

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: P454984

Luminaire Tested: **GALN-SA6A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19759 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

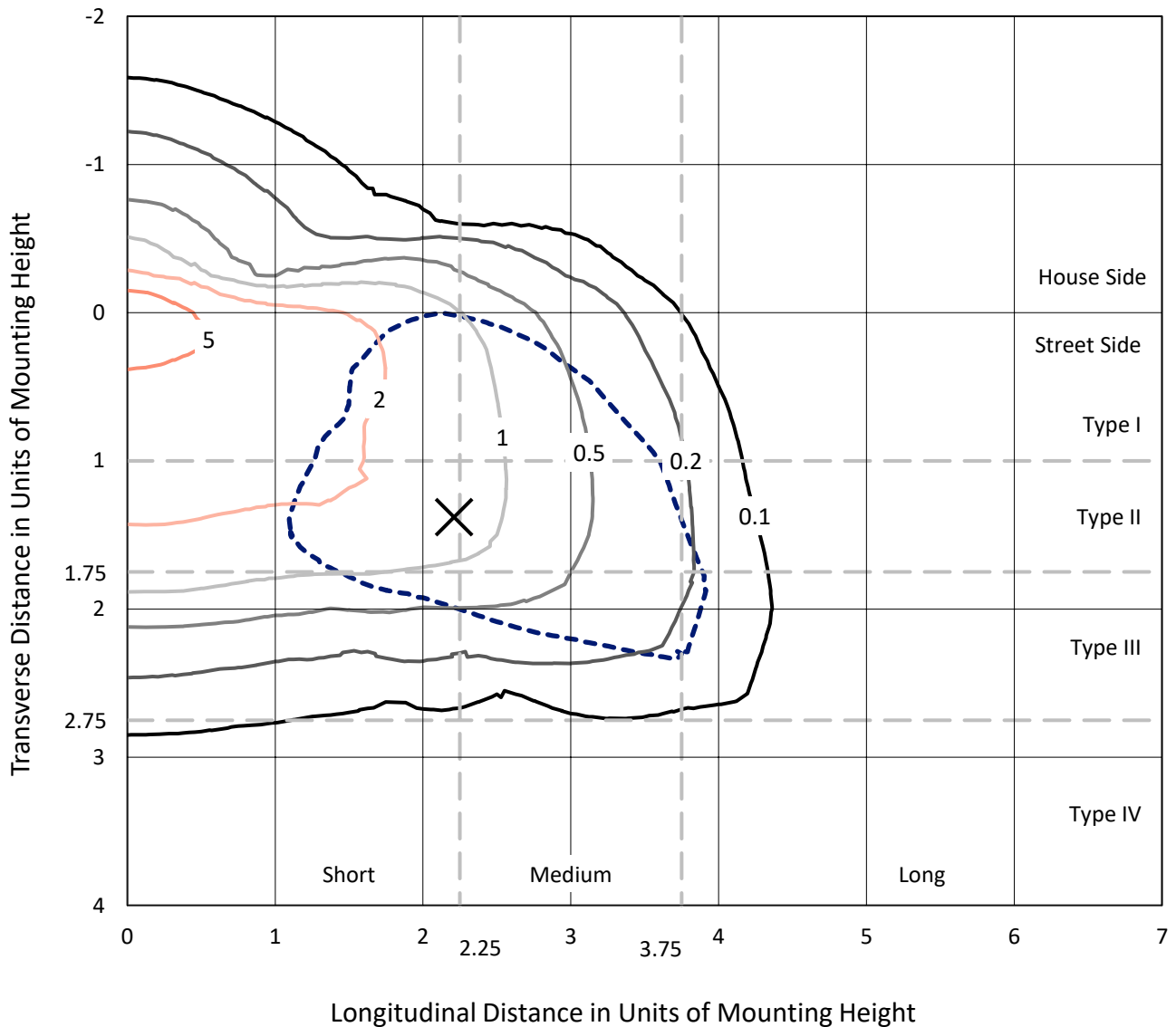
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

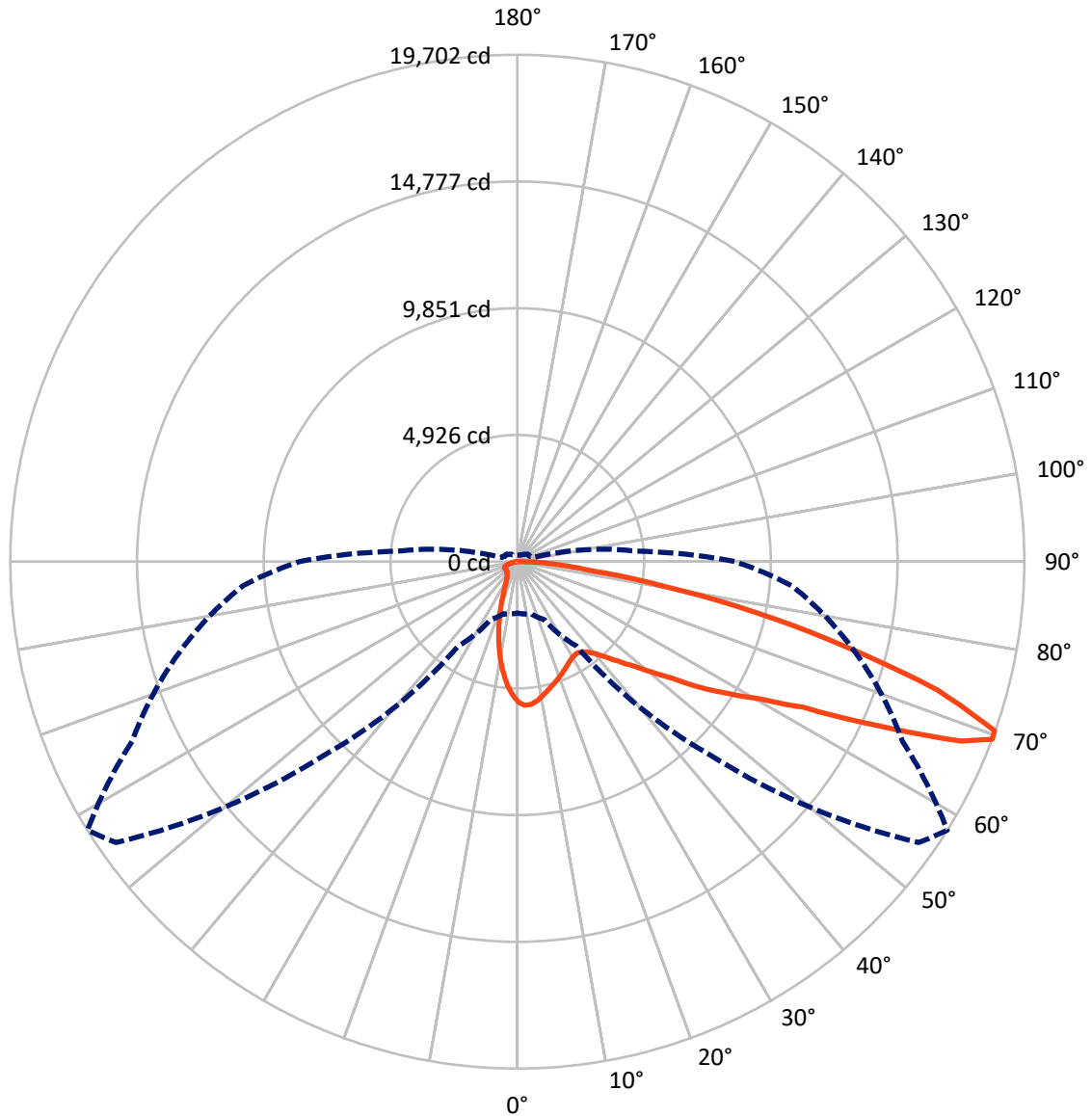
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2895.7 | 0.0 | 2895.7 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 16863.3 | 0.0 | 16863.3 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 19759.0 | 0.0 | 19759.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 463.7 | 2.3 |
| 10°-20° | 1018.2 | 5.2 |
| 20°-30° | 1315.6 | 6.7 |
| 30°-40° | 1708.7 | 8.6 |
| 40°-50° | 2484.1 | 12.6 |
| 50°-60° | 3963.9 | 20.1 |
| 60°-70° | 5295.2 | 26.8 |
| 70°-80° | 3052.5 | 15.4 |
| 80°-90° | 457.2 | 2.3 |
| 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° | 19759.0 | 100.0 |
| 0°-180° | 19759.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P454984

