

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: P383276

Luminaire Tested: **GLEON-SA6A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383276
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-SA6A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 21506.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

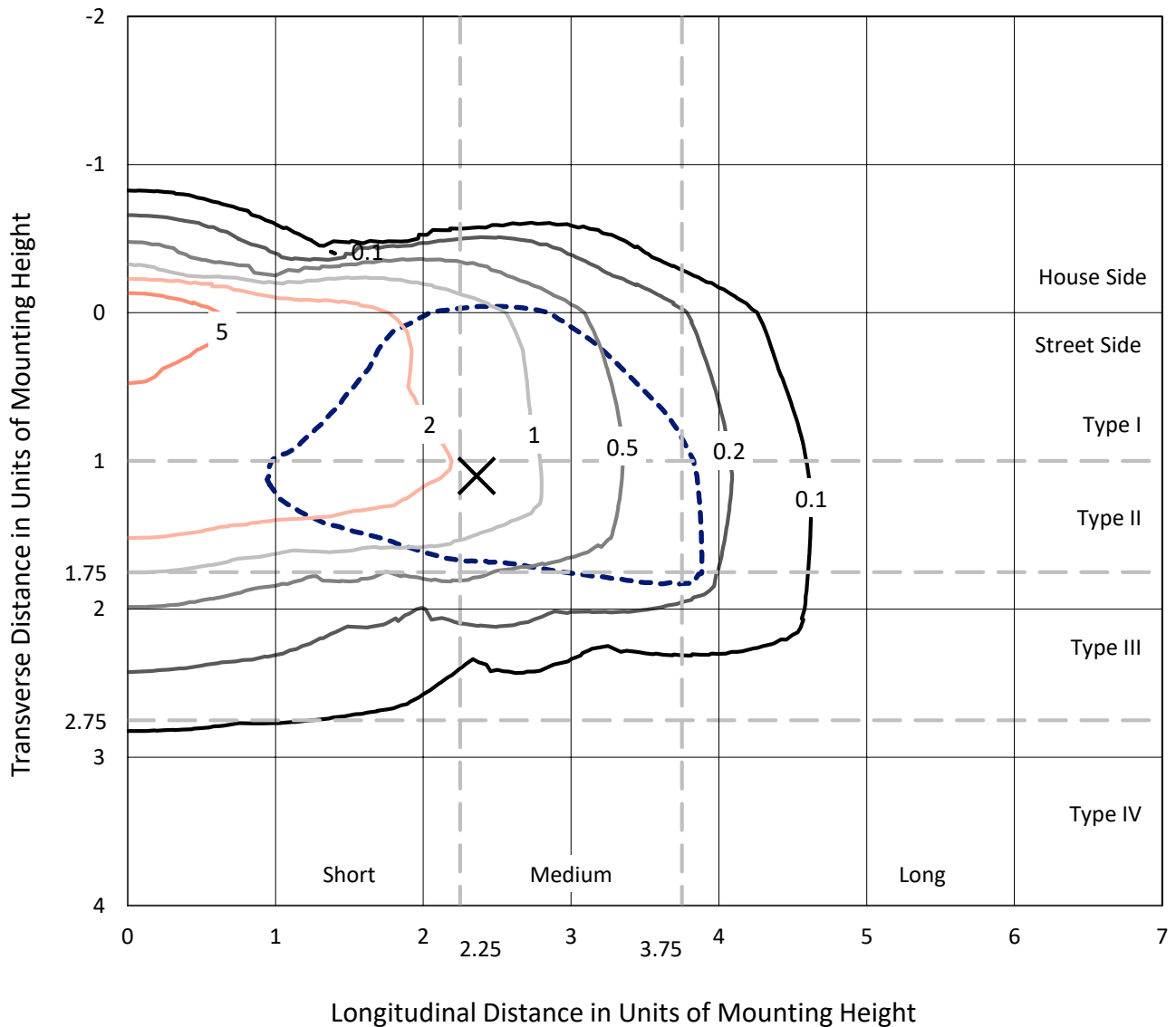
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

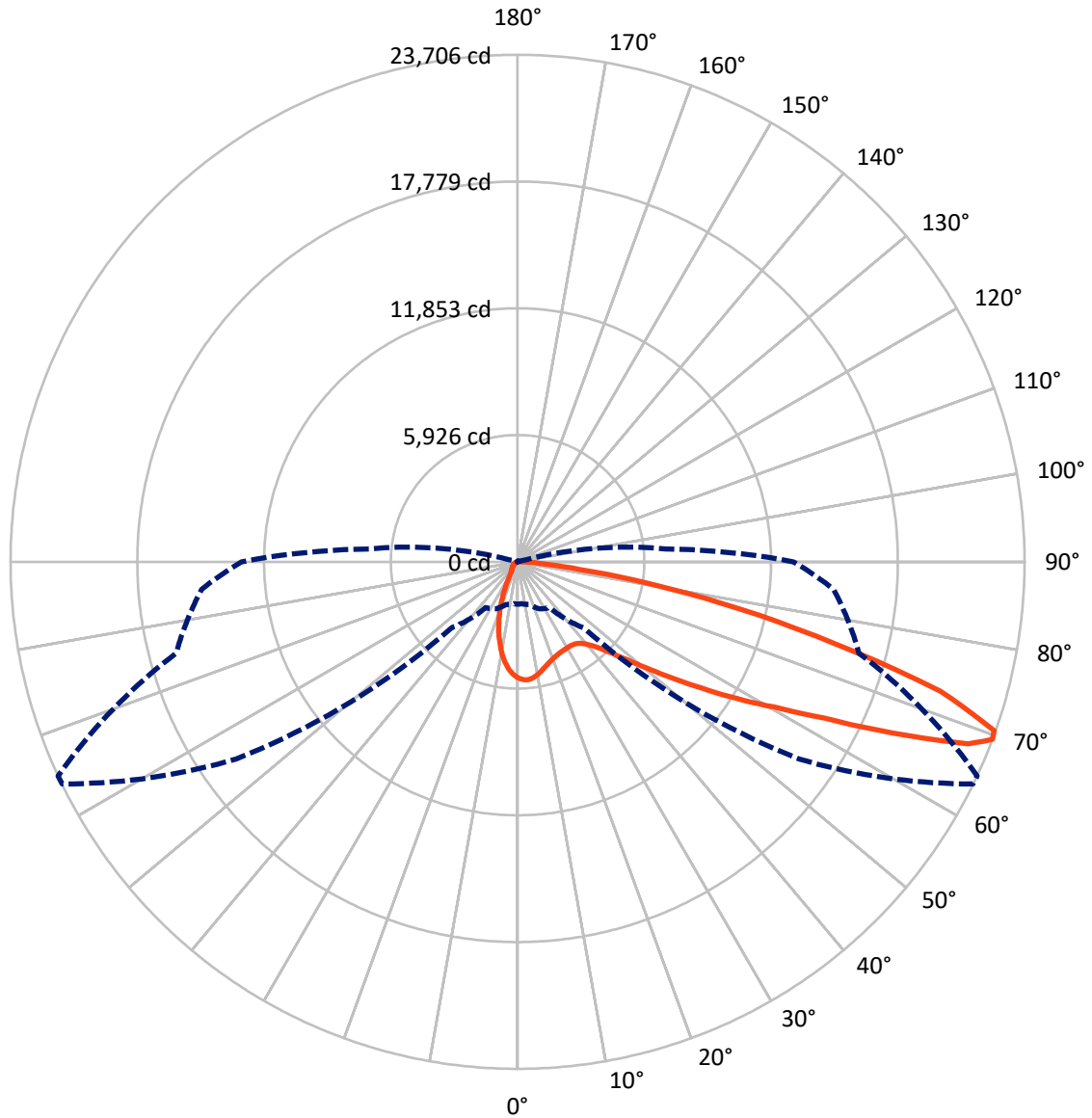
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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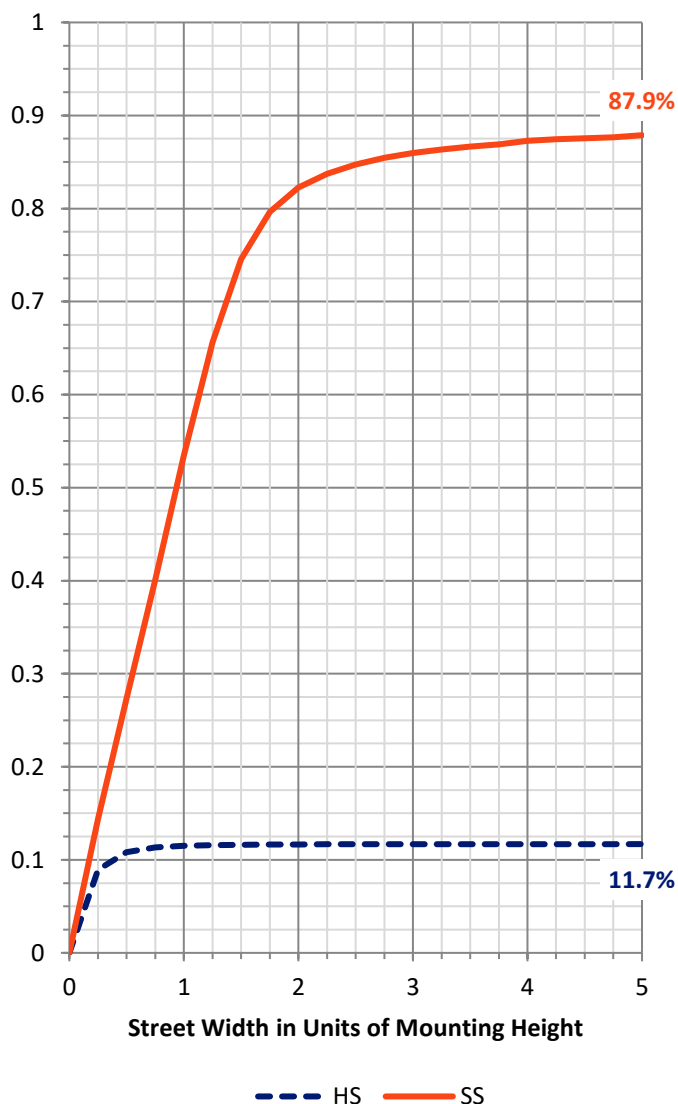
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2535.1 | 0.0 | 2535.1 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 18971.5 | 0.0 | 18971.5 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 21506.6 | 0.0 | 21506.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.5 | 2.1 |
| 10°-20° | 994.8 | 4.6 |
| 20°-30° | 1377.9 | 6.4 |
| 30°-40° | 1921.2 | 8.9 |
| 40°-50° | 2986.2 | 13.9 |
| 50°-60° | 4794.0 | 22.3 |
| 60°-70° | 5422.8 | 25.2 |
| 70°-80° | 3184.8 | 14.8 |
| 80°-90° | 370.5 | 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° | 21506.6 | 100.0 |
| 0°-180° | 21506.6 | 100.0 |

Coefficient of Utilization

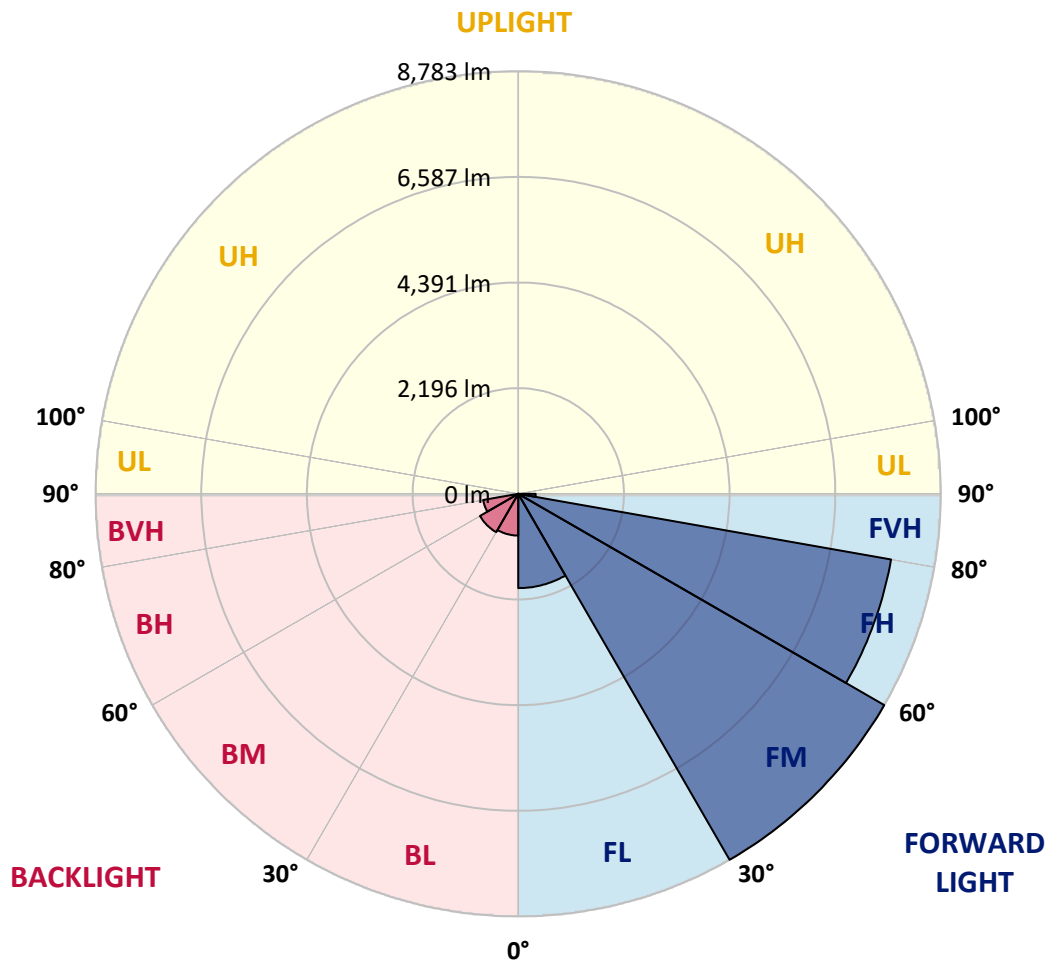


