

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: P647164

Luminaire Tested: **GALN-SA9C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42219.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

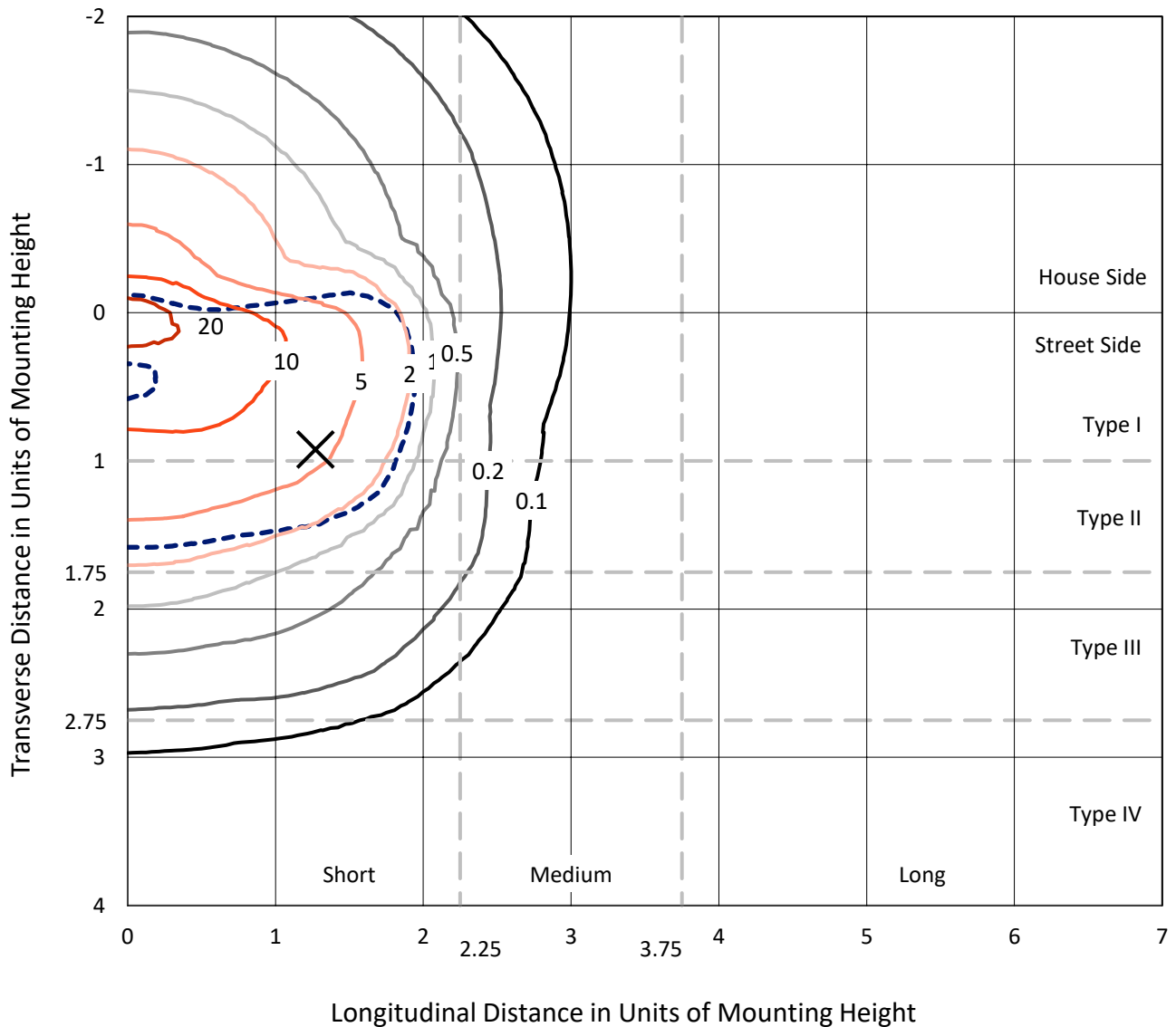
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

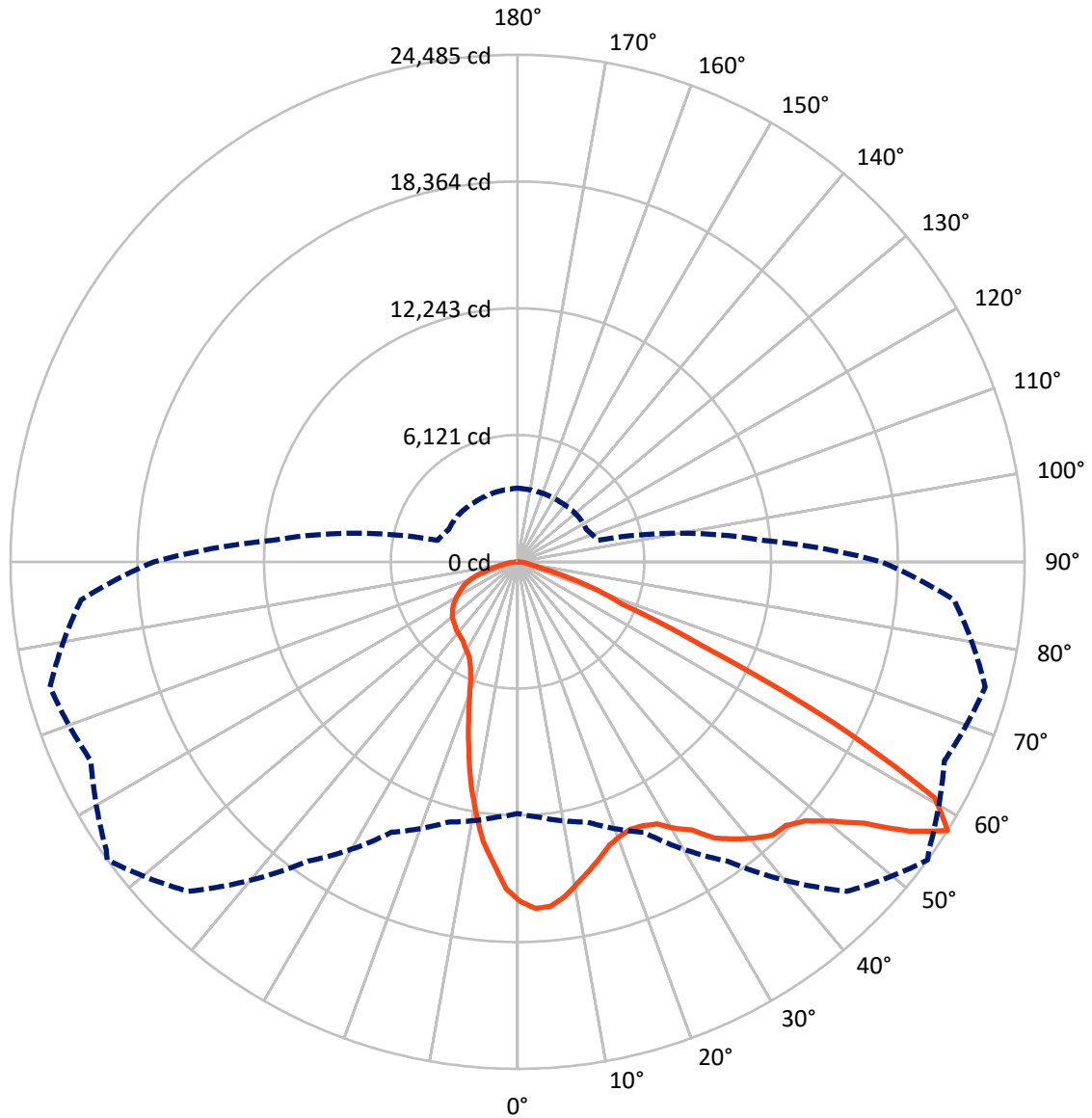
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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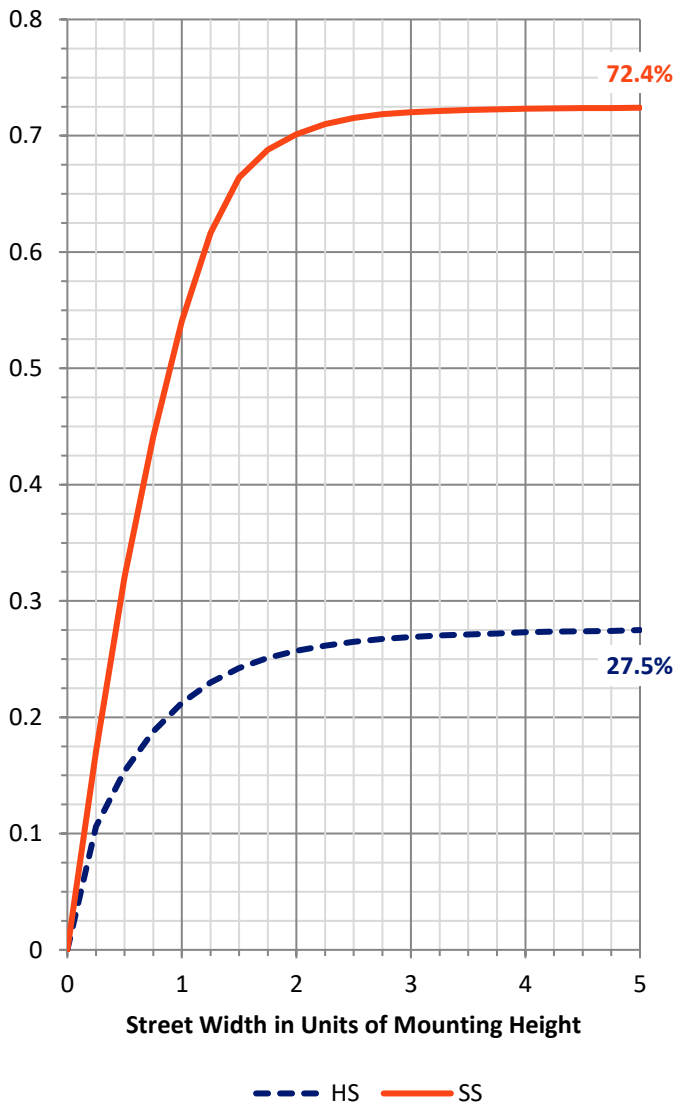
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11680.2 | 0.0 | 11680.2 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 30539.2 | 0.0 | 30539.2 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 42219.4 | 0.0 | 42219.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1415.2 | 3.4 |
| 10°-20° | 3276.7 | 7.8 |
| 20°-30° | 4603.9 | 10.9 |
| 30°-40° | 6436.3 | 15.2 |
| 40°-50° | 8713.5 | 20.6 |
| 50°-60° | 10613.4 | 25.1 |
| 60°-70° | 5527.9 | 13.1 |
| 70°-80° | 1416.5 | 3.4 |
| 80°-90° | 216.1 | 0.5 |
| 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° | 42219.4 | 100.0 |
| 0°-180° | 42219.4 | 100.0 |

Coefficient of Utilization



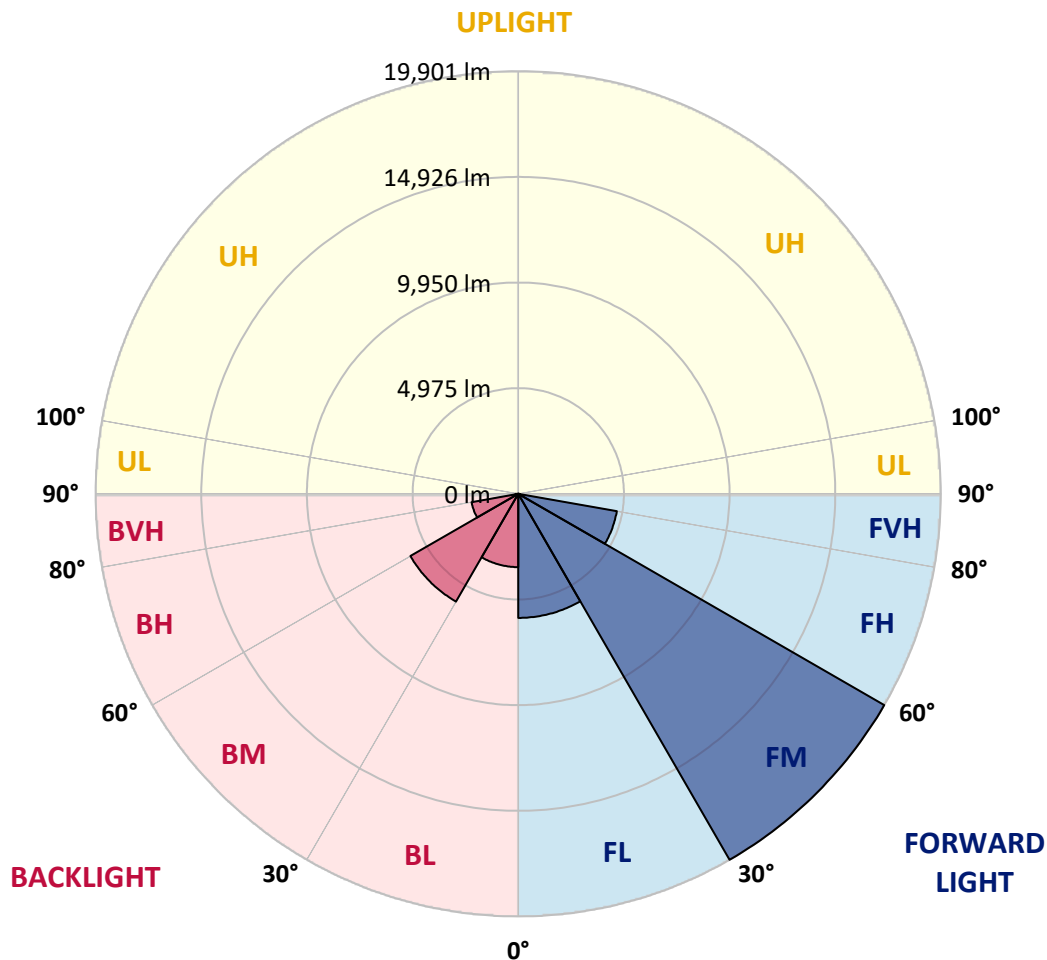
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5843.7 | 13.8 | | | |
| FM (30°-60°) | 19900.9 | 47.1 | | | |
