

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: P458097

Luminaire Tested: **GALN-SA9C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42675 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

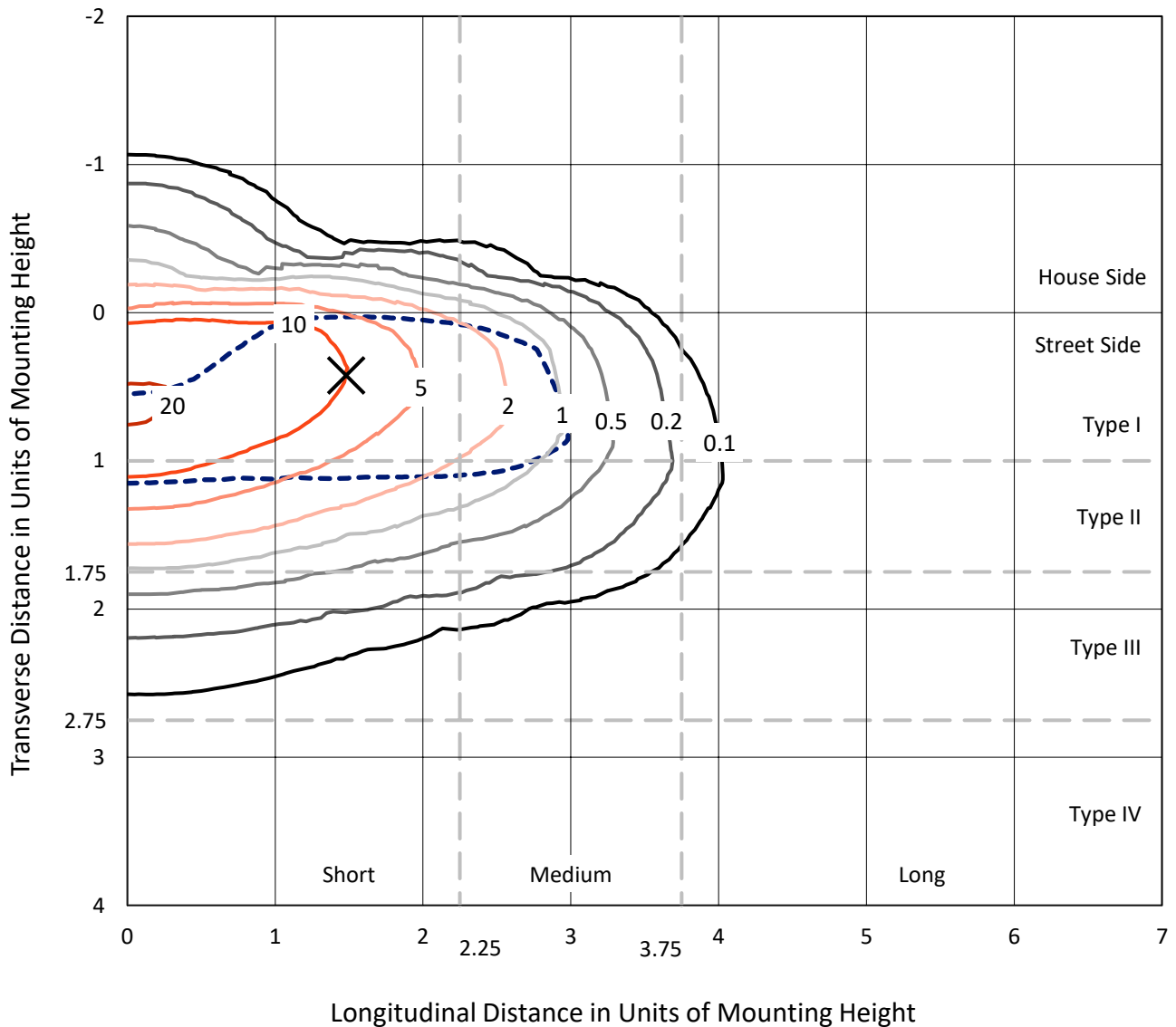
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

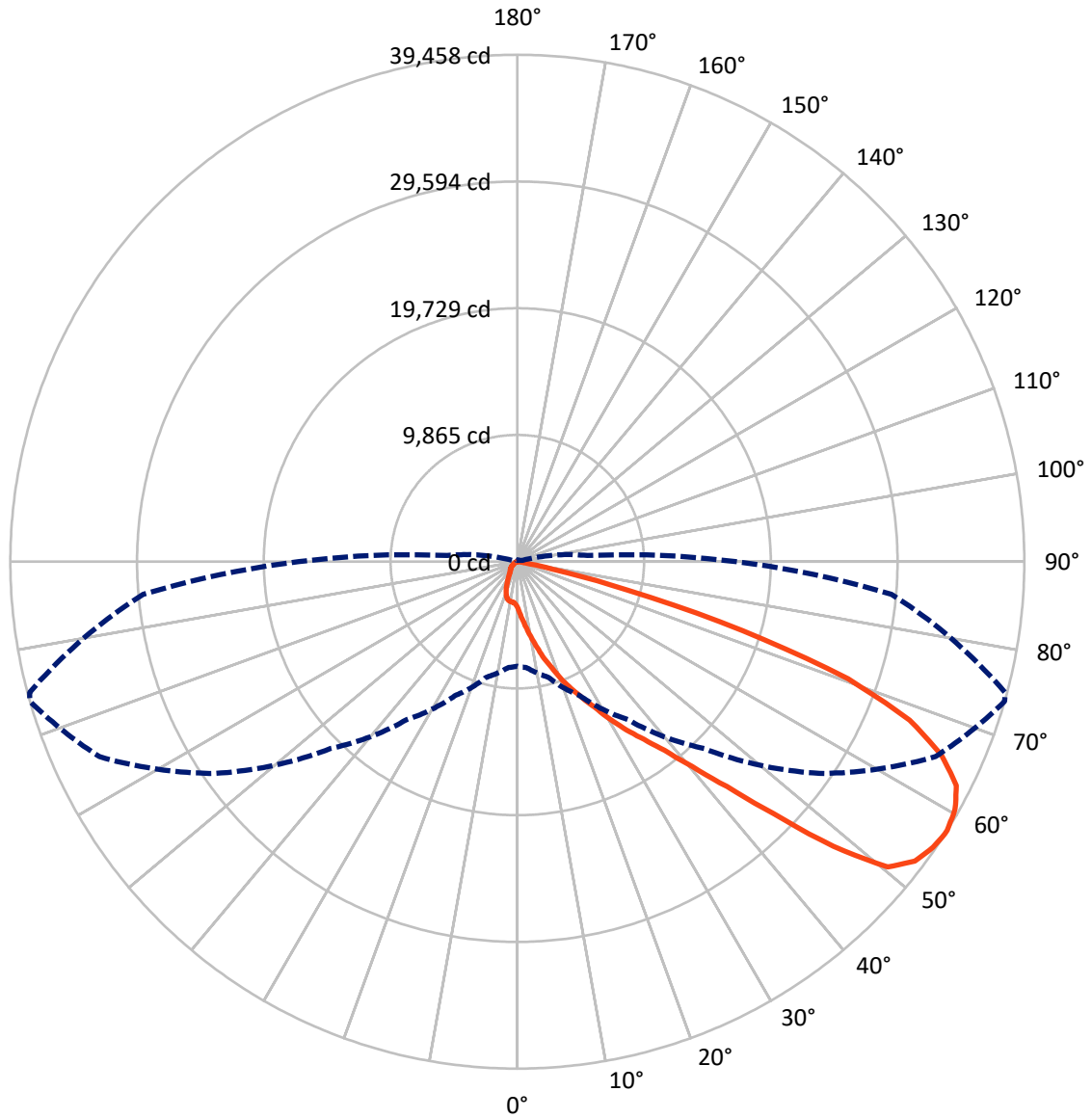
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2461.3 | 0.0 | 2461.3 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 40213.6 | 0.0 | 40213.6 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 42675.0 | 0.0 | 42675.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 431.4 | 1.0 |
| 10°-20° | 1700.4 | 4.0 |
| 20°-30° | 3638.3 | 8.5 |
| 30°-40° | 6687.2 | 15.7 |
| 40°-50° | 10251.6 | 24.0 |
| 50°-60° | 10844.8 | 25.4 |
| 60°-70° | 7082.0 | 16.6 |
| 70°-80° | 1935.1 | 4.5 |
| 80°-90° | 104.2 | 0.2 |
| 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° | 42675.0 | 100.0 |
| 0°-180° | 42675.0 | 100.0 |

Coefficient of Utilization



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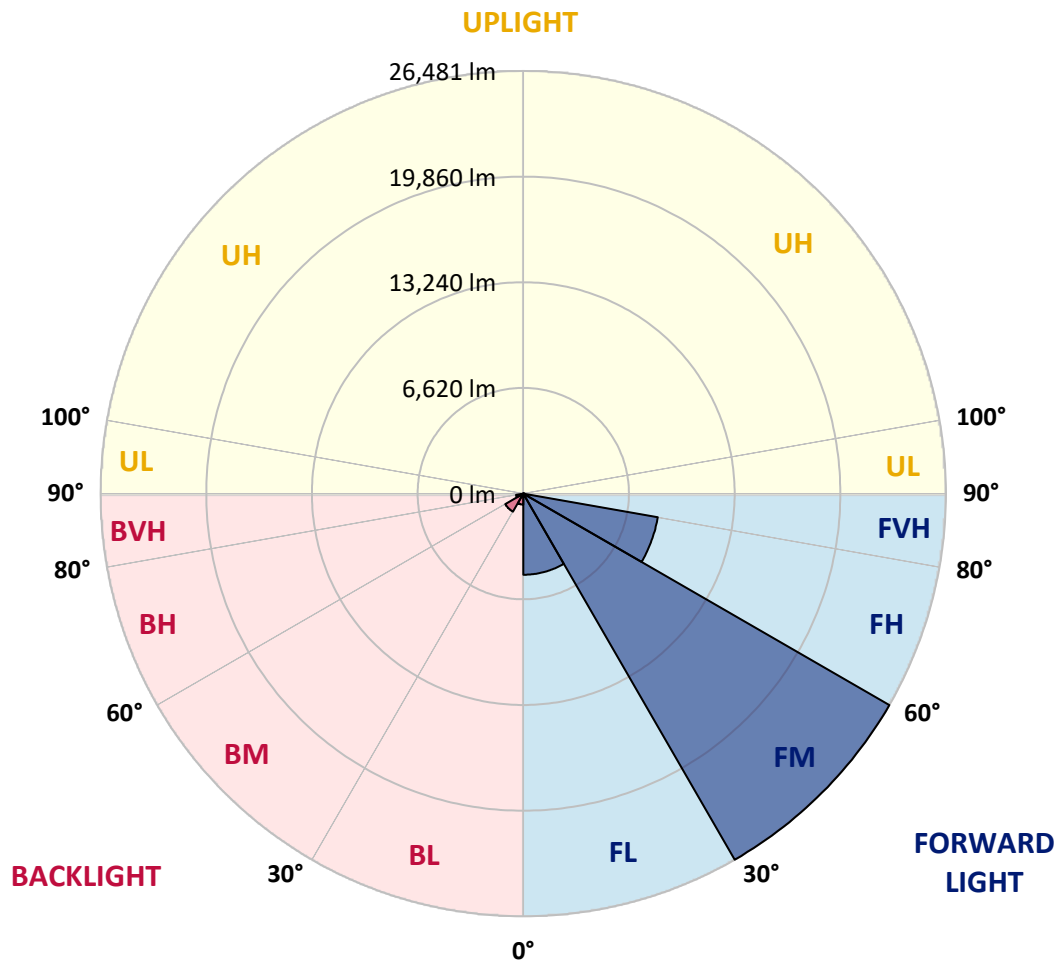
CATALOG NUMBER: GALN-SA9C-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 5082.5 | 11.9 | | | |
| FM | (30°-60°) | 26480.6 | 62.1 | | | |
| FH | (60°-80°) | 8554.9 | 20.0 | | | G4/12000 |
| FVH | (80°-90°) | 95.6 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 687.5 | 1.6 | B2/1000 | | |
| BM | (30°-60°) | 1303.1 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 462.1 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.6 | 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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 |
