

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: P647003

Luminaire Tested: **GALN-SA6C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31952.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

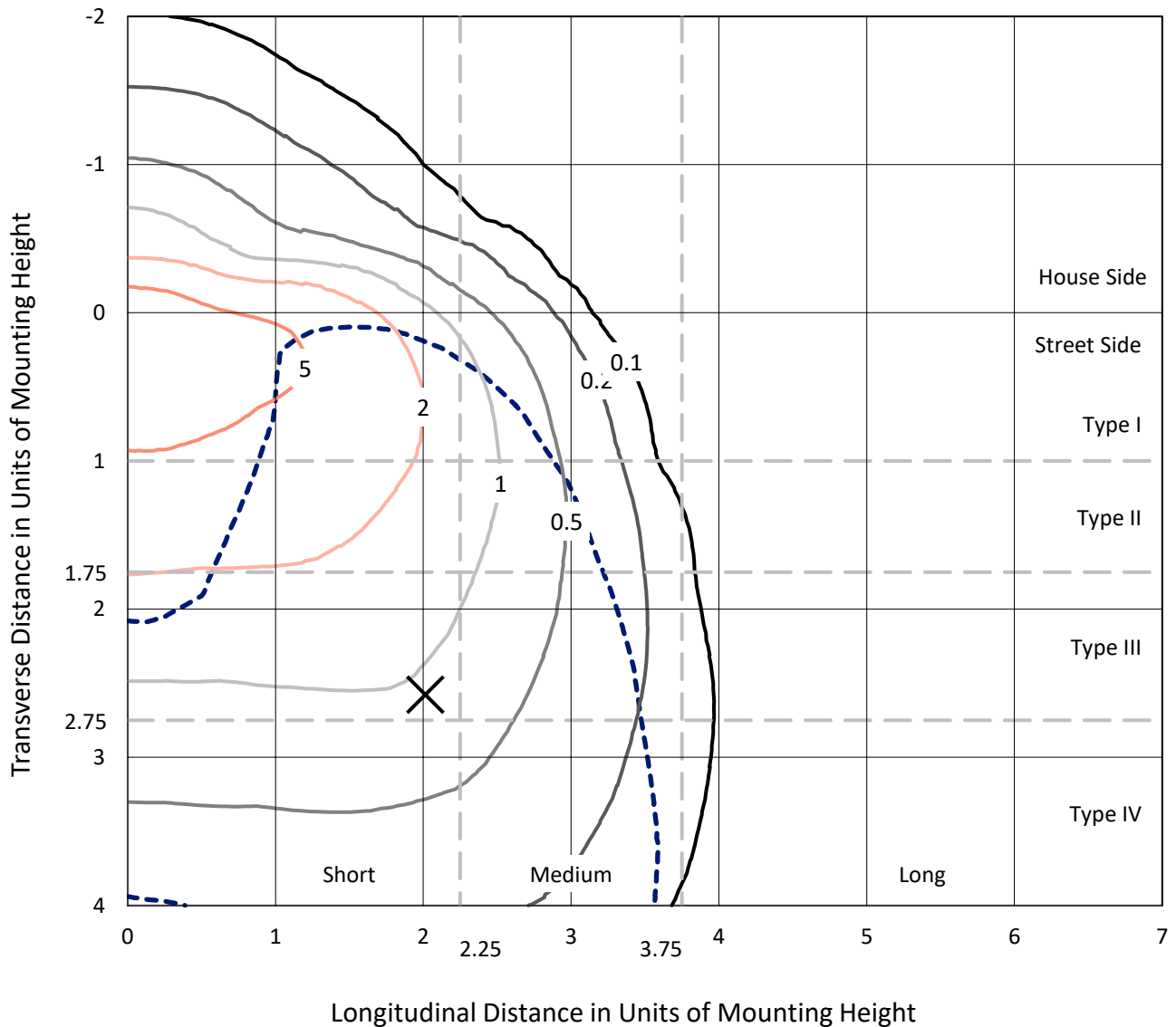
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

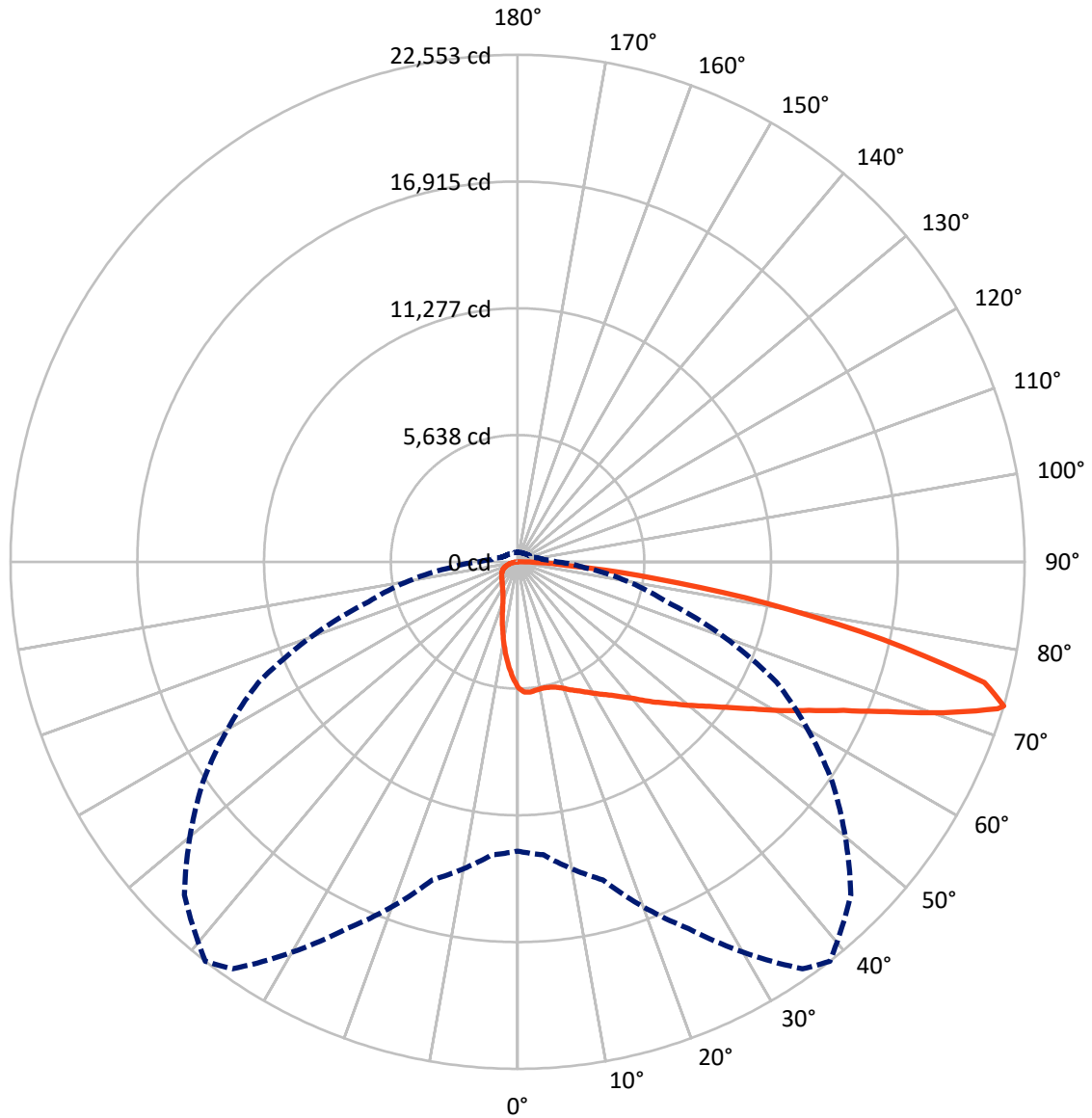
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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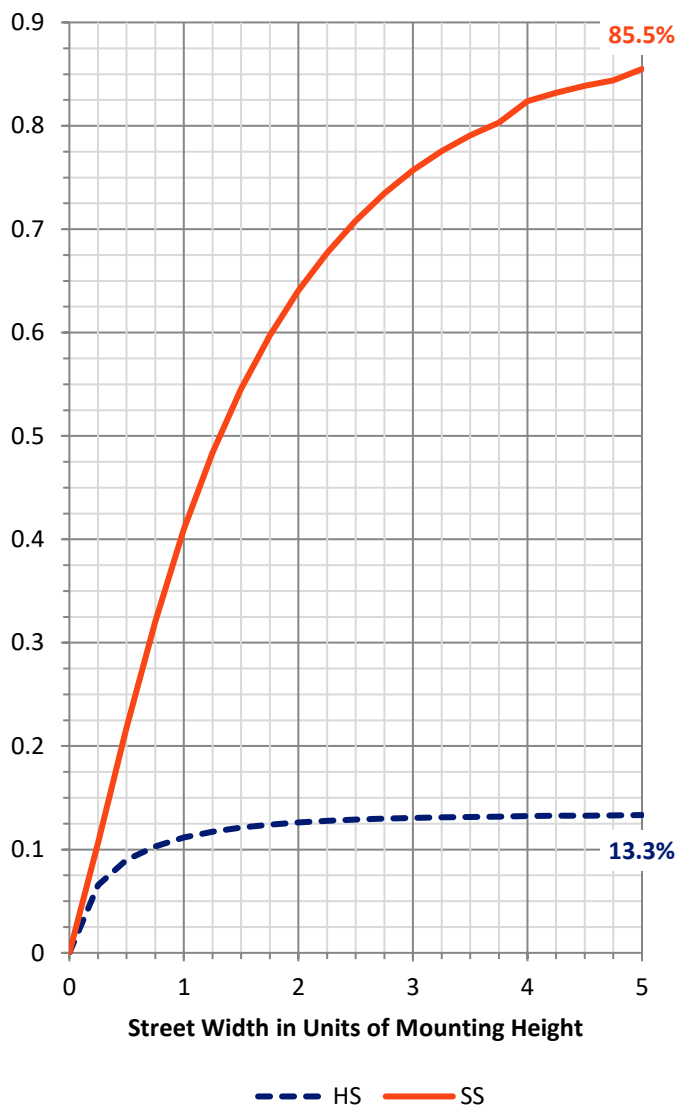
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4295.4 | 0.0 | 4295.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 27657.3 | 0.0 | 27657.3 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 31952.7 | 0.0 | 31952.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 490.0 | 1.5 |
| 10°-20° | 1256.5 | 3.9 |
| 20°-30° | 1956.6 | 6.1 |
| 30°-40° | 2869.9 | 9.0 |
| 40°-50° | 4257.3 | 13.3 |
| 50°-60° | 6031.7 | 18.9 |
| 60°-70° | 7651.4 | 23.9 |
| 70°-80° | 6369.2 | 19.9 |
| 80°-90° | 1070.1 | 3.3 |
| 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° | 31952.7 | 100.0 |
| 0°-180° | 31952.7 | 100.0 |

Coefficient of Utilization



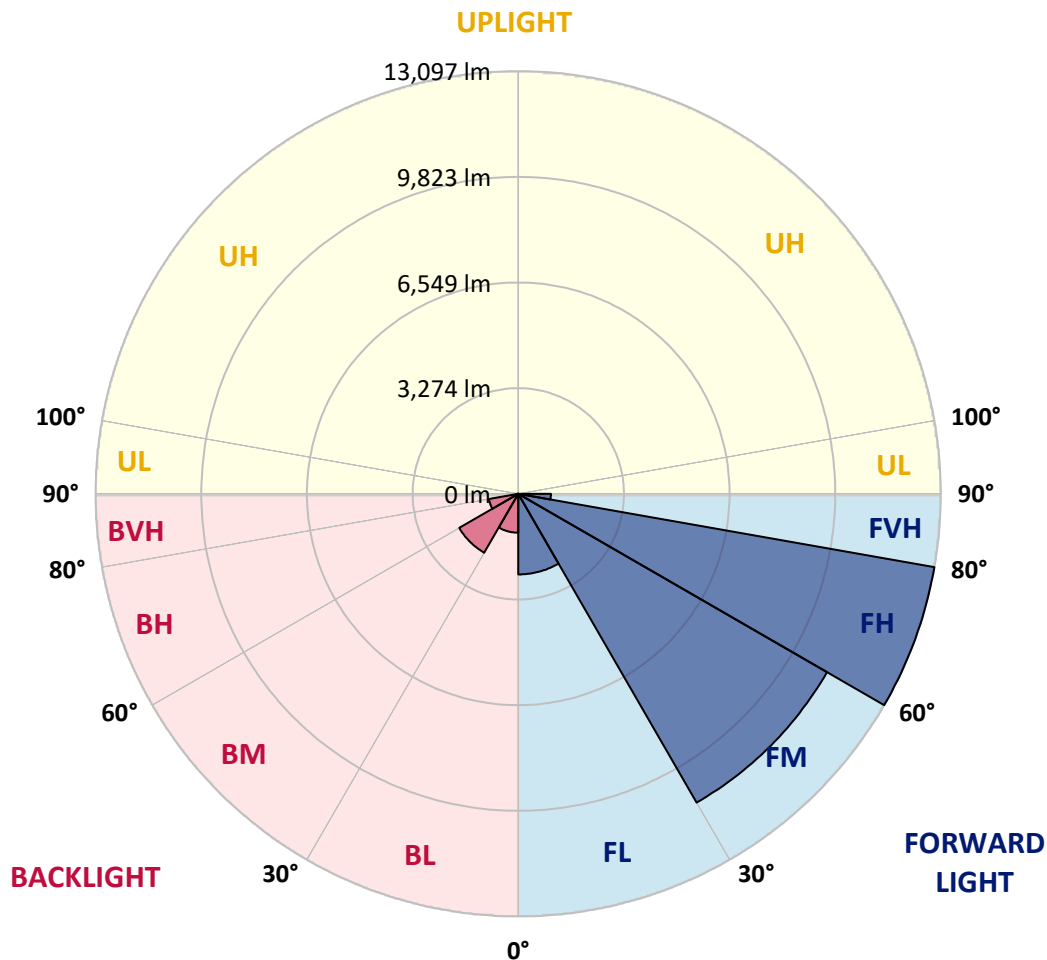
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 CATALOG NUMBER: GALN-SA6C-835-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2497.8 | 7.8 | | | |
| FM (30°-60°) | 11050.1 | 34.6 | | | |
