

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: P652057

Luminaire Tested: **GALN-SA8A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31000.1 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

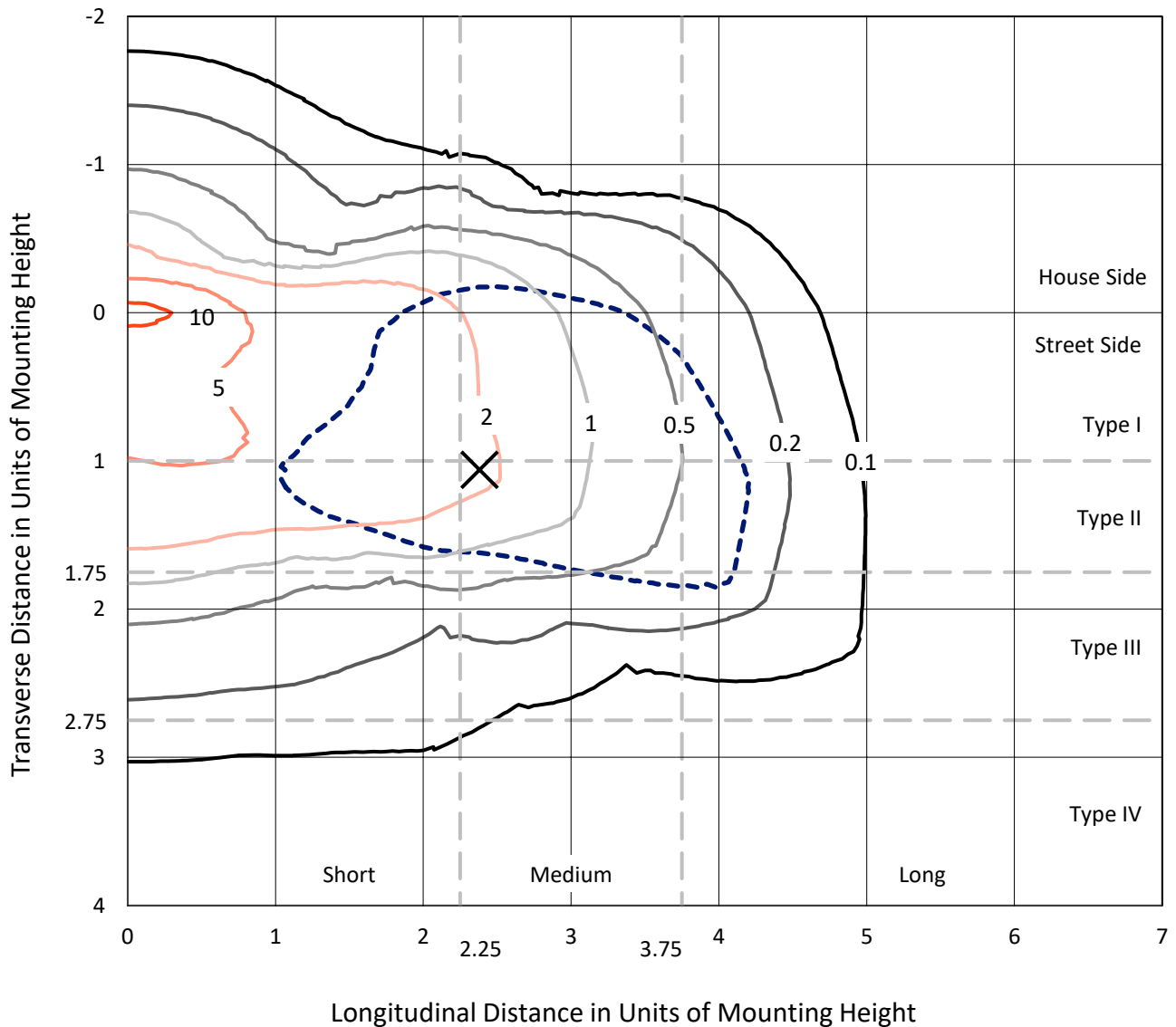
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

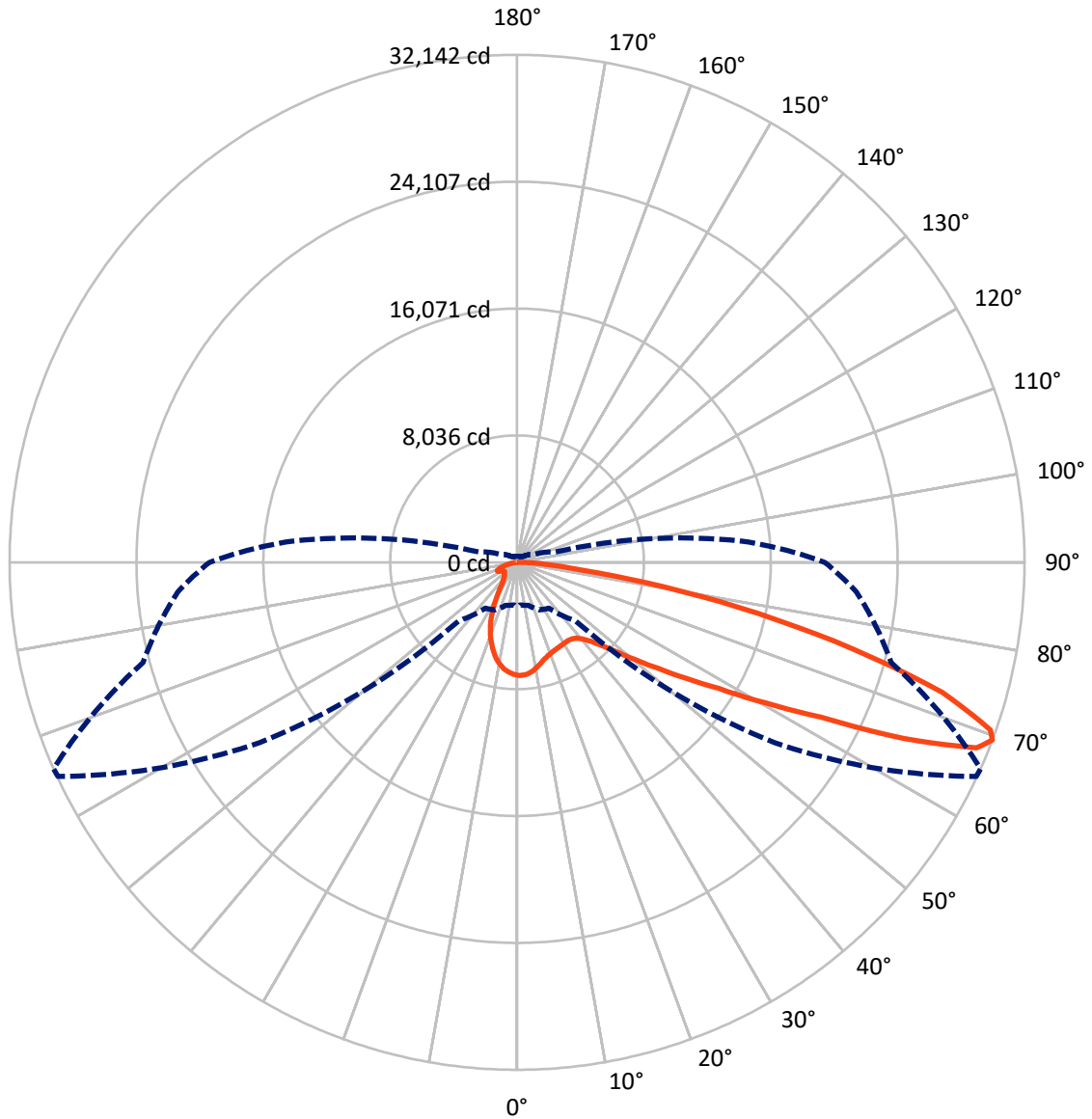
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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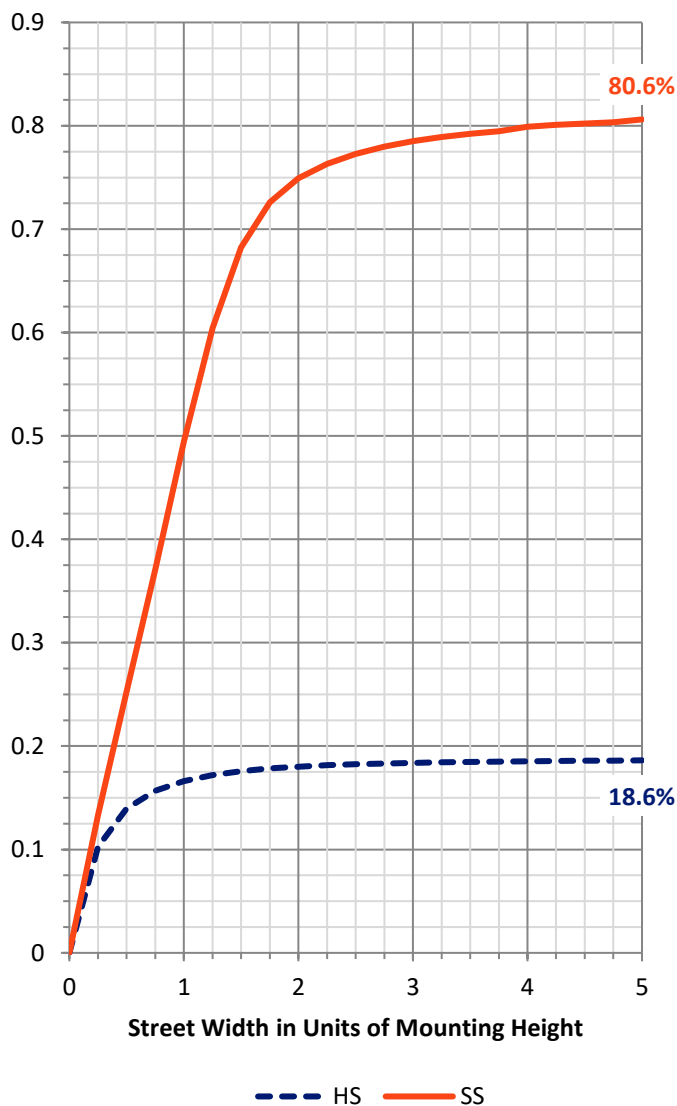
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5830.0 | 0.0 | 5830.0 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 25170.1 | 0.0 | 25170.1 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 31000.1 | 0.0 | 31000.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 621.7 | 2.0 |
| 10°-20° | 1474.5 | 4.8 |
| 20°-30° | 2007.4 | 6.5 |
| 30°-40° | 2697.5 | 8.7 |
| 40°-50° | 4027.8 | 13.0 |
| 50°-60° | 6406.9 | 20.7 |
| 60°-70° | 7880.1 | 25.4 |
| 70°-80° | 5127.2 | 16.5 |
| 80°-90° | 757.1 | 2.4 |
| 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° | 31000.1 | 100.0 |
| 0°-180° | 31000.1 | 100.0 |

Coefficient of Utilization

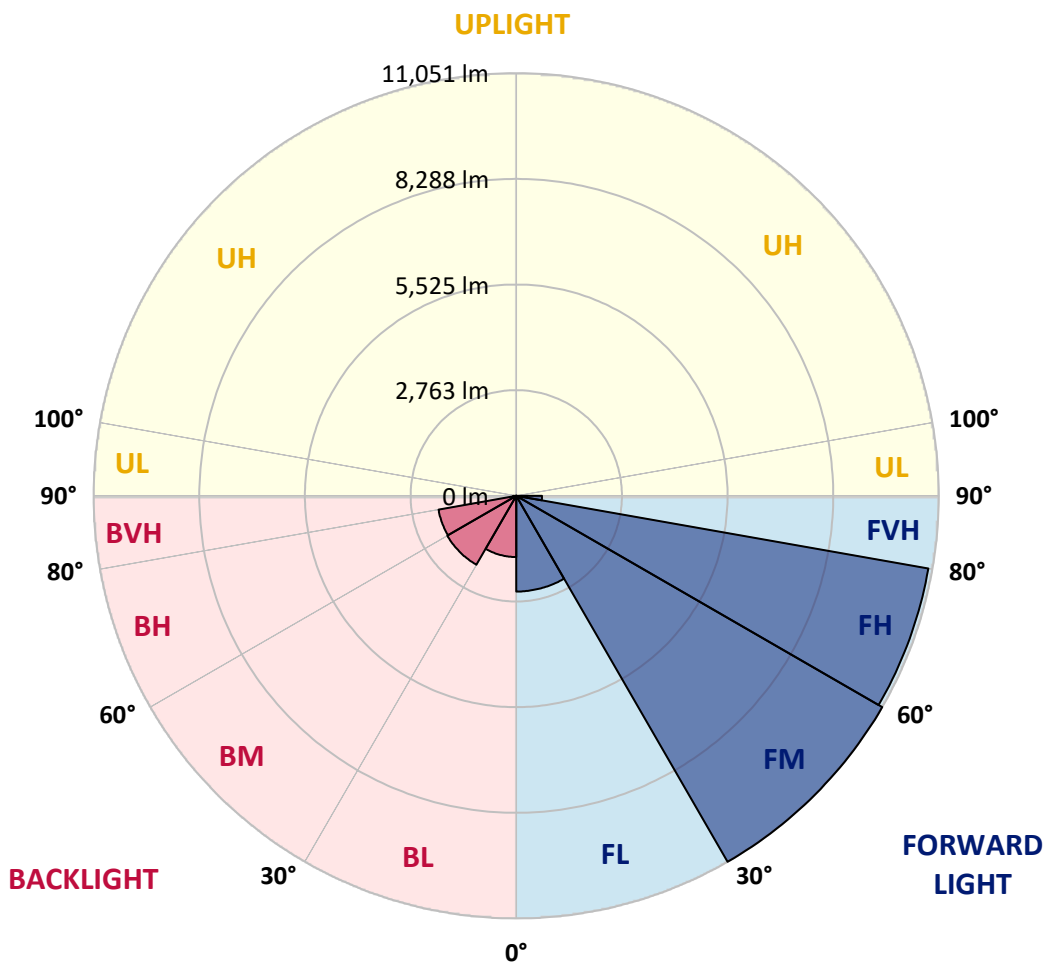


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2503.2 | 8.1 | | | |
| FM (30°-60°) | 11050.6 | 35.6 | | | |
| FH (60°-80°) | 10943.2 | 35.3 | | | G4/12000 |