| 2.5° | 5229.8 | 5182.7 | 5088.4 | 5056.0 | 4917.5 | 4702.4 | 4513.9 | 4260.5 | 4060.1 | 4039.5 | 3797.9 |
| 5° | 7003.6 | 6897.5 | 6853.3 | 6641.2 | 6308.2 | 5995.9 | 5459.7 | 5053.1 | 4584.6 | 4549.2 | 4063.1 |
| 7.5° | 8712.5 | 8565.2 | 8521.0 | 8320.6 | 7931.7 | 7439.6 | 6744.3 | 6004.8 | 5262.3 | 5194.5 | 4419.6 |
| 10° | 9950.0 | 9970.6 | 9891.0 | 9758.5 | 9443.2 | 8942.3 | 8084.9 | 7074.3 | 6016.5 | 5931.1 | 4820.3 |
| 12.5° | 10836.8 | 10833.9 | 10848.6 | 10845.7 | 10677.7 | 10297.6 | 9396.0 | 8232.2 | 6847.4 | 6679.5 | 5279.9 |
| 15° | 11414.3 | 11423.2 | 11467.4 | 11620.6 | 11638.3 | 11402.5 | 10651.2 | 9340.1 | 7810.9 | 7601.7 | 5777.9 |
| 17.5° | 11997.7 | 12059.6 | 12130.3 | 12274.7 | 12404.3 | 12310.0 | 11779.7 | 10495.1 | 8683.0 | 8526.9 | 6311.2 |
| 20° | 12961.2 | 13046.6 | 13005.4 | 13093.8 | 13161.5 | 13170.4 | 12760.8 | 11561.6 | 9740.8 | 9478.5 | 6921.1 |
| 22.5° | 14502.2 | 14499.2 | 14393.1 | 14234.0 | 14101.4 | 14095.5 | 13724.3 | 12657.7 | 10701.3 | 10447.9 | 7533.9 |
| 25° | 16449.7 | 16458.6 | 16252.3 | 15798.6 | 15468.6 | 15064.9 | 14637.7 | 13618.2 | 11729.6 | 11417.3 | 8179.2 |
| 27.5° | 18683.1 | 18627.1 | 18314.8 | 17690.1 | 17036.0 | 16346.6 | 15730.8 | 14734.9 | 12819.8 | 12560.5 | 8918.7 |
| 30° | 20689.6 | 20669.0 | 20303.6 | 19540.5 | 18680.1 | 17987.7 | 17095.0 | 16134.5 | 14231.1 | 13912.9 | 9746.7 |
| 32.5° | 22557.6 | 22587.1 | 22080.3 | 21290.6 | 20459.8 | 19661.3 | 18718.4 | 17472.1 | 15615.9 | 15165.1 | 10648.3 |
