

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: P457827

Luminaire Tested: **GALN-SA9B-722-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31193 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

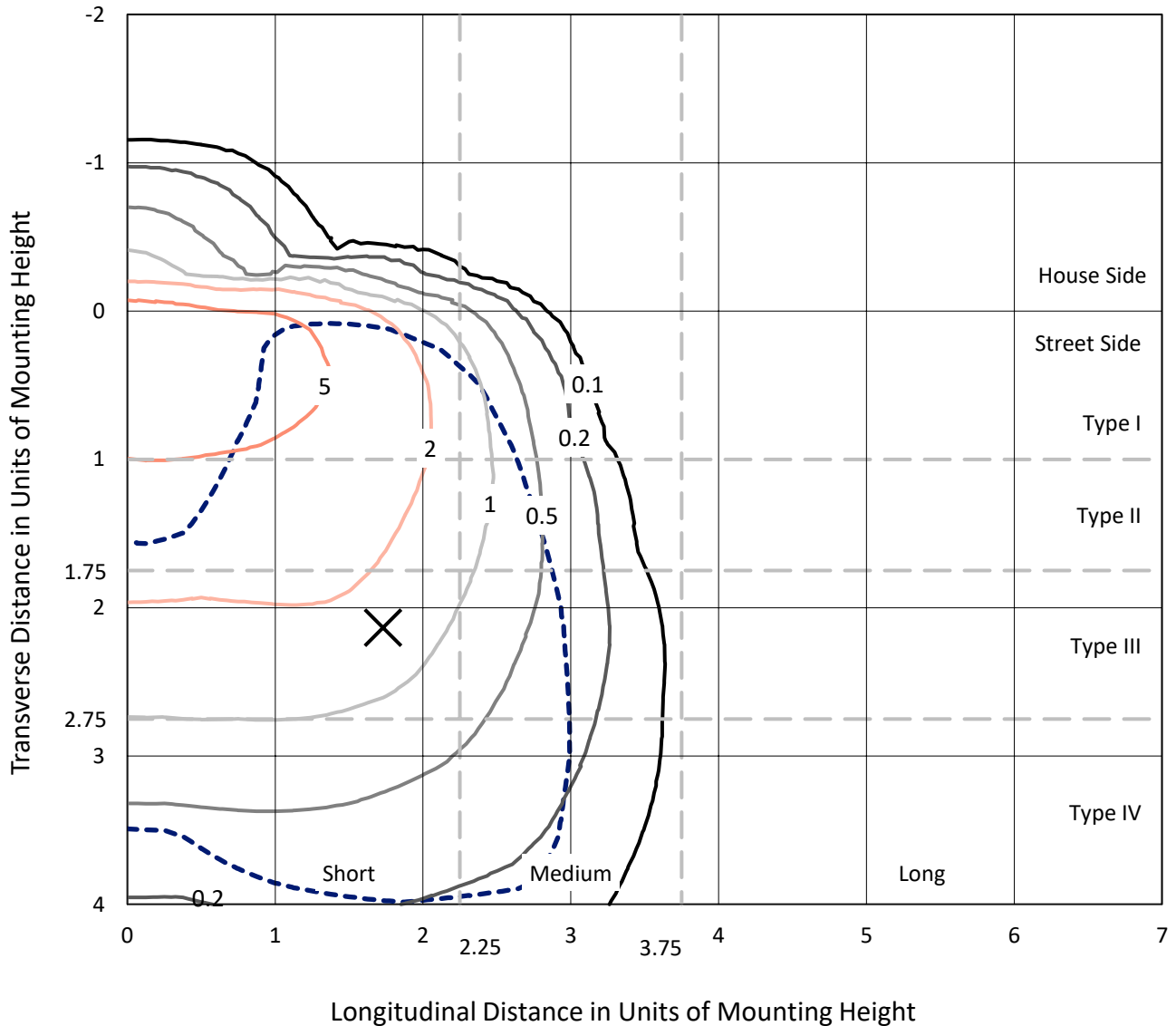
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

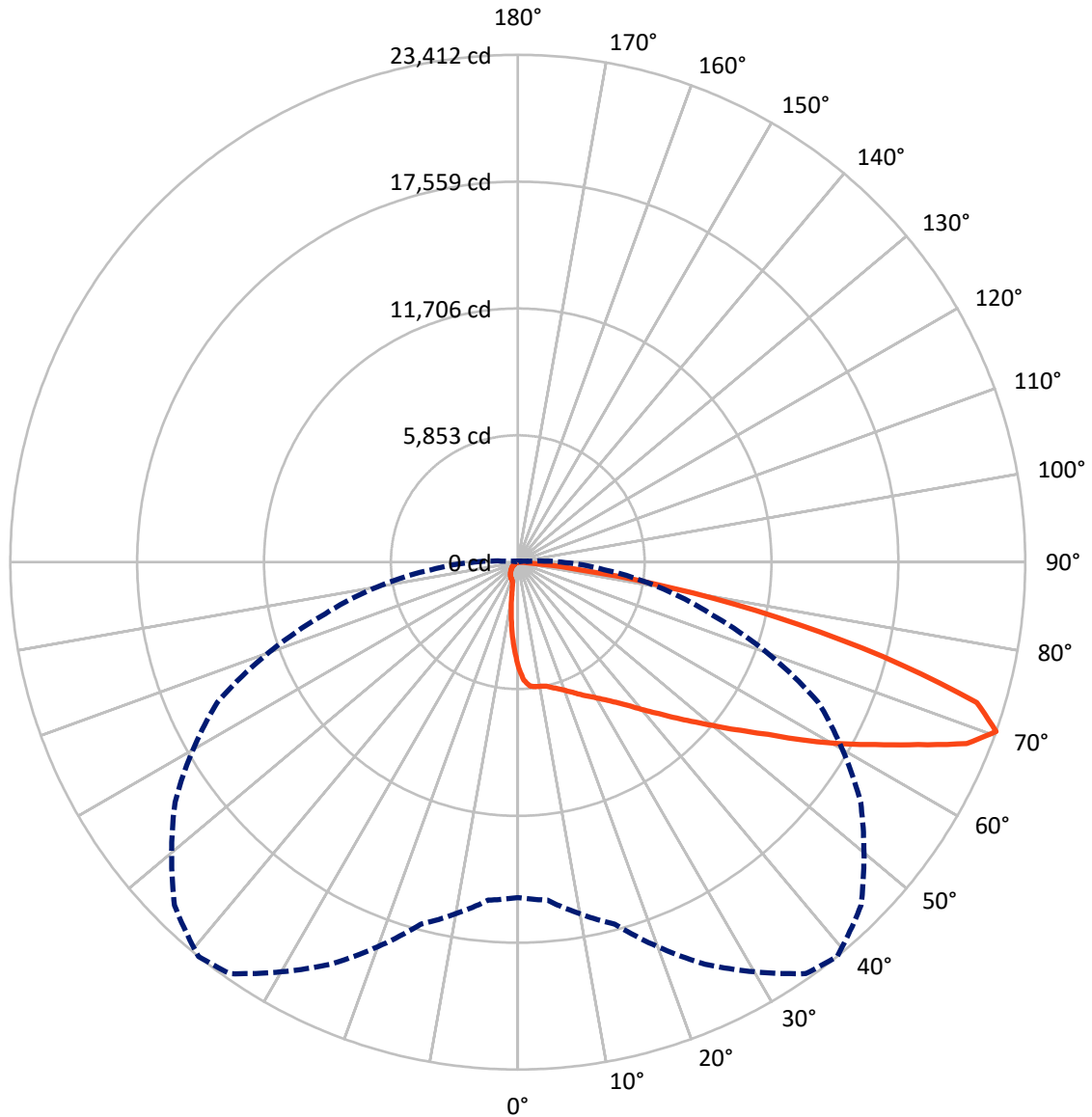
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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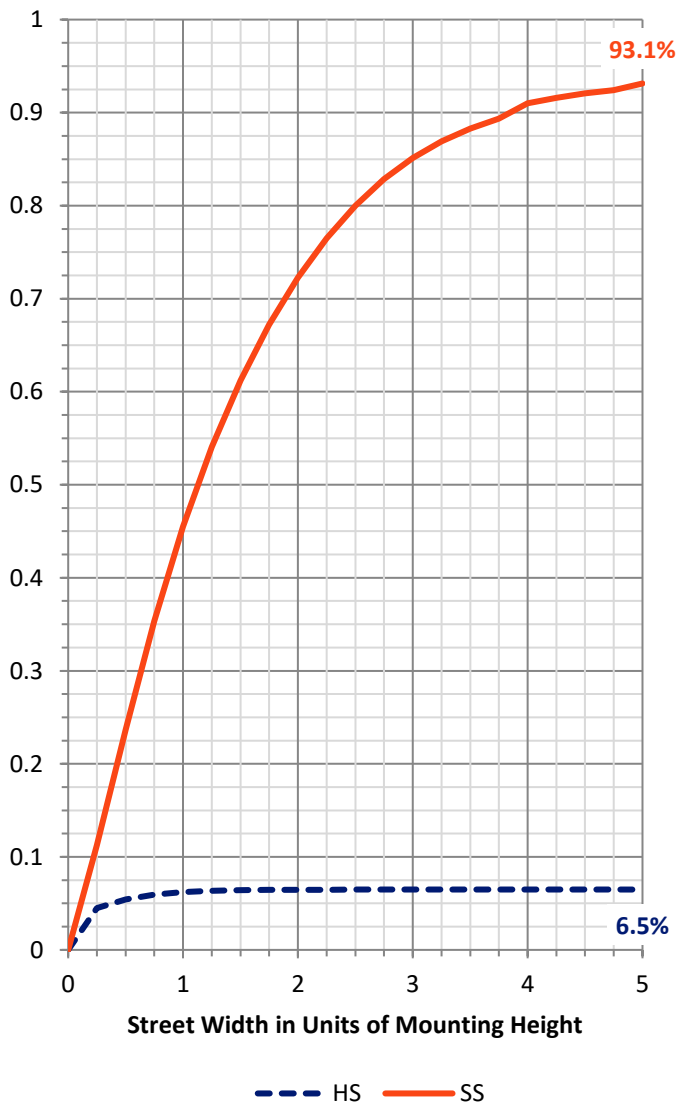
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2033.9 | 0.0 | 2033.9 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 29159.1 | 0.0 | 29159.1 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 31193.0 | 0.0 | 31193.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 415.1 | 1.3 |
| 10°-20° | 1078.8 | 3.5 |
| 20°-30° | 1807.3 | 5.8 |
| 30°-40° | 2802.9 | 9.0 |
| 40°-50° | 4441.8 | 14.2 |
| 50°-60° | 6511.0 | 20.9 |
| 60°-70° | 8345.6 | 26.8 |
| 70°-80° | 5244.1 | 16.8 |
| 80°-90° | 546.3 | 1.8 |
| 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° | 31193.0 | 100.0 |
| 0°-180° | 31193.0 | 100.0 |

Coefficient of Utilization



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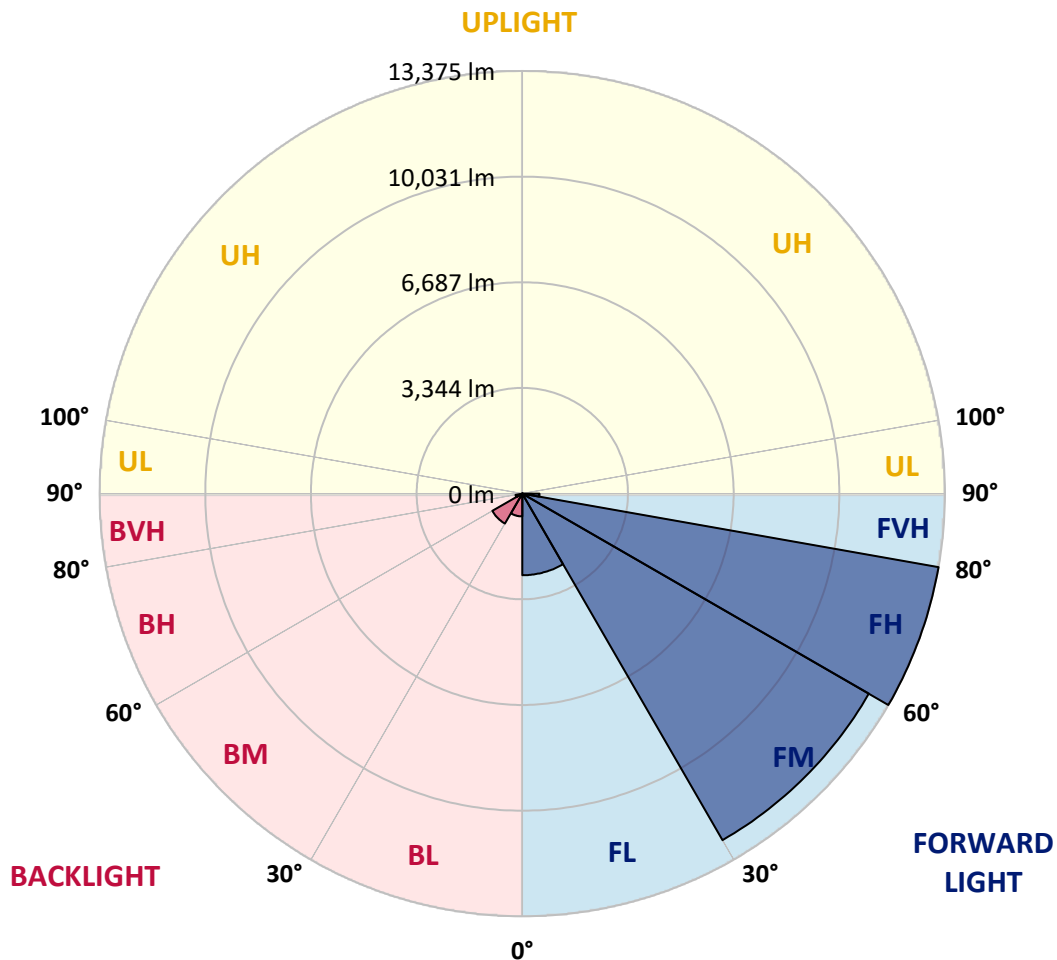
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 2581.1 | 8.3 | | | |
