

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: P319800

Luminaire Tested: **GLEON-SA6B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25128 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

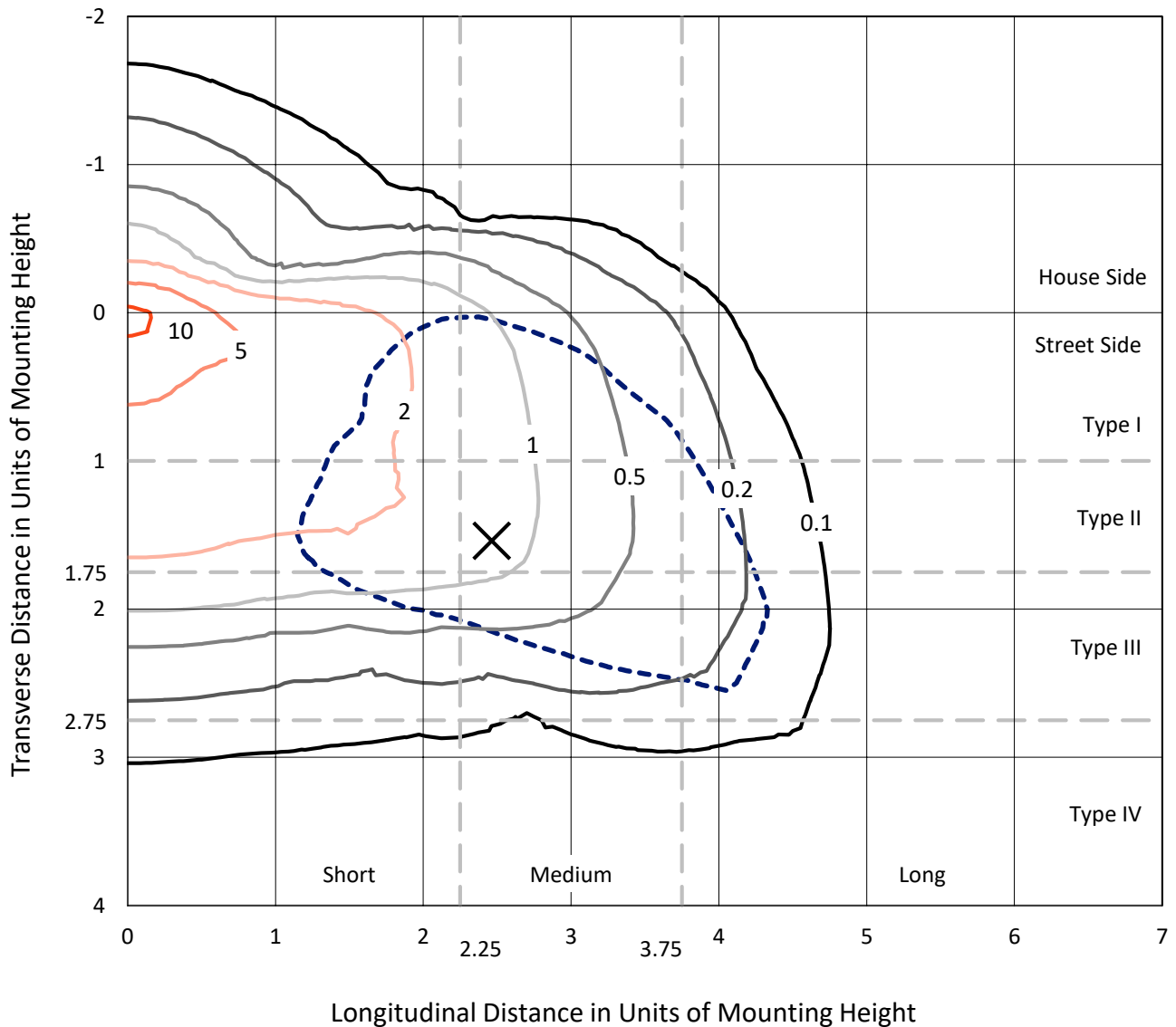
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

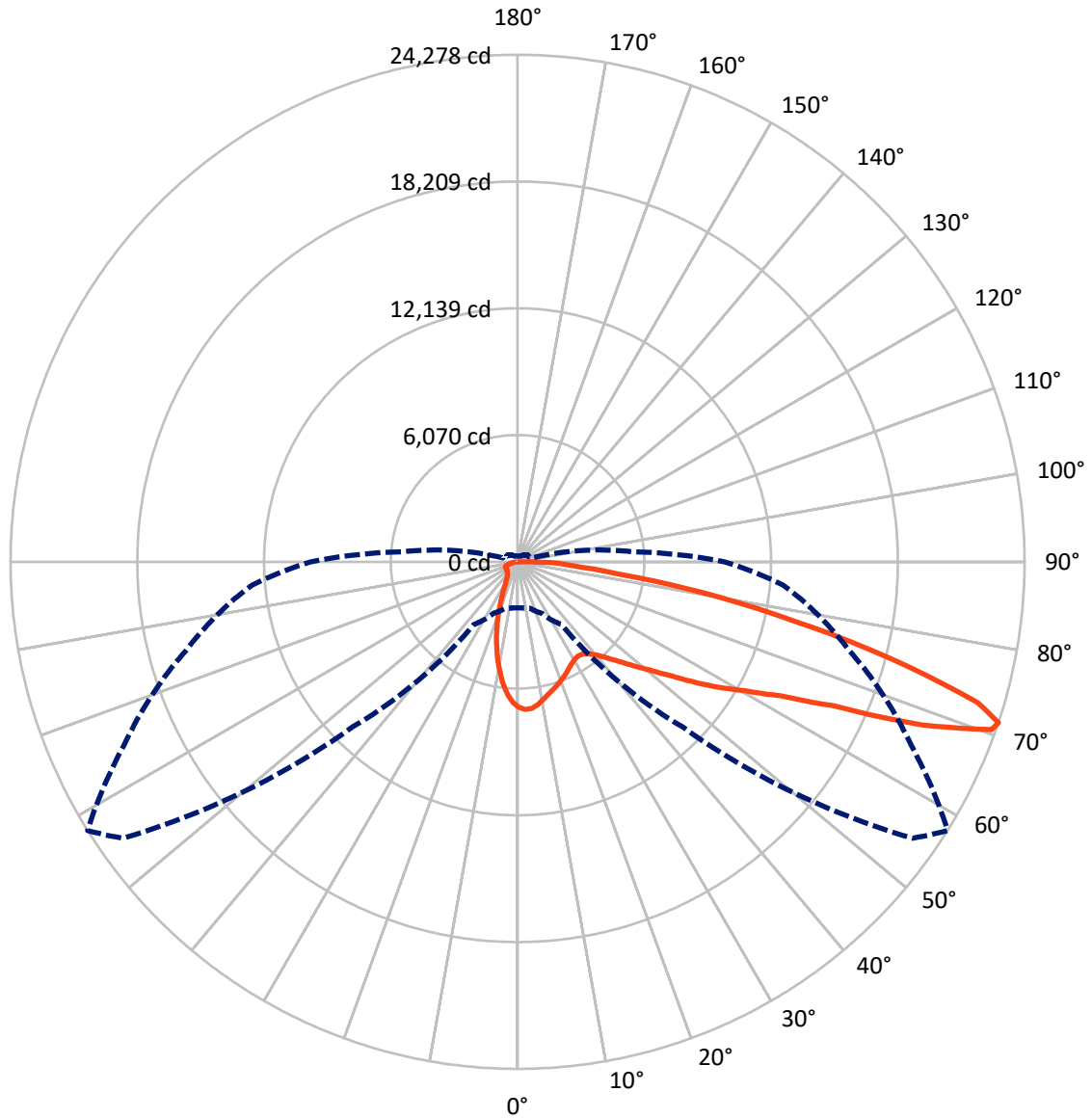
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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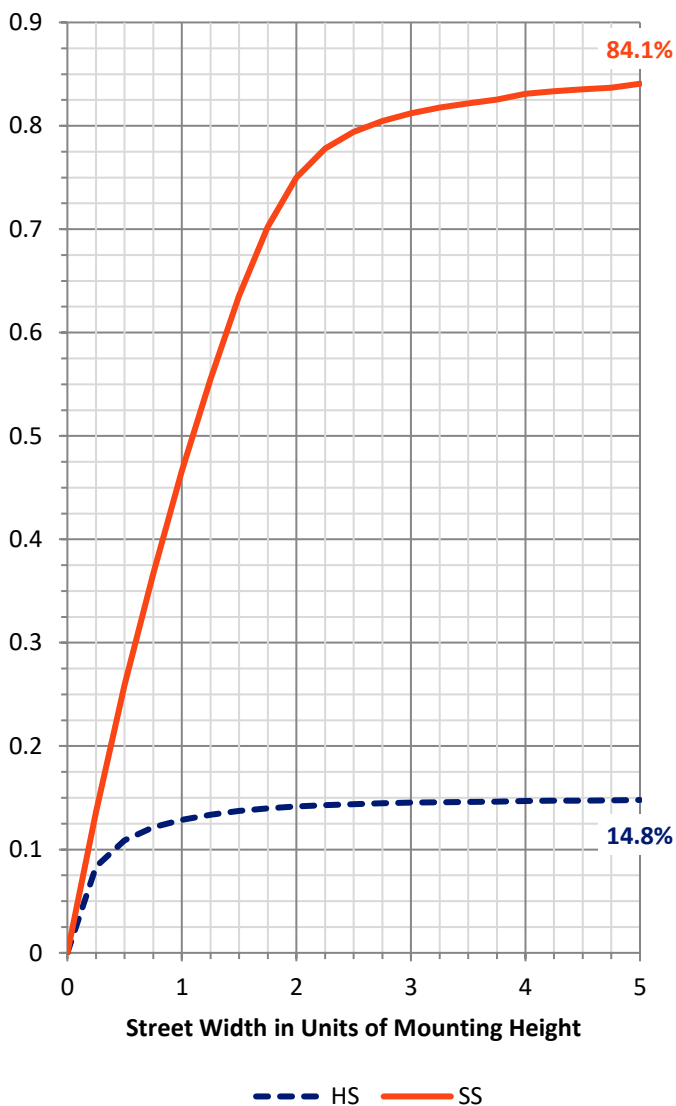
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3756.8 | 0.0 | 3756.8 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 21371.2 | 0.0 | 21371.2 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 25128.0 | 0.0 | 25128.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 600.6 | 2.4 |
| 10°-20° | 1335.6 | 5.3 |
| 20°-30° | 1697.4 | 6.8 |
| 30°-40° | 2162.1 | 8.6 |
| 40°-50° | 3066.0 | 12.2 |
| 50°-60° | 4744.7 | 18.9 |
| 60°-70° | 6459.3 | 25.7 |
| 70°-80° | 4309.1 | 17.1 |
| 80°-90° | 753.4 | 3.0 |
| 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° | 25128.0 | 100.0 |
| 0°-180° | 25128.0 | 100.0 |

Coefficient of Utilization

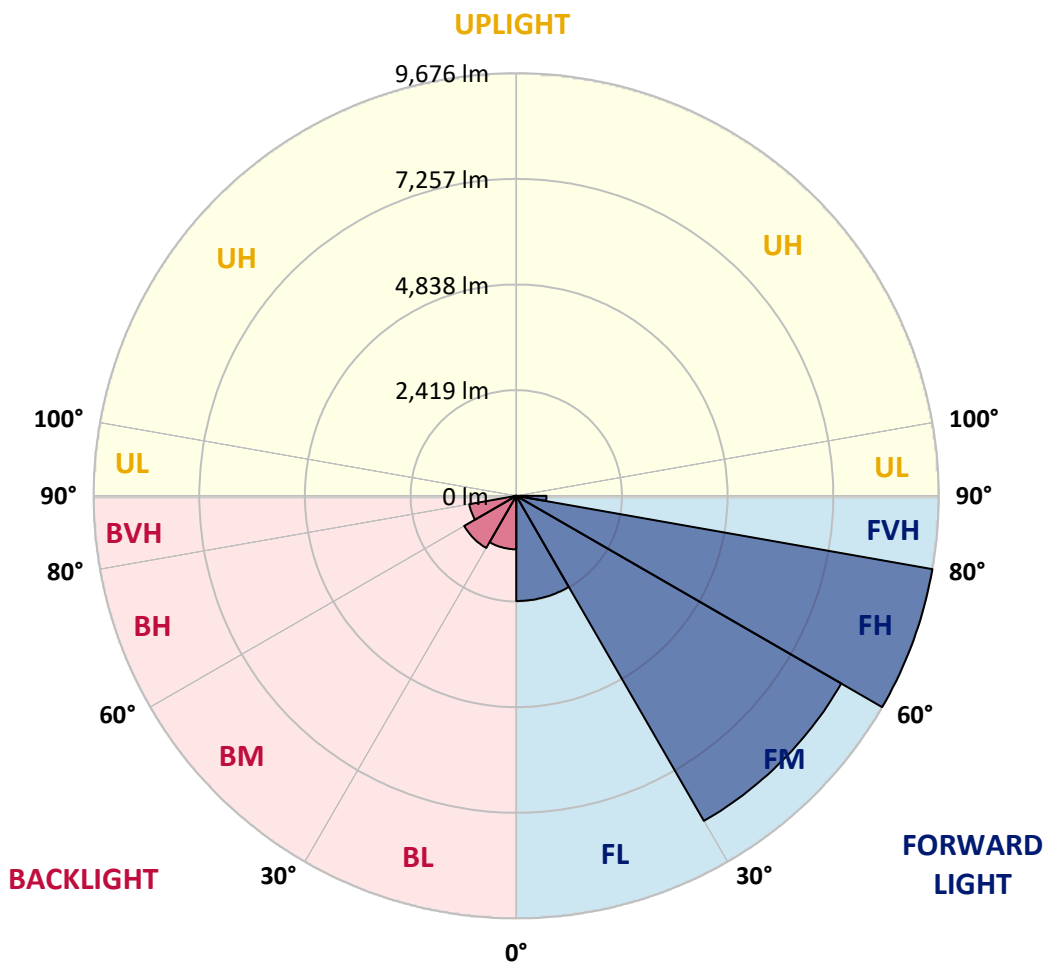


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2408.9 | 9.6 | | | |
| FM (30°-60°) | 8595.0 | 34.2 | | | |
| FH (60°-80°) | 9676.5 | 38.5 | | | G4/12000 |
