

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: P382624

Luminaire Tested: **GLEON-SA0A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31143.5 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

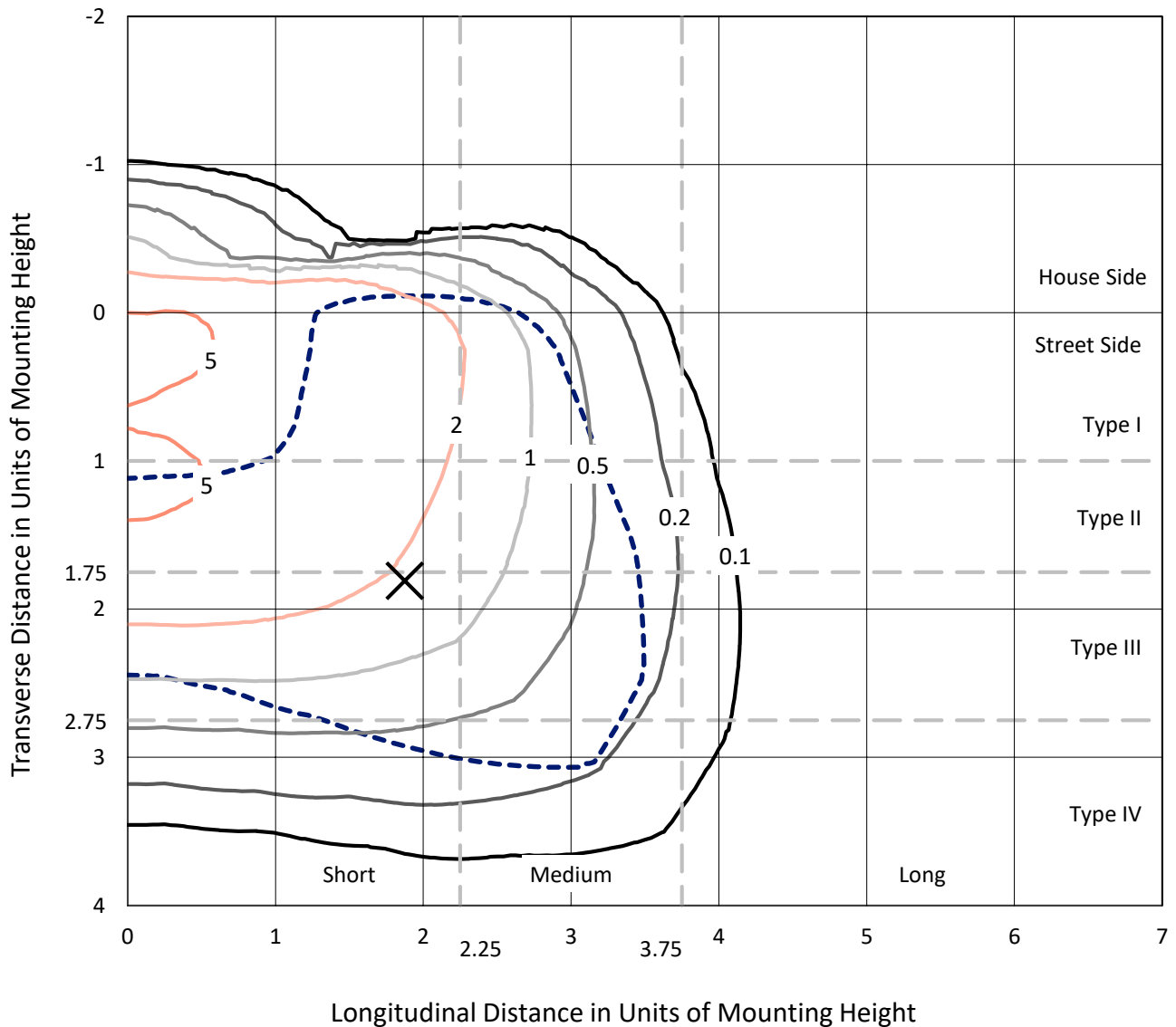
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

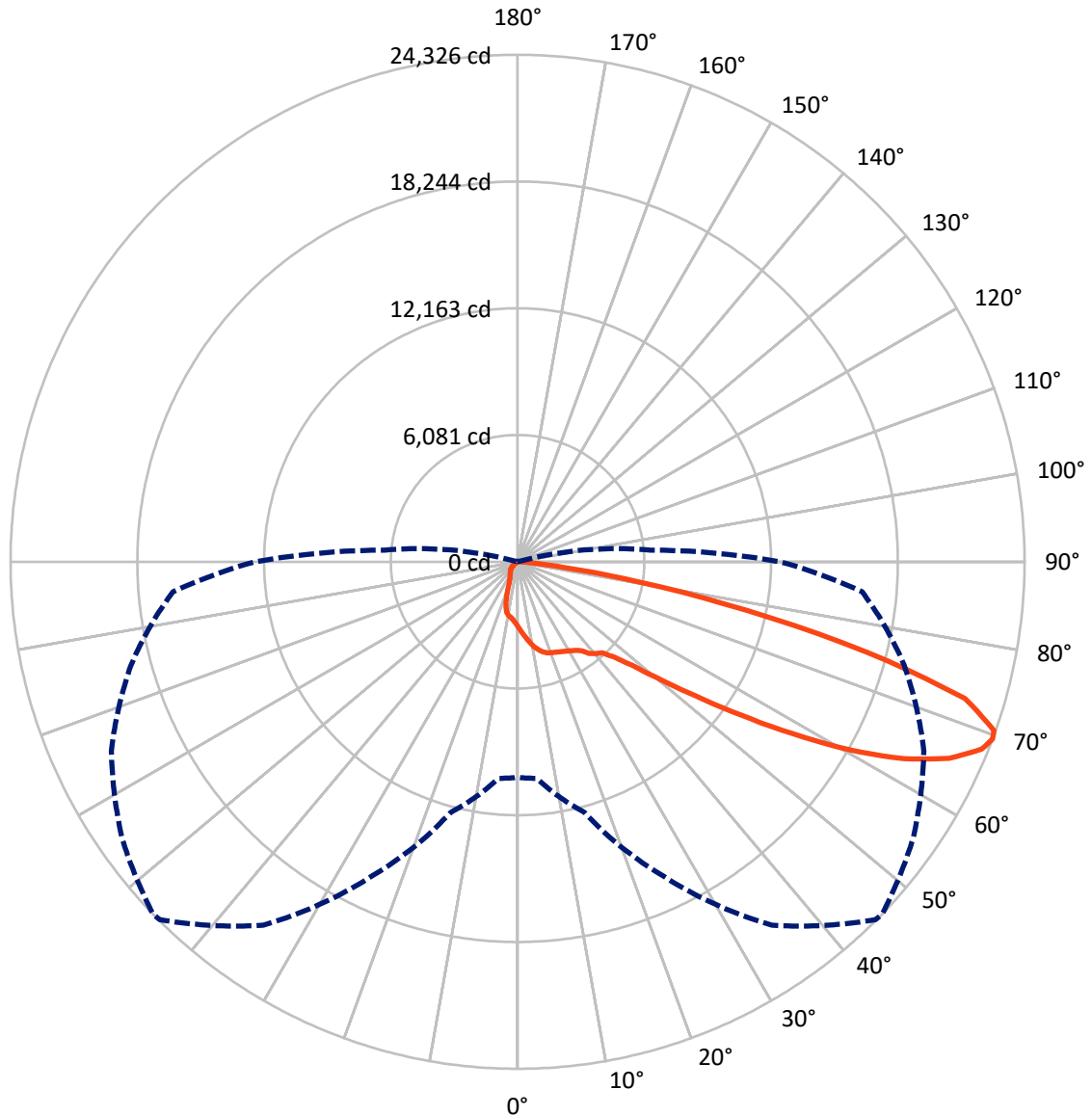
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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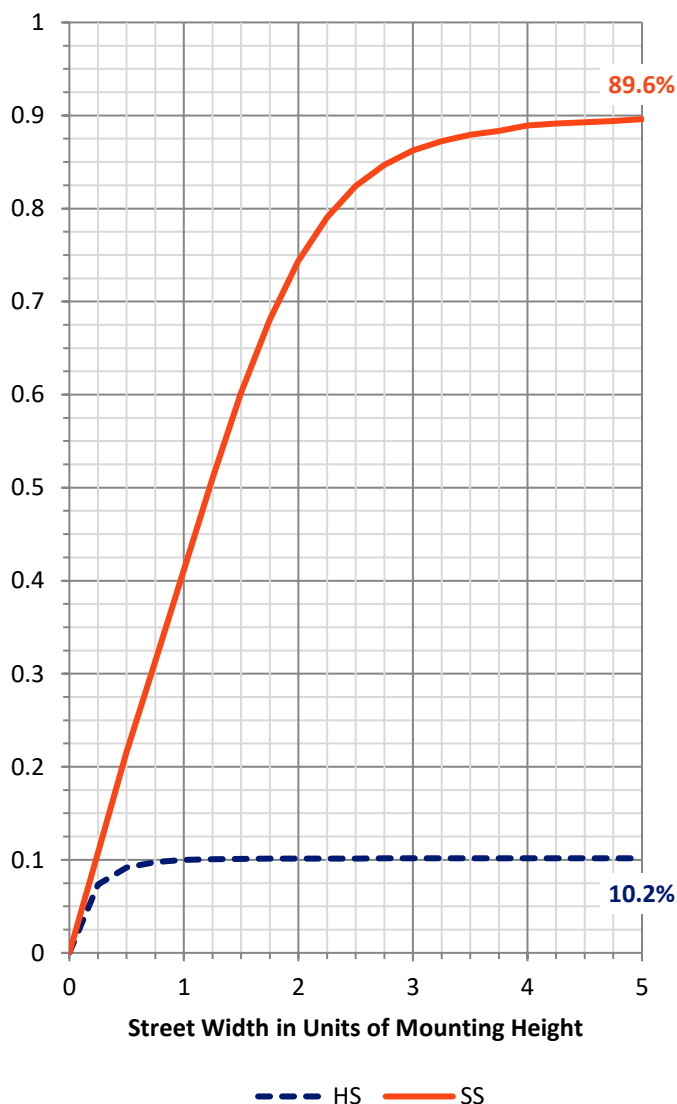
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3196.2 | 0.0 | 3196.2 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 27947.3 | 0.0 | 27947.3 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 31143.5 | 0.0 | 31143.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.6 | 1.0 |
| 10°-20° | 942.3 | 3.0 |
| 20°-30° | 1481.9 | 4.8 |
| 30°-40° | 2125.0 | 6.8 |
| 40°-50° | 3672.8 | 11.8 |
| 50°-60° | 7256.0 | 23.3 |
| 60°-70° | 10140.9 | 32.6 |
| 70°-80° | 4899.2 | 15.7 |
| 80°-90° | 314.9 | 1.0 |
| 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° | 31143.5 | 100.0 |
| 0°-180° | 31143.5 | 100.0 |

Coefficient of Utilization

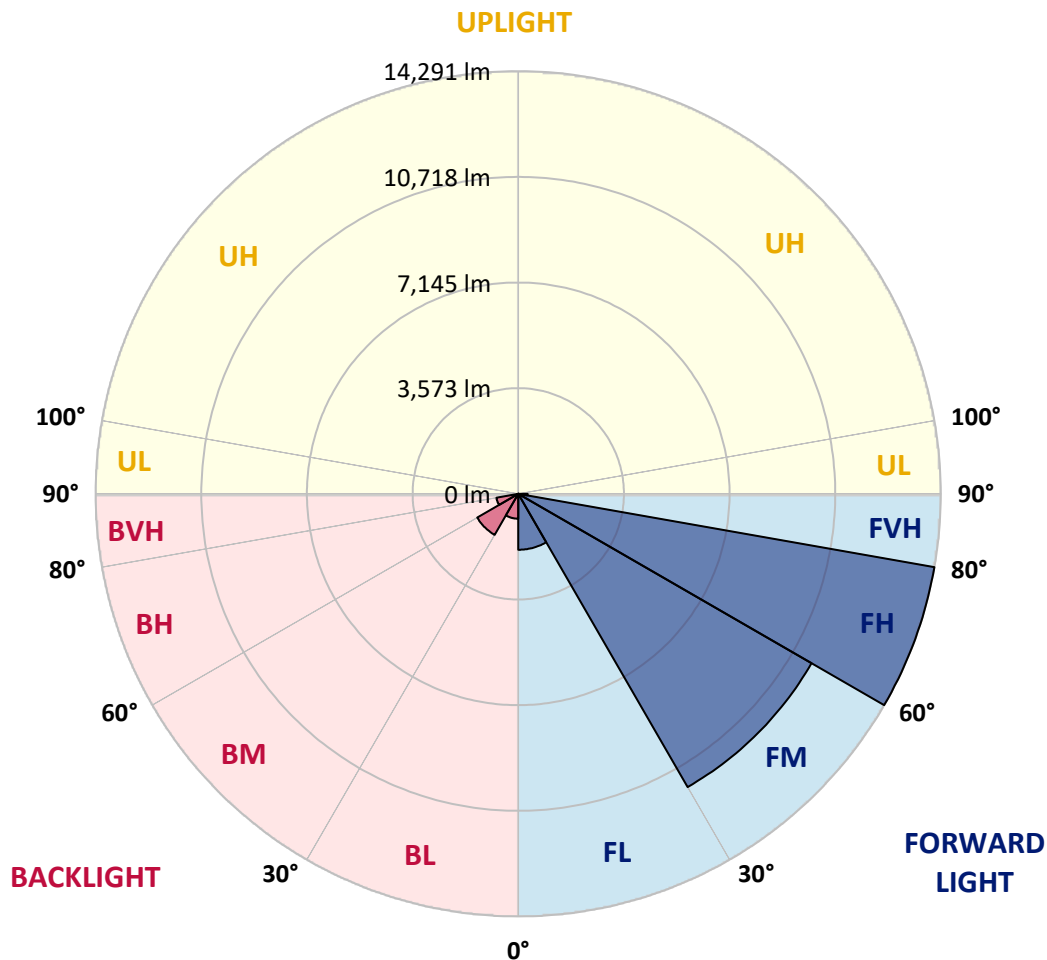


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1892.3 | 6.1 | | | |
| FM (30°-60°) | 11452.2 | 36.8 | | | |
| FH (60°-80°) | 14290.6 | 45.9 | | | G5 |
