

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: P323322

Luminaire Tested: **GLEON-SA8B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27887 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

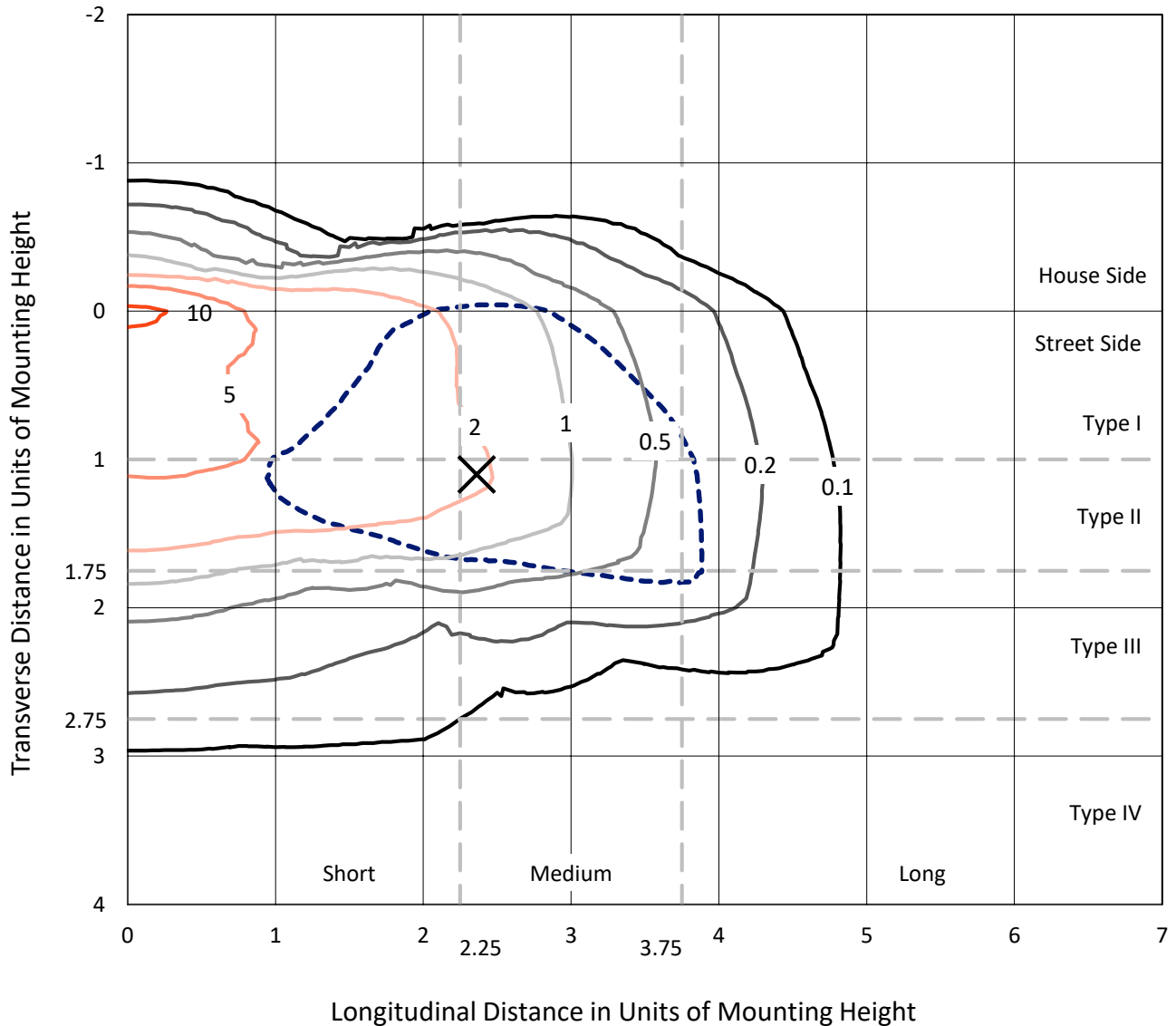
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

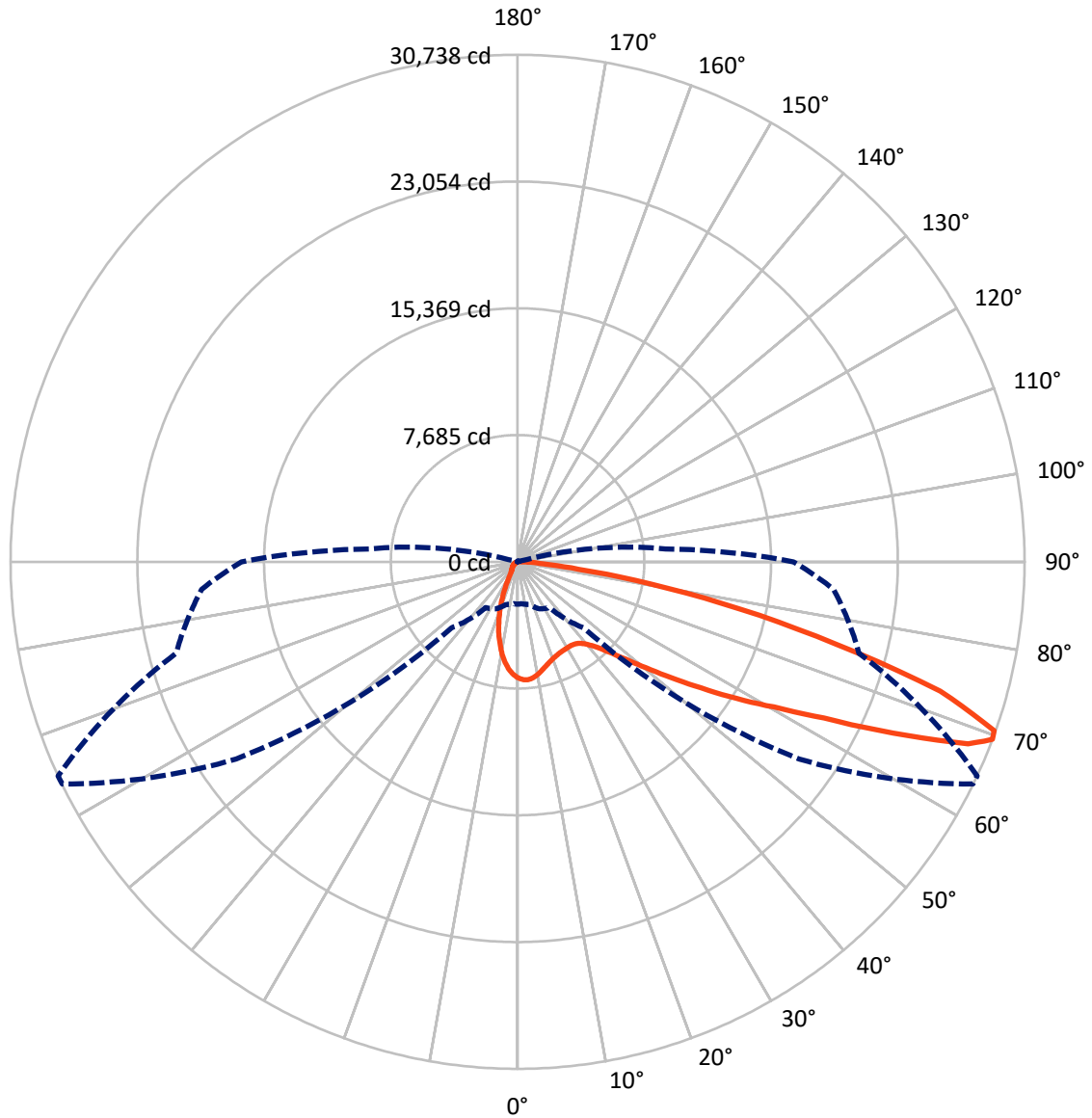
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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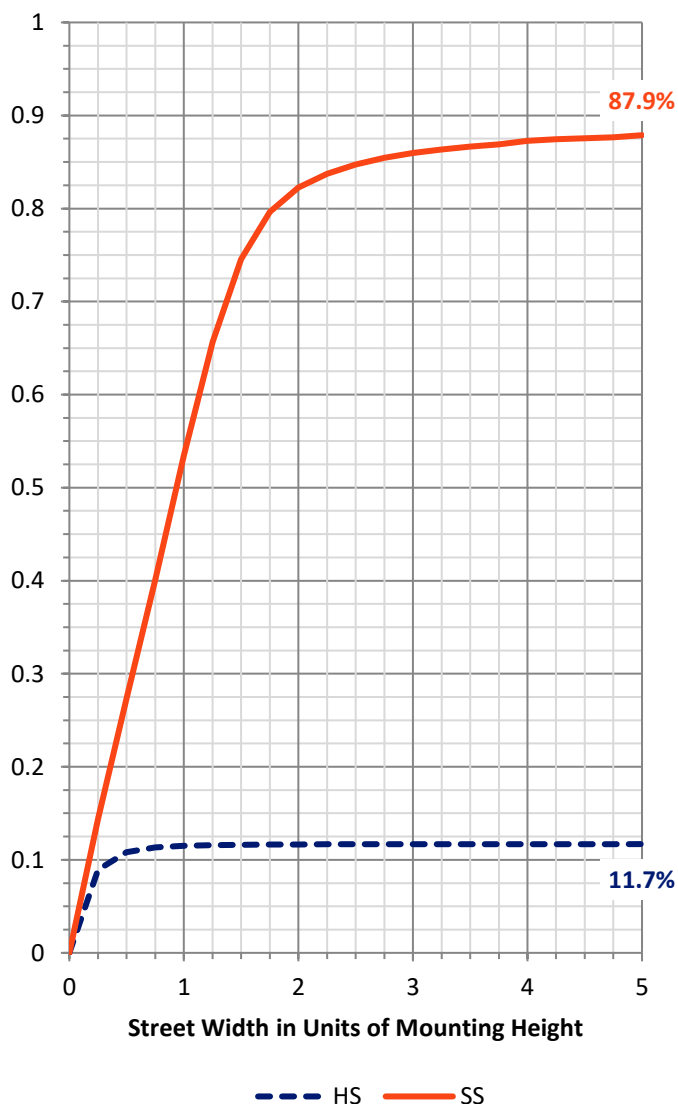
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3287.2 | 0.0 | 3287.2 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 24599.8 | 0.0 | 24599.8 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 27887.0 | 0.0 | 27887.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.3 | 2.1 |
| 10°-20° | 1290.0 | 4.6 |
| 20°-30° | 1786.7 | 6.4 |
| 30°-40° | 2491.2 | 8.9 |
| 40°-50° | 3872.1 | 13.9 |
| 50°-60° | 6216.2 | 22.3 |
| 60°-70° | 7031.6 | 25.2 |
| 70°-80° | 4129.7 | 14.8 |
| 80°-90° | 480.4 | 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° | 27887.0 | 100.0 |
| 0°-180° | 27887.0 | 100.0 |

Coefficient of Utilization

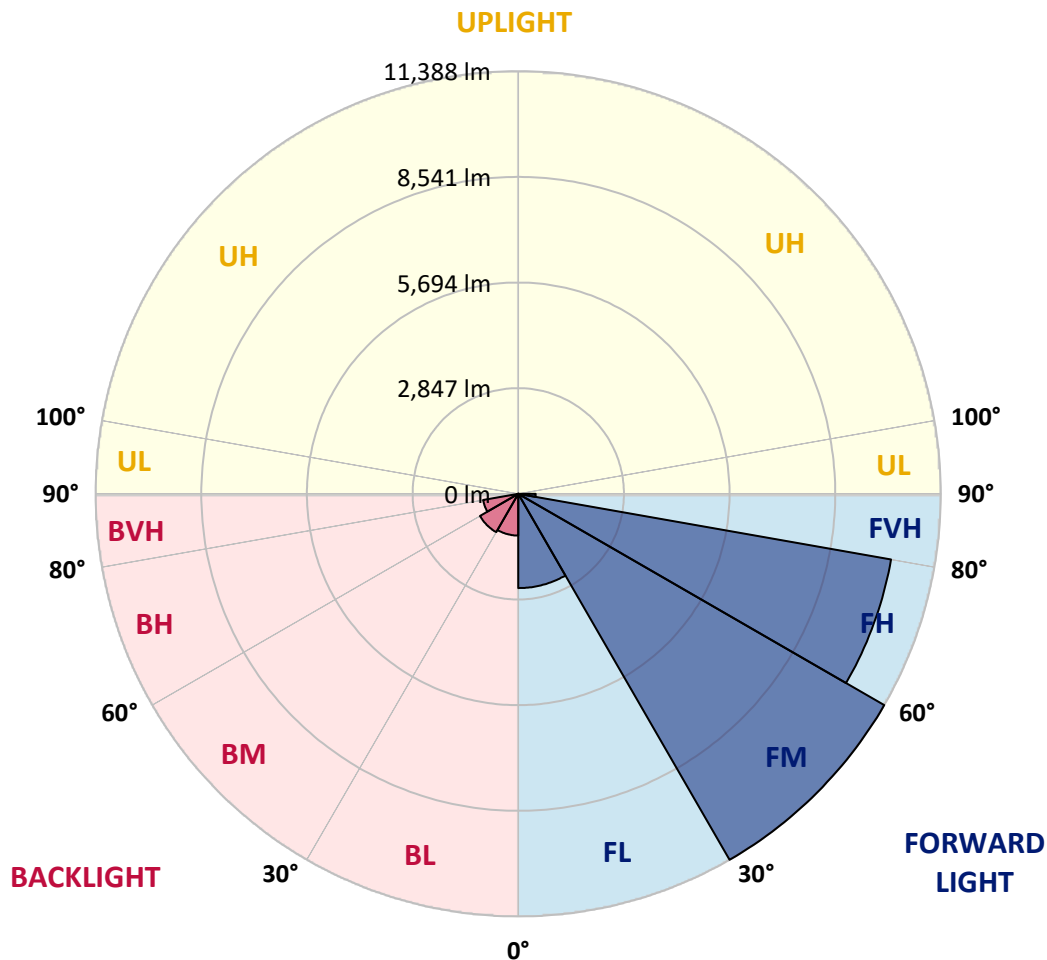


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2541.2 | 9.1 | | | |
| FM (30°-60°) | 11388.2 | 40.8 | | | |