| FVH (80°-90°) | 690.8 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1224.6 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1377.7 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 1091.9 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 62.6 | 0.2 | | | 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° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 |
| 2.5° | 7146.8 | 7137.2 | 7140.7 | 7133.7 | 7117.1 | 7100.4 | 7075.9 | 7080.3 | 7046.2 | 6995.4 | 6932.4 |
| 5° | 7012.0 | 7008.5 | 7034.8 | 7049.7 | 7061.9 | 7052.3 | 7045.3 | 7054.0 | 7004.2 | 6934.1 | 6824.7 |
| 7.5° | 6729.3 | 6690.8 | 6724.1 | 6773.9 | 6821.2 | 6857.1 | 6904.4 | 6910.5 | 6879.0 | 6805.5 | 6661.9 |
| 10° | 6327.5 | 6290.8 | 6339.8 | 6417.7 | 6512.2 | 6598.0 | 6693.4 | 6710.9 | 6717.1 | 6650.5 | 6476.3 |
| 12.5° | 5910.9 | 5882.9 | 5931.9 | 6041.3 | 6198.0 | 6330.2 | 6482.5 | 6508.7 | 6563.0 | 6518.4 | 6304.8 |
| 15° | 5538.0 | 5527.5 | 5587.0 | 5694.7 | 5875.0 | 6077.2 | 6296.9 | 6345.0 | 6437.0 | 6422.1 | 6170.9 |
| 17.5° | 5215.9 | 5213.3 | 5258.8 | 5371.7 | 5571.3 | 5826.9 | 6112.2 | 6193.6 | 6330.2 | 6347.7 | 6060.6 |
| 20° | 4976.1 | 4970.8 | 5002.3 | 5085.5 | 5291.2 | 5580.9 | 5912.7 | 6024.7 | 6221.6 | 6282.9 | 5946.8 |
| 22.5° | 4847.4 | 4846.5 | 4847.4 | 4886.8 | 5054.9 | 5324.4 | 5718.3 | 5854.9 | 6115.7 | 6231.3 | 5820.7 |