| FH (60°-80°) | 4712.9 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 81.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3452.1 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 5862.2 | 13.9 | B4/8500 | | |
| BH (60°-80°) | 2231.5 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 134.4 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 |
| 2.5° | 16876.9 | 16811.7 | 16822.6 | 16909.4 | 16800.9 | 16757.5 | 16757.5 | 16545.9 | 16562.1 | 16415.6 | 16377.6 |
| 5° | 16486.1 | 16334.2 | 16437.3 | 16567.6 | 16589.3 | 16632.6 | 16703.2 | 16648.9 | 16497.0 | 16339.6 | 16084.6 |
| 7.5° | 15466.0 | 15601.6 | 15639.6 | 15731.9 | 15927.2 | 16106.3 | 16328.8 | 16176.9 | 16171.4 | 16014.1 | 15862.1 |
| 10° | 14570.5 | 14489.2 | 14695.3 | 14831.0 | 15156.6 | 15455.1 | 15796.9 | 15780.7 | 15862.1 | 15683.0 | 15422.5 |
| 12.5° | 13680.6 | 13615.4 | 13713.1 | 14022.4 | 14478.3 | 14912.4 | 15319.4 | 15167.5 | 15601.6 | 15569.0 | 15010.1 |
| 15° | 12736.4 | 12785.2 | 12926.3 | 13213.9 | 13810.8 | 14331.8 | 14847.3 | 14852.7 | 15238.0 | 15368.3 | 14619.4 |
| 17.5° | 12074.3 | 12020.0 | 12199.1 | 12627.8 | 13159.6 | 13783.7 | 14369.8 | 14489.2 | 15080.7 | 15156.6 | 14500.0 |
| 20° | 11580.5 | 11656.4 | 11889.8 | 12106.8 | 12720.1 | 13474.3 | 14136.4 | 14179.8 | 15048.1 | 15254.3 | 14310.1 |
| 22.5° | 11461.1 | 11417.6 | 11493.7 | 11846.4 | 12351.0 | 13170.5 | 14011.6 | 14174.4 | 15042.7 | 15221.8 | 13951.9 |
