

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: P383376

Luminaire Tested: **GLEON-SA6D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33247.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

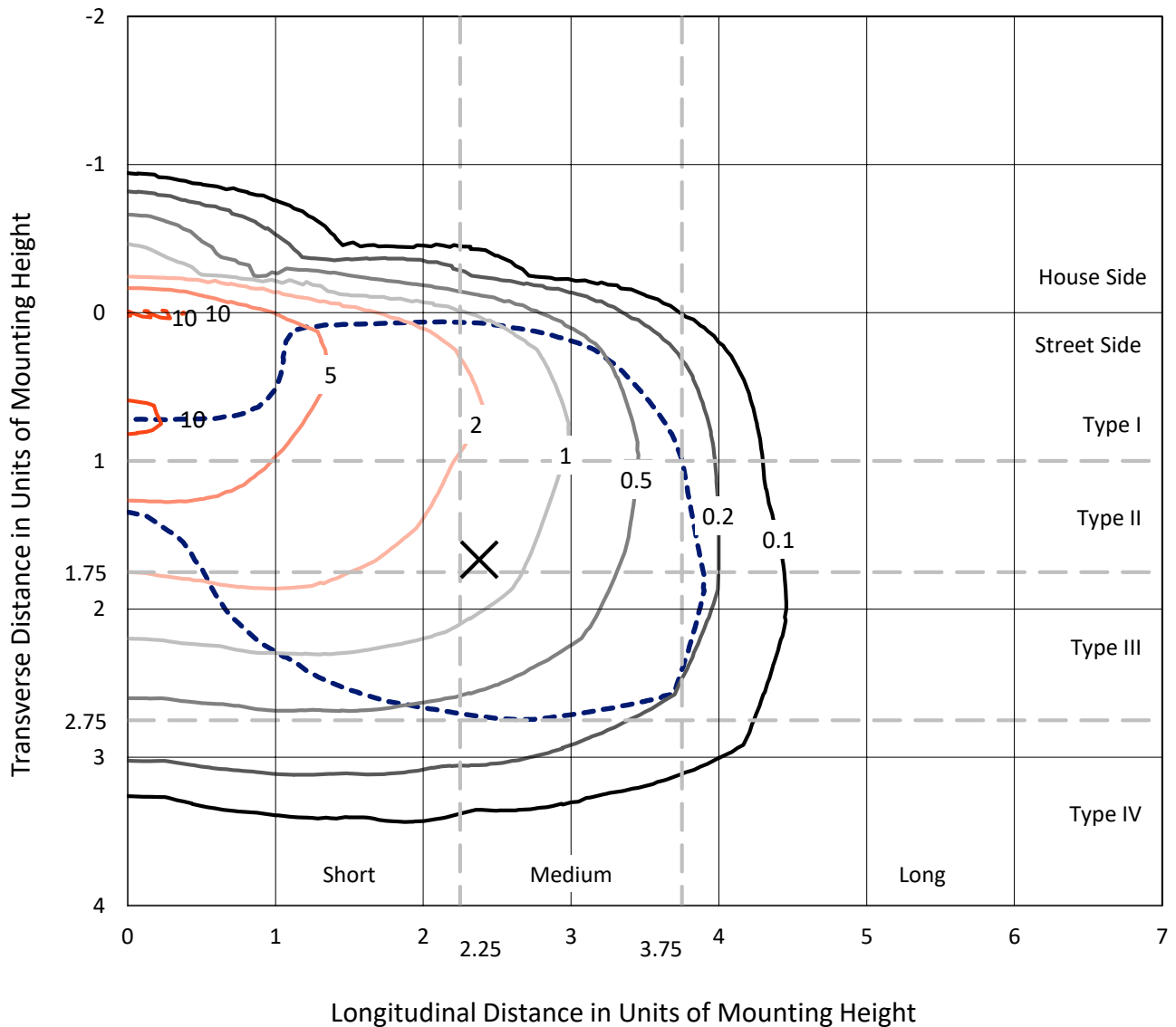
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

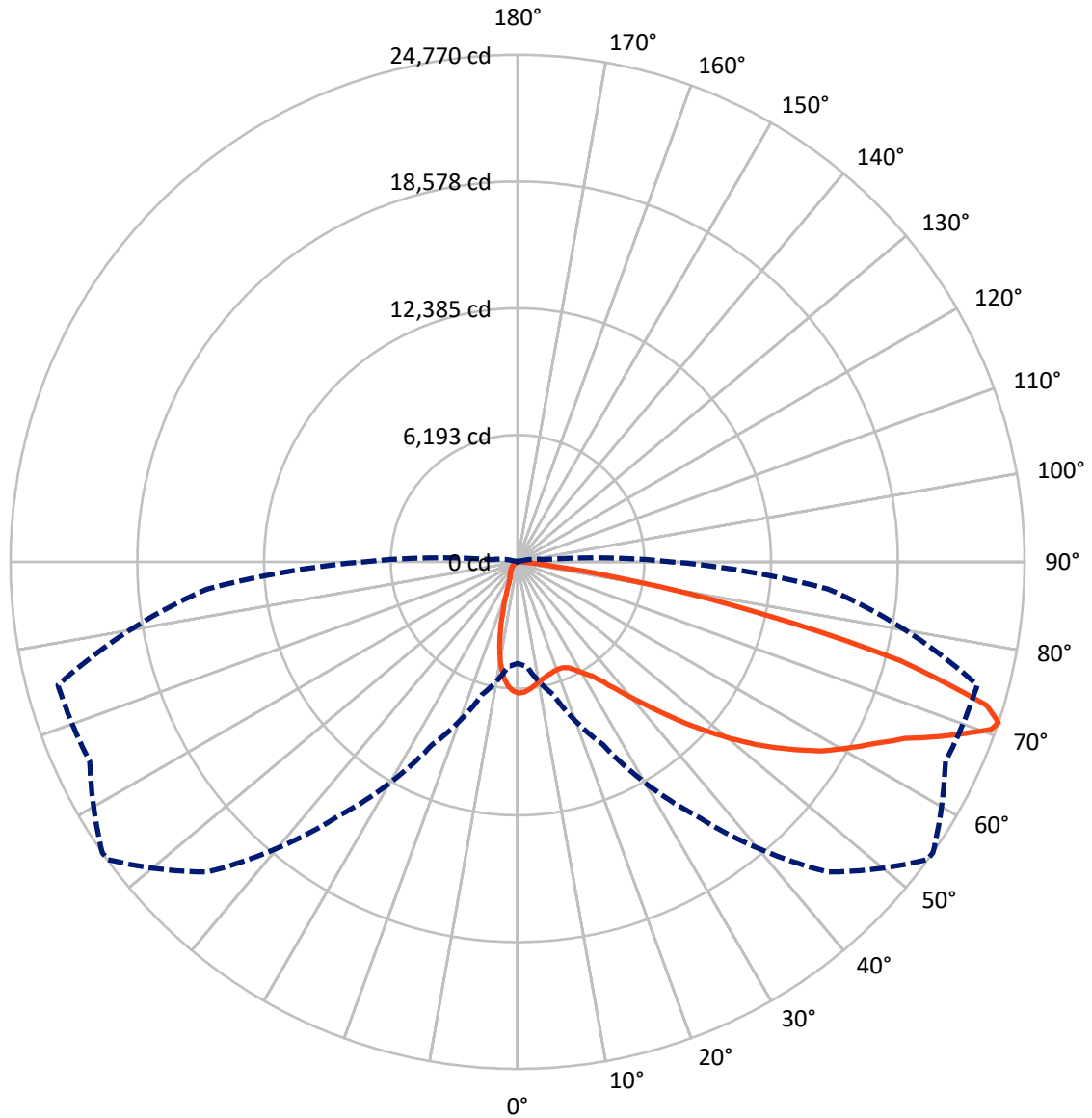
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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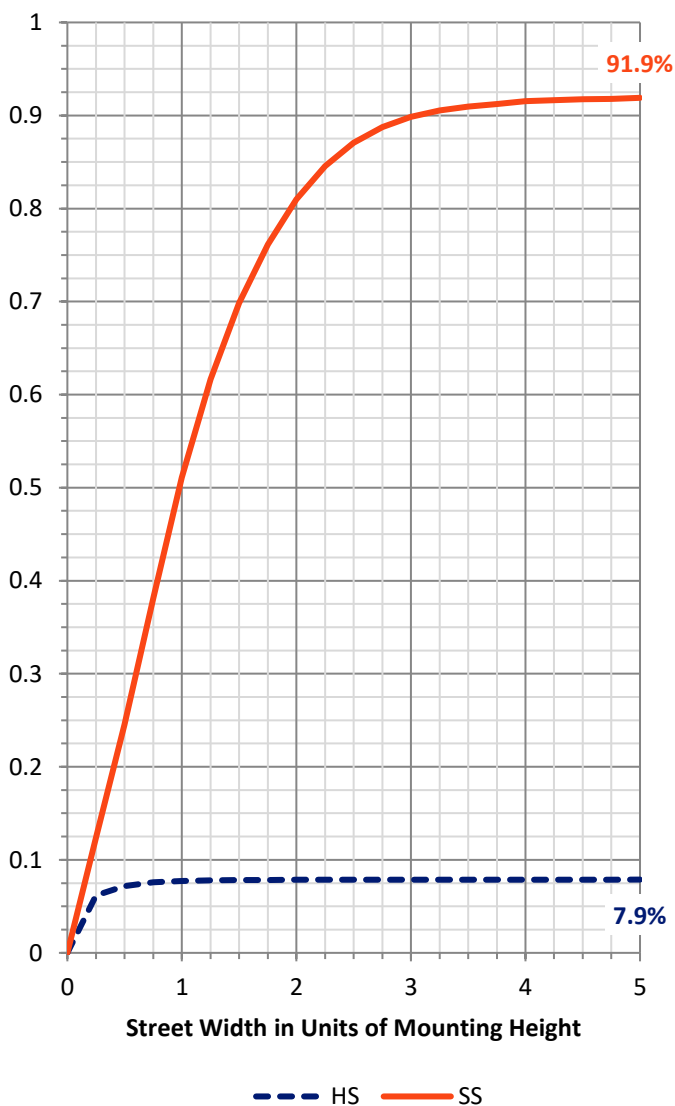
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2632.3 | 0.0 | 2632.3 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 30615.5 | 0.0 | 30615.5 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 33247.8 | 0.0 | 33247.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 546.7 | 1.6 |
| 10°-20° | 1234.2 | 3.7 |
| 20°-30° | 1983.4 | 6.0 |
| 30°-40° | 3370.0 | 10.1 |
| 40°-50° | 5230.6 | 15.7 |
| 50°-60° | 7032.4 | 21.2 |
| 60°-70° | 8603.0 | 25.9 |
| 70°-80° | 5030.0 | 15.1 |
| 80°-90° | 217.4 | 0.7 |
| 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° | 33247.8 | 100.0 |
| 0°-180° | 33247.8 | 100.0 |

Coefficient of Utilization

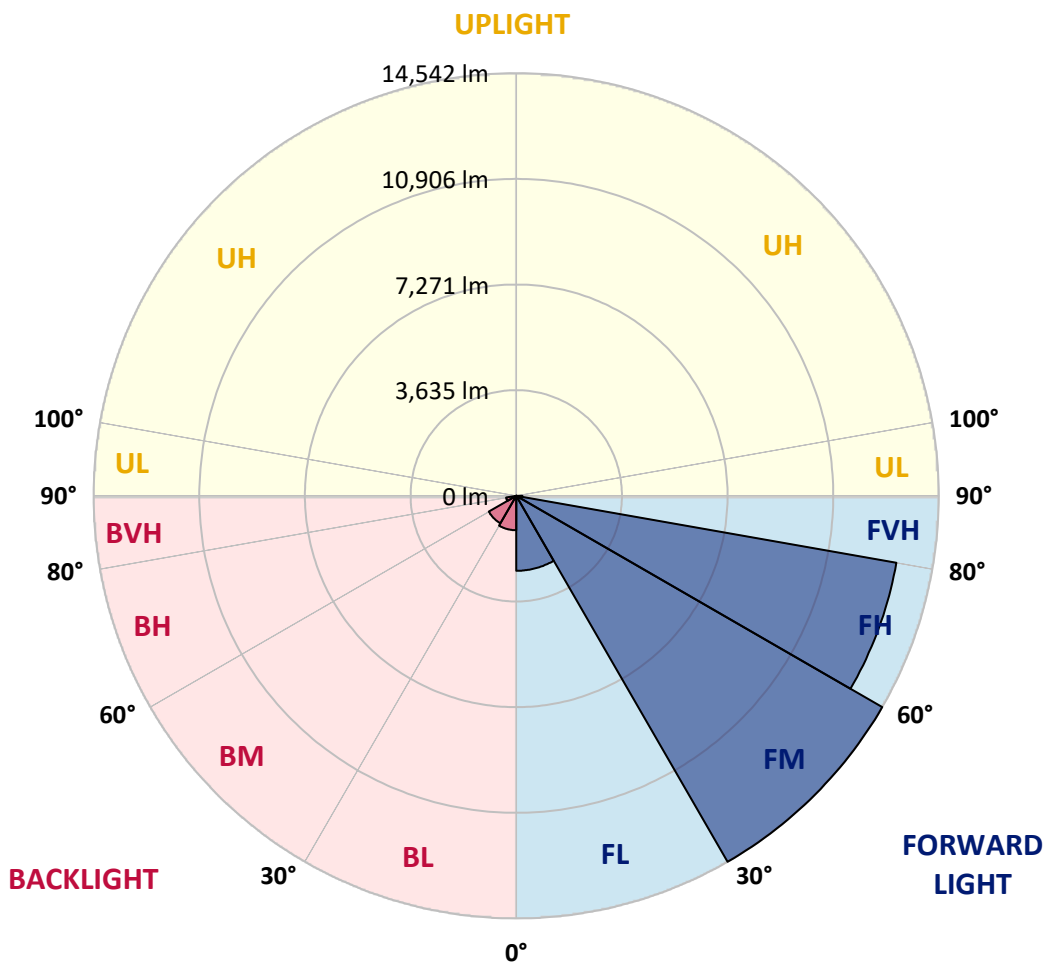


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2579.6 | 7.8 | | | |
| FM (30°-60°) | 14541.6 | 43.7 | | | |
| FH (60°-80°) | 13280.3 | 39.9 | | | G5 |