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1959.8 | 9.1 | | | |
| FM (30°-60°) | 8782.7 | 40.8 | | | |
| FH (60°-80°) | 7866.9 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 362.1 | 1.7 | | | G3/500 |
| BL (0°-30°) | 867.4 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 918.7 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 740.7 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 |
| 2.5° | 5483.0 | 5469.3 | 5480.3 | 5504.0 | 5515.8 | 5515.8 | 5524.8 | 5513.9 | 5517.6 | 5491.2 | 5453.0 |
| 5° | 5139.9 | 5118.9 | 5149.0 | 5215.5 | 5297.3 | 5367.4 | 5471.2 | 5525.8 | 5531.3 | 5532.2 | 5487.6 |
| 7.5° | 4770.5 | 4751.4 | 4795.9 | 4874.1 | 4979.8 | 5109.9 | 5291.0 | 5449.4 | 5458.4 | 5544.0 | 5511.2 |
| 10° | 4470.1 | 4456.4 | 4508.3 | 4592.1 | 4715.9 | 4861.5 | 5083.5 | 5303.7 | 5330.1 | 5519.4 | 5507.6 |
| 12.5° | 4231.6 | 4220.7 | 4269.9 | 4366.3 | 4492.9 | 4653.9 | 4886.0 | 5141.8 | 5177.3 | 5463.9 | 5489.3 |
| 15° | 4057.9 | 4056.1 | 4097.0 | 4189.8 | 4330.0 | 4480.1 | 4717.6 | 4991.6 | 5032.5 | 5403.8 | 5486.6 |
| 17.5° | 3966.9 | 3969.6 | 3999.6 | 4078.8 | 4199.0 | 4348.2 | 4575.7 | 4865.1 | 4909.6 | 5350.2 | 5500.3 |
| 20° | 3957.8 | 3960.5 | 3976.9 | 4021.5 | 4118.8 | 4250.8 | 4460.2 | 4758.6 | 4805.0 | 5310.1 | 5522.1 |