| FVH (80°-90°) | 673.1 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1600.3 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 2081.5 | 6.7 | B2/2500 | | |
| BH (60°-80°) | 2064.1 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.0 | 0.3 | | | 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° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 |
| 2.5° | 6908.1 | 6935.6 | 6966.5 | 7000.8 | 7066.1 | 7102.2 | 7127.9 | 7157.1 | 7160.5 | 7175.9 | 7164.0 |
| 5° | 6398.2 | 6430.9 | 6477.2 | 6542.5 | 6640.4 | 6793.1 | 6951.0 | 7079.8 | 7095.3 | 7167.3 | 7187.9 |
| 7.5° | 5972.5 | 5991.4 | 6029.2 | 6133.9 | 6272.9 | 6442.9 | 6672.9 | 6933.9 | 6971.6 | 7143.4 | 7203.4 |
| 10° | 5625.7 | 5644.6 | 5689.3 | 5797.4 | 5934.8 | 6147.6 | 6400.0 | 6743.3 | 6774.3 | 7069.5 | 7206.9 |
| 12.5° | 5366.5 | 5383.7 | 5431.8 | 5538.2 | 5696.1 | 5895.2 | 6173.4 | 6537.3 | 6582.0 | 6971.6 | 7174.2 |
| 15° | 5169.1 | 5201.7 | 5241.2 | 5328.7 | 5495.3 | 5687.5 | 5957.1 | 6348.5 | 6384.5 | 6868.6 | 7151.9 |
| 17.5° | 5084.9 | 5100.4 | 5127.9 | 5208.6 | 5330.4 | 5519.3 | 5790.5 | 6200.9 | 6243.8 | 6796.5 | 7146.7 |
| 20° | 5088.4 | 5103.9 | 5109.0 | 5153.6 | 5241.2 | 5404.3 | 5672.1 | 6084.1 | 6135.6 | 6733.0 | 7155.3 |
| 22.5° | 5205.1 | 5206.9 | 5188.0 | 5172.5 | 5206.9 | 5342.5 | 5587.9 | 5996.6 | 6056.6 | 6705.5 | 7162.2 |
