

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: P949138

Luminaire Tested: **GALN-SB4A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16959 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

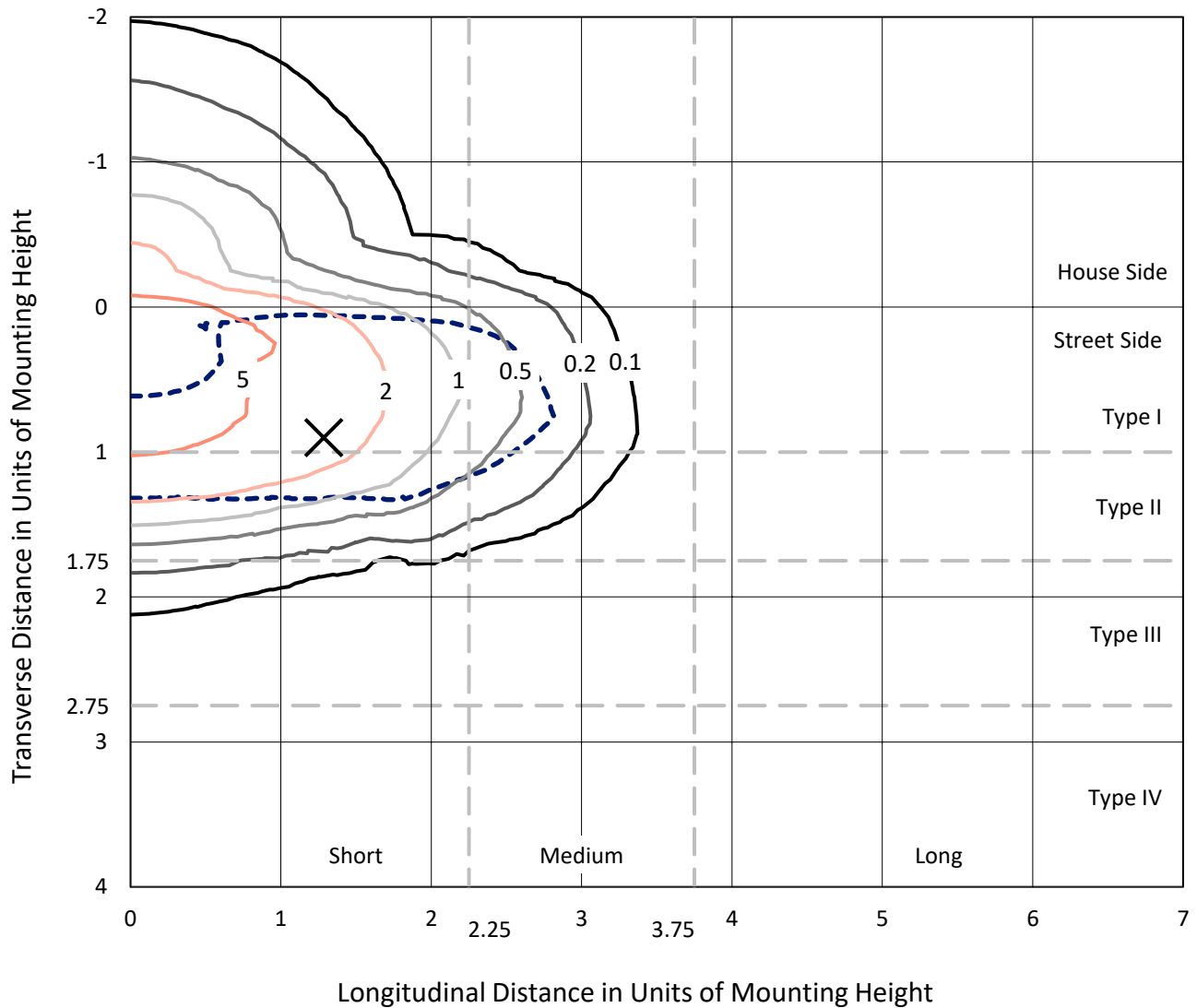
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

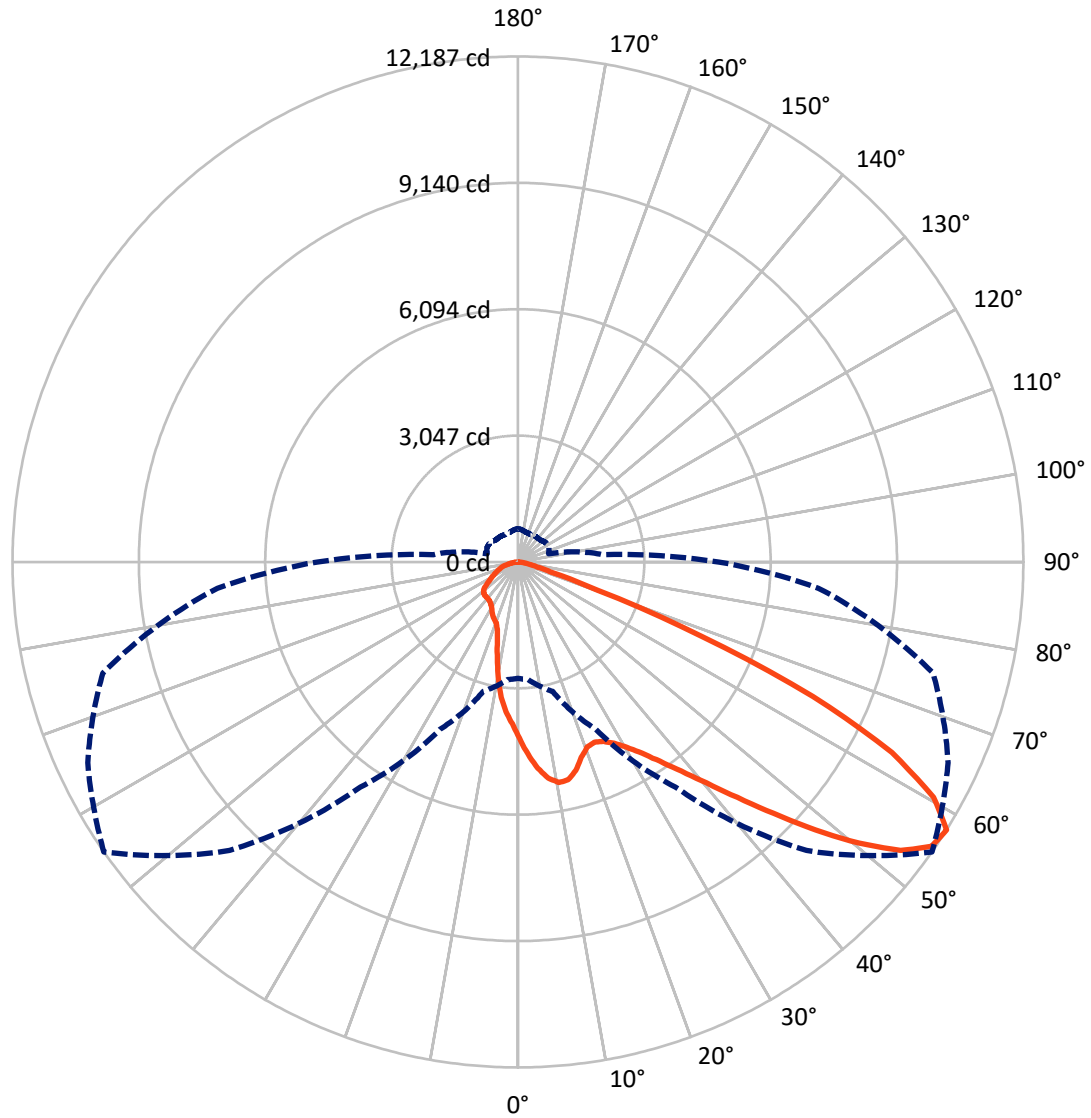
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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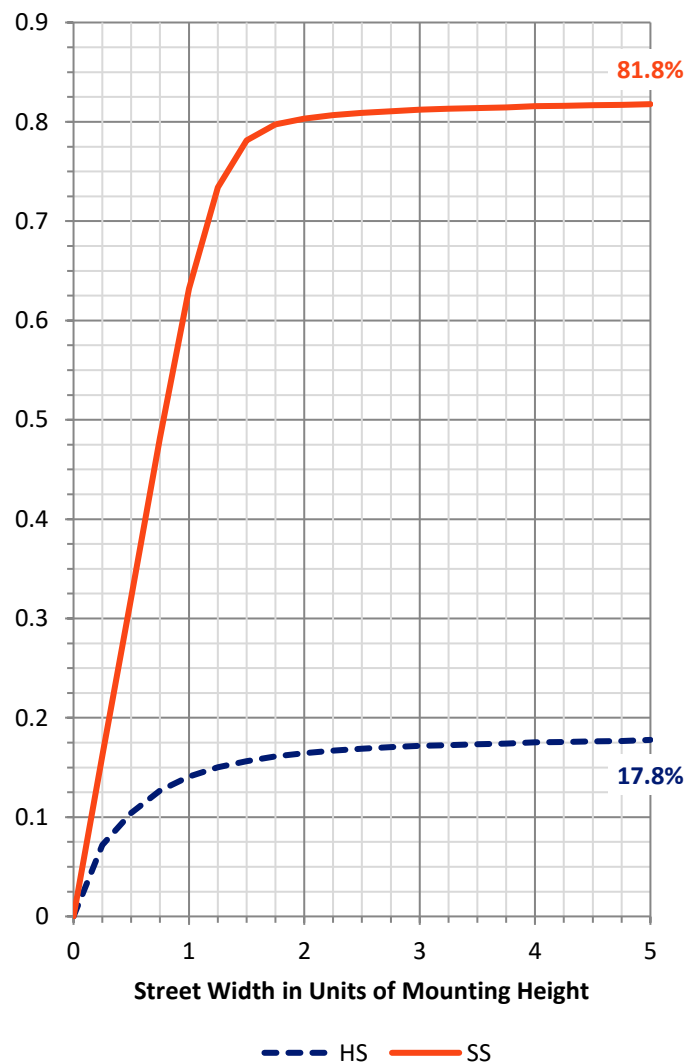
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3068.7 | 0.0 | 3068.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 13890.4 | 0.0 | 13890.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 16959.0 | 0.0 | 16959.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 394.3 | 2.3 |
| 10°-20° | 995.3 | 5.9 |
| 20°-30° | 1588.2 | 9.4 |
| 30°-40° | 2514.5 | 14.8 |
| 40°-50° | 3848.7 | 22.7 |
| 50°-60° | 4122.3 | 24.3 |
| 60°-70° | 2593.3 | 15.3 |
| 70°-80° | 766.9 | 4.5 |
| 80°-90° | 135.6 | 0.8 |
| 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° | 16959.0 | 100.0 |
| 0°-180° | 16959.0 | 100.0 |

Coefficient of Utilization



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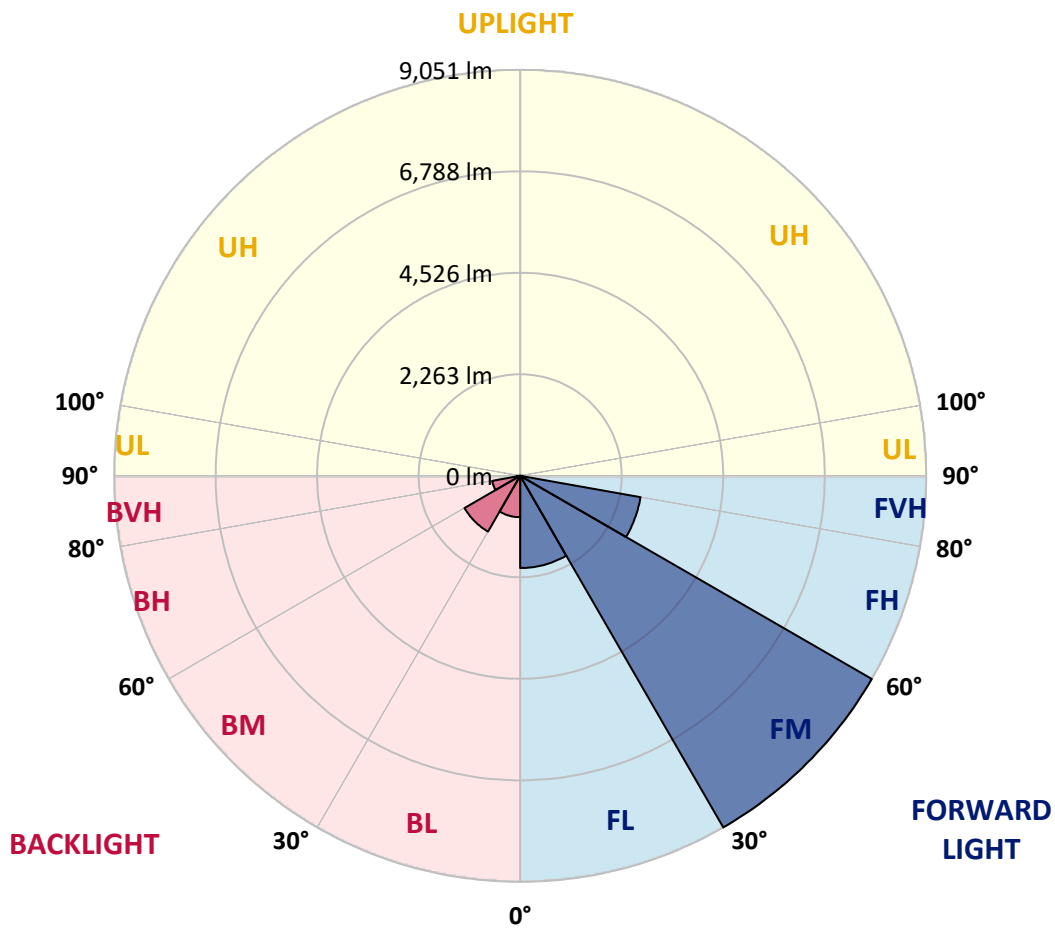