| FH (60°-80°) | 10200.8 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 469.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1124.7 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 1191.2 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 960.5 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.8 | 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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 |
| 2.5° | 7109.6 | 7091.9 | 7106.1 | 7136.8 | 7152.1 | 7152.1 | 7163.9 | 7149.8 | 7154.5 | 7120.3 | 7070.7 |
| 5° | 6664.8 | 6637.6 | 6676.6 | 6762.7 | 6868.9 | 6959.8 | 7094.3 | 7165.1 | 7172.2 | 7173.4 | 7115.5 |
| 7.5° | 6185.7 | 6160.9 | 6218.7 | 6320.2 | 6457.1 | 6625.8 | 6860.7 | 7066.0 | 7077.8 | 7188.7 | 7146.2 |
| 10° | 5796.3 | 5778.6 | 5845.8 | 5954.4 | 6114.9 | 6303.7 | 6591.6 | 6877.2 | 6911.4 | 7156.8 | 7141.5 |
| 12.5° | 5487.1 | 5472.9 | 5536.7 | 5661.7 | 5825.8 | 6034.6 | 6335.5 | 6667.1 | 6713.1 | 7084.9 | 7117.9 |
| 15° | 5261.7 | 5259.4 | 5312.5 | 5432.8 | 5614.5 | 5809.3 | 6117.2 | 6472.4 | 6525.5 | 7007.0 | 7114.4 |
| 17.5° | 5143.7 | 5147.3 | 5186.2 | 5288.9 | 5444.6 | 5638.1 | 5933.2 | 6308.4 | 6366.2 | 6937.4 | 7132.1 |
| 20° | 5131.9 | 5135.5 | 5156.7 | 5214.5 | 5340.8 | 5511.9 | 5783.3 | 6170.3 | 6230.5 | 6885.4 | 7160.4 |
| 22.5° | 5235.8 | 5233.4 | 5239.3 | 5233.4 | 5304.2 | 5434.0 | 5684.2 | 6064.1 | 6133.8 | 6851.2 | 7182.8 |