| 35° | 24016.1 | 24045.5 | 23521.1 | 22864.0 | 22009.6 | 21346.6 | 20448.0 | 18898.2 | 16983.0 | 16602.9 | 11685.4 |
| 37.5° | 24793.9 | 24832.2 | 24528.7 | 24033.7 | 23500.4 | 23167.5 | 22330.7 | 20733.8 | 18644.8 | 18415.0 | 12911.1 |
| 40° | 24941.2 | 24985.4 | 24852.8 | 24720.2 | 24690.8 | 24929.4 | 24684.9 | 22896.4 | 20948.9 | 20589.4 | 14737.9 |
| 42.5° | 24499.3 | 24558.2 | 24617.1 | 24911.8 | 25512.8 | 26387.9 | 27239.4 | 25831.0 | 23915.9 | 23432.7 | 16971.2 |
| 45° | 23338.4 | 23332.5 | 23565.3 | 24328.4 | 25674.9 | 27542.9 | 29908.8 | 29505.2 | 27958.3 | 27383.8 | 20126.8 |
| 47.5° | 21352.5 | 21323.1 | 21826.9 | 22914.1 | 25011.9 | 27755.0 | 32086.2 | 33966.0 | 33117.5 | 32587.1 | 23518.1 |
| 50° | 18326.6 | 18470.9 | 19263.5 | 20780.9 | 23364.9 | 27112.7 | 32758.0 | 36891.8 | 37351.4 | 36788.7 | 26258.3 |
| 52.5° | 14782.1 | 14776.2 | 16019.5 | 18079.1 | 20925.3 | 25698.4 | 32289.5 | 37422.1 | 38727.4 | 38297.2 | 27607.7 |
| 55° | 10940.0 | 11016.6 | 12310.0 | 14387.2 | 17757.9 | 23117.4 | 30760.4 | 36877.1 | 39251.9 | 38948.4 | 28497.5 |
| 57° | 8137.9 | 8273.5 | 9310.6 | 11508.6 | 15000.1 | 20562.9 | 28724.4 | 35901.8 | 39458.1 | 39293.1 | 29237.1 |
| 57.5° | 7595.8 | 7601.7 | 8612.3 | 10610.0 | 14192.8 | 19581.7 | 28141.0 | 35495.2 | 39452.2 | 39360.9 | 29357.9 |
| 60° | 4675.9 | 4823.2 | 5521.5 | 7171.5 | 10389.0 | 15282.9 | 24231.1 | 33158.7 | 39145.8 | 39278.4 | 29873.5 |
| 62.5° | 2799.1 | 2860.9 | 3314.7 | 4322.4 | 6697.2 | 11155.0 | 19829.2 | 30168.1 | 38347.3 | 38751.0 | 29838.1 |