CATALOG NUMBER: GALN-SB4A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2055.4 | 12.1 | | | |
| FM (30°-60°) | 9051.1 | 53.4 | | | |
| FH (60°-80°) | 2726.5 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 57.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 922.3 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1434.3 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 633.7 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 78.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 |
| 2.5° | 4875.3 | 4871.8 | 4891.1 | 4825.4 | 4780.7 | 4720.2 | 4640.4 | 4538.7 | 4429.1 | 4313.4 | 4263.4 |
| 5° | 5314.6 | 5283.9 | 5304.0 | 5255.0 | 5205.9 | 5114.7 | 4996.3 | 4830.6 | 4628.1 | 4397.5 | 4274.8 |
| 7.5° | 5245.3 | 5224.3 | 5276.0 | 5319.8 | 5356.6 | 5345.3 | 5258.5 | 5084.9 | 4823.6 | 4488.7 | 4310.7 |
| 10° | 4686.8 | 4663.2 | 4735.9 | 4887.6 | 5110.3 | 5304.0 | 5409.3 | 5301.4 | 5023.5 | 4588.7 | 4345.8 |
| 12.5° | 4194.1 | 4182.7 | 4231.0 | 4353.7 | 4600.9 | 4972.7 | 5390.0 | 5490.8 | 5231.3 | 4707.0 | 4393.2 |
| 15° | 3983.7 | 3969.7 | 4000.4 | 4062.6 | 4220.4 | 4566.7 | 5214.6 | 5620.5 | 5435.6 | 4843.8 | 4468.6 |
| 17.5° | 3937.3 | 3921.5 | 3934.6 | 3967.1 | 4068.8 | 4332.7 | 4949.9 | 5684.5 | 5648.6 | 4996.3 | 4531.7 |