| 25° | 5385.4 | 5416.3 | 5388.8 | 5316.7 | 5253.2 | 5318.5 | 5555.4 | 5948.5 | 6005.2 | 6666.1 | 7153.6 |
| 27.5° | 5677.3 | 5682.4 | 5660.1 | 5562.2 | 5397.5 | 5349.3 | 5541.6 | 5912.4 | 5960.5 | 6636.9 | 7110.7 |
| 30° | 6068.7 | 6053.2 | 6032.6 | 5924.4 | 5665.2 | 5467.8 | 5570.8 | 5879.9 | 5929.6 | 6593.9 | 7059.2 |
| 32.5° | 6465.2 | 6513.3 | 6494.4 | 6367.4 | 6030.9 | 5697.9 | 5665.2 | 5876.4 | 5917.6 | 6561.4 | 7002.6 |
| 35° | 6885.9 | 6908.1 | 6997.4 | 6932.2 | 6587.1 | 6070.3 | 5842.1 | 5929.6 | 5962.2 | 6563.1 | 6963.1 |
| 37.5° | 7215.4 | 7275.5 | 7485.0 | 7541.6 | 7217.1 | 6563.1 | 6128.7 | 6080.7 | 6094.4 | 6647.2 | 6978.5 |
| 40° | 7613.7 | 7716.8 | 7986.2 | 8218.0 | 8005.1 | 7203.4 | 6616.3 | 6360.5 | 6377.6 | 6849.8 | 7079.8 |
| 42.5° | 8118.4 | 8190.6 | 8552.8 | 8866.9 | 8832.6 | 8049.8 | 7206.9 | 6818.9 | 6827.5 | 7253.2 | 7363.0 |
| 45° | 8709.0 | 8812.0 | 9218.9 | 9690.9 | 9771.7 | 9007.7 | 8060.1 | 7512.4 | 7507.3 | 7879.8 | 7891.9 |
| 47.5° | 9464.4 | 9527.9 | 9931.3 | 10446.3 | 10772.5 | 10211.2 | 9095.2 | 8508.1 | 8453.2 | 8793.1 | 8695.3 |
| 50° | 10159.6 | 10259.2 | 10564.8 | 11127.9 | 11939.9 | 11620.6 | 10456.7 | 9799.2 | 9670.4 | 9988.0 | 9823.1 |
| 52.5° | 10451.4 | 10556.2 | 10813.7 | 11512.4 | 12940.7 | 13443.7 | 12185.4 | 11339.0 | 11124.4 | 11368.2 | 11308.2 |
| 55° | 9945.1 | 10080.6 | 10321.0 | 11170.8 | 13380.2 | 15546.7 | 14516.7 | 13119.3 | 12963.1 | 12858.4 | 12875.5 |
