

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: P269559

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38843.1 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

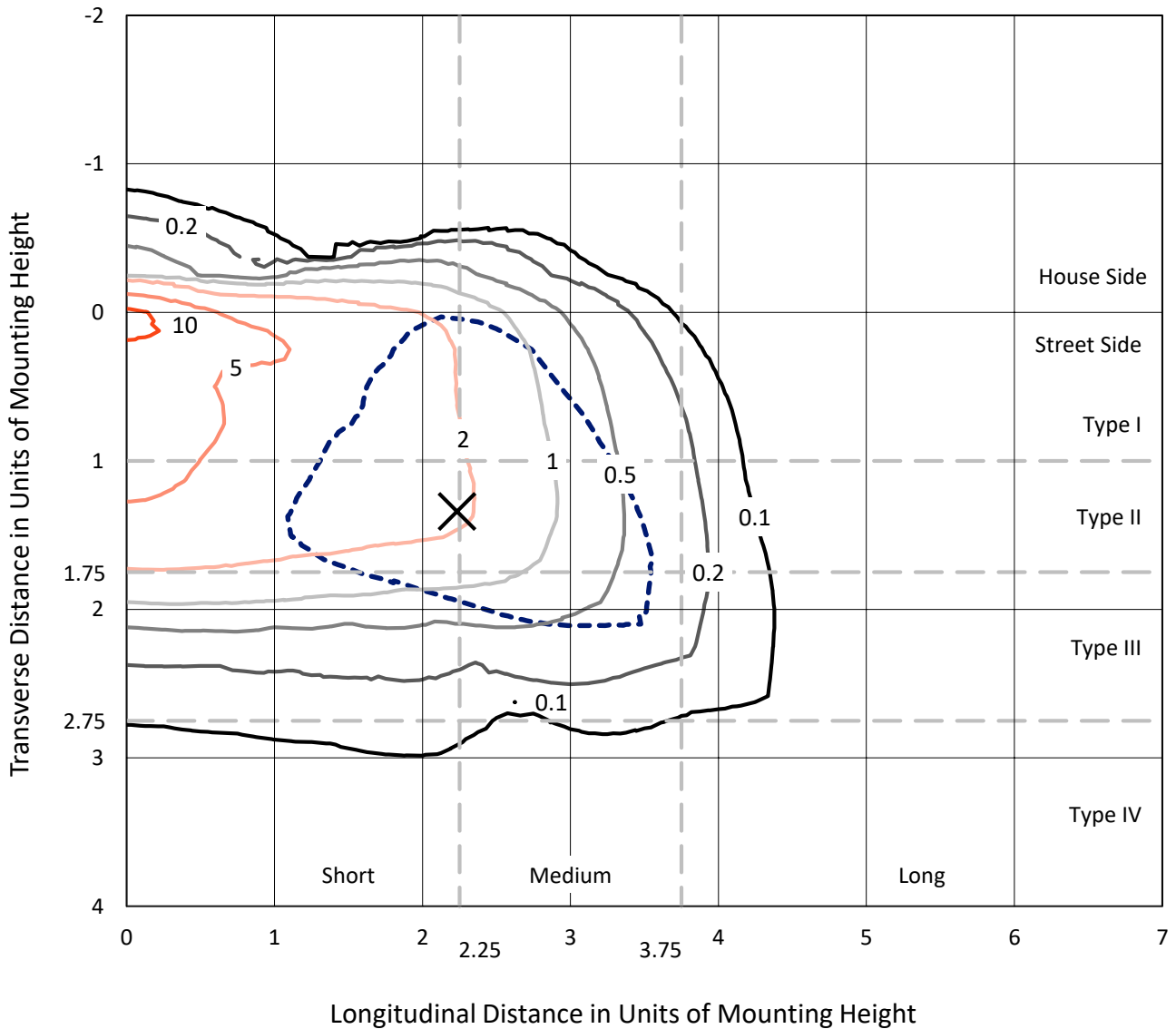
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

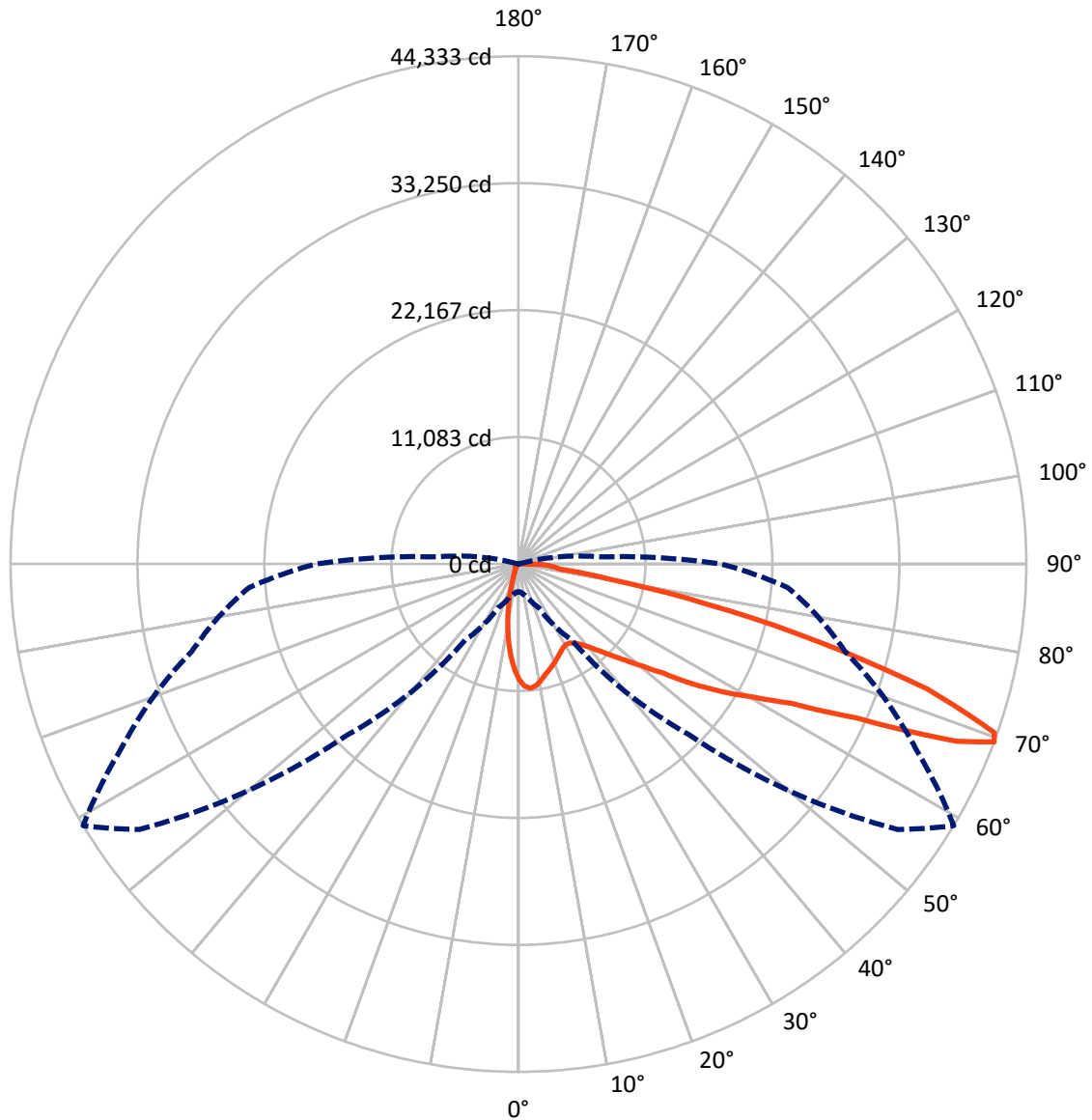


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3163.3 | 0.0 | 3163.3 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 35679.9 | 0.0 | 35679.9 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 38843.1 | 0.0 | 38843.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 820.7 | 2.1 |
| 10°-20° | 1695.7 | 4.4 |
| 20°-30° | 2281.8 | 5.9 |
| 30°-40° | 3313.0 | 8.5 |
| 40°-50° | 5516.4 | 14.2 |
| 50°-60° | 8605.5 | 22.2 |
| 60°-70° | 10648.7 | 27.4 |
| 70°-80° | 5396.6 | 13.9 |
| 80°-90° | 564.7 | 1.5 |
| 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° | 38843.1 | 100.0 |
| 0°-180° | 38843.1 | 100.0 |



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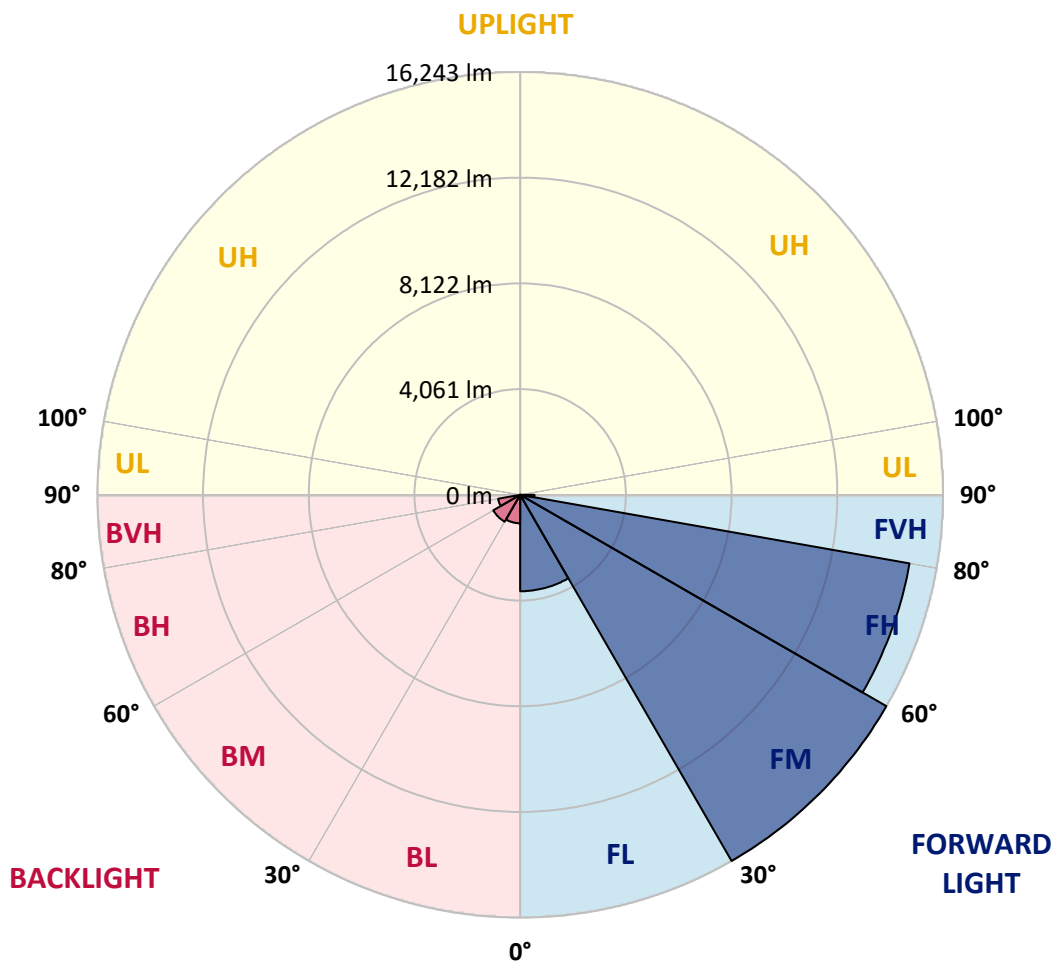
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3703.3 | 9.5 | | | |
| FM | (30°-60°) | 16243.1 | 41.8 | | | |
| FH | (60°-80°) | 15186.2 | 39.1 | | | G5 |
| FVH | (80°-90°) | 547.3 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 1094.9 | 2.8 | B3/2500 | | |
| BM | (30°-60°) | 1191.9 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 859.1 | 2.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 17.4 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 |