| 20° | 4023.2 | 4010.0 | 4011.8 | 4010.0 | 4081.0 | 4290.6 | 4765.8 | 5660.0 | 5834.5 | 5136.6 | 4593.0 |
| 22.5° | 4231.0 | 4209.0 | 4209.9 | 4163.5 | 4202.0 | 4364.2 | 4717.5 | 5594.2 | 6000.1 | 5259.3 | 4639.5 |
| 25° | 4569.4 | 4529.9 | 4537.8 | 4419.5 | 4408.9 | 4529.0 | 4792.9 | 5543.4 | 6165.0 | 5357.5 | 4648.3 |
| 27.5° | 5032.3 | 4987.6 | 4963.9 | 4787.7 | 4703.5 | 4763.1 | 4946.4 | 5560.9 | 6321.0 | 5442.6 | 4626.4 |
| 30° | 5610.9 | 5556.5 | 5508.3 | 5258.5 | 5105.9 | 5084.0 | 5184.8 | 5676.6 | 6505.1 | 5532.0 | 4588.7 |
| 32.5° | 6320.1 | 6257.0 | 6169.4 | 5838.0 | 5623.2 | 5508.3 | 5493.4 | 5882.7 | 6720.8 | 5646.0 | 4569.4 |
| 35° | 7164.4 | 7082.0 | 6957.5 | 6528.8 | 6257.0 | 6022.1 | 5900.2 | 6179.9 | 7016.2 | 5817.8 | 4591.3 |
| 37.5° | 8034.1 | 7941.2 | 7827.2 | 7317.0 | 6982.9 | 6636.6 | 6396.4 | 6583.2 | 7409.9 | 6051.0 | 4649.2 |
| 40° | 8836.3 | 8732.0 | 8625.9 | 8171.7 | 7813.2 | 7395.9 | 7004.0 | 7093.4 | 7891.2 | 6329.8 | 4747.3 |
| 42.5° | 9309.7 | 9232.5 | 9192.2 | 8946.7 | 8669.7 | 8246.3 | 7759.7 | 7698.3 | 8432.1 | 6650.7 | 4859.6 |
| 45° | 9288.7 | 9257.1 | 9381.6 | 9483.3 | 9417.5 | 9182.6 | 8645.2 | 8367.2 | 8974.8 | 6928.6 | 4963.0 |
| 47.5° | 8792.4 | 8813.5 | 9091.4 | 9663.0 | 9914.6 | 10037.4 | 9653.4 | 9023.9 | 9446.5 | 7136.4 | 5009.5 |