| FM | (30°-60°) | 12661.2 | 40.6 | | | |
| FH | (60°-80°) | 13374.5 | 42.9 | | | G5 |
| FVH | (80°-90°) | 542.3 | 1.7 | | | G4/750 |
| BL | (0°-30°) | 720.2 | 2.3 | B2/1000 | | |
| BM | (30°-60°) | 1094.6 | 3.5 | B2/2500 | | |
| BH | (60°-80°) | 215.1 | 0.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.0 | 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° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 |
| 2.5° | 5623.9 | 5605.0 | 5579.9 | 5550.5 | 5466.7 | 5452.0 | 5401.7 | 5294.8 | 5166.9 | 5062.1 | 4917.5 |
| 5° | 5890.1 | 5900.6 | 5881.7 | 5829.3 | 5768.5 | 5732.9 | 5670.0 | 5504.4 | 5338.8 | 5127.1 | 4890.2 |
| 7.5° | 5950.9 | 5971.8 | 5948.8 | 5898.5 | 5839.8 | 5802.0 | 5751.7 | 5609.2 | 5416.4 | 5175.3 | 4850.4 |
| 10° | 5944.6 | 5969.7 | 5955.1 | 5908.9 | 5860.7 | 5825.1 | 5770.6 | 5657.4 | 5502.3 | 5248.7 | 4863.0 |
| 12.5° | 5934.1 | 5967.6 | 5965.5 | 5942.5 | 5902.7 | 5875.4 | 5841.9 | 5741.3 | 5596.6 | 5355.6 | 4932.2 |
| 15° | 5904.8 | 5946.7 | 5984.4 | 6003.3 | 6005.4 | 6005.4 | 5963.4 | 5856.5 | 5718.2 | 5496.0 | 5022.3 |
| 17.5° | 5917.3 | 5965.5 | 6059.9 | 6114.4 | 6152.1 | 6147.9 | 6103.9 | 5988.6 | 5835.6 | 5640.6 | 5116.6 |
| 20° | 5994.9 | 6059.9 | 6191.9 | 6300.9 | 6338.7 | 6326.1 | 6267.4 | 6133.2 | 5959.3 | 5764.3 | 5208.8 |