| 25° | 4825.5 | 4822.9 | 4803.6 | 4799.3 | 4894.7 | 5110.0 | 5525.8 | 5676.3 | 6015.1 | 6195.4 | 5700.8 |
| 27.5° | 4882.4 | 4885.9 | 4860.5 | 4819.4 | 4838.7 | 4969.1 | 5358.6 | 5519.6 | 5934.5 | 6188.4 | 5617.7 |
| 30° | 5000.6 | 4998.8 | 4977.0 | 4934.1 | 4896.4 | 4916.6 | 5239.5 | 5400.6 | 5880.3 | 6219.0 | 5560.8 |
| 32.5° | 5131.0 | 5140.6 | 5136.3 | 5112.6 | 5056.6 | 4976.1 | 5203.7 | 5361.2 | 5864.5 | 6292.5 | 5536.3 |
| 35° | 5287.7 | 5298.2 | 5329.7 | 5348.1 | 5282.4 | 5152.9 | 5280.7 | 5417.2 | 5910.0 | 6430.8 | 5575.7 |
| 37.5° | 5436.5 | 5463.6 | 5552.0 | 5629.9 | 5573.9 | 5429.5 | 5485.5 | 5582.7 | 6050.9 | 6648.8 | 5681.6 |
| 40° | 5608.0 | 5631.7 | 5776.1 | 5941.5 | 5932.8 | 5783.1 | 5815.5 | 5880.3 | 6299.5 | 6961.3 | 5873.3 |
| 42.5° | 5777.0 | 5824.2 | 6033.4 | 6268.0 | 6335.4 | 6203.3 | 6254.9 | 6289.0 | 6649.7 | 7375.3 | 6207.6 |
| 45° | 6001.9 | 6052.7 | 6343.3 | 6626.0 | 6783.6 | 6709.2 | 6791.5 | 6804.6 | 7089.9 | 7939.0 | 6693.4 |
| 47.5° | 6342.4 | 6400.2 | 6738.9 | 7035.7 | 7276.4 | 7284.2 | 7419.9 | 7414.7 | 7639.6 | 8584.1 | 7305.3 |
| 50° | 6872.9 | 6956.0 | 7233.5 | 7510.9 | 7803.3 | 7966.1 | 8147.3 | 8121.9 | 8298.7 | 9271.2 | 8009.9 |
| 52.5° | 7567.8 | 7606.4 | 7812.1 | 8016.9 | 8380.1 | 8745.1 | 9005.1 | 8982.3 | 9046.2 | 9977.5 | 8809.9 |
| 55° | 8288.2 | 8317.1 | 8402.0 | 8514.0 | 9002.5 | 9597.7 | 10147.4 | 10111.5 | 9949.5 | 10711.0 | 9600.3 |