| 65° | 1800.2 | 1815.0 | 2021.2 | 2616.4 | 4186.8 | 7539.8 | 15280.0 | 26217.0 | 36281.9 | 37024.4 | 28671.4 |
| 67.5° | 1390.7 | 1414.3 | 1496.8 | 1717.7 | 2427.8 | 4696.6 | 10807.4 | 22000.7 | 32940.7 | 33898.3 | 25842.8 |
| 70° | 1234.5 | 1246.3 | 1275.8 | 1346.5 | 1605.8 | 2651.8 | 6723.7 | 17186.3 | 27316.0 | 27587.1 | 20224.0 |
| 72.5° | 1007.7 | 1040.1 | 1131.4 | 1155.0 | 1272.8 | 1655.9 | 3741.9 | 11535.1 | 18353.1 | 18420.9 | 11314.2 |
| 75° | 780.8 | 786.7 | 922.2 | 990.0 | 1072.5 | 1140.3 | 1670.6 | 5816.2 | 8815.6 | 8344.2 | 4360.7 |
| 77.5° | 583.4 | 609.9 | 671.8 | 757.2 | 875.1 | 816.2 | 748.4 | 2192.1 | 2737.2 | 2687.1 | 1266.9 |
| 80° | 374.2 | 388.9 | 468.5 | 568.7 | 680.6 | 533.3 | 421.3 | 642.3 | 601.1 | 618.7 | 303.5 |
| 82.5° | 188.6 | 191.5 | 300.5 | 462.6 | 433.1 | 268.1 | 265.2 | 262.2 | 223.9 | 221.0 | 141.4 |
| 85° | 20.6 | 44.2 | 194.5 | 265.2 | 194.5 | 88.4 | 123.7 | 120.8 | 117.9 | 120.8 | 82.5 |
| 87.5° | 2.9 | 2.9 | 32.4 | 38.3 | 26.5 | 29.5 | 35.4 | 38.3 | 47.1 | 44.2 | 35.4 |
| 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° | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 | 3574.0 |
| 2.5° | 3680.0 | 3562.2 | 3344.2 | 3135.0 | 2978.8 | 2878.6 | 2749.0 | 2701.8 | 2634.1 | 2625.2 | 2592.8 |
| 5° | 3839.2 | 3615.2 | 3235.1 | 2934.6 | 2693.0 | 2510.3 | 2351.2 | 2218.6 | 2112.6 | 2089.0 | 2100.8 |
| 7.5° | 4066.0 | 3733.1 | 3202.7 | 2793.2 | 2457.3 | 2145.0 | 1891.6 | 1735.4 | 1623.5 | 1582.2 | 1588.1 |
| 10° | 4322.4 | 3889.2 | 3196.8 | 2642.9 | 2130.2 | 1747.2 | 1470.3 | 1331.8 | 1266.9 | 1243.4 | 1216.9 |