| 2.5° | 11081.1 | 11076.8 | 11028.4 | 11006.6 | 10967.0 | 10883.4 | 10753.9 | 10685.8 | 10575.9 | 10384.9 | 10127.9 |
| 5° | 10980.2 | 11032.9 | 11061.4 | 11063.5 | 11092.1 | 11061.4 | 10944.9 | 10887.8 | 10736.4 | 10428.9 | 9967.6 |
| 7.5° | 10294.8 | 10314.6 | 10395.8 | 10466.2 | 10602.3 | 10732.0 | 10773.6 | 10749.5 | 10659.5 | 10330.0 | 9717.1 |
| 10° | 9561.2 | 9581.1 | 9677.6 | 9769.8 | 9954.4 | 10154.3 | 10365.2 | 10409.0 | 10446.4 | 10189.5 | 9475.5 |
| 12.5° | 8928.7 | 8948.3 | 9047.2 | 9168.0 | 9383.2 | 9629.3 | 9956.5 | 10029.0 | 10193.7 | 10055.4 | 9282.2 |
| 15° | 8383.9 | 8392.7 | 8489.3 | 8638.7 | 8895.6 | 9211.9 | 9583.2 | 9699.5 | 9952.2 | 9960.9 | 9113.1 |
| 17.5° | 7920.4 | 7942.5 | 8001.7 | 8144.6 | 8425.7 | 8816.7 | 9249.3 | 9416.3 | 9712.7 | 9881.9 | 8948.3 |
| 20° | 7637.1 | 7659.0 | 7656.9 | 7735.9 | 7988.5 | 8405.9 | 8915.5 | 9115.3 | 9475.5 | 9800.6 | 8801.2 |
| 22.5° | 7582.2 | 7582.2 | 7525.1 | 7514.1 | 7663.5 | 8012.7 | 8568.5 | 8812.3 | 9262.6 | 9765.5 | 8698.0 |
| 25° | 7777.6 | 7768.9 | 7626.2 | 7509.7 | 7516.3 | 7725.0 | 8232.3 | 8522.3 | 9082.4 | 9789.6 | 8643.1 |
| 27.5° | 8190.7 | 8179.6 | 7999.5 | 7777.6 | 7599.8 | 7597.5 | 7977.6 | 8289.5 | 8939.7 | 9903.9 | 8665.1 |
| 30° | 8761.7 | 8757.2 | 8561.8 | 8282.8 | 7960.1 | 7663.5 | 7889.8 | 8173.0 | 8847.3 | 10110.3 | 8715.5 |
| 32.5° | 9385.5 | 9378.9 | 9231.7 | 8937.3 | 8528.9 | 7960.1 | 7982.0 | 8219.1 | 8873.6 | 10384.9 | 8838.6 |
| 35° | 10046.6 | 10035.7 | 9971.9 | 9715.0 | 9264.7 | 8506.9 | 8285.1 | 8469.6 | 9040.6 | 10795.7 | 9080.2 |