| 57.5° | 8935.9 | 8994.6 | 9053.2 | 9099.6 | 9629.2 | 10488.7 | 11315.9 | 11318.5 | 10929.9 | 11502.3 | 10416.9 |
| 60° | 9036.6 | 9088.2 | 9476.0 | 9841.9 | 10701.4 | 11677.4 | 12566.7 | 12540.4 | 11944.3 | 12361.0 | 11327.3 |
| 62.5° | 7988.0 | 8104.4 | 8752.1 | 9725.5 | 11734.3 | 13851.6 | 14162.4 | 14130.0 | 13157.5 | 13419.2 | 12387.2 |
| 65° | 5724.5 | 5856.6 | 6638.3 | 8100.9 | 11233.6 | 16247.3 | 17042.1 | 16606.2 | 14811.8 | 14720.8 | 13628.4 |
| 67.5° | 3302.5 | 3334.0 | 3672.8 | 4847.4 | 8553.4 | 16372.5 | 21435.2 | 20825.1 | 17380.8 | 16197.4 | 14235.9 |
| 70° | 2442.1 | 2441.2 | 2521.7 | 2983.0 | 4628.6 | 13362.3 | 23524.6 | 24071.6 | 20085.5 | 16683.2 | 13377.2 |
| 71° | 2208.4 | 2211.0 | 2301.2 | 2715.2 | 3665.8 | 11184.6 | 23080.8 | 24278.2 | 20798.0 | 16443.4 | 12755.7 |
| 72.5° | 1888.9 | 1897.7 | 2022.8 | 2435.1 | 3083.7 | 7713.1 | 21169.1 | 23038.8 | 21135.9 | 15851.7 | 11783.3 |
| 75° | 1432.9 | 1453.0 | 1626.3 | 2052.6 | 2818.5 | 3911.7 | 15536.6 | 18397.1 | 18776.1 | 13987.3 | 8755.6 |
| 77.5° | 1022.4 | 1045.1 | 1241.2 | 1726.1 | 2679.3 | 2948.0 | 10404.7 | 13419.2 | 13817.5 | 8963.9 | 3949.4 |
| 80° | 646.0 | 673.1 | 821.0 | 1373.3 | 2517.4 | 2799.2 | 6538.5 | 9020.0 | 7534.6 | 2868.4 | 1004.8 |
| 82.5° | 379.0 | 400.0 | 509.4 | 897.2 | 2056.1 | 2695.9 | 3846.9 | 4999.7 | 2932.3 | 866.5 | 456.9 |