| FVH (80°-90°) | 312.2 | 1.0 | | | G3/500 |
| BL (0°-30°) | 842.4 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1601.7 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 749.4 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.6 | 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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 |
| 2.5° | 3466.6 | 3462.2 | 3441.7 | 3432.9 | 3383.3 | 3354.1 | 3342.4 | 3305.9 | 3253.3 | 3200.8 | 3142.4 |
| 5° | 3860.8 | 3859.3 | 3821.4 | 3784.9 | 3691.4 | 3603.8 | 3587.8 | 3503.0 | 3384.8 | 3273.7 | 3162.8 |
| 7.5° | 4263.8 | 4244.8 | 4206.9 | 4136.7 | 4001.0 | 3860.8 | 3847.7 | 3727.9 | 3560.0 | 3399.4 | 3240.2 |
| 10° | 4605.5 | 4593.8 | 4544.2 | 4437.6 | 4278.4 | 4119.2 | 4103.2 | 3955.7 | 3765.9 | 3568.8 | 3365.8 |
| 12.5° | 4871.2 | 4862.5 | 4796.8 | 4663.9 | 4494.5 | 4329.6 | 4307.6 | 4176.2 | 3973.2 | 3752.7 | 3513.2 |
| 15° | 5033.3 | 5029.0 | 4948.7 | 4807.0 | 4640.5 | 4497.4 | 4478.4 | 4363.1 | 4174.7 | 3944.0 | 3673.8 |
| 17.5° | 5071.3 | 5072.7 | 4989.6 | 4846.5 | 4709.2 | 4607.0 | 4592.3 | 4504.8 | 4347.1 | 4117.8 | 3834.5 |
| 20° | 4986.6 | 5004.1 | 4929.7 | 4805.6 | 4720.8 | 4666.9 | 4655.1 | 4602.6 | 4469.7 | 4253.5 | 3963.0 |
| 22.5° | 4866.9 | 4875.6 | 4824.5 | 4741.3 | 4706.3 | 4716.4 | 4710.6 | 4681.4 | 4569.0 | 4370.4 | 4090.1 |