| 37.5° | 10762.7 | 10773.6 | 10819.7 | 10573.8 | 10101.5 | 9273.5 | 8792.4 | 8917.7 | 9376.7 | 11353.5 | 9473.3 |
| 40° | 11819.2 | 11816.9 | 11832.4 | 11509.4 | 11054.8 | 10211.4 | 9501.9 | 9541.4 | 9938.9 | 12093.7 | 10070.8 |
| 42.5° | 13736.7 | 13602.8 | 13196.3 | 12537.5 | 12080.5 | 11283.3 | 10395.8 | 10354.1 | 10626.5 | 13009.7 | 10907.6 |
| 45° | 16313.1 | 16027.6 | 14973.3 | 13710.3 | 13126.0 | 12491.3 | 11496.2 | 11362.3 | 11535.9 | 14110.0 | 11940.0 |
| 47.5° | 18529.3 | 18232.9 | 16741.4 | 14931.5 | 14235.4 | 13637.9 | 12785.7 | 12544.0 | 12601.2 | 15342.3 | 13249.1 |
| 50° | 19282.7 | 19137.9 | 17835.3 | 15994.6 | 15309.4 | 15080.9 | 14281.4 | 13987.1 | 13905.9 | 16767.9 | 14766.8 |
| 52.5° | 19021.4 | 19010.4 | 18142.8 | 16684.3 | 16293.4 | 16574.4 | 16163.8 | 15823.4 | 15524.6 | 18270.2 | 16311.0 |
| 55° | 18601.8 | 18656.8 | 18268.0 | 17288.4 | 17275.1 | 17938.6 | 18738.0 | 18454.7 | 17589.4 | 19902.2 | 17642.1 |
| 57.5° | 17444.4 | 17679.4 | 18197.8 | 18430.5 | 18970.9 | 19649.5 | 20881.8 | 21048.7 | 20025.1 | 21151.9 | 18746.8 |
| 60° | 14154.1 | 14670.2 | 16365.9 | 18595.3 | 21156.3 | 22847.6 | 23469.2 | 23611.9 | 22023.9 | 22190.9 | 20238.3 |
| 62.5° | 10046.6 | 10573.8 | 12724.1 | 16495.4 | 21189.3 | 27049.5 | 27324.0 | 26763.9 | 24224.9 | 23730.5 | 22810.3 |
| 65° | 5333.0 | 5739.5 | 7496.5 | 11907.0 | 18371.2 | 28024.8 | 34064.9 | 32395.7 | 28108.1 | 26759.5 | 26133.5 |
| 67.5° | 2728.1 | 2851.0 | 3549.6 | 5827.2 | 12629.7 | 24892.6 | 40107.4 | 41282.6 | 34800.8 | 29764.4 | 25973.1 |