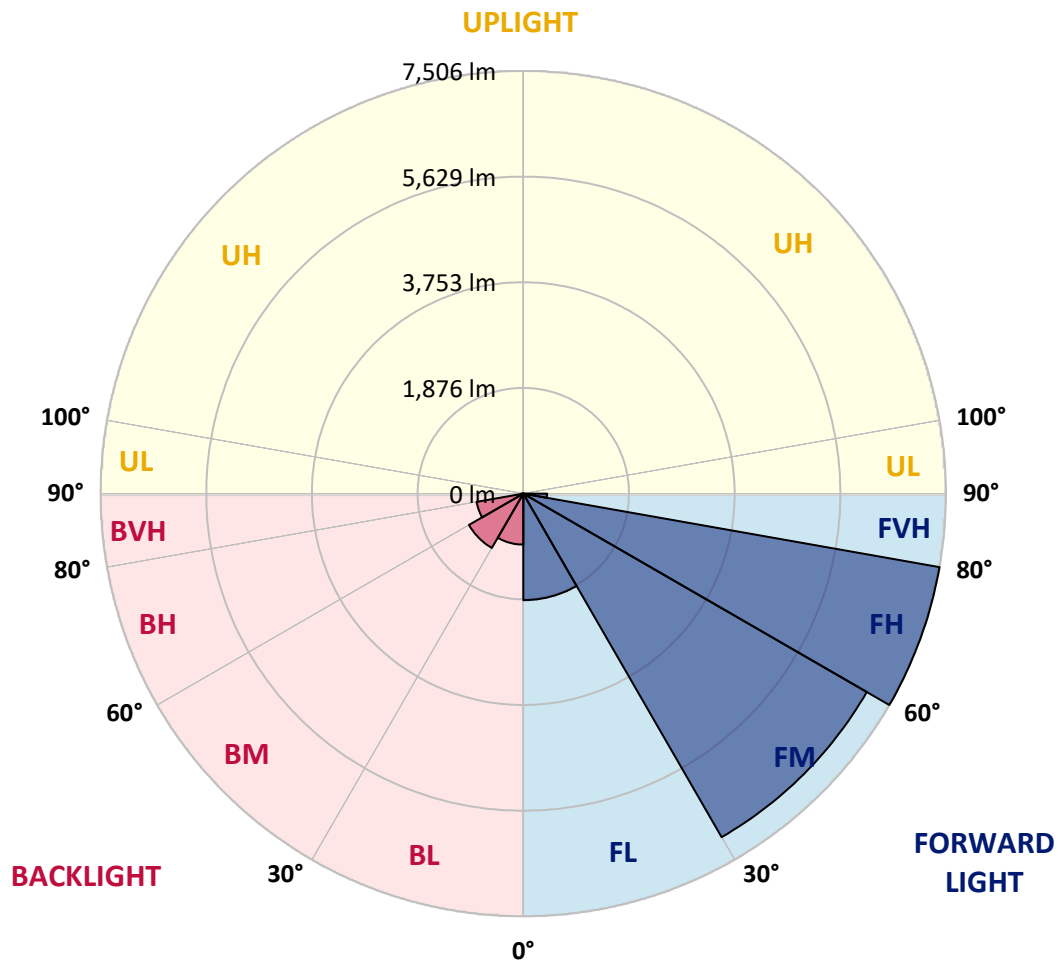
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1892.4 | 9.6 | | | |
| FM (30°-60°) | 7043.1 | 35.6 | | | |
| FH (60°-80°) | 7505.7 | 38.0 | | | G4/12000 |
| FVH (80°-90°) | 422.2 | 2.1 | | | G3/500 |
| BL (0°-30°) | 905.1 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1113.6 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 842.0 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 |
| 2.5° | 5663.0 | 5678.4 | 5674.0 | 5668.5 | 5659.7 | 5635.4 | 5595.8 | 5589.2 | 5563.8 | 5509.8 | 5442.6 |
| 5° | 5575.9 | 5589.2 | 5590.3 | 5598.0 | 5609.0 | 5604.6 | 5575.9 | 5572.6 | 5535.2 | 5462.4 | 5350.0 |
| 7.5° | 5277.3 | 5294.9 | 5333.5 | 5376.5 | 5415.1 | 5451.4 | 5460.2 | 5465.7 | 5442.6 | 5358.9 | 5209.0 |
| 10° | 4941.2 | 4958.8 | 4976.5 | 5040.4 | 5135.2 | 5225.5 | 5300.4 | 5310.4 | 5315.9 | 5238.7 | 5055.8 |
| 12.5° | 4568.7 | 4605.1 | 4642.6 | 4737.3 | 4864.1 | 5006.2 | 5138.5 | 5159.4 | 5196.9 | 5138.5 | 4923.6 |