| 25° | 4793.8 | 4793.8 | 4763.2 | 4693.1 | 4716.4 | 4779.2 | 4780.7 | 4774.8 | 4685.8 | 4513.5 | 4244.8 |
| 27.5° | 4790.9 | 4782.2 | 4747.2 | 4694.5 | 4758.8 | 4855.2 | 4861.0 | 4900.5 | 4845.0 | 4687.3 | 4437.6 |
| 30° | 4907.8 | 4897.5 | 4823.1 | 4754.4 | 4836.2 | 4939.9 | 4954.4 | 5040.6 | 5012.8 | 4875.6 | 4652.2 |
| 32.5° | 5180.8 | 5144.3 | 4979.3 | 4866.9 | 4928.2 | 5052.3 | 5071.3 | 5208.6 | 5252.3 | 5107.8 | 4859.6 |
| 35° | 5554.6 | 5439.3 | 5201.3 | 5080.1 | 5085.9 | 5215.8 | 5233.3 | 5434.9 | 5564.9 | 5321.0 | 5020.2 |
| 37.5° | 6070.1 | 6013.1 | 5626.2 | 5302.0 | 5328.3 | 5525.4 | 5576.5 | 5795.5 | 5759.0 | 5437.8 | 5202.7 |
| 40° | 7200.3 | 7111.2 | 6699.4 | 5924.1 | 5560.5 | 5776.6 | 5792.6 | 5909.5 | 5912.3 | 5702.1 | 5582.4 |
| 42.5° | 8739.3 | 8702.8 | 8269.2 | 7052.8 | 6017.5 | 5944.5 | 5973.7 | 6170.9 | 6391.3 | 6259.9 | 6254.0 |
| 45° | 10443.4 | 10424.4 | 9964.5 | 8551.0 | 6941.8 | 6495.0 | 6531.5 | 6795.8 | 7217.8 | 7247.0 | 7432.4 |
| 47.5° | 11814.5 | 11805.8 | 11541.5 | 10222.9 | 8356.7 | 7428.1 | 7439.7 | 7720.1 | 8461.9 | 8828.4 | 9124.8 |
| 50° | 13064.5 | 13106.8 | 12898.0 | 12032.1 | 10284.2 | 8889.8 | 8862.0 | 9048.9 | 10240.4 | 10840.6 | 11208.6 |
| 52.5° | 14802.1 | 14862.0 | 14276.4 | 13720.1 | 12306.6 | 10703.3 | 10681.4 | 10877.1 | 12378.2 | 12827.9 | 12893.6 |