| 12.5° | 4625.8 | 4069.0 | 3182.1 | 2410.2 | 1770.8 | 1393.6 | 1196.2 | 1113.7 | 1051.9 | 1034.2 | 1034.2 |
| 15° | 4967.6 | 4260.5 | 3111.4 | 2121.4 | 1437.8 | 1152.0 | 1019.5 | 954.6 | 934.0 | 916.3 | 916.3 |
| 17.5° | 5324.1 | 4449.1 | 2964.1 | 1764.9 | 1193.3 | 987.0 | 904.5 | 866.2 | 836.8 | 816.2 | 816.2 |
| 20° | 5730.7 | 4634.7 | 2728.4 | 1449.6 | 1007.7 | 881.0 | 816.2 | 772.0 | 748.4 | 730.7 | 724.8 |
| 22.5° | 6116.7 | 4784.9 | 2427.8 | 1190.3 | 878.0 | 792.6 | 733.7 | 686.5 | 662.9 | 654.1 | 654.1 |
| 25° | 6517.4 | 4876.3 | 2065.4 | 984.1 | 801.4 | 718.9 | 654.1 | 615.8 | 595.2 | 589.3 | 586.3 |
| 27.5° | 6906.3 | 4929.3 | 1747.2 | 860.3 | 730.7 | 651.2 | 589.3 | 559.8 | 539.2 | 533.3 | 536.2 |
| 30° | 7377.8 | 4938.2 | 1437.8 | 772.0 | 668.8 | 586.3 | 530.4 | 503.8 | 492.0 | 486.2 | 483.2 |
| 32.5° | 7855.1 | 4926.4 | 1208.0 | 718.9 | 609.9 | 530.4 | 483.2 | 462.6 | 453.7 | 444.9 | 444.9 |
| 35° | 8391.3 | 4864.5 | 1028.3 | 665.9 | 553.9 | 483.2 | 442.0 | 424.3 | 412.5 | 403.7 | 400.7 |
| 37.5° | 9057.2 | 4832.1 | 925.2 | 607.0 | 503.8 | 439.0 | 400.7 | 383.0 | 374.2 | 362.4 | 359.5 |
| 40° | 10106.1 | 4976.5 | 892.8 | 553.9 | 453.7 | 397.8 | 362.4 | 341.8 | 330.0 | 318.2 | 315.3 |
| 42.5° | 11414.3 | 5229.8 | 839.7 | 500.9 | 409.5 | 359.5 | 324.1 | 300.5 | 279.9 | 265.2 | 259.3 |
| 45° | 13108.5 | 5562.8 | 757.2 | 444.9 | 371.2 | 318.2 | 285.8 | 256.3 | 229.8 | 218.0 | 215.1 |
| 47.5° | 14885.2 | 5883.9 | 683.6 | 400.7 | 330.0 | 282.9 | 247.5 | 215.1 | 191.5 | 182.7 | 179.7 |