| FVH (80°-90°) | 214.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1184.8 | 3.6 | B3/2500 | | |
| BM (30°-60°) | 1091.4 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 352.7 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.4 | 0.0 | | | G0/10 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 |
| 2.5° | 6223.9 | 6231.3 | 6258.2 | 6270.2 | 6298.5 | 6346.3 | 6370.2 | 6371.7 | 6410.4 | 6425.4 | 6437.4 |
| 5° | 5783.4 | 5828.2 | 5873.0 | 5920.8 | 6007.4 | 6122.3 | 6235.8 | 6246.2 | 6371.7 | 6464.2 | 6513.5 |
| 7.5° | 5404.3 | 5444.6 | 5498.4 | 5574.5 | 5696.9 | 5877.5 | 6067.1 | 6089.5 | 6326.9 | 6537.4 | 6647.8 |
| 10° | 5014.6 | 5047.5 | 5125.1 | 5237.1 | 5405.8 | 5647.6 | 5902.9 | 5940.2 | 6286.5 | 6635.9 | 6830.0 |
| 12.5° | 4598.1 | 4617.5 | 4711.6 | 4872.8 | 5120.6 | 5428.1 | 5764.0 | 5813.3 | 6261.2 | 6749.3 | 7044.9 |
| 15° | 4281.6 | 4290.6 | 4380.1 | 4547.3 | 4831.0 | 5231.1 | 5656.5 | 5716.3 | 6267.2 | 6885.3 | 7279.3 |
| 17.5° | 4201.0 | 4205.5 | 4253.3 | 4368.2 | 4619.0 | 5054.9 | 5571.5 | 5644.6 | 6285.1 | 7018.1 | 7515.3 |
| 20° | 4528.0 | 4496.6 | 4447.3 | 4429.4 | 4536.9 | 4948.9 | 5520.7 | 5602.8 | 6309.0 | 7136.0 | 7727.2 |
| 22.5° | 5425.1 | 5332.6 | 5128.1 | 4854.9 | 4689.1 | 4956.4 | 5534.1 | 5616.3 | 6385.1 | 7280.8 | 7972.0 |