| 50° | 7442.3 | 7459.9 | 8103.4 | 9336.0 | 10042.6 | 10734.3 | 10653.7 | 9664.8 | 9812.0 | 7263.5 | 4999.0 |
| 52.5° | 6373.6 | 6385.0 | 6661.2 | 8366.4 | 9620.1 | 11085.0 | 11554.9 | 10268.8 | 10079.4 | 7298.5 | 4940.2 |
| 55° | 4800.8 | 4840.3 | 5149.7 | 6563.9 | 8520.7 | 10807.1 | 12103.7 | 10891.3 | 10248.6 | 7302.1 | 4878.8 |
| 57.5° | 2804.6 | 2847.5 | 3229.8 | 4455.4 | 6622.6 | 9838.4 | 12187.0 | 11443.6 | 10363.5 | 7274.0 | 4842.0 |
| 60° | 1373.8 | 1392.2 | 1558.8 | 2341.7 | 4083.7 | 7971.9 | 11517.2 | 11711.0 | 10427.5 | 7259.1 | 4840.3 |
| 62.5° | 925.8 | 923.2 | 930.2 | 1155.5 | 2012.0 | 5121.7 | 10121.5 | 11242.8 | 10393.3 | 7202.1 | 4822.7 |
| 65° | 796.0 | 786.4 | 760.1 | 810.9 | 1042.4 | 2342.5 | 7820.2 | 9845.4 | 10132.9 | 7059.2 | 4702.6 |
| 67.5° | 688.2 | 689.1 | 690.0 | 674.2 | 744.3 | 1081.0 | 4778.9 | 7755.3 | 9198.4 | 6382.4 | 4239.7 |
| 70° | 569.9 | 577.7 | 581.3 | 581.3 | 606.7 | 709.3 | 2040.1 | 5315.4 | 7255.6 | 5004.2 | 3414.8 |
| 72.5° | 519.0 | 502.4 | 504.1 | 495.3 | 495.3 | 540.0 | 821.5 | 3013.2 | 4571.1 | 2815.1 | 2083.9 |
| 75° | 423.4 | 434.0 | 435.7 | 429.6 | 409.4 | 412.0 | 487.4 | 1264.2 | 1955.9 | 1167.8 | 1030.1 |
| 77.5° | 365.6 | 365.6 | 369.1 | 364.7 | 348.9 | 308.6 | 325.3 | 490.1 | 665.4 | 478.7 | 514.6 |