| 25° | 11336.3 | 11477.4 | 11472.0 | 11824.6 | 12193.7 | 12926.3 | 14114.7 | 14293.8 | 15330.3 | 15389.9 | 14000.7 |
| 27.5° | 11618.5 | 11602.2 | 11754.1 | 11781.3 | 12237.1 | 12991.4 | 14331.8 | 14467.4 | 15807.8 | 15759.0 | 14038.7 |
| 30° | 11900.7 | 11819.2 | 11911.5 | 12231.6 | 12443.3 | 13365.8 | 14928.7 | 14917.9 | 16426.5 | 16393.9 | 14158.1 |
| 32.5° | 12247.9 | 12209.9 | 12269.7 | 12551.8 | 12910.0 | 13865.1 | 15433.4 | 15753.6 | 17055.9 | 17262.2 | 14570.5 |
| 35° | 12313.1 | 12470.4 | 12611.5 | 12991.4 | 13501.5 | 14673.7 | 16383.0 | 16648.9 | 17783.1 | 18428.9 | 15357.4 |
| 37.5° | 12725.5 | 12785.2 | 13116.2 | 13789.1 | 14255.8 | 15753.6 | 16985.4 | 17153.7 | 18445.2 | 19177.8 | 16187.7 |
| 40° | 13165.0 | 13235.6 | 13734.8 | 14440.3 | 15080.7 | 16459.1 | 17549.8 | 17604.0 | 18656.8 | 19753.0 | 16730.4 |
| 42.5° | 13762.0 | 13827.1 | 14320.9 | 15205.5 | 16062.9 | 17061.4 | 18049.0 | 18108.8 | 18640.6 | 20415.1 | 17593.2 |
| 45° | 14380.6 | 14538.0 | 15118.6 | 16122.6 | 16893.1 | 17766.8 | 18163.0 | 18407.2 | 18792.5 | 21006.6 | 18293.2 |
| 47.5° | 15248.8 | 15395.4 | 15873.0 | 16855.2 | 17756.0 | 18385.5 | 18689.3 | 18928.2 | 19156.1 | 21522.1 | 18743.6 |
| 50° | 16171.4 | 16198.5 | 16779.2 | 17669.2 | 18331.2 | 19085.5 | 19671.6 | 19753.0 | 19633.6 | 22119.0 | 19508.8 |
| 52.5° | 16849.8 | 16936.6 | 17387.0 | 18255.3 | 19242.9 | 20170.9 | 20974.0 | 21060.8 | 20827.5 | 22341.5 | 19769.3 |