| 55° | 16336.8 | 16234.5 | 15771.7 | 15611.1 | 14772.9 | 12943.3 | 12937.4 | 13109.8 | 14445.8 | 14637.1 | 14758.3 |
| 57.5° | 17014.3 | 16974.9 | 17198.3 | 17566.3 | 17356.0 | 15590.7 | 15577.5 | 15446.1 | 16295.9 | 16316.3 | 16688.7 |
| 60° | 17442.2 | 17490.4 | 18175.2 | 19309.8 | 19834.0 | 18439.5 | 18354.8 | 17553.2 | 18062.8 | 18017.5 | 18416.1 |
| 62.5° | 17120.9 | 17215.8 | 18448.3 | 20339.2 | 21688.5 | 20926.2 | 20806.5 | 19483.5 | 19572.7 | 19416.3 | 19787.3 |
| 65° | 15415.4 | 15562.9 | 17582.3 | 20145.0 | 22608.4 | 22869.8 | 22748.6 | 21187.6 | 20771.5 | 20514.4 | 20308.6 |
| 67.5° | 12516.9 | 12604.5 | 14713.0 | 18455.5 | 22193.7 | 24029.2 | 24004.3 | 22681.4 | 21676.7 | 20329.0 | 18731.6 |
| 69° | 10344.1 | 10430.3 | 12459.9 | 16677.0 | 21281.0 | 24277.4 | 24325.6 | 23160.3 | 21504.5 | 19201.7 | 16596.7 |
| 70° | 8761.2 | 8853.2 | 10744.2 | 15152.6 | 20222.4 | 24162.0 | 24248.2 | 23115.0 | 21011.0 | 17896.3 | 14723.3 |
| 72.5° | 4595.2 | 4674.1 | 6614.7 | 10439.0 | 16485.7 | 22186.4 | 22447.8 | 21161.3 | 17810.2 | 12997.3 | 8705.8 |
| 75° | 1444.2 | 1489.5 | 2583.1 | 5456.8 | 11287.4 | 17250.9 | 17310.8 | 16599.6 | 12646.9 | 7149.2 | 3625.7 |
| 77.5° | 550.5 | 537.3 | 860.1 | 2010.7 | 5706.5 | 10862.5 | 11229.0 | 10373.3 | 6636.6 | 2527.7 | 836.7 |