| 85° | 219.7 | 229.3 | 317.7 | 571.6 | 1493.3 | 2544.5 | 2826.3 | 2794.8 | 1272.7 | 423.6 | 216.2 |
| 87.5° | 102.4 | 113.8 | 188.2 | 298.5 | 828.9 | 1844.3 | 2233.8 | 1930.0 | 791.3 | 198.7 | 101.5 |
| 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° | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 |
| 2.5° | 6901.7 | 6886.9 | 6824.7 | 6769.6 | 6711.8 | 6636.5 | 6553.4 | 6542.9 | 6492.1 | 6501.7 | 6484.2 |
| 5° | 6765.2 | 6727.6 | 6577.9 | 6442.2 | 6282.0 | 6138.5 | 5982.7 | 5910.9 | 5807.6 | 5800.6 | 5774.4 |
| 7.5° | 6570.0 | 6500.0 | 6268.0 | 6010.7 | 5753.3 | 5508.3 | 5265.8 | 5106.5 | 4943.7 | 4874.5 | 4868.4 |
| 10° | 6350.3 | 6231.3 | 5889.9 | 5509.1 | 5138.0 | 4780.0 | 4433.4 | 4176.9 | 3945.9 | 3836.4 | 3832.1 |
| 12.5° | 6142.0 | 5966.0 | 5497.8 | 4979.6 | 4471.9 | 4008.0 | 3532.7 | 3195.7 | 2906.0 | 2808.8 | 2767.7 |
| 15° | 5965.2 | 5717.5 | 5116.1 | 4453.5 | 3837.3 | 3193.1 | 2652.2 | 2297.7 | 2029.8 | 1937.0 | 1919.5 |
| 17.5° | 5793.6 | 5475.0 | 4724.9 | 3922.2 | 3177.3 | 2469.2 | 1927.4 | 1663.9 | 1521.3 | 1483.6 | 1482.8 |
| 20° | 5622.9 | 5225.5 | 4316.1 | 3378.7 | 2539.2 | 1846.9 | 1481.9 | 1363.7 | 1315.6 | 1311.2 | 1304.2 |
| 22.5° | 5429.5 | 4961.2 | 3886.3 | 2833.3 | 1981.7 | 1452.1 | 1259.6 | 1212.3 | 1206.2 | 1221.9 | 1221.9 |