| FH (60°-80°) | 13097.3 | 41.0 | | | G5 |
| FVH (80°-90°) | 1012.1 | 3.2 | | | G5 |
| BL (0°-30°) | 1205.3 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2108.8 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 923.3 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 58.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 |
| 2.5° | 5839.1 | 5868.0 | 5853.6 | 5833.7 | 5821.1 | 5808.5 | 5790.4 | 5738.1 | 5696.6 | 5651.5 | 5581.1 |
| 5° | 5882.4 | 5900.5 | 5887.8 | 5862.6 | 5833.7 | 5821.1 | 5786.8 | 5718.2 | 5651.5 | 5575.7 | 5471.0 |
| 7.5° | 5857.2 | 5864.4 | 5849.9 | 5819.3 | 5794.0 | 5770.6 | 5730.9 | 5655.1 | 5573.9 | 5481.8 | 5344.7 |
| 10° | 5767.0 | 5794.0 | 5794.0 | 5768.8 | 5743.5 | 5730.9 | 5691.2 | 5619.0 | 5545.0 | 5440.3 | 5277.9 |
| 12.5° | 5693.0 | 5721.8 | 5745.3 | 5738.1 | 5736.3 | 5736.3 | 5705.6 | 5651.5 | 5564.9 | 5465.6 | 5272.5 |
| 15° | 5642.4 | 5676.7 | 5727.3 | 5756.1 | 5774.2 | 5779.6 | 5767.0 | 5720.0 | 5631.6 | 5516.1 | 5294.2 |
| 17.5° | 5631.6 | 5673.1 | 5765.2 | 5828.3 | 5875.2 | 5873.4 | 5869.8 | 5804.8 | 5707.4 | 5588.3 | 5321.2 |
| 20° | 5680.3 | 5734.5 | 5862.6 | 5961.8 | 6030.4 | 6017.7 | 5997.9 | 5913.1 | 5799.4 | 5665.9 | 5346.5 |
| 22.5° | 5826.5 | 5882.4 | 6023.1 | 6131.4 | 6198.1 | 6198.1 | 6138.6 | 6026.8 | 5905.9 | 5756.1 | 5380.8 |