| 25° | 5435.2 | 5431.6 | 5429.3 | 5385.6 | 5338.4 | 5408.0 | 5642.9 | 6004.0 | 6070.0 | 6826.4 | 7195.8 |
| 27.5° | 5712.5 | 5710.1 | 5706.6 | 5634.6 | 5493.0 | 5449.3 | 5647.6 | 5981.5 | 6037.0 | 6806.4 | 7193.4 |
| 30° | 6077.1 | 6093.6 | 6088.9 | 5988.6 | 5767.9 | 5575.6 | 5697.1 | 5969.7 | 6018.1 | 6767.4 | 7168.6 |
| 32.5° | 6505.5 | 6538.5 | 6564.5 | 6457.1 | 6181.0 | 5825.8 | 5811.6 | 5982.7 | 6018.1 | 6737.9 | 7123.8 |
| 35° | 6950.3 | 6992.8 | 7088.4 | 7050.6 | 6687.2 | 6202.2 | 6008.7 | 6060.6 | 6090.1 | 6754.4 | 7102.6 |
| 37.5° | 7388.1 | 7438.9 | 7646.5 | 7756.3 | 7350.4 | 6700.2 | 6315.5 | 6252.9 | 6268.3 | 6854.8 | 7126.2 |
| 40° | 7896.7 | 7973.4 | 8288.5 | 8465.5 | 8142.2 | 7366.9 | 6774.5 | 6583.3 | 6589.2 | 7075.4 | 7235.9 |
| 42.5° | 8564.6 | 8643.7 | 8984.7 | 9262.0 | 9034.3 | 8209.4 | 7397.6 | 7088.4 | 7082.5 | 7488.4 | 7494.3 |
| 45° | 9378.8 | 9461.4 | 9814.2 | 10122.2 | 10019.6 | 9207.7 | 8195.3 | 7825.9 | 7818.8 | 8139.8 | 7984.0 |
| 47.5° | 10301.6 | 10383.0 | 10698.1 | 11015.5 | 11126.4 | 10373.6 | 9211.3 | 8832.5 | 8815.9 | 9044.9 | 8740.4 |
| 50° | 11093.4 | 11146.5 | 11436.8 | 11863.9 | 12364.3 | 11806.1 | 10475.1 | 10110.4 | 10092.7 | 10247.3 | 9850.8 |
| 52.5° | 11381.3 | 11412.0 | 11707.0 | 12305.3 | 13553.7 | 13746.1 | 12135.4 | 11665.7 | 11652.7 | 11720.0 | 11329.4 |