| 55° | 15726.4 | 15677.6 | 16410.2 | 17566.1 | 19856.1 | 21788.0 | 22954.7 | 23019.8 | 21695.8 | 23030.7 | 20621.2 |
| 57.5° | 12155.7 | 12389.0 | 13013.1 | 14407.7 | 17642.0 | 22504.3 | 24485.0 | 24251.7 | 22737.6 | 23378.0 | 21163.9 |
| 60° | 8834.6 | 8780.3 | 9198.1 | 10131.6 | 13295.3 | 19394.8 | 23150.1 | 23388.8 | 21885.6 | 21071.7 | 17452.1 |
| 62.5° | 7195.8 | 7119.7 | 7152.3 | 7184.9 | 8579.6 | 12872.0 | 17137.4 | 17132.0 | 16855.2 | 15145.8 | 11770.4 |
| 65° | 5752.2 | 5931.3 | 5947.6 | 6191.8 | 6370.9 | 7689.5 | 9930.8 | 10462.6 | 9111.4 | 7472.5 | 5421.3 |
| 67.5° | 4335.9 | 4270.8 | 4487.8 | 5356.1 | 5692.6 | 5551.5 | 5421.3 | 5480.9 | 3896.4 | 2811.0 | 2648.2 |
| 70° | 2555.9 | 2528.9 | 2789.3 | 3733.5 | 4688.6 | 4411.9 | 4086.2 | 4091.7 | 2675.4 | 1964.5 | 2186.9 |
| 72.5° | 1400.1 | 1394.7 | 1448.9 | 1893.9 | 2664.5 | 2767.6 | 2452.8 | 2528.9 | 1595.4 | 1590.0 | 1709.4 |
| 75° | 781.4 | 765.1 | 748.9 | 835.7 | 960.5 | 1014.8 | 1036.5 | 1047.3 | 1096.2 | 1226.4 | 1275.3 |
| 77.5° | 287.6 | 276.8 | 276.8 | 320.2 | 407.0 | 510.1 | 645.7 | 656.6 | 776.0 | 890.0 | 938.8 |
| 80° | 97.7 | 108.5 | 146.5 | 200.8 | 271.3 | 363.5 | 439.6 | 450.4 | 548.1 | 624.1 | 640.3 |
| 82.5° | 59.7 | 65.1 | 97.7 | 141.1 | 195.4 | 255.0 | 325.6 | 331.1 | 407.0 | 455.9 | 477.6 |