| 25° | 5248.3 | 4698.6 | 3450.4 | 2299.4 | 1541.4 | 1211.4 | 1124.8 | 1115.1 | 1131.8 | 1159.8 | 1162.4 |
| 27.5° | 5079.4 | 4445.6 | 3025.0 | 1825.0 | 1235.0 | 1067.0 | 1031.1 | 1042.5 | 1072.2 | 1104.6 | 1105.5 |
| 30° | 4940.2 | 4206.7 | 2611.9 | 1438.1 | 1043.4 | 959.3 | 953.2 | 976.0 | 1008.3 | 1033.7 | 1039.9 |
| 32.5° | 4832.5 | 4002.7 | 2212.8 | 1156.3 | 918.2 | 878.8 | 884.1 | 903.3 | 923.4 | 937.4 | 947.1 |
| 35° | 4782.6 | 3827.7 | 1844.3 | 975.1 | 838.5 | 816.7 | 823.7 | 834.2 | 842.9 | 853.4 | 861.3 |
| 37.5° | 4791.4 | 3692.0 | 1515.1 | 862.2 | 785.1 | 773.8 | 773.8 | 773.8 | 773.8 | 779.0 | 779.9 |
| 40° | 4872.8 | 3614.1 | 1247.3 | 790.4 | 749.3 | 737.0 | 727.4 | 718.6 | 711.6 | 715.1 | 713.4 |
| 42.5° | 5081.1 | 3607.1 | 1051.2 | 744.9 | 720.4 | 700.2 | 681.0 | 668.7 | 660.0 | 663.5 | 665.2 |
| 45° | 5434.7 | 3694.6 | 919.1 | 712.5 | 693.2 | 662.6 | 638.1 | 625.0 | 618.8 | 630.2 | 632.0 |
| 47.5° | 5892.5 | 3885.5 | 838.5 | 688.9 | 667.9 | 627.6 | 601.3 | 589.1 | 590.8 | 607.5 | 611.8 |
| 50° | 6482.5 | 4195.3 | 800.0 | 674.0 | 650.3 | 597.8 | 570.7 | 560.2 | 565.4 | 589.1 | 594.3 |
| 52.5° | 7130.2 | 4641.7 | 804.4 | 669.6 | 639.0 | 575.9 | 547.1 | 534.8 | 543.6 | 565.4 | 569.8 |
| 55° | 7877.7 | 5178.3 | 877.1 | 675.7 | 622.3 | 561.9 | 527.8 | 506.8 | 513.8 | 533.9 | 537.4 |
| 57.5° | 8708.4 | 5792.7 | 1023.2 | 674.0 | 601.3 | 548.8 | 507.7 | 476.2 | 481.4 | 493.7 | 497.2 |