| 25° | 6035.8 | 6097.1 | 6246.9 | 6356.9 | 6387.6 | 6364.1 | 6304.6 | 6169.3 | 6030.4 | 5886.0 | 5453.0 |
| 27.5° | 6292.0 | 6365.9 | 6504.9 | 6596.9 | 6587.9 | 6569.9 | 6508.5 | 6335.3 | 6196.3 | 6064.6 | 5575.7 |
| 30° | 6611.4 | 6665.5 | 6809.9 | 6831.5 | 6799.0 | 6795.4 | 6708.8 | 6535.6 | 6405.6 | 6304.6 | 5750.7 |
| 32.5° | 6912.7 | 6961.4 | 7076.9 | 7085.9 | 7028.2 | 7035.4 | 6954.2 | 6795.4 | 6721.4 | 6685.3 | 6044.8 |
| 35° | 7232.1 | 7257.4 | 7356.6 | 7345.8 | 7307.9 | 7302.5 | 7270.0 | 7118.4 | 7141.9 | 7206.8 | 6461.6 |
| 37.5° | 7499.2 | 7549.7 | 7605.6 | 7614.7 | 7612.9 | 7630.9 | 7652.5 | 7580.4 | 7715.7 | 7919.6 | 7008.3 |
| 40° | 7744.6 | 7787.9 | 7870.9 | 7899.8 | 7970.1 | 8006.2 | 8080.2 | 8082.0 | 8394.2 | 8729.7 | 7681.4 |
| 42.5° | 7910.6 | 7984.6 | 8139.8 | 8192.1 | 8363.5 | 8471.7 | 8581.8 | 8699.1 | 9152.0 | 9583.3 | 8475.3 |
| 45° | 8055.0 | 8152.4 | 8410.4 | 8572.8 | 8805.5 | 8937.2 | 9170.0 | 9415.4 | 10066.9 | 10631.7 | 9281.9 |
| 47.5° | 8273.3 | 8359.9 | 8655.8 | 8942.7 | 9294.5 | 9446.1 | 9794.4 | 10160.7 | 11012.3 | 11631.3 | 10054.2 |
| 50° | 8576.4 | 8628.7 | 8930.0 | 9397.4 | 9846.7 | 10041.6 | 10501.7 | 11030.4 | 12022.8 | 12618.3 | 10732.7 |
| 52.5° | 8964.3 | 8986.0 | 9226.0 | 9848.5 | 10440.4 | 10682.2 | 11292.0 | 11909.1 | 12907.0 | 13475.4 | 11270.4 |
| 55° | 9422.7 | 9386.6 | 9574.2 | 10326.7 | 11118.8 | 11434.6 | 12089.6 | 12798.8 | 13901.2 | 14168.3 | 11661.9 |