| 57.5° | 8583.7 | 8712.4 | 9036.9 | 9974.3 | 12854.9 | 17072.9 | 17845.4 | 15407.7 | 15072.9 | 14590.5 | 14672.9 |
| 60° | 6533.9 | 6614.5 | 6782.8 | 7821.5 | 11297.8 | 17469.5 | 21625.7 | 18300.4 | 18087.6 | 16315.8 | 16374.2 |
| 62.5° | 4640.3 | 4731.3 | 4848.0 | 5366.5 | 8271.2 | 16351.9 | 24585.4 | 22339.9 | 21579.4 | 18102.9 | 18046.3 |
| 65° | 3768.3 | 3706.5 | 3847.2 | 4089.3 | 4853.2 | 12672.9 | 25251.4 | 27946.8 | 26899.6 | 20456.7 | 19670.3 |
| 67.5° | 3098.7 | 3033.5 | 3172.5 | 3603.4 | 3691.0 | 7356.2 | 22851.5 | 31586.2 | 31376.8 | 23016.2 | 21320.1 |
| 69° | 2743.3 | 2709.0 | 2830.9 | 3321.9 | 3543.3 | 5224.0 | 19907.2 | 32092.6 | 32142.4 | 24525.2 | 21574.2 |
| 70° | 2472.1 | 2485.8 | 2604.3 | 3179.4 | 3476.4 | 4307.3 | 17014.5 | 31393.9 | 31816.2 | 25278.9 | 21299.5 |
| 72.5° | 1819.8 | 1848.9 | 2013.7 | 2633.5 | 3412.9 | 3654.9 | 10125.3 | 27421.4 | 28168.2 | 25323.5 | 19485.0 |
| 75° | 1272.1 | 1258.4 | 1404.3 | 1982.8 | 3224.1 | 3622.3 | 5946.8 | 21206.8 | 22053.2 | 21888.4 | 16372.5 |
| 77.5° | 832.6 | 855.0 | 971.7 | 1400.9 | 2712.5 | 3594.9 | 3876.4 | 15045.5 | 15594.8 | 14638.6 | 9684.1 |
| 80° | 587.1 | 585.4 | 650.7 | 956.2 | 2012.0 | 3454.1 | 3174.3 | 9483.3 | 9344.2 | 5752.8 | 2872.1 |
| 82.5° | 336.5 | 360.5 | 436.1 | 673.0 | 1345.9 | 3040.3 | 2920.2 | 4535.6 | 4140.7 | 1639.4 | 969.9 |