| 80° | 296.4 | 297.9 | 446.9 | 832.3 | 2441.5 | 5582.4 | 5891.9 | 5027.5 | 2358.2 | 788.6 | 192.7 |
| 82.5° | 128.5 | 134.3 | 251.1 | 441.0 | 1121.4 | 2058.9 | 2213.6 | 1842.8 | 901.0 | 530.1 | 71.5 |
| 85° | 27.8 | 30.6 | 121.2 | 239.5 | 457.0 | 578.2 | 606.0 | 597.2 | 573.8 | 411.7 | 27.8 |
| 87.5° | 0.0 | 0.0 | 54.0 | 86.2 | 115.3 | 131.4 | 115.3 | 150.4 | 316.8 | 277.4 | 14.6 |
| 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° | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 | 3120.5 |
| 2.5° | 3123.4 | 3097.1 | 3051.8 | 3002.2 | 2967.2 | 2930.6 | 2901.4 | 2888.3 | 2873.7 | 2863.5 | 2876.6 |
| 5° | 3117.5 | 3066.5 | 2978.8 | 2894.1 | 2832.8 | 2783.2 | 2742.3 | 2726.2 | 2710.2 | 2698.5 | 2697.0 |
| 7.5° | 3168.7 | 3097.1 | 2962.8 | 2838.6 | 2743.7 | 2676.5 | 2621.1 | 2597.7 | 2578.7 | 2570.0 | 2562.7 |
| 10° | 3266.5 | 3174.5 | 2994.9 | 2832.8 | 2710.2 | 2596.2 | 2476.5 | 2384.5 | 2324.7 | 2296.9 | 2286.7 |
| 12.5° | 3393.5 | 3278.2 | 3056.2 | 2863.5 | 2685.3 | 2466.3 | 2212.2 | 1993.1 | 1851.5 | 1804.8 | 1777.1 |
| 15° | 3542.5 | 3399.4 | 3136.5 | 2902.9 | 2594.8 | 2194.7 | 1763.9 | 1477.7 | 1346.3 | 1320.0 | 1290.8 |
| 17.5° | 3685.6 | 3527.9 | 3232.9 | 2910.2 | 2396.2 | 1753.7 | 1292.2 | 1098.1 | 1047.0 | 1064.5 | 1068.9 |
| 20° | 3811.1 | 3654.9 | 3327.8 | 2846.0 | 2035.5 | 1315.6 | 1000.2 | 952.0 | 971.0 | 1004.6 | 1010.4 |