| 22.5° | 4037.9 | 4036.0 | 4040.6 | 4036.0 | 4090.6 | 4190.8 | 4383.7 | 4676.7 | 4730.4 | 5283.7 | 5539.4 |
| 25° | 4191.7 | 4188.9 | 4187.1 | 4153.4 | 4117.1 | 4170.7 | 4351.8 | 4630.3 | 4681.2 | 5264.5 | 5549.4 |
| 27.5° | 4405.5 | 4403.7 | 4401.0 | 4345.5 | 4236.2 | 4202.6 | 4355.5 | 4613.0 | 4655.8 | 5249.1 | 5547.6 |
| 30° | 4686.7 | 4699.5 | 4695.8 | 4618.4 | 4448.3 | 4299.9 | 4393.6 | 4603.9 | 4641.2 | 5219.1 | 5528.5 |
| 32.5° | 5017.0 | 5042.6 | 5062.6 | 4979.8 | 4766.8 | 4492.9 | 4482.0 | 4613.9 | 4641.2 | 5196.4 | 5493.9 |
| 35° | 5360.1 | 5392.9 | 5466.6 | 5437.5 | 5157.2 | 4783.2 | 4633.9 | 4673.9 | 4696.7 | 5209.1 | 5477.5 |
| 37.5° | 5697.8 | 5736.9 | 5897.1 | 5981.7 | 5668.7 | 5167.2 | 4870.5 | 4822.3 | 4834.2 | 5286.4 | 5495.8 |
| 40° | 6090.0 | 6149.1 | 6392.1 | 6528.7 | 6279.3 | 5681.4 | 5224.6 | 5077.1 | 5081.7 | 5456.6 | 5580.3 |
| 42.5° | 6605.0 | 6666.1 | 6929.0 | 7142.9 | 6967.2 | 6331.2 | 5705.1 | 5466.6 | 5462.0 | 5775.1 | 5779.7 |
| 45° | 7233.0 | 7296.7 | 7568.8 | 7806.4 | 7727.2 | 7101.1 | 6320.3 | 6035.4 | 6029.9 | 6277.4 | 6157.3 |
| 47.5° | 7944.7 | 8007.5 | 8250.4 | 8495.2 | 8580.8 | 8000.1 | 7103.8 | 6811.7 | 6798.9 | 6975.4 | 6740.7 |
| 50° | 8555.3 | 8596.2 | 8820.1 | 9149.6 | 9535.4 | 9104.9 | 8078.5 | 7797.2 | 7783.5 | 7902.8 | 7597.1 |
| 52.5° | 8777.3 | 8801.0 | 9028.6 | 9490.0 | 10452.7 | 10601.1 | 9358.9 | 8996.7 | 8986.6 | 9038.5 | 8737.3 |