| 50° | 15975.3 | 5948.8 | 636.4 | 350.6 | 288.7 | 244.6 | 209.2 | 179.7 | 165.0 | 156.2 | 156.2 |
| 52.5° | 16473.3 | 5845.6 | 571.6 | 306.4 | 250.4 | 215.1 | 179.7 | 156.2 | 147.3 | 141.4 | 138.5 |
| 55° | 16821.0 | 5686.5 | 486.2 | 265.2 | 215.1 | 182.7 | 159.1 | 141.4 | 129.6 | 123.7 | 120.8 |
| 57° | 17024.3 | 5471.5 | 421.3 | 232.8 | 185.6 | 159.1 | 141.4 | 126.7 | 114.9 | 103.1 | 103.1 |
| 57.5° | 17033.1 | 5389.0 | 403.7 | 229.8 | 176.8 | 153.2 | 138.5 | 123.7 | 109.0 | 97.2 | 94.3 |
| 60° | 16770.9 | 4823.2 | 324.1 | 194.5 | 141.4 | 129.6 | 114.9 | 97.2 | 76.6 | 64.8 | 61.9 |
| 62.5° | 15928.2 | 4104.3 | 268.1 | 165.0 | 114.9 | 100.2 | 82.5 | 73.7 | 53.0 | 38.3 | 38.3 |
| 65° | 14652.4 | 3329.4 | 229.8 | 132.6 | 94.3 | 73.7 | 56.0 | 53.0 | 32.4 | 17.7 | 14.7 |
| 67.5° | 12808.0 | 2592.8 | 194.5 | 109.0 | 79.6 | 53.0 | 38.3 | 35.4 | 17.7 | 5.9 | 0.0 |
| 70° | 9758.5 | 1767.8 | 162.1 | 88.4 | 58.9 | 38.3 | 26.5 | 20.6 | 11.8 | 2.9 | 0.0 |
| 72.5° | 5624.7 | 972.3 | 135.5 | 67.8 | 44.2 | 29.5 | 20.6 | 11.8 | 11.8 | 0.0 | 0.0 |
| 75° | 2009.4 | 418.4 | 103.1 | 50.1 | 35.4 | 23.6 | 14.7 | 5.9 | 8.8 | 2.9 | 0.0 |
| 77.5° | 639.4 | 223.9 | 67.8 | 38.3 | 29.5 | 17.7 | 11.8 | 5.9 | 5.9 | 2.9 | 0.0 |
| 80° | 188.6 | 117.9 | 41.2 | 32.4 | 20.6 | 14.7 | 8.8 | 2.9 | 5.9 | 2.9 | 0.0 |
| 82.5° | 103.1 | 58.9 | 32.4 | 23.6 | 20.6 | 11.8 | 8.8 | 2.9 | 2.9 | 2.9 | 0.0 |
| 85° | 53.0 | 35.4 | 26.5 | 23.6 | 20.6 | 11.8 | 8.8 | 2.9 | 0.0 | 2.9 | 2.9 |
| 87.5° | 29.5 | 26.5 | 26.5 | 23.6 | 20.6 | 14.7 | 8.8 | 2.9 | 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)