| 85° | 187.1 | 195.7 | 259.2 | 406.9 | 786.3 | 2290.1 | 2549.3 | 2063.5 | 1946.7 | 685.0 | 417.1 |
| 87.5° | 60.0 | 65.3 | 108.2 | 206.0 | 357.1 | 1081.5 | 1443.7 | 952.8 | 878.9 | 247.2 | 168.2 |
| 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° | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 | 7158.8 |
| 2.5° | 7169.1 | 7189.7 | 7134.8 | 7081.6 | 7033.5 | 6966.5 | 6906.5 | 6856.7 | 6822.3 | 6817.1 | 6800.0 |
| 5° | 7193.2 | 7194.8 | 7090.1 | 6949.4 | 6812.0 | 6661.0 | 6504.7 | 6393.1 | 6288.4 | 6230.0 | 6200.9 |
| 7.5° | 7210.3 | 7194.8 | 7006.0 | 6777.7 | 6513.3 | 6238.6 | 5964.0 | 5744.2 | 5574.2 | 5507.3 | 5533.0 |
| 10° | 7203.4 | 7155.3 | 6879.0 | 6513.3 | 6128.7 | 5718.5 | 5323.6 | 5014.5 | 4731.3 | 4585.4 | 4588.8 |
| 12.5° | 7165.7 | 7086.7 | 6690.2 | 6216.3 | 5651.5 | 5102.1 | 4497.8 | 4080.7 | 3752.8 | 3558.8 | 3498.7 |
| 15° | 7133.0 | 6995.7 | 6468.6 | 5812.8 | 5110.8 | 4326.2 | 3589.7 | 3074.7 | 2800.0 | 2647.2 | 2645.4 |
| 17.5° | 7098.7 | 6908.1 | 6226.6 | 5385.4 | 4489.3 | 3479.8 | 2707.3 | 2314.2 | 2185.4 | 2200.8 | 2175.1 |
| 20° | 7062.6 | 6805.1 | 5974.2 | 4909.8 | 3732.2 | 2595.7 | 2027.5 | 1867.8 | 1903.9 | 1974.2 | 1984.5 |
| 22.5° | 7021.4 | 6695.3 | 5703.0 | 4386.2 | 2935.6 | 1953.6 | 1644.7 | 1620.6 | 1713.3 | 1823.2 | 1838.6 |
| 25° | 6957.9 | 6557.9 | 5361.4 | 3838.7 | 2264.4 | 1574.3 | 1440.4 | 1457.5 | 1548.5 | 1641.2 | 1651.5 |