| 55° | 8327.8 | 8370.5 | 8650.0 | 9334.3 | 10949.6 | 12292.0 | 10975.1 | 10481.9 | 10406.3 | 10294.3 | 9929.5 |
| 57.5° | 7102.9 | 7171.1 | 7471.5 | 8381.5 | 10717.5 | 13633.3 | 13350.3 | 12161.8 | 12050.8 | 11366.4 | 10898.6 |
| 60° | 5321.9 | 5405.7 | 5655.0 | 6636.9 | 9479.0 | 14111.1 | 15945.8 | 14033.8 | 13783.5 | 12220.0 | 11789.6 |
| 62.5° | 3652.0 | 3693.9 | 3863.1 | 4502.9 | 6980.9 | 13328.5 | 18117.1 | 16540.9 | 16084.1 | 13148.2 | 12753.4 |
| 65° | 2789.2 | 2803.9 | 2873.0 | 3093.2 | 4157.0 | 10826.7 | 18980.7 | 19849.0 | 19296.5 | 14258.5 | 13753.5 |
| 67.5° | 2247.8 | 2236.0 | 2331.6 | 2646.4 | 2783.8 | 6605.0 | 17973.3 | 22978.6 | 22720.1 | 15742.8 | 14760.0 |
| 69° | 1982.1 | 1965.7 | 2063.1 | 2428.9 | 2614.6 | 4366.3 | 16067.7 | 23689.3 | 23705.7 | 16526.3 | 14829.1 |
| 70° | 1783.6 | 1794.6 | 1891.0 | 2299.7 | 2557.2 | 3427.3 | 14247.6 | 23508.2 | 23637.4 | 16819.4 | 14414.1 |
| 72.5° | 1191.3 | 1220.3 | 1414.2 | 1909.3 | 2458.9 | 2593.6 | 8602.7 | 20172.8 | 20669.7 | 16159.6 | 12366.6 |
| 75° | 671.6 | 693.4 | 923.7 | 1439.7 | 2316.9 | 2469.8 | 4543.8 | 14861.9 | 15342.4 | 13513.2 | 9536.3 |
| 77.5° | 329.4 | 341.2 | 522.3 | 929.1 | 1937.4 | 2353.4 | 2577.2 | 10095.1 | 10643.9 | 8820.1 | 5393.8 |
