7 | 12192.4 | 12160.7 | 12038.5 | 11522.3 | 10179.9 |
| 42.5° | 10512.7 | 10503.7 | 10648.5 | 10820.6 | 11454.4 | 12400.6 | 12828.5 | 12880.6 | 13082.0 | 12543.3 | 10983.6 |
| 45° | 11176.0 | 11216.7 | 11298.2 | 11610.6 | 12470.8 | 13367.3 | 13919.6 | 13969.4 | 14254.6 | 13745.3 | 11923.0 |
| 47.5° | 11846.0 | 11859.6 | 12115.4 | 12531.9 | 13729.5 | 14678.0 | 15130.7 | 15212.2 | 15472.5 | 15151.1 | 12934.9 |
| 50° | 12321.4 | 12450.5 | 12860.2 | 13516.7 | 15026.6 | 16276.1 | 16629.3 | 16726.6 | 17186.2 | 16681.3 | 14114.3 |
| 52.5° | 12824.0 | 12950.7 | 13451.0 | 14451.6 | 16516.1 | 17910.5 | 18345.2 | 18410.8 | 18888.5 | 18229.7 | 15320.8 |
| 55° | 13254.1 | 13371.8 | 13940.0 | 15280.1 | 17702.3 | 19578.9 | 20366.7 | 20289.7 | 20518.3 | 19422.7 | 16251.2 |
| 57.5° | 13324.2 | 13419.3 | 14134.7 | 15809.8 | 18594.2 | 21009.6 | 22139.2 | 22184.4 | 21919.6 | 20314.6 | 17018.6 |
| 60° | 12781.0 | 12975.6 | 13797.4 | 15753.2 | 18994.9 | 22005.6 | 23461.2 | 23492.9 | 22741.3 | 20771.9 | 17324.2 |
| 62.5° | 11818.9 | 11798.5 | 12792.3 | 14843.2 | 18433.5 | 22232.0 | 24239.9 | 24205.9 | 23062.8 | 20552.3 | 17027.7 |
| 64° | 10490.1 | 10734.6 | 11662.7 | 13724.9 | 17528.0 | 21883.4 | 24321.4 | 24303.3 | 22908.8 | 20095.0 | 16522.9 |
| 65° | 9679.7 | 9666.1 | 10582.9 | 12810.4 | 16627.0 | 21358.2 | 24176.5 | 24151.6 | 22587.4 | 19685.3 | 16131.3 |
| 67.5° | 6988.1 | 7019.8 | 7925.3 | 9885.7 | 13516.7 | 19305.0 | 23232.5 | 23139.7 | 21319.7 | 18327.1 | 14641.7 |
| 70° | 4233.2 | 4251.3 | 4962.1 | 6558.0 | 9702.3 | 15606.1 | 20941.7 | 20946.2 | 19379.7 | 16298.8 | 12461.8 |
| 72.5° | 2229.8 | 2277.3 | 2562.5 | 3723.8 | 5892.5 | 10949.6 | 16989.2 | 17392.1 | 16638.3 | 13910.6 | 9844.9 |
| 75° | 1240.5 | 1247.3 | 1448.8 | 1835.9 | 3006.2 | 6127.9 | 12769.6 | 12885.1 | 13172.6 | 11196.4 | 7280.1 |
| 77.5° | 946.2 | 959.8 | 1023.2 | 1186.2 | 1636.7 | 2841.0 | 7728.3 | 8307.8 | 9283.5 | 7893.6 | 4153.9 |
| 80° | 767.4 | 781.0 | 835.3 | 932.7 | 1088.8 | 1346.9 | 3590.3 | 3902.7 | 4968.9 | 3504.2 | 1620.8 |
| 82.5° | 597.6 | 588.6 | 658.7 | 722.1 | 792.3 | 796.8 | 1473.7 | 1629.9 | 2023.8 | 1507.6 | 701.8 |