| 55° | 10798.4 | 10853.8 | 11216.1 | 12103.5 | 14198.0 | 15938.6 | 14231.1 | 13591.5 | 13493.6 | 13348.4 | 12875.2 |
| 57.5° | 9210.1 | 9298.6 | 9688.0 | 10868.0 | 13897.1 | 17677.9 | 17310.9 | 15769.8 | 15625.9 | 14738.5 | 14131.9 |
| 60° | 6900.8 | 7009.3 | 7332.7 | 8605.9 | 12291.1 | 18297.4 | 20676.4 | 18197.1 | 17872.6 | 15845.3 | 15287.2 |
| 62.5° | 4735.4 | 4789.7 | 5009.2 | 5838.8 | 9052.0 | 17282.6 | 23491.9 | 21448.1 | 20855.7 | 17049.0 | 16536.8 |
| 65° | 3616.8 | 3635.6 | 3725.3 | 4010.9 | 5390.3 | 14038.7 | 24611.7 | 25737.5 | 25021.2 | 18488.6 | 17833.7 |
| 67.5° | 2914.7 | 2899.3 | 3023.2 | 3431.5 | 3609.7 | 8564.6 | 23305.4 | 29795.6 | 29460.4 | 20413.2 | 19138.8 |
| 69° | 2570.1 | 2548.8 | 2675.1 | 3149.5 | 3390.2 | 5661.7 | 20834.5 | 30717.2 | 30738.4 | 21429.2 | 19228.5 |
| 70° | 2312.8 | 2327.0 | 2452.1 | 2981.9 | 3315.9 | 4444.0 | 18474.4 | 30482.3 | 30649.9 | 21809.2 | 18690.4 |
| 72.5° | 1544.6 | 1582.4 | 1833.8 | 2475.7 | 3188.4 | 3363.1 | 11154.8 | 26157.6 | 26801.8 | 20953.7 | 16035.3 |
| 75° | 870.9 | 899.2 | 1197.7 | 1866.8 | 3004.3 | 3202.6 | 5891.9 | 19270.9 | 19894.0 | 17522.2 | 12365.5 |
| 77.5° | 427.2 | 442.5 | 677.3 | 1204.8 | 2512.3 | 3051.5 | 3341.8 | 13090.0 | 13801.5 | 11436.8 | 6994.0 |