| 57.5° | 9875.6 | 9819.6 | 9969.4 | 10907.7 | 11956.1 | 12336.8 | 13100.1 | 13715.3 | 14789.0 | 14816.1 | 11936.2 |
| 60° | 10355.6 | 10314.1 | 10492.7 | 11589.8 | 12982.8 | 13433.9 | 14139.4 | 14666.3 | 15647.9 | 15267.2 | 11979.5 |
| 62.5° | 10848.2 | 10781.4 | 11035.8 | 12356.7 | 14139.4 | 14549.0 | 15232.9 | 15676.8 | 16490.6 | 15435.0 | 11562.7 |
| 65° | 11326.3 | 11295.6 | 11689.0 | 13267.9 | 15456.7 | 15922.1 | 16586.2 | 16887.5 | 17165.4 | 15182.4 | 10528.8 |
| 67.5° | 11835.2 | 11896.5 | 12524.5 | 14484.1 | 17174.5 | 17759.1 | 18475.4 | 18192.1 | 17358.5 | 13986.0 | 8866.9 |
| 70° | 12611.1 | 12650.8 | 13621.5 | 16077.3 | 19388.5 | 20094.0 | 20440.4 | 18655.8 | 16427.4 | 11714.3 | 6665.5 |
| 72.5° | 12944.9 | 13119.9 | 14601.3 | 17750.1 | 21903.8 | 22335.1 | 21100.8 | 17622.0 | 13684.7 | 7957.5 | 3502.4 |
| 73° | 12870.9 | 13080.2 | 14646.5 | 18004.5 | 22100.5 | 22553.4 | 20960.1 | 17089.6 | 12721.2 | 6853.2 | 3002.6 |
| 75° | 11948.8 | 12206.9 | 14060.0 | 17791.6 | 21718.0 | 21447.3 | 18697.3 | 14565.3 | 8596.2 | 3116.3 | 1367.7 |
| 77.5° | 9428.1 | 9502.1 | 11140.4 | 14366.8 | 17102.3 | 16600.6 | 13993.2 | 9103.3 | 3511.4 | 1158.4 | 775.9 |
| 80° | 4729.4 | 5001.9 | 6279.3 | 8230.0 | 11436.4 | 11272.2 | 8832.6 | 4305.3 | 1463.3 | 680.3 | 514.3 |
| 82.5° | 2275.4 | 2468.4 | 3058.5 | 4013.0 | 6319.0 | 6169.3 | 4373.9 | 2353.0 | 929.3 | 397.0 | 303.2 |