| 60° | 9573.2 | 6535.0 | 1249.9 | 679.2 | 591.7 | 533.1 | 480.5 | 441.2 | 439.4 | 449.9 | 451.7 |
| 62.5° | 10611.3 | 7393.7 | 1509.0 | 682.7 | 597.8 | 512.9 | 444.7 | 406.1 | 400.9 | 403.5 | 405.3 |
| 65° | 11680.9 | 8015.1 | 1411.9 | 668.7 | 617.1 | 496.3 | 413.1 | 372.0 | 362.4 | 360.6 | 361.5 |
| 67.5° | 11714.1 | 7349.0 | 990.0 | 640.7 | 625.0 | 487.5 | 389.5 | 343.1 | 327.4 | 321.2 | 320.4 |
| 70° | 10505.4 | 5970.4 | 771.1 | 611.0 | 593.5 | 473.5 | 367.6 | 319.5 | 295.9 | 286.2 | 285.3 |
| 71° | 9915.4 | 5496.0 | 730.9 | 596.1 | 569.8 | 459.5 | 358.0 | 309.0 | 284.5 | 274.0 | 272.2 |
| 72.5° | 8990.2 | 4927.1 | 681.9 | 572.4 | 524.3 | 423.6 | 339.6 | 294.1 | 268.7 | 256.5 | 253.8 |
| 75° | 6451.8 | 3222.0 | 585.6 | 510.3 | 434.1 | 337.9 | 297.6 | 264.3 | 242.5 | 227.6 | 225.8 |
| 77.5° | 2485.9 | 1282.3 | 442.9 | 424.5 | 332.6 | 264.3 | 245.1 | 228.5 | 212.7 | 197.8 | 196.9 |
| 80° | 768.5 | 573.3 | 323.0 | 319.5 | 240.7 | 196.9 | 190.8 | 186.4 | 180.3 | 164.6 | 161.1 |
| 82.5° | 410.5 | 329.1 | 222.3 | 206.6 | 157.6 | 131.3 | 138.3 | 140.0 | 140.9 | 124.3 | 122.5 |
| 85° | 196.1 | 174.2 | 125.2 | 117.3 | 91.9 | 73.5 | 84.9 | 91.9 | 92.8 | 76.2 | 70.9 |
| 87.5° | 93.7 | 91.0 | 58.6 | 44.6 | 34.1 | 24.5 | 29.8 | 36.8 | 40.3 | 28.9 | 25.4 |
| 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)