| 80° | 293.7 | 292.8 | 307.7 | 316.5 | 291.9 | 227.9 | 207.8 | 270.9 | 295.4 | 210.4 | 267.4 |
| 82.5° | 142.9 | 151.7 | 211.3 | 241.1 | 221.8 | 164.8 | 127.1 | 168.3 | 157.8 | 92.9 | 120.1 |
| 85° | 83.3 | 78.9 | 94.7 | 134.1 | 127.1 | 91.2 | 61.4 | 87.7 | 82.4 | 47.3 | 48.2 |
| 87.5° | 26.3 | 24.5 | 19.3 | 45.6 | 36.8 | 25.4 | 16.7 | 25.4 | 22.8 | 10.5 | 10.5 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 | 4249.4 |
| 2.5° | 4201.2 | 4097.7 | 3995.1 | 3901.3 | 3844.3 | 3807.5 | 3770.7 | 3729.5 | 3713.7 | 3690.0 |
| 5° | 4159.1 | 3959.2 | 3781.2 | 3627.8 | 3488.4 | 3378.8 | 3268.3 | 3178.9 | 3138.6 | 3165.8 |
| 7.5° | 4134.5 | 3845.2 | 3570.8 | 3289.4 | 3018.5 | 2801.9 | 2613.4 | 2481.1 | 2421.5 | 2436.4 |
| 10° | 4112.6 | 3716.3 | 3298.2 | 2853.7 | 2464.4 | 2196.1 | 2003.3 | 1902.4 | 1864.7 | 1872.6 |
| 12.5° | 4092.4 | 3571.7 | 2969.4 | 2384.6 | 1970.8 | 1793.7 | 1738.5 | 1739.4 | 1746.4 | 1751.7 |
| 15° | 4088.9 | 3397.2 | 2602.1 | 1974.3 | 1704.3 | 1692.9 | 1752.5 | 1790.2 | 1810.4 | 1816.5 |
| 17.5° | 4083.7 | 3188.6 | 2227.7 | 1694.7 | 1639.4 | 1716.6 | 1771.8 | 1796.4 | 1812.1 | 1813.0 |
| 20° | 4062.6 | 2923.8 | 1882.3 | 1561.4 | 1625.4 | 1692.0 | 1726.2 | 1745.5 | 1758.7 | 1763.0 |