| 85° | 1465.1 | 1609.5 | 1946.9 | 1914.5 | 2598.4 | 2481.1 | 1965.0 | 1780.9 | 550.4 | 207.5 | 211.1 |
| 87.5° | 967.2 | 1059.2 | 1270.3 | 1015.9 | 945.6 | 855.3 | 868.0 | 1003.3 | 108.3 | 79.4 | 28.9 |
| 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° | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 | 5613.6 |
| 2.5° | 5552.2 | 5528.8 | 5451.2 | 5375.4 | 5303.2 | 5234.6 | 5189.5 | 5130.0 | 5090.3 | 5101.1 | 5117.3 |
| 5° | 5413.3 | 5360.9 | 5223.8 | 5090.3 | 4964.0 | 4814.2 | 4693.3 | 4595.8 | 4521.9 | 4494.8 | 4489.4 |
| 7.5° | 5267.1 | 5178.7 | 4982.0 | 4752.8 | 4538.1 | 4352.2 | 4137.5 | 4031.0 | 3906.5 | 3863.2 | 3848.8 |
| 10° | 5178.7 | 5059.6 | 4783.5 | 4464.1 | 4141.1 | 3832.6 | 3599.8 | 3410.4 | 3239.0 | 3206.5 | 3190.2 |
| 12.5° | 5153.4 | 4996.4 | 4624.7 | 4213.3 | 3783.8 | 3405.0 | 3060.3 | 2811.3 | 2645.3 | 2607.4 | 2551.5 |
| 15° | 5139.0 | 4944.1 | 4476.7 | 3960.7 | 3415.8 | 2953.9 | 2591.2 | 2300.6 | 2149.0 | 2048.0 | 2049.8 |
| 17.5° | 5126.4 | 4884.6 | 4310.7 | 3684.6 | 3098.2 | 2565.9 | 2165.3 | 1903.6 | 1764.7 | 1710.6 | 1705.1 |
| 20° | 5108.3 | 4814.2 | 4119.5 | 3394.1 | 2735.5 | 2212.2 | 1849.5 | 1654.6 | 1560.8 | 1515.7 | 1513.9 |
| 22.5° | 5101.1 | 4745.6 | 3931.8 | 3098.2 | 2414.3 | 1939.7 | 1640.2 | 1503.0 | 1443.5 | 1412.8 | 1412.8 |