| 25° | 6756.8 | 6628.4 | 6280.6 | 5743.2 | 5226.6 | 5171.4 | 5646.1 | 5729.8 | 6532.9 | 7454.0 | 8206.5 |
| 27.5° | 8272.1 | 8145.2 | 7719.7 | 6952.4 | 6071.5 | 5596.8 | 5902.9 | 5980.5 | 6752.3 | 7607.8 | 8385.6 |
| 30° | 9723.2 | 9687.3 | 9185.8 | 8313.9 | 7134.5 | 6286.5 | 6234.3 | 6300.0 | 6915.1 | 7700.4 | 8527.4 |
| 32.5° | 10953.3 | 10896.6 | 10493.5 | 9645.6 | 8351.2 | 7115.2 | 6624.0 | 6643.3 | 7037.5 | 7819.8 | 8712.5 |
| 35° | 12093.9 | 12023.8 | 11670.0 | 10868.3 | 9599.3 | 8127.3 | 7224.1 | 7195.7 | 7304.7 | 8060.1 | 8981.2 |
| 37.5° | 13089.6 | 13153.8 | 12761.3 | 11998.3 | 10718.9 | 9179.7 | 8033.3 | 7948.2 | 7722.7 | 8451.3 | 9370.9 |
| 40° | 13922.7 | 13922.7 | 13718.2 | 13082.2 | 11928.2 | 10268.1 | 8948.4 | 8836.4 | 8351.2 | 9054.4 | 9865.0 |
| 42.5° | 14222.8 | 14287.0 | 14363.1 | 14003.3 | 13010.6 | 11399.7 | 9968.0 | 9851.6 | 9236.5 | 9909.8 | 10489.0 |
| 45° | 14240.7 | 14342.2 | 14731.9 | 14730.4 | 13988.4 | 12523.9 | 11117.6 | 11062.3 | 10371.1 | 11008.6 | 11262.4 |
| 47.5° | 13988.4 | 14115.3 | 14757.2 | 15121.5 | 14763.2 | 13570.4 | 12374.6 | 12305.9 | 11704.2 | 12355.2 | 12071.6 |
| 50° | 13598.7 | 13739.1 | 14485.6 | 15275.2 | 15290.2 | 14481.1 | 13698.8 | 13595.8 | 13171.8 | 13894.3 | 12907.5 |
| 52.5° | 12901.6 | 13173.3 | 14242.2 | 15311.1 | 15636.6 | 15267.8 | 14958.8 | 14914.0 | 14813.9 | 15376.8 | 13573.4 |