| 22.5° | 3997.8 | 2629.2 | 1613.1 | 1501.8 | 1569.3 | 1622.8 | 1663.1 | 1685.0 | 1692.9 | 1698.2 |
| 25° | 3881.2 | 2299.6 | 1427.3 | 1444.8 | 1491.3 | 1558.8 | 1591.2 | 1595.6 | 1593.0 | 1600.9 |
| 27.5° | 3728.6 | 1946.3 | 1311.5 | 1367.7 | 1427.3 | 1485.1 | 1502.7 | 1500.0 | 1494.8 | 1503.5 |
| 30° | 3544.5 | 1628.9 | 1237.9 | 1280.9 | 1362.4 | 1415.0 | 1430.8 | 1424.6 | 1414.1 | 1423.8 |
| 32.5° | 3349.9 | 1369.4 | 1177.4 | 1220.4 | 1308.9 | 1360.6 | 1376.4 | 1370.3 | 1362.4 | 1370.3 |
| 35° | 3168.4 | 1187.9 | 1121.3 | 1180.0 | 1266.8 | 1317.7 | 1337.8 | 1338.7 | 1338.7 | 1348.4 |
| 37.5° | 3001.8 | 1081.9 | 1074.8 | 1154.6 | 1237.9 | 1283.5 | 1312.4 | 1314.2 | 1276.5 | 1279.1 |
| 40° | 2847.5 | 1037.1 | 1053.8 | 1138.0 | 1209.8 | 1253.7 | 1255.4 | 1157.2 | 1088.0 | 1086.2 |
| 42.5° | 2721.3 | 1028.4 | 1059.9 | 1136.2 | 1189.7 | 1191.4 | 1067.8 | 991.6 | 972.3 | 973.1 |
| 45° | 2602.9 | 1025.7 | 1074.0 | 1136.2 | 1159.9 | 1029.2 | 946.0 | 925.8 | 927.6 | 934.6 |
| 47.5° | 2470.5 | 1015.2 | 1076.6 | 1120.4 | 1074.0 | 915.3 | 890.7 | 882.0 | 878.5 | 880.2 |
| 50° | 2325.9 | 977.5 | 1043.3 | 1088.9 | 926.7 | 866.2 | 835.5 | 832.9 | 837.3 | 839.9 |
| 52.5° | 2173.3 | 916.2 | 986.3 | 1031.9 | 859.2 | 823.2 | 789.0 | 795.2 | 814.5 | 820.6 |