| 80° | 180.5 | 188.8 | 338.7 | 743.4 | 1796.0 | 2912.3 | 2481.6 | 8056.0 | 8144.5 | 4480.5 | 1863.3 |
| 82.5° | 69.6 | 72.0 | 142.8 | 463.7 | 1141.1 | 2270.4 | 2075.7 | 3819.7 | 3727.7 | 843.7 | 424.8 |
| 85° | 8.3 | 9.4 | 51.9 | 278.5 | 634.9 | 1168.2 | 1686.3 | 1646.1 | 1523.4 | 167.6 | 218.3 |
| 87.5° | 0.0 | 0.0 | 3.5 | 85.0 | 188.8 | 547.5 | 876.8 | 683.2 | 616.0 | 54.3 | 113.3 |
| 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° | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 | 7047.1 |
| 2.5° | 7029.4 | 7017.6 | 6953.9 | 6861.8 | 6774.5 | 6665.9 | 6562.1 | 6499.6 | 6450.0 | 6417.0 | 6455.9 |
| 5° | 7048.3 | 6996.4 | 6802.8 | 6555.0 | 6311.9 | 6038.2 | 5783.3 | 5567.3 | 5482.4 | 5388.0 | 5430.5 |
| 7.5° | 7042.4 | 6944.4 | 6596.3 | 6155.0 | 5708.9 | 5247.6 | 4811.0 | 4474.6 | 4300.0 | 4128.9 | 4172.6 |
| 10° | 7012.9 | 6847.7 | 6320.2 | 5666.5 | 4998.6 | 4335.4 | 3715.9 | 3245.1 | 2981.9 | 2743.6 | 2777.8 |
| 12.5° | 6948.0 | 6717.9 | 5994.5 | 5107.1 | 4213.9 | 3339.5 | 2613.7 | 2010.8 | 1687.4 | 1544.6 | 1562.3 |
| 15° | 6909.0 | 6591.6 | 5649.9 | 4540.7 | 3376.0 | 2325.8 | 1597.8 | 1188.3 | 1040.8 | 993.6 | 999.5 |
| 17.5° | 6890.2 | 6470.1 | 5293.6 | 3892.9 | 2519.3 | 1480.9 | 1032.5 | 911.0 | 879.1 | 870.9 | 873.2 |
| 20° | 6871.3 | 6347.3 | 4926.6 | 3252.1 | 1735.8 | 995.9 | 848.4 | 813.0 | 801.2 | 790.6 | 793.0 |