| 55° | 11410.2 | 11711.7 | 13631.6 | 15323.0 | 15957.5 | 15965.0 | 16139.6 | 16151.6 | 16353.1 | 16762.2 | 14069.0 |
| 57.5° | 10705.5 | 10875.7 | 12565.6 | 15379.8 | 16433.7 | 16756.2 | 17342.9 | 17435.5 | 17747.5 | 18077.4 | 14634.8 |
| 60° | 10262.1 | 10463.7 | 12040.2 | 15302.2 | 17181.7 | 17793.8 | 18458.1 | 18489.4 | 18823.9 | 19434.5 | 15400.7 |
| 62.5° | 9908.3 | 10106.9 | 11708.7 | 15003.6 | 18022.2 | 19041.9 | 19548.0 | 19550.9 | 19801.7 | 21051.3 | 16271.1 |
| 65° | 9035.0 | 9202.2 | 11038.5 | 14667.7 | 18577.6 | 20276.4 | 20813.9 | 20794.5 | 20999.0 | 22756.1 | 17281.7 |
| 67.5° | 7772.0 | 7900.4 | 9669.5 | 13394.3 | 18368.5 | 21399.1 | 22724.8 | 22660.6 | 22412.8 | 24229.6 | 17678.8 |
| 70° | 6008.9 | 6055.2 | 7621.2 | 11162.4 | 16409.9 | 21830.5 | 24571.5 | 24538.6 | 23280.1 | 23965.4 | 16223.3 |
| 71° | 4966.8 | 5119.1 | 6716.6 | 9851.6 | 15097.6 | 21431.9 | 24750.7 | 24770.0 | 23062.2 | 23245.8 | 15221.5 |
| 72.5° | 2884.3 | 3014.1 | 4868.4 | 7565.9 | 12818.0 | 19768.8 | 23822.1 | 23962.4 | 22044.0 | 21143.8 | 13001.6 |
| 75° | 618.1 | 661.3 | 1804.9 | 3662.1 | 7050.9 | 13855.6 | 18803.0 | 19303.1 | 17966.9 | 14384.0 | 7836.2 |
| 77.5° | 429.9 | 464.3 | 773.3 | 1661.6 | 2330.4 | 6846.4 | 11680.4 | 12244.7 | 10733.9 | 5405.8 | 2508.1 |