| 69° | 2413.9 | 2486.4 | 2949.9 | 4212.8 | 8087.4 | 21083.8 | 40401.8 | 44333.4 | 38304.2 | 29514.0 | 23603.1 |
| 70° | 2337.0 | 2400.7 | 2822.5 | 3813.0 | 6321.5 | 17681.6 | 39274.9 | 44065.5 | 39200.2 | 28560.6 | 21832.9 |
| 72.5° | 1983.4 | 2038.3 | 2512.7 | 3369.4 | 5137.5 | 8777.1 | 31903.7 | 37339.8 | 35176.4 | 23792.1 | 15803.5 |
| 75° | 1326.6 | 1506.7 | 2411.7 | 3158.5 | 4779.5 | 4986.0 | 21033.4 | 26983.6 | 25066.0 | 16047.3 | 8232.3 |
| 77.5° | 318.4 | 342.7 | 680.9 | 2512.7 | 4371.0 | 4388.5 | 10817.6 | 16774.4 | 13681.7 | 5719.6 | 1946.1 |
| 80° | 171.3 | 164.7 | 191.1 | 498.6 | 4070.0 | 4118.4 | 4869.5 | 8142.2 | 4885.0 | 948.9 | 641.4 |
| 82.5° | 120.8 | 114.3 | 123.0 | 208.6 | 1280.5 | 3751.5 | 3523.2 | 3685.7 | 2025.1 | 364.6 | 287.7 |
| 85° | 43.9 | 41.7 | 68.1 | 189.0 | 401.9 | 2156.9 | 3619.8 | 3040.0 | 1640.8 | 166.9 | 210.8 |
| 87.5° | 15.5 | 13.1 | 26.4 | 103.2 | 123.0 | 918.1 | 2233.8 | 2297.5 | 645.7 | 101.0 | 98.9 |
| 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° | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 | 10110.3 |
| 2.5° | 10020.2 | 9884.1 | 9633.8 | 9376.7 | 9139.4 | 8854.0 | 8711.1 | 8570.5 | 8511.4 | 8489.3 | 8386.0 |
| 5° | 9730.4 | 9499.7 | 8968.1 | 8434.5 | 7942.5 | 7419.6 | 7074.8 | 6798.1 | 6635.5 | 6556.5 | 6431.2 |
| 7.5° | 9359.1 | 8981.3 | 8175.3 | 7351.5 | 6584.9 | 5829.5 | 5269.3 | 4838.8 | 4542.3 | 4399.4 | 4270.0 |
| 10° | 8999.0 | 8495.9 | 7349.4 | 6227.1 | 5185.8 | 4184.2 | 3411.1 | 2851.0 | 2492.9 | 2328.2 | 2222.9 |