| 27.5° | 6868.6 | 6388.0 | 5016.3 | 3155.3 | 1701.3 | 1351.1 | 1316.8 | 1339.0 | 1383.7 | 1440.4 | 1454.1 |
| 30° | 6748.5 | 6195.7 | 4619.7 | 2564.8 | 1363.1 | 1239.5 | 1225.8 | 1237.8 | 1263.5 | 1287.6 | 1294.4 |
| 32.5° | 6628.3 | 6010.3 | 4219.7 | 1963.9 | 1215.4 | 1165.6 | 1151.9 | 1151.9 | 1151.9 | 1155.4 | 1157.0 |
| 35° | 6516.7 | 5835.2 | 3790.6 | 1529.6 | 1138.2 | 1107.3 | 1088.4 | 1067.8 | 1064.4 | 1052.3 | 1052.3 |
| 37.5° | 6454.9 | 5675.5 | 3333.9 | 1280.7 | 1081.5 | 1059.2 | 1033.5 | 999.1 | 980.3 | 982.0 | 978.5 |
| 40° | 6467.0 | 5570.8 | 2918.4 | 1139.9 | 1035.2 | 1011.1 | 971.7 | 932.2 | 920.1 | 920.1 | 916.8 |
| 42.5° | 6602.5 | 5536.5 | 2520.1 | 1066.1 | 990.5 | 963.1 | 913.3 | 877.2 | 870.4 | 868.7 | 872.1 |
| 45° | 6915.0 | 5620.6 | 2163.1 | 1018.0 | 952.8 | 911.6 | 861.8 | 829.1 | 822.3 | 822.3 | 820.6 |
| 47.5° | 7524.4 | 5893.6 | 1907.3 | 987.1 | 925.4 | 872.1 | 820.6 | 788.0 | 776.0 | 772.5 | 772.5 |
| 50° | 8472.1 | 6485.8 | 1716.7 | 959.7 | 891.0 | 836.0 | 782.8 | 745.0 | 726.2 | 724.4 | 722.8 |
| 52.5° | 9788.8 | 7409.5 | 1642.9 | 939.1 | 853.2 | 798.3 | 739.9 | 703.8 | 679.9 | 674.7 | 671.2 |
| 55° | 11328.8 | 8698.7 | 1744.2 | 923.6 | 813.8 | 755.4 | 695.3 | 657.5 | 635.2 | 624.9 | 623.2 |
| 57.5° | 13112.5 | 10247.2 | 2128.7 | 903.0 | 777.7 | 709.0 | 650.7 | 612.8 | 588.9 | 576.8 | 573.4 |