| 85° | 27.2 | 32.6 | 54.3 | 86.8 | 124.8 | 168.2 | 173.7 | 173.7 | 168.2 | 173.7 | 162.8 |
| 87.5° | 0.0 | 0.0 | 10.9 | 10.9 | 10.9 | 16.3 | 21.7 | 16.3 | 27.2 | 32.6 | 32.6 |
| 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° | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 | 16410.2 |
| 2.5° | 16263.7 | 16204.0 | 16019.5 | 15856.7 | 15807.8 | 15590.8 | 15270.6 | 15308.6 | 15075.3 | 15183.8 | 15069.8 |
| 5° | 16041.2 | 15840.4 | 15368.3 | 15167.5 | 14641.1 | 14402.3 | 14239.6 | 13832.6 | 13642.6 | 13604.6 | 13441.8 |
| 7.5° | 15471.4 | 15346.6 | 14755.1 | 14212.4 | 13653.4 | 13175.9 | 12562.7 | 12144.8 | 11846.4 | 11765.0 | 11526.2 |
| 10° | 15021.0 | 14744.2 | 13924.8 | 13099.9 | 12302.2 | 11472.0 | 10674.2 | 10050.1 | 9746.2 | 9393.5 | 9274.2 |
| 12.5° | 14575.9 | 14158.1 | 13051.1 | 11992.9 | 10961.8 | 9914.5 | 8948.5 | 8188.8 | 7526.7 | 7369.4 | 7315.1 |
| 15° | 14299.2 | 13572.1 | 12269.7 | 10994.4 | 9529.2 | 8161.7 | 7195.8 | 6696.5 | 6289.4 | 6121.3 | 6240.7 |
| 17.5° | 13935.6 | 13089.1 | 11520.7 | 9822.3 | 8210.5 | 6951.6 | 6142.9 | 5833.7 | 5687.2 | 5703.4 | 5654.6 |
| 20° | 13479.8 | 12633.2 | 10538.6 | 8758.6 | 7032.9 | 6029.0 | 5567.8 | 5453.8 | 5475.5 | 5513.5 | 5497.2 |
| 22.5° | 13154.2 | 12079.7 | 9827.7 | 7673.2 | 6077.9 | 5518.9 | 5328.9 | 5247.6 | 5318.1 | 5350.7 | 5323.5 |
| 25° | 12904.5 | 11607.6 | 8964.8 | 6712.7 | 5524.3 | 5231.3 | 5144.5 | 5139.1 | 5247.6 | 5291.0 | 5263.9 |