| 55° | 2073.4 | 844.3 | 910.9 | 917.9 | 811.8 | 782.9 | 754.0 | 768.0 | 803.9 | 815.3 |
| 57.5° | 2047.1 | 768.0 | 825.0 | 817.1 | 751.3 | 747.8 | 730.3 | 742.6 | 788.2 | 804.8 |
| 60° | 2039.2 | 699.6 | 740.8 | 734.7 | 692.6 | 709.3 | 704.9 | 711.0 | 726.8 | 732.0 |
| 62.5° | 1977.8 | 645.3 | 665.4 | 656.6 | 640.0 | 668.9 | 679.4 | 666.3 | 678.6 | 684.7 |
| 65° | 1821.8 | 601.4 | 591.8 | 585.6 | 592.7 | 619.0 | 640.0 | 613.7 | 625.1 | 642.6 |
| 67.5° | 1564.0 | 541.8 | 515.5 | 522.5 | 544.4 | 558.5 | 585.6 | 555.8 | 565.5 | 595.3 |
| 70° | 1265.1 | 466.4 | 442.7 | 462.9 | 483.9 | 512.9 | 517.3 | 497.1 | 519.9 | 553.2 |
| 72.5° | 895.1 | 390.1 | 373.5 | 414.7 | 421.7 | 459.4 | 449.7 | 440.1 | 471.7 | 483.1 |
| 75° | 620.7 | 314.7 | 305.1 | 336.7 | 362.1 | 394.5 | 387.5 | 398.9 | 465.5 | 470.8 |
| 77.5° | 392.8 | 244.6 | 238.5 | 258.6 | 293.7 | 329.6 | 341.0 | 470.8 | 795.2 | 826.7 |
| 80° | 227.9 | 182.4 | 175.3 | 191.1 | 221.8 | 255.1 | 328.8 | 577.7 | 524.3 | 518.1 |
| 82.5° | 127.1 | 125.4 | 116.6 | 121.0 | 148.2 | 184.1 | 464.7 | 406.8 | 330.5 | 341.0 |
| 85° | 59.6 | 73.6 | 63.1 | 60.5 | 83.3 | 215.7 | 310.4 | 232.3 | 154.3 | 150.8 |
| 87.5° | 15.8 | 14.0 | 14.0 | 15.8 | 35.1 | 185.9 | 123.6 | 99.1 | 58.7 | 57.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)