| 80° | 340.4 | 379.2 | 603.1 | 821.1 | 630.0 | 2208.0 | 5471.4 | 5816.3 | 3579.9 | 1206.3 | 422.5 |
| 82.5° | 189.6 | 225.4 | 470.2 | 443.4 | 241.8 | 419.5 | 1531.7 | 1731.7 | 716.5 | 243.3 | 100.0 |
| 85° | 55.2 | 67.2 | 303.0 | 322.5 | 103.0 | 80.6 | 261.3 | 324.0 | 135.8 | 64.2 | 44.8 |
| 87.5° | 0.0 | 0.0 | 146.3 | 123.9 | 29.9 | 11.9 | 23.8 | 26.8 | 26.8 | 26.8 | 29.9 |
| 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° | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 | 6411.9 |
| 2.5° | 6437.4 | 6447.8 | 6410.4 | 6361.2 | 6309.0 | 6244.7 | 6177.6 | 6125.3 | 6123.8 | 6098.5 | 6073.0 |
| 5° | 6516.5 | 6510.5 | 6407.5 | 6250.8 | 6065.6 | 5873.0 | 5689.4 | 5481.9 | 5413.2 | 5328.2 | 5299.8 |
| 7.5° | 6662.8 | 6621.0 | 6403.0 | 6059.6 | 5653.6 | 5250.5 | 4834.0 | 4414.5 | 4235.4 | 4074.1 | 4045.7 |
| 10° | 6846.4 | 6767.3 | 6374.7 | 5773.0 | 5028.0 | 4284.6 | 3656.1 | 3085.8 | 2835.0 | 2642.4 | 2633.5 |
| 12.5° | 7037.5 | 6916.6 | 6295.5 | 5340.1 | 4208.5 | 3163.4 | 2439.4 | 1878.1 | 1669.1 | 1534.7 | 1546.6 |
| 15° | 7237.6 | 7056.9 | 6125.3 | 4756.4 | 3275.4 | 2146.8 | 1498.9 | 1168.9 | 1085.3 | 1051.0 | 1059.9 |
| 17.5° | 7442.0 | 7153.9 | 5887.9 | 4053.2 | 2354.3 | 1385.4 | 1037.6 | 945.0 | 945.0 | 952.5 | 955.5 |
| 20° | 7619.7 | 7206.2 | 5538.6 | 3265.0 | 1595.9 | 1009.2 | 907.7 | 894.3 | 901.7 | 913.7 | 915.2 |