| 22.5° | 6185.6 | 6244.3 | 6409.9 | 6537.8 | 6565.0 | 6531.5 | 6447.6 | 6265.3 | 6108.1 | 5898.5 | 5319.9 |
| 25° | 6470.7 | 6539.9 | 6692.9 | 6789.3 | 6789.3 | 6770.4 | 6653.1 | 6439.3 | 6275.8 | 6085.0 | 5464.6 |
| 27.5° | 6816.6 | 6875.3 | 7026.2 | 7112.1 | 7061.8 | 7007.3 | 6889.9 | 6632.1 | 6474.9 | 6319.8 | 5638.5 |
| 30° | 7166.6 | 7204.3 | 7363.7 | 7401.4 | 7349.0 | 7279.8 | 7154.0 | 6896.2 | 6757.9 | 6638.4 | 5890.1 |
| 32.5° | 7497.8 | 7579.6 | 7711.6 | 7703.2 | 7632.0 | 7598.4 | 7483.1 | 7208.5 | 7131.0 | 7118.4 | 6242.2 |
| 35° | 7829.0 | 7891.9 | 8009.3 | 8038.6 | 7975.7 | 7969.4 | 7885.6 | 7682.3 | 7684.4 | 7766.1 | 6791.4 |
| 37.5° | 8114.1 | 8170.7 | 8309.0 | 8374.0 | 8386.6 | 8418.0 | 8384.5 | 8250.3 | 8441.1 | 8665.3 | 7518.8 |
| 40° | 8353.0 | 8432.7 | 8608.7 | 8721.9 | 8851.9 | 8967.2 | 8973.5 | 9002.8 | 9386.4 | 9772.1 | 8468.3 |
| 42.5° | 8539.6 | 8650.7 | 8906.4 | 9116.0 | 9413.7 | 9560.4 | 9677.8 | 9839.2 | 10484.8 | 11061.2 | 9587.6 |
| 45° | 8782.7 | 8910.6 | 9229.2 | 9558.3 | 10023.6 | 10264.7 | 10428.2 | 10860.0 | 11776.0 | 12562.0 | 10736.3 |
| 47.5° | 9185.2 | 9252.2 | 9577.1 | 10057.2 | 10669.2 | 11013.0 | 11331.6 | 11985.6 | 13161.5 | 13865.8 | 11692.1 |
| 50° | 9702.9 | 9746.9 | 9992.2 | 10658.7 | 11451.1 | 11903.8 | 12484.5 | 13253.7 | 14599.4 | 14947.4 | 12232.9 |