| 27.5° | 12676.6 | 11168.0 | 8107.4 | 5980.2 | 5155.4 | 5008.8 | 4981.7 | 5046.7 | 5117.3 | 5160.8 | 5198.7 |
| 30° | 12541.0 | 10831.6 | 7304.3 | 5366.9 | 4970.8 | 4900.2 | 4851.4 | 4911.1 | 4949.1 | 4992.5 | 4970.8 |
| 32.5° | 12671.2 | 10592.8 | 6528.3 | 5019.7 | 4818.9 | 4748.3 | 4813.4 | 4775.4 | 4840.6 | 4878.6 | 4818.9 |
| 35° | 13078.2 | 10381.2 | 5974.8 | 4835.2 | 4645.2 | 4672.3 | 4683.2 | 4666.9 | 4694.1 | 4661.5 | 4732.1 |
| 37.5° | 13479.8 | 10305.2 | 5464.6 | 4677.8 | 4563.8 | 4563.8 | 4553.0 | 4520.4 | 4574.7 | 4563.8 | 4596.4 |
| 40° | 13989.9 | 10354.1 | 5030.5 | 4509.5 | 4487.8 | 4477.0 | 4433.6 | 4428.2 | 4406.4 | 4411.9 | 4422.7 |
| 42.5° | 14434.9 | 10462.6 | 4780.8 | 4401.0 | 4417.3 | 4439.0 | 4357.6 | 4292.5 | 4319.6 | 4265.3 | 4265.3 |
| 45° | 14907.0 | 10560.2 | 4558.4 | 4325.1 | 4308.8 | 4303.4 | 4238.2 | 4200.2 | 4178.5 | 4184.0 | 4232.8 |
| 47.5° | 15650.4 | 10701.3 | 4390.1 | 4221.9 | 4232.8 | 4151.4 | 4135.1 | 4086.2 | 4108.0 | 4140.5 | 4146.0 |
| 50° | 16176.9 | 10999.8 | 4259.9 | 4102.5 | 4140.5 | 4086.2 | 3988.6 | 3966.9 | 3966.9 | 4021.2 | 4010.3 |
| 52.5° | 16545.9 | 11417.6 | 4135.1 | 3972.3 | 3988.6 | 3945.1 | 3912.7 | 3863.8 | 3831.2 | 3907.2 | 3945.1 |
| 55° | 17674.6 | 12112.3 | 4102.5 | 3863.8 | 3858.3 | 3814.9 | 3755.3 | 3706.4 | 3690.1 | 3701.0 | 3777.0 |