| 80° | 139.3 | 145.6 | 261.2 | 573.4 | 1385.1 | 2246.0 | 1913.8 | 6212.9 | 6281.1 | 3455.4 | 1436.9 |
| 82.5° | 53.7 | 55.5 | 110.1 | 357.6 | 880.0 | 1750.9 | 1600.8 | 2945.8 | 2874.8 | 650.7 | 327.6 |
| 85° | 6.3 | 7.3 | 40.1 | 214.8 | 489.6 | 900.9 | 1300.4 | 1269.5 | 1174.9 | 129.2 | 168.3 |
| 87.5° | 0.0 | 0.0 | 2.7 | 65.5 | 145.6 | 422.3 | 676.1 | 526.9 | 475.0 | 41.8 | 87.4 |
| 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° | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 | 5434.7 |
| 2.5° | 5421.1 | 5412.0 | 5362.8 | 5291.8 | 5224.6 | 5140.8 | 5060.7 | 5012.5 | 4974.3 | 4948.8 | 4978.8 |
| 5° | 5435.7 | 5395.6 | 5246.4 | 5055.3 | 4867.8 | 4656.7 | 4460.2 | 4293.6 | 4228.0 | 4155.3 | 4188.1 |
| 7.5° | 5431.1 | 5355.6 | 5087.1 | 4746.8 | 4402.8 | 4046.9 | 3710.3 | 3450.9 | 3316.2 | 3184.2 | 3217.9 |
| 10° | 5408.4 | 5280.9 | 4874.1 | 4370.0 | 3854.9 | 3343.5 | 2865.7 | 2502.6 | 2299.7 | 2115.8 | 2142.3 |
| 12.5° | 5358.4 | 5180.9 | 4623.0 | 3938.7 | 3249.8 | 2575.4 | 2015.8 | 1550.7 | 1301.4 | 1191.3 | 1204.9 |
| 15° | 5328.3 | 5083.5 | 4357.3 | 3501.9 | 2603.6 | 1793.7 | 1232.2 | 916.5 | 802.6 | 766.3 | 770.8 |
| 17.5° | 5313.7 | 4989.7 | 4082.4 | 3002.2 | 1942.9 | 1142.1 | 796.3 | 702.6 | 678.0 | 671.6 | 673.4 |
| 20° | 5299.2 | 4895.1 | 3799.4 | 2508.1 | 1338.6 | 768.1 | 654.3 | 627.0 | 617.9 | 609.7 | 611.6 |