| 52.5° | 10275.2 | 10289.8 | 10474.3 | 11321.1 | 12327.2 | 12897.4 | 13547.2 | 14496.7 | 15771.2 | 15718.8 | 12591.4 |
| 55° | 10939.6 | 10918.7 | 11075.9 | 12040.1 | 13364.8 | 14016.7 | 14773.4 | 15769.1 | 16787.8 | 16265.8 | 12796.8 |
| 57.5° | 11700.5 | 11643.9 | 11796.9 | 12993.8 | 14693.8 | 15473.5 | 16242.8 | 16867.4 | 17575.9 | 16724.9 | 12895.3 |
| 60° | 12497.0 | 12383.8 | 12566.2 | 14064.9 | 16259.6 | 16999.5 | 17638.8 | 17806.5 | 18406.0 | 17089.6 | 12725.5 |
| 62.5° | 13132.2 | 13134.3 | 13473.8 | 15205.2 | 17869.4 | 18517.1 | 18856.6 | 19007.6 | 19120.8 | 17010.0 | 11832.6 |
| 65° | 14123.6 | 14157.2 | 14700.1 | 16787.8 | 19732.8 | 20294.6 | 20527.2 | 20036.8 | 19152.2 | 16020.6 | 10491.1 |
| 67.5° | 15146.5 | 15253.4 | 16247.0 | 18967.7 | 21885.5 | 22338.3 | 22038.5 | 20235.9 | 18297.0 | 13763.1 | 7954.8 |
| 70° | 15479.8 | 15655.9 | 17292.9 | 20468.6 | 23176.7 | 23411.5 | 22397.0 | 19307.3 | 15295.3 | 9201.9 | 4003.6 |
| 72.5° | 14184.4 | 14469.5 | 16691.4 | 19921.5 | 22353.0 | 22149.6 | 20038.9 | 16192.5 | 9723.9 | 3494.2 | 1222.0 |
| 75° | 10002.7 | 10128.4 | 13872.1 | 16525.8 | 17978.4 | 17401.9 | 15242.9 | 10438.7 | 3999.4 | 981.0 | 419.2 |
| 77.5° | 5164.8 | 5104.0 | 8250.3 | 10964.8 | 12821.9 | 12224.5 | 9981.7 | 5403.8 | 1515.5 | 408.7 | 259.9 |