| 25° | 5119.1 | 4696.9 | 3735.1 | 2816.7 | 2129.2 | 1706.9 | 1495.8 | 1402.0 | 1367.7 | 1351.5 | 1346.1 |
| 27.5° | 5175.1 | 4675.2 | 3540.3 | 2535.2 | 1867.5 | 1548.2 | 1398.4 | 1333.4 | 1308.2 | 1295.6 | 1297.4 |
| 30° | 5281.5 | 4673.4 | 3349.0 | 2257.3 | 1672.7 | 1427.3 | 1320.8 | 1275.7 | 1255.9 | 1248.7 | 1246.8 |
| 32.5° | 5453.0 | 4713.1 | 3161.4 | 2028.1 | 1508.5 | 1326.2 | 1248.7 | 1216.2 | 1207.2 | 1201.7 | 1199.9 |
| 35° | 5743.5 | 4825.0 | 2975.5 | 1818.8 | 1382.2 | 1236.0 | 1180.1 | 1163.9 | 1151.2 | 1156.6 | 1158.4 |
| 37.5° | 6135.0 | 5018.1 | 2798.7 | 1654.6 | 1286.5 | 1169.3 | 1122.4 | 1107.9 | 1100.7 | 1106.1 | 1111.5 |
| 40° | 6660.1 | 5296.0 | 2650.7 | 1522.9 | 1218.0 | 1113.3 | 1071.8 | 1059.2 | 1052.0 | 1061.0 | 1062.8 |
| 42.5° | 7239.3 | 5617.2 | 2528.0 | 1420.0 | 1162.1 | 1066.4 | 1026.7 | 1012.3 | 1006.9 | 1012.3 | 1014.1 |
| 45° | 7834.8 | 5990.7 | 2464.8 | 1346.1 | 1115.1 | 1032.2 | 990.7 | 974.4 | 961.8 | 958.2 | 963.6 |
| 47.5° | 8421.2 | 6315.4 | 2463.0 | 1301.0 | 1077.3 | 1001.5 | 956.4 | 938.3 | 922.1 | 913.1 | 911.3 |
| 50° | 8899.4 | 6573.5 | 2506.3 | 1281.1 | 1044.8 | 967.2 | 922.1 | 904.1 | 882.4 | 864.4 | 868.0 |
| 52.5° | 9260.3 | 6741.3 | 2526.2 | 1272.1 | 1026.7 | 931.1 | 886.0 | 869.8 | 844.5 | 821.0 | 821.0 |
| 55° | 9493.0 | 6781.0 | 2477.5 | 1263.1 | 1012.3 | 893.2 | 844.5 | 830.1 | 804.8 | 781.3 | 781.3 |