| 22.5° | 6839.4 | 6229.3 | 4532.5 | 2603.1 | 1170.6 | 808.3 | 764.7 | 730.4 | 705.7 | 692.7 | 695.0 |
| 25° | 6800.5 | 6105.4 | 4130.1 | 1938.8 | 854.3 | 721.0 | 679.7 | 631.3 | 601.8 | 578.2 | 579.4 |
| 27.5° | 6737.9 | 5953.2 | 3714.7 | 1411.3 | 717.5 | 645.5 | 590.0 | 536.9 | 487.3 | 460.2 | 460.2 |
| 30° | 6650.6 | 5780.9 | 3253.3 | 1010.1 | 643.1 | 571.1 | 503.9 | 437.8 | 384.7 | 359.9 | 357.5 |
| 32.5° | 6553.8 | 5601.6 | 2787.2 | 765.8 | 584.1 | 501.5 | 424.8 | 355.2 | 308.0 | 287.9 | 286.7 |
| 35° | 6471.2 | 5408.0 | 2322.3 | 641.9 | 525.1 | 434.2 | 350.5 | 291.5 | 253.7 | 237.2 | 236.0 |
| 37.5° | 6418.1 | 5214.5 | 1869.2 | 573.5 | 472.0 | 371.7 | 293.8 | 240.7 | 213.6 | 200.6 | 199.4 |
| 40° | 6409.9 | 5070.6 | 1455.0 | 521.6 | 422.4 | 316.2 | 245.4 | 204.1 | 179.4 | 165.2 | 164.0 |
| 42.5° | 6517.3 | 4988.0 | 1116.3 | 477.9 | 371.7 | 267.9 | 208.9 | 174.6 | 148.7 | 134.5 | 133.3 |
| 45° | 6799.3 | 5013.9 | 859.1 | 439.0 | 321.0 | 226.6 | 177.0 | 145.1 | 121.5 | 110.9 | 108.6 |
| 47.5° | 7313.8 | 5193.3 | 683.2 | 400.0 | 272.6 | 192.3 | 151.0 | 120.4 | 100.3 | 89.7 | 88.5 |
| 50° | 8229.5 | 5614.5 | 571.1 | 357.5 | 227.7 | 164.0 | 125.1 | 97.9 | 81.4 | 72.0 | 70.8 |
| 52.5° | 9444.9 | 6365.0 | 509.8 | 316.2 | 188.8 | 139.2 | 102.7 | 77.9 | 63.7 | 56.6 | 55.5 |