| 80° | 2670.4 | 2714.5 | 3569.7 | 5745.4 | 7826.9 | 7202.2 | 5322.0 | 2504.9 | 807.0 | 226.4 | 199.1 |
| 82.5° | 1496.6 | 1404.4 | 2052.1 | 2509.0 | 3659.8 | 2869.6 | 2041.6 | 1773.3 | 352.1 | 136.2 | 188.7 |
| 85° | 272.5 | 285.1 | 1125.6 | 1356.2 | 1270.2 | 807.0 | 658.2 | 1184.3 | 102.7 | 75.5 | 132.1 |
| 87.5° | 4.2 | 4.2 | 218.0 | 389.9 | 247.3 | 113.2 | 207.5 | 169.8 | 21.0 | 29.3 | 23.1 |
| 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° | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 | 4867.2 |
| 2.5° | 4844.1 | 4764.5 | 4615.6 | 4468.9 | 4282.4 | 4129.3 | 4026.6 | 3919.7 | 3810.7 | 3819.1 | 3844.3 |
| 5° | 4760.3 | 4621.9 | 4328.5 | 4018.3 | 3720.6 | 3452.3 | 3188.2 | 2951.3 | 2854.9 | 2766.9 | 2771.1 |
| 7.5° | 4676.4 | 4481.5 | 4051.8 | 3565.5 | 3114.8 | 2657.9 | 2326.7 | 2054.2 | 1909.6 | 1800.6 | 1769.1 |
| 10° | 4638.7 | 4380.9 | 3798.2 | 3129.5 | 2490.2 | 1991.3 | 1565.8 | 1343.6 | 1171.7 | 1117.2 | 1131.9 |
| 12.5° | 4655.5 | 4330.6 | 3569.7 | 2735.4 | 1974.5 | 1387.6 | 1090.0 | 976.8 | 939.1 | 932.8 | 928.6 |
| 15° | 4686.9 | 4294.9 | 3345.4 | 2299.4 | 1450.5 | 1031.3 | 916.0 | 895.0 | 890.8 | 886.7 | 888.8 |
| 17.5° | 4728.8 | 4263.5 | 3106.4 | 1890.7 | 1113.0 | 901.3 | 867.8 | 857.3 | 855.2 | 855.2 | 855.2 |
| 20° | 4770.8 | 4227.9 | 2840.2 | 1526.0 | 928.6 | 851.0 | 830.1 | 823.8 | 821.7 | 821.7 | 819.6 |