| 57.5° | 9572.4 | 6658.3 | 2302.4 | 1241.4 | 997.9 | 860.7 | 803.0 | 790.4 | 770.5 | 747.1 | 743.5 |
| 60° | 9388.4 | 6243.3 | 1995.7 | 1176.5 | 969.0 | 826.5 | 757.9 | 752.5 | 745.3 | 725.4 | 723.6 |
| 62.5° | 8679.2 | 5362.7 | 1661.8 | 1091.7 | 920.3 | 790.4 | 716.4 | 725.4 | 730.8 | 720.0 | 718.2 |
| 65° | 7499.2 | 4354.0 | 1420.0 | 974.4 | 855.3 | 739.8 | 671.3 | 694.7 | 709.2 | 709.2 | 705.6 |
| 67.5° | 6082.7 | 3343.6 | 1196.3 | 873.4 | 774.1 | 671.3 | 620.7 | 638.8 | 649.6 | 646.0 | 655.0 |
| 70° | 4323.4 | 2264.5 | 974.4 | 757.9 | 671.3 | 593.7 | 555.8 | 555.8 | 548.6 | 545.0 | 545.0 |
| 72.5° | 2096.7 | 1293.8 | 790.4 | 633.4 | 572.0 | 507.1 | 476.4 | 463.8 | 449.3 | 447.5 | 438.5 |
| 73° | 1752.1 | 1160.2 | 754.3 | 609.9 | 548.6 | 494.4 | 460.1 | 440.3 | 431.3 | 424.1 | 422.3 |
| 75° | 1066.4 | 880.6 | 629.8 | 514.3 | 467.4 | 425.9 | 395.2 | 377.1 | 368.1 | 362.7 | 360.9 |
| 77.5° | 701.9 | 656.8 | 489.0 | 393.4 | 357.3 | 332.0 | 319.4 | 301.4 | 295.9 | 288.7 | 288.7 |
| 80° | 523.3 | 501.6 | 350.1 | 277.9 | 256.2 | 234.6 | 231.0 | 227.4 | 212.9 | 203.9 | 200.3 |
| 82.5° | 337.4 | 357.3 | 238.2 | 185.9 | 162.4 | 144.4 | 146.2 | 151.6 | 137.1 | 124.5 | 120.9 |
| 85° | 240.0 | 258.0 | 144.4 | 84.8 | 68.6 | 59.5 | 66.8 | 59.5 | 61.4 | 48.7 | 39.7 |
| 87.5° | 39.7 | 68.6 | 25.3 | 10.8 | 5.4 | 3.6 | 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)