| 22.5° | 7795.8 | 7209.2 | 5083.3 | 2466.3 | 1116.6 | 883.8 | 864.4 | 858.4 | 862.9 | 876.3 | 877.8 |
| 25° | 7939.2 | 7173.4 | 4513.0 | 1754.1 | 891.2 | 833.0 | 824.0 | 821.1 | 824.0 | 840.5 | 840.5 |
| 27.5° | 7997.4 | 7043.4 | 3817.3 | 1233.1 | 798.7 | 776.3 | 773.3 | 776.3 | 780.8 | 792.7 | 794.2 |
| 30° | 8003.4 | 6816.5 | 3058.9 | 892.8 | 724.1 | 700.2 | 706.1 | 716.5 | 712.1 | 709.1 | 712.1 |
| 32.5° | 8018.3 | 6553.8 | 2319.9 | 734.5 | 661.3 | 624.0 | 616.6 | 616.6 | 598.6 | 588.2 | 582.2 |
| 35° | 8067.6 | 6244.7 | 1682.5 | 659.8 | 597.1 | 553.9 | 525.5 | 492.7 | 458.3 | 440.4 | 436.0 |
| 37.5° | 8145.2 | 5920.8 | 1204.8 | 610.6 | 540.4 | 491.2 | 437.5 | 379.2 | 330.0 | 316.4 | 316.4 |
| 40° | 8287.0 | 5586.4 | 891.2 | 571.8 | 495.7 | 434.5 | 353.8 | 277.7 | 232.9 | 225.4 | 225.4 |
| 42.5° | 8511.0 | 5234.1 | 710.6 | 537.4 | 456.8 | 376.3 | 270.2 | 201.6 | 168.7 | 164.2 | 162.7 |
| 45° | 8743.9 | 4845.9 | 621.1 | 504.6 | 415.0 | 309.0 | 200.0 | 149.3 | 129.9 | 125.4 | 125.4 |
| 47.5° | 8976.8 | 4432.4 | 577.7 | 473.2 | 374.8 | 240.3 | 149.3 | 117.9 | 109.0 | 109.0 | 110.5 |
| 50° | 9173.8 | 4000.9 | 546.4 | 438.9 | 322.5 | 182.1 | 117.9 | 100.0 | 97.1 | 103.0 | 104.5 |
| 52.5° | 9223.1 | 3577.0 | 507.6 | 395.6 | 258.2 | 138.8 | 97.1 | 88.1 | 88.1 | 88.1 | 88.1 |