| 60° | 14714.1 | 11838.6 | 2800.0 | 891.0 | 746.8 | 659.3 | 599.1 | 564.8 | 542.5 | 530.5 | 528.7 |
| 62.5° | 16473.8 | 13356.2 | 3601.8 | 923.6 | 733.0 | 611.2 | 551.1 | 520.2 | 501.3 | 489.3 | 489.3 |
| 65° | 18353.6 | 14875.5 | 4132.2 | 1033.5 | 753.6 | 573.4 | 499.6 | 473.8 | 456.7 | 448.1 | 446.3 |
| 67.5° | 19620.5 | 15400.8 | 3404.3 | 1146.8 | 805.2 | 532.2 | 449.8 | 429.2 | 418.9 | 410.3 | 410.3 |
| 69° | 19483.2 | 14736.4 | 2511.6 | 1176.0 | 820.6 | 511.6 | 422.4 | 406.9 | 393.2 | 389.7 | 386.3 |
| 70° | 19048.9 | 13979.4 | 2104.7 | 1157.0 | 808.6 | 492.7 | 405.1 | 386.3 | 374.2 | 370.8 | 369.1 |
| 72.5° | 16966.5 | 12123.6 | 1567.4 | 1006.0 | 688.4 | 427.5 | 358.8 | 341.6 | 331.4 | 326.1 | 326.1 |
| 75° | 14096.1 | 9909.0 | 1224.0 | 800.0 | 539.1 | 360.5 | 307.3 | 293.6 | 285.0 | 281.6 | 279.8 |
| 77.5° | 7900.4 | 5533.0 | 878.9 | 626.6 | 408.6 | 291.8 | 257.5 | 245.5 | 236.9 | 233.5 | 233.5 |
| 80° | 2200.8 | 1581.1 | 516.7 | 413.8 | 278.1 | 221.4 | 204.3 | 195.7 | 183.7 | 175.1 | 180.2 |
| 82.5° | 829.1 | 685.0 | 295.3 | 248.9 | 176.9 | 147.7 | 142.5 | 135.7 | 130.4 | 118.4 | 118.4 |
| 85° | 403.4 | 333.0 | 188.8 | 132.2 | 97.9 | 77.3 | 73.8 | 70.4 | 66.9 | 58.4 | 60.0 |
| 87.5° | 139.0 | 147.7 | 82.4 | 48.1 | 29.2 | 18.9 | 15.5 | 8.6 | 8.6 | 8.6 | 8.6 |
| 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)