| 55° | 10785.4 | 7273.7 | 469.6 | 271.4 | 154.6 | 115.6 | 81.4 | 61.4 | 49.6 | 43.7 | 41.3 |
| 57.5° | 12094.0 | 8060.7 | 431.9 | 227.7 | 128.6 | 94.4 | 64.9 | 48.4 | 38.9 | 33.0 | 31.9 |
| 60° | 13296.5 | 8784.1 | 388.2 | 182.9 | 105.0 | 74.3 | 50.7 | 37.8 | 30.7 | 24.8 | 24.8 |
| 62.5° | 14583.9 | 9343.4 | 328.0 | 142.8 | 86.1 | 56.6 | 41.3 | 34.2 | 24.8 | 21.2 | 20.1 |
| 65° | 15948.0 | 9758.8 | 257.2 | 110.9 | 67.3 | 42.5 | 34.2 | 35.4 | 20.1 | 15.3 | 14.2 |
| 67.5° | 16955.7 | 9676.2 | 190.0 | 87.3 | 51.9 | 33.0 | 33.0 | 37.8 | 17.7 | 11.8 | 10.6 |
| 69° | 16733.9 | 9004.8 | 159.3 | 75.5 | 44.8 | 28.3 | 30.7 | 37.8 | 16.5 | 10.6 | 9.4 |
| 70° | 16090.8 | 8261.3 | 140.4 | 67.3 | 40.1 | 26.0 | 29.5 | 36.6 | 15.3 | 10.6 | 9.4 |
| 72.5° | 13400.3 | 6222.3 | 109.7 | 50.7 | 31.9 | 21.2 | 24.8 | 31.9 | 15.3 | 10.6 | 8.3 |
| 75° | 10079.8 | 3982.6 | 83.8 | 36.6 | 23.6 | 16.5 | 18.9 | 23.6 | 15.3 | 9.4 | 8.3 |
| 77.5° | 5484.7 | 1436.1 | 60.2 | 24.8 | 16.5 | 13.0 | 13.0 | 17.7 | 14.2 | 7.1 | 4.7 |
| 80° | 1410.1 | 361.1 | 37.8 | 16.5 | 13.0 | 9.4 | 8.3 | 11.8 | 8.3 | 1.2 | 0.0 |
| 82.5° | 348.1 | 81.4 | 20.1 | 11.8 | 9.4 | 3.5 | 3.5 | 5.9 | 3.5 | 0.0 | 0.0 |
| 85° | 191.2 | 40.1 | 13.0 | 8.3 | 4.7 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 97.9 | 11.8 | 3.5 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)