| 22.5° | 4819.0 | 4196.4 | 2569.8 | 1199.0 | 855.2 | 815.4 | 796.5 | 792.3 | 790.2 | 788.1 | 788.1 |
| 25° | 4888.1 | 4156.6 | 2282.7 | 981.0 | 809.1 | 781.9 | 763.0 | 758.8 | 756.7 | 748.3 | 750.4 |
| 27.5° | 4980.4 | 4127.2 | 1987.1 | 846.8 | 767.2 | 739.9 | 727.4 | 721.1 | 716.9 | 710.6 | 712.7 |
| 30° | 5106.1 | 4102.1 | 1672.7 | 773.5 | 719.0 | 695.9 | 683.3 | 679.1 | 674.9 | 668.7 | 668.7 |
| 32.5° | 5324.1 | 4112.6 | 1341.5 | 714.8 | 674.9 | 647.7 | 635.1 | 630.9 | 626.7 | 620.4 | 620.4 |
| 35° | 5651.1 | 4173.4 | 1073.2 | 664.5 | 622.5 | 595.3 | 582.7 | 582.7 | 576.4 | 568.0 | 566.0 |
| 37.5° | 6185.6 | 4328.5 | 861.5 | 616.3 | 572.2 | 547.1 | 532.4 | 528.2 | 521.9 | 509.4 | 507.3 |
| 40° | 6816.6 | 4569.5 | 725.3 | 568.0 | 526.1 | 501.0 | 488.4 | 475.8 | 459.0 | 446.5 | 444.4 |
| 42.5° | 7608.9 | 4816.9 | 628.8 | 519.8 | 482.1 | 459.0 | 444.4 | 423.4 | 398.3 | 381.5 | 379.4 |
| 45° | 8434.8 | 5043.3 | 563.9 | 475.8 | 440.2 | 421.3 | 404.6 | 371.0 | 339.6 | 318.6 | 316.5 |
| 47.5° | 9051.0 | 5085.2 | 511.5 | 433.9 | 404.6 | 385.7 | 362.6 | 320.7 | 278.8 | 259.9 | 253.6 |
| 50° | 9342.4 | 4881.9 | 457.0 | 392.0 | 368.9 | 348.0 | 318.6 | 270.4 | 224.3 | 201.2 | 197.0 |
| 52.5° | 9445.1 | 4529.7 | 412.9 | 354.2 | 333.3 | 308.1 | 272.5 | 218.0 | 176.1 | 153.0 | 150.9 |