| 22.5° | 5274.6 | 4804.1 | 3495.4 | 2007.6 | 902.8 | 623.4 | 589.7 | 563.3 | 544.2 | 534.1 | 536.0 |
| 25° | 5244.6 | 4708.5 | 3185.1 | 1495.2 | 658.9 | 556.0 | 524.2 | 486.8 | 464.1 | 445.9 | 446.9 |
| 27.5° | 5196.4 | 4591.1 | 2864.8 | 1088.4 | 553.3 | 497.8 | 455.1 | 414.1 | 375.9 | 354.9 | 354.9 |
| 30° | 5129.0 | 4458.3 | 2508.9 | 779.0 | 496.0 | 440.4 | 388.5 | 337.6 | 296.7 | 277.6 | 275.7 |
| 32.5° | 5054.4 | 4320.0 | 2149.5 | 590.6 | 450.5 | 386.8 | 327.6 | 274.0 | 237.5 | 222.1 | 221.1 |
| 35° | 4990.7 | 4170.7 | 1791.0 | 495.0 | 404.9 | 334.9 | 270.2 | 224.8 | 195.6 | 183.0 | 182.0 |
| 37.5° | 4949.7 | 4021.5 | 1441.5 | 442.3 | 364.0 | 286.6 | 226.6 | 185.7 | 164.7 | 154.7 | 153.8 |
| 40° | 4943.4 | 3910.5 | 1122.0 | 402.2 | 325.8 | 243.9 | 189.3 | 157.4 | 138.3 | 127.4 | 126.5 |
| 42.5° | 5026.2 | 3846.7 | 860.9 | 368.5 | 286.6 | 206.6 | 161.1 | 134.7 | 114.7 | 103.8 | 102.8 |
| 45° | 5243.7 | 3866.8 | 662.5 | 338.5 | 247.5 | 174.8 | 136.5 | 112.0 | 93.7 | 85.5 | 83.7 |
| 47.5° | 5640.4 | 4005.1 | 526.9 | 308.5 | 210.3 | 148.3 | 116.4 | 92.8 | 77.3 | 69.1 | 68.3 |
| 50° | 6346.6 | 4330.0 | 440.4 | 275.7 | 175.6 | 126.5 | 96.5 | 75.5 | 62.8 | 55.5 | 54.6 |
| 52.5° | 7284.0 | 4908.8 | 393.1 | 243.9 | 145.6 | 107.4 | 79.2 | 60.1 | 49.2 | 43.7 | 42.8 |