| 12.5° | 8676.0 | 8023.8 | 6552.1 | 5130.9 | 3824.1 | 2651.2 | 1864.8 | 1419.0 | 1197.1 | 1120.1 | 1082.8 |
| 15° | 8388.4 | 7588.8 | 5798.6 | 4089.9 | 2589.6 | 1515.6 | 1019.1 | 867.7 | 832.5 | 832.5 | 828.1 |
| 17.5° | 8115.9 | 7162.6 | 5071.7 | 3112.4 | 1625.5 | 927.0 | 775.3 | 755.6 | 755.6 | 764.4 | 764.4 |
| 20° | 7854.6 | 6756.3 | 4368.7 | 2233.8 | 1023.6 | 735.8 | 700.7 | 696.2 | 700.7 | 711.6 | 711.6 |
| 22.5° | 7630.6 | 6387.3 | 3712.1 | 1533.1 | 760.0 | 663.3 | 645.7 | 639.1 | 641.4 | 647.9 | 652.3 |
| 25° | 7463.6 | 6075.4 | 3092.7 | 1038.9 | 654.5 | 604.0 | 584.3 | 573.3 | 564.5 | 564.5 | 568.8 |
| 27.5° | 7358.1 | 5811.9 | 2492.9 | 755.6 | 588.7 | 549.1 | 518.3 | 500.7 | 481.0 | 470.1 | 474.5 |
| 30° | 7281.3 | 5561.4 | 1930.6 | 617.2 | 527.1 | 487.6 | 448.1 | 419.5 | 390.9 | 377.7 | 382.1 |
| 32.5° | 7252.7 | 5359.4 | 1443.0 | 544.7 | 472.1 | 428.3 | 380.1 | 342.7 | 311.9 | 300.9 | 303.1 |
| 35° | 7329.6 | 5199.0 | 1056.4 | 492.0 | 428.3 | 373.3 | 318.4 | 276.8 | 252.7 | 246.0 | 248.2 |
| 37.5° | 7531.7 | 5113.3 | 790.7 | 448.1 | 388.7 | 327.3 | 265.8 | 226.3 | 210.8 | 210.8 | 213.1 |
| 40° | 7913.9 | 5111.1 | 634.8 | 417.4 | 353.7 | 283.3 | 219.6 | 191.1 | 182.3 | 186.7 | 189.0 |
| 42.5° | 8471.7 | 5227.5 | 553.5 | 388.7 | 322.9 | 241.6 | 182.3 | 162.6 | 160.3 | 164.7 | 166.9 |
| 45° | 9233.9 | 5440.7 | 509.6 | 364.6 | 290.0 | 202.1 | 153.8 | 140.6 | 140.6 | 147.1 | 149.4 |
| 47.5° | 10167.5 | 5752.6 | 472.1 | 340.5 | 256.9 | 169.2 | 131.8 | 123.0 | 125.3 | 131.8 | 133.9 |
| 50° | 11292.1 | 6145.8 | 434.9 | 314.0 | 232.8 | 140.6 | 114.3 | 107.6 | 109.9 | 118.5 | 120.8 |