| 55° | 9193.3 | 3248.5 | 456.8 | 341.9 | 191.1 | 110.5 | 83.6 | 77.6 | 76.1 | 76.1 | 76.1 |
| 57.5° | 9294.7 | 3054.5 | 365.7 | 265.8 | 137.3 | 89.6 | 73.1 | 68.7 | 65.7 | 64.2 | 64.2 |
| 60° | 9499.3 | 2927.6 | 261.3 | 191.1 | 103.0 | 74.6 | 62.7 | 58.2 | 53.8 | 50.8 | 50.8 |
| 62.5° | 9771.0 | 2817.1 | 194.0 | 141.8 | 79.1 | 59.7 | 52.3 | 47.8 | 41.8 | 38.8 | 38.8 |
| 65° | 9979.9 | 2620.1 | 147.8 | 106.0 | 59.7 | 47.8 | 40.3 | 38.8 | 29.9 | 26.8 | 25.3 |
| 67.5° | 9660.5 | 2187.1 | 119.4 | 77.6 | 44.8 | 37.4 | 31.4 | 29.9 | 17.9 | 14.9 | 14.9 |
| 70° | 8285.6 | 1522.7 | 95.6 | 56.7 | 32.9 | 29.9 | 25.3 | 19.4 | 13.4 | 11.9 | 11.9 |
| 71° | 7513.8 | 1271.9 | 86.6 | 47.8 | 28.3 | 28.3 | 23.8 | 16.4 | 11.9 | 10.4 | 10.4 |
| 72.5° | 6241.7 | 903.2 | 73.1 | 37.4 | 25.3 | 29.9 | 25.3 | 14.9 | 11.9 | 10.4 | 8.9 |
| 75° | 3623.3 | 377.7 | 50.8 | 25.3 | 19.4 | 35.9 | 32.9 | 13.4 | 8.9 | 7.5 | 7.5 |
| 77.5° | 1089.8 | 138.8 | 28.3 | 16.4 | 14.9 | 31.4 | 37.4 | 11.9 | 4.5 | 1.5 | 1.5 |
| 80° | 198.5 | 59.7 | 17.9 | 10.4 | 10.4 | 19.4 | 28.3 | 6.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 70.1 | 29.9 | 10.4 | 6.0 | 4.5 | 8.9 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 40.3 | 20.9 | 6.0 | 3.0 | 0.0 | 1.5 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.8 | 6.0 | 0.0 | 0.0 | 0.0 | 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)