| 85° | 443.7 | 443.7 | 500.3 | 486.7 | 511.6 | 466.3 | 649.7 | 717.6 | 810.4 | 640.6 | 326.0 |
| 87.5° | 176.6 | 194.7 | 328.2 | 294.3 | 228.6 | 183.4 | 240.0 | 253.5 | 280.7 | 251.3 | 135.8 |
| 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° | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 | 5448.8 |
| 2.5° | 5457.8 | 5464.6 | 5448.8 | 5437.5 | 5432.9 | 5426.1 | 5419.3 | 5421.6 | 5430.7 | 5439.7 | 5437.5 |
| 5° | 5485.0 | 5487.3 | 5460.1 | 5446.5 | 5437.5 | 5428.4 | 5428.4 | 5435.2 | 5453.3 | 5466.9 | 5466.9 |
| 7.5° | 5552.9 | 5552.9 | 5514.4 | 5489.5 | 5475.9 | 5460.1 | 5455.6 | 5457.8 | 5471.4 | 5489.5 | 5491.8 |
| 10° | 5659.3 | 5650.2 | 5600.4 | 5562.0 | 5537.1 | 5498.6 | 5464.6 | 5446.5 | 5453.3 | 5464.6 | 5464.6 |
| 12.5° | 5788.3 | 5763.4 | 5700.0 | 5648.0 | 5586.9 | 5514.4 | 5444.2 | 5408.0 | 5405.8 | 5417.1 | 5412.6 |
| 15° | 5926.4 | 5899.3 | 5811.0 | 5715.9 | 5609.5 | 5503.1 | 5419.3 | 5367.3 | 5326.5 | 5315.2 | 5340.1 |
| 17.5° | 6087.1 | 6030.5 | 5908.3 | 5777.0 | 5618.5 | 5480.5 | 5349.2 | 5242.8 | 5170.3 | 5150.0 | 5156.8 |
| 20° | 6281.8 | 6207.1 | 6041.9 | 5835.9 | 5611.8 | 5399.0 | 5195.2 | 5052.6 | 4934.9 | 4898.7 | 4903.2 |
| 22.5° | 6551.2 | 6422.2 | 6180.0 | 5865.3 | 5555.2 | 5245.0 | 4962.1 | 4776.4 | 4633.8 | 4577.2 | 4611.2 |
| 25° | 6856.8 | 6716.5 | 6311.2 | 5858.5 | 5408.0 | 4998.3 | 4685.9 | 4443.7 | 4314.6 | 4230.9 | 4249.0 |
| 27.5° | 7277.9 | 7028.8 | 6451.6 | 5797.4 | 5197.5 | 4697.2 | 4335.0 | 4106.4 | 3988.7 | 3945.7 | 3966.0 |
| 30° | 7816.6 | 7434.1 | 6603.3 | 5632.1 | 4864.7 | 4316.9 | 3981.9 | 3832.5 | 3762.3 | 3708.0 | 3726.1 |
| 32.5° | 8206.0 | 7719.3 | 6637.2 | 5353.7 | 4504.8 | 3970.6 | 3741.9 | 3631.0 | 3554.0 | 3502.0 | 3513.3 |
| 35° | 8484.4 | 7961.5 | 6621.4 | 5011.9 | 4129.0 | 3685.3 | 3551.8 | 3461.2 | 3336.7 | 3223.5 | 3203.2 |
| 37.5° | 8857.9 | 8264.8 | 6505.9 | 4638.4 | 3757.8 | 3492.9 | 3397.8 | 3230.3 | 3051.5 | 2899.8 | 2893.0 |
| 40° | 9430.7 | 8620.2 | 6259.2 | 4199.2 | 3440.9 | 3350.3 | 3234.9 | 3017.5 | 2825.1 | 2702.9 | 2693.8 |
| 42.5° | 10021.5 | 8948.5 | 5924.2 | 3737.4 | 3180.5 | 3200.9 | 3060.5 | 2845.5 | 2727.8 | 2648.6 | 2639.5 |