| 15° | 4252.5 | 4289.9 | 4343.9 | 4428.8 | 4582.0 | 4786.9 | 4973.2 | 5007.3 | 5081.2 | 5051.4 | 4800.2 |
| 17.5° | 4033.2 | 4046.4 | 4083.9 | 4180.9 | 4346.1 | 4562.1 | 4811.2 | 4879.5 | 4997.4 | 4989.7 | 4694.4 |
| 20° | 3860.2 | 3876.7 | 3899.9 | 3959.4 | 4131.3 | 4359.4 | 4660.2 | 4748.4 | 4908.1 | 4934.6 | 4589.7 |
| 22.5° | 3787.4 | 3799.6 | 3796.3 | 3828.2 | 3945.0 | 4174.2 | 4507.0 | 4611.7 | 4828.8 | 4897.1 | 4492.7 |
| 25° | 3791.9 | 3802.9 | 3786.3 | 3778.6 | 3848.1 | 4011.1 | 4347.2 | 4480.6 | 4764.9 | 4871.8 | 4404.5 |
| 27.5° | 3865.7 | 3873.4 | 3842.5 | 3811.7 | 3817.2 | 3909.8 | 4215.0 | 4362.7 | 4710.9 | 4882.8 | 4330.7 |
| 30° | 3964.9 | 3979.2 | 3959.4 | 3921.9 | 3881.1 | 3885.5 | 4130.2 | 4275.6 | 4685.6 | 4921.4 | 4295.5 |
| 32.5° | 4092.7 | 4105.9 | 4097.1 | 4067.3 | 4014.5 | 3956.1 | 4109.2 | 4243.7 | 4687.8 | 4999.6 | 4287.7 |
| 35° | 4227.1 | 4253.6 | 4267.9 | 4265.7 | 4222.7 | 4121.3 | 4191.9 | 4303.2 | 4740.6 | 5130.7 | 4332.9 |