| 22.5° | 3938.2 | 3777.5 | 3415.4 | 2676.5 | 1574.1 | 998.8 | 901.0 | 912.6 | 931.6 | 965.2 | 971.0 |
| 25° | 4092.9 | 3926.5 | 3497.2 | 2365.6 | 1181.3 | 849.9 | 855.7 | 873.2 | 892.1 | 922.9 | 925.8 |
| 27.5° | 4271.1 | 4114.8 | 3551.2 | 1961.1 | 876.1 | 781.2 | 800.2 | 826.5 | 845.5 | 874.6 | 880.5 |
| 30° | 4507.7 | 4363.1 | 3568.8 | 1542.0 | 734.5 | 719.9 | 728.7 | 760.8 | 788.6 | 814.8 | 819.2 |
| 32.5° | 4729.7 | 4608.5 | 3510.4 | 1163.8 | 680.5 | 662.9 | 662.9 | 681.9 | 714.0 | 738.9 | 744.7 |
| 35° | 4934.0 | 4855.2 | 3323.4 | 851.3 | 639.6 | 610.3 | 595.7 | 595.7 | 616.2 | 636.6 | 642.5 |
| 37.5° | 5204.2 | 5201.3 | 3021.2 | 679.0 | 600.1 | 566.6 | 535.9 | 512.5 | 505.3 | 509.6 | 512.5 |
| 40° | 5667.1 | 5671.4 | 2626.9 | 609.0 | 566.6 | 521.3 | 474.5 | 432.2 | 392.8 | 379.7 | 378.2 |
| 42.5° | 6389.9 | 6324.2 | 2213.6 | 575.3 | 537.3 | 474.5 | 404.5 | 347.6 | 286.2 | 267.3 | 265.8 |
| 45° | 7537.6 | 7147.7 | 1775.6 | 544.7 | 506.7 | 422.0 | 334.4 | 257.0 | 207.4 | 192.7 | 192.7 |
| 47.5° | 9209.6 | 8229.8 | 1375.5 | 511.0 | 465.8 | 362.1 | 252.6 | 185.5 | 151.8 | 144.6 | 146.1 |
| 50° | 10938.4 | 9289.9 | 1054.2 | 468.8 | 416.1 | 299.3 | 186.9 | 134.3 | 115.3 | 115.3 | 116.8 |
| 52.5° | 12471.7 | 10066.7 | 822.1 | 423.5 | 354.8 | 235.1 | 141.6 | 105.2 | 96.4 | 94.9 | 96.4 |