| 45° | 10743.6 | 9303.9 | 5562.0 | 3336.7 | 2988.1 | 3060.5 | 2908.9 | 2784.4 | 2714.2 | 2662.1 | 2648.6 |
| 47.5° | 11524.6 | 9668.3 | 5154.5 | 2976.8 | 2825.1 | 2931.5 | 2845.5 | 2788.9 | 2750.4 | 2714.2 | 2698.4 |
| 50° | 12366.7 | 10075.8 | 4771.9 | 2687.0 | 2678.0 | 2798.0 | 2838.7 | 2818.3 | 2795.7 | 2784.4 | 2770.8 |
| 52.5° | 13290.3 | 10492.3 | 4450.5 | 2483.3 | 2548.9 | 2702.9 | 2841.0 | 2856.8 | 2856.8 | 2850.0 | 2841.0 |
| 55° | 13915.1 | 10782.1 | 4124.5 | 2318.0 | 2417.7 | 2625.9 | 2836.4 | 2897.6 | 2920.2 | 2911.1 | 2902.1 |
| 57.5° | 14376.9 | 10940.6 | 3714.8 | 2175.4 | 2306.7 | 2551.2 | 2811.5 | 2902.1 | 2924.7 | 2936.0 | 2931.5 |
| 60° | 14472.0 | 10793.4 | 3178.3 | 2026.0 | 2186.8 | 2442.6 | 2721.0 | 2834.2 | 2863.6 | 2933.8 | 2940.6 |
| 62.5° | 14044.1 | 10340.7 | 2644.0 | 1878.9 | 2039.6 | 2277.3 | 2598.7 | 2757.2 | 2816.1 | 2924.7 | 2936.0 |
| 64° | 13518.9 | 9833.6 | 2347.5 | 1786.1 | 1944.5 | 2184.5 | 2537.6 | 2736.8 | 2813.8 | 2958.7 | 2967.7 |
| 65° | 13134.1 | 9464.6 | 2161.9 | 1727.2 | 1883.4 | 2123.4 | 2503.7 | 2743.6 | 2834.2 | 3010.7 | 3024.3 |
| 67.5° | 11717.0 | 8194.7 | 1788.3 | 1589.1 | 1738.5 | 2019.2 | 2510.5 | 2800.2 | 2829.6 | 3031.1 | 3028.9 |
| 70° | 9695.5 | 6524.0 | 1498.6 | 1462.4 | 1598.2 | 1935.5 | 2483.3 | 2709.7 | 2711.9 | 2845.5 | 2813.8 |
| 72.5° | 7259.7 | 4821.7 | 1299.4 | 1331.1 | 1442.0 | 1736.3 | 2345.2 | 2587.4 | 2548.9 | 2567.1 | 2535.4 |
| 75° | 4987.0 | 3189.6 | 1118.3 | 1190.7 | 1279.0 | 1534.8 | 2150.5 | 2349.7 | 2288.6 | 2266.0 | 2243.3 |
| 77.5° | 2662.1 | 1763.4 | 930.4 | 1052.6 | 1111.5 | 1326.5 | 1876.6 | 2069.0 | 2005.7 | 1917.4 | 1887.9 |
| 80° | 1077.5 | 830.8 | 749.3 | 871.5 | 905.5 | 1068.5 | 1562.0 | 1681.9 | 1634.4 | 1480.5 | 1430.7 |
| 82.5° | 541.0 | 498.0 | 588.6 | 685.9 | 688.2 | 762.9 | 1161.3 | 1274.5 | 1168.1 | 980.2 | 937.2 |
| 85° | 283.0 | 292.0 | 405.2 | 482.2 | 425.6 | 412.0 | 697.2 | 771.9 | 708.5 | 615.7 | 554.6 |
| 87.5° | 101.9 | 117.7 | 212.8 | 210.5 | 149.4 | 79.2 | 153.9 | 74.7 | 40.7 | 24.9 | 31.7 |
| 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)