| 52.5° | 12572.6 | 6675.0 | 404.1 | 290.0 | 202.1 | 116.4 | 96.7 | 92.3 | 96.7 | 105.5 | 107.6 |
| 55° | 13670.8 | 7149.5 | 366.8 | 270.2 | 162.6 | 96.7 | 79.1 | 79.1 | 83.5 | 94.4 | 96.7 |
| 57.5° | 14727.4 | 7646.0 | 333.9 | 232.8 | 127.4 | 76.8 | 65.8 | 68.1 | 74.6 | 85.7 | 87.9 |
| 60° | 16277.9 | 8487.1 | 294.4 | 195.6 | 96.7 | 61.5 | 54.8 | 57.1 | 65.8 | 76.8 | 79.1 |
| 62.5° | 18911.6 | 9767.7 | 254.8 | 162.6 | 74.6 | 48.2 | 43.9 | 48.2 | 59.3 | 72.6 | 74.6 |
| 65° | 21288.2 | 10288.3 | 208.6 | 136.3 | 57.1 | 37.3 | 37.3 | 43.9 | 57.1 | 70.2 | 72.6 |
| 67.5° | 19963.7 | 8660.6 | 162.6 | 107.6 | 43.9 | 28.6 | 30.7 | 41.7 | 54.8 | 70.2 | 72.6 |
| 69° | 17655.2 | 7081.3 | 138.3 | 85.7 | 37.3 | 26.4 | 28.6 | 41.7 | 54.8 | 68.1 | 70.2 |
| 70° | 15856.3 | 5978.8 | 123.0 | 72.6 | 33.0 | 26.4 | 28.6 | 39.5 | 54.8 | 68.1 | 70.2 |
| 72.5° | 10619.9 | 3228.8 | 98.9 | 52.7 | 30.7 | 24.2 | 24.2 | 39.5 | 52.7 | 65.8 | 68.1 |
| 75° | 4564.3 | 891.7 | 79.1 | 37.3 | 26.4 | 22.0 | 22.0 | 37.3 | 50.6 | 63.7 | 68.1 |
| 77.5° | 834.6 | 226.3 | 63.7 | 33.0 | 26.4 | 22.0 | 19.8 | 35.2 | 48.2 | 61.5 | 63.7 |
| 80° | 331.7 | 112.0 | 50.6 | 28.6 | 24.2 | 19.8 | 17.5 | 33.0 | 46.2 | 59.3 | 61.5 |
| 82.5° | 199.9 | 63.7 | 41.7 | 26.4 | 24.2 | 17.5 | 15.5 | 28.6 | 43.9 | 57.1 | 59.3 |
| 85° | 162.6 | 43.9 | 33.0 | 26.4 | 22.0 | 17.5 | 13.1 | 26.4 | 39.5 | 54.8 | 57.1 |
| 87.5° | 79.1 | 30.7 | 30.7 | 24.2 | 22.0 | 17.5 | 13.1 | 24.2 | 37.3 | 52.7 | 54.8 |
| 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)