| 57.5° | 17566.1 | 11895.2 | 3999.4 | 3673.8 | 3663.0 | 3603.3 | 3543.6 | 3527.3 | 3521.9 | 3532.7 | 3554.4 |
| 60° | 14261.2 | 8785.7 | 3570.7 | 3456.8 | 3440.5 | 3429.6 | 3370.0 | 3304.8 | 3272.2 | 3304.8 | 3277.7 |
| 62.5° | 9437.0 | 5882.5 | 3147.4 | 3196.3 | 3207.2 | 3180.0 | 3082.4 | 3017.2 | 3028.1 | 3066.1 | 3006.3 |
| 65° | 4634.3 | 3456.8 | 2854.4 | 2984.6 | 2995.5 | 2919.6 | 2827.3 | 2751.3 | 2713.3 | 2745.9 | 2718.7 |
| 67.5° | 2648.2 | 2642.8 | 2615.6 | 2751.3 | 2745.9 | 2669.9 | 2523.4 | 2458.3 | 2393.2 | 2404.0 | 2387.8 |
| 70° | 2246.7 | 2290.0 | 2344.3 | 2425.7 | 2420.3 | 2333.5 | 2159.8 | 2111.0 | 2018.7 | 2007.8 | 1980.8 |
| 72.5° | 1769.1 | 1845.1 | 1964.5 | 2024.1 | 1975.3 | 1866.8 | 1752.8 | 1671.4 | 1590.0 | 1541.2 | 1557.5 |
| 75° | 1313.2 | 1421.8 | 1486.9 | 1524.9 | 1448.9 | 1389.2 | 1297.0 | 1199.3 | 1101.6 | 1058.2 | 1041.9 |
| 77.5° | 955.1 | 987.7 | 1047.3 | 1074.5 | 1025.7 | 965.9 | 911.6 | 814.0 | 721.8 | 662.0 | 645.7 |
| 80° | 667.5 | 689.2 | 732.6 | 732.6 | 732.6 | 705.5 | 634.9 | 537.2 | 477.6 | 423.3 | 412.4 |
| 82.5° | 466.7 | 488.4 | 531.8 | 510.1 | 504.6 | 472.1 | 428.7 | 352.7 | 287.6 | 249.6 | 238.7 |
| 85° | 162.8 | 179.1 | 217.0 | 260.5 | 276.8 | 271.3 | 244.2 | 195.4 | 152.0 | 124.8 | 113.9 |
| 87.5° | 38.0 | 38.0 | 43.4 | 38.0 | 38.0 | 43.4 | 38.0 | 38.0 | 38.0 | 27.2 | 21.7 |
| 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)