| 55° | 8317.8 | 5609.5 | 362.2 | 209.3 | 119.2 | 89.1 | 62.8 | 47.3 | 38.2 | 33.6 | 31.9 |
| 57.5° | 9327.0 | 6216.5 | 333.1 | 175.6 | 99.2 | 72.8 | 50.0 | 37.4 | 30.0 | 25.5 | 24.6 |
| 60° | 10254.4 | 6774.3 | 299.4 | 141.0 | 81.0 | 57.3 | 39.1 | 29.2 | 23.7 | 19.1 | 19.1 |
| 62.5° | 11247.2 | 7205.7 | 253.0 | 110.1 | 66.4 | 43.7 | 31.9 | 26.4 | 19.1 | 16.4 | 15.5 |
| 65° | 12299.2 | 7526.1 | 198.4 | 85.5 | 51.9 | 32.8 | 26.4 | 27.3 | 15.5 | 11.8 | 10.9 |
| 67.5° | 13076.4 | 7462.3 | 146.5 | 67.4 | 40.1 | 25.5 | 25.5 | 29.2 | 13.7 | 9.1 | 8.2 |
| 69° | 12905.3 | 6944.5 | 122.9 | 58.2 | 34.6 | 21.8 | 23.7 | 29.2 | 12.8 | 8.2 | 7.3 |
| 70° | 12409.3 | 6371.2 | 108.3 | 51.9 | 30.9 | 20.0 | 22.7 | 28.2 | 11.8 | 8.2 | 7.3 |
| 72.5° | 10334.4 | 4798.7 | 84.7 | 39.1 | 24.6 | 16.4 | 19.1 | 24.6 | 11.8 | 8.2 | 6.3 |
| 75° | 7773.6 | 3071.4 | 64.6 | 28.2 | 18.2 | 12.8 | 14.5 | 18.2 | 11.8 | 7.3 | 6.3 |
| 77.5° | 4229.9 | 1107.5 | 46.4 | 19.1 | 12.8 | 10.0 | 10.0 | 13.7 | 10.9 | 5.5 | 3.6 |
| 80° | 1087.5 | 278.4 | 29.2 | 12.8 | 10.0 | 7.3 | 6.3 | 9.1 | 6.3 | 0.9 | 0.0 |
| 82.5° | 268.5 | 62.8 | 15.5 | 9.1 | 7.3 | 2.7 | 2.7 | 4.6 | 2.7 | 0.0 | 0.0 |
| 85° | 147.5 | 30.9 | 10.0 | 6.3 | 3.6 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 75.5 | 9.1 | 2.7 | 1.9 | 0.9 | 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)