| 55° | 9403.2 | 4085.3 | 373.1 | 318.6 | 291.4 | 262.0 | 226.4 | 174.0 | 130.0 | 111.1 | 106.9 |
| 57.5° | 9183.1 | 3519.4 | 333.3 | 283.0 | 249.4 | 220.1 | 180.3 | 130.0 | 88.0 | 71.3 | 69.2 |
| 60° | 8589.9 | 2748.0 | 293.5 | 243.1 | 211.7 | 180.3 | 142.5 | 92.2 | 54.5 | 39.8 | 39.8 |
| 62.5° | 7587.9 | 2039.5 | 255.7 | 203.3 | 178.2 | 144.6 | 100.6 | 58.7 | 29.3 | 21.0 | 18.9 |
| 65° | 6340.7 | 1505.0 | 213.8 | 171.9 | 148.8 | 113.2 | 71.3 | 35.6 | 14.7 | 6.3 | 4.2 |
| 67.5° | 4424.9 | 928.6 | 178.2 | 140.4 | 121.6 | 81.7 | 44.0 | 14.7 | 6.3 | 0.0 | 0.0 |
| 70° | 2010.2 | 442.3 | 136.2 | 106.9 | 92.2 | 58.7 | 23.1 | 8.4 | 4.2 | 0.0 | 0.0 |
| 72.5° | 624.6 | 232.7 | 96.4 | 77.6 | 62.9 | 37.7 | 12.6 | 6.3 | 4.2 | 0.0 | 0.0 |
| 75° | 289.3 | 148.8 | 60.8 | 41.9 | 35.6 | 18.9 | 8.4 | 4.2 | 2.1 | 0.0 | 0.0 |
| 77.5° | 215.9 | 115.3 | 35.6 | 23.1 | 18.9 | 12.6 | 6.3 | 4.2 | 2.1 | 0.0 | 0.0 |
| 80° | 188.7 | 58.7 | 21.0 | 14.7 | 10.5 | 8.4 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 169.8 | 29.3 | 12.6 | 8.4 | 6.3 | 4.2 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 85° | 92.2 | 16.8 | 8.4 | 6.3 | 4.2 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.8 | 8.4 | 6.3 | 4.2 | 4.2 | 2.1 | 2.1 | 2.1 | 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)