| 55° | 13907.0 | 10567.5 | 629.4 | 370.8 | 281.8 | 175.2 | 108.1 | 86.2 | 80.3 | 77.4 | 75.9 |
| 57.5° | 15291.3 | 10815.7 | 471.6 | 299.3 | 204.5 | 127.1 | 86.2 | 73.0 | 67.2 | 62.8 | 61.3 |
| 60° | 16212.7 | 10614.2 | 324.2 | 220.5 | 141.6 | 92.0 | 71.5 | 62.8 | 55.5 | 51.1 | 49.7 |
| 62.5° | 16732.6 | 10063.8 | 208.9 | 159.2 | 100.8 | 68.7 | 56.9 | 52.5 | 42.4 | 38.0 | 38.0 |
| 65° | 16522.2 | 9155.5 | 146.1 | 113.9 | 73.0 | 51.1 | 42.4 | 42.4 | 30.6 | 24.8 | 23.4 |
| 67.5° | 14641.5 | 7734.7 | 110.9 | 84.7 | 52.5 | 38.0 | 32.1 | 36.5 | 19.0 | 11.6 | 11.6 |
| 69° | 12597.2 | 6410.4 | 94.9 | 70.1 | 43.8 | 30.6 | 27.8 | 33.6 | 13.1 | 8.8 | 7.3 |
| 70° | 10948.7 | 5529.8 | 86.2 | 61.3 | 36.5 | 26.3 | 24.8 | 32.1 | 13.1 | 7.3 | 5.9 |
| 72.5° | 6550.5 | 3084.0 | 65.7 | 43.8 | 23.4 | 20.4 | 20.4 | 36.5 | 13.1 | 7.3 | 5.9 |
| 75° | 2647.4 | 1086.4 | 48.2 | 30.6 | 17.5 | 17.5 | 24.8 | 46.8 | 11.6 | 5.9 | 4.4 |
| 77.5° | 600.1 | 238.0 | 27.8 | 19.0 | 11.6 | 17.5 | 29.3 | 36.5 | 7.3 | 2.9 | 0.0 |
| 80° | 146.1 | 58.4 | 17.5 | 11.6 | 7.3 | 13.1 | 21.9 | 20.4 | 1.5 | 0.0 | 0.0 |
| 82.5° | 48.2 | 20.4 | 7.3 | 5.9 | 1.5 | 4.4 | 10.2 | 5.9 | 0.0 | 0.0 | 0.0 |
| 85° | 20.4 | 11.6 | 2.9 | 1.5 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.1 | 4.4 | 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)