| 37.5° | 4379.2 | 4401.2 | 4463.0 | 4502.6 | 4463.0 | 4345.0 | 4378.1 | 4455.2 | 4857.5 | 5320.3 | 4432.1 |
| 40° | 4526.9 | 4559.9 | 4650.3 | 4773.7 | 4758.3 | 4654.7 | 4662.4 | 4713.1 | 5063.5 | 5602.4 | 4626.0 |
| 42.5° | 4681.1 | 4720.8 | 4878.4 | 5061.3 | 5097.7 | 5017.2 | 5038.2 | 5083.4 | 5356.6 | 5993.6 | 4958.8 |
| 45° | 4879.5 | 4926.9 | 5120.8 | 5348.9 | 5492.2 | 5442.6 | 5502.1 | 5524.1 | 5748.9 | 6502.7 | 5397.4 |
| 47.5° | 5135.2 | 5190.2 | 5429.4 | 5713.7 | 5916.4 | 5961.6 | 6065.2 | 6052.0 | 6234.9 | 7105.5 | 5966.0 |
| 50° | 5566.0 | 5596.9 | 5822.8 | 6112.6 | 6391.4 | 6595.3 | 6707.7 | 6728.6 | 6837.7 | 7691.7 | 6601.9 |
| 52.5° | 6078.4 | 6106.0 | 6269.1 | 6522.5 | 6871.8 | 7303.8 | 7581.5 | 7513.2 | 7539.6 | 8405.8 | 7345.7 |
| 55° | 6654.8 | 6701.0 | 6804.6 | 6973.2 | 7426.1 | 8062.0 | 8619.6 | 8636.1 | 8343.0 | 9089.0 | 8058.7 |
| 57.5° | 7101.1 | 7179.3 | 7356.7 | 7596.9 | 8171.1 | 8905.0 | 9654.3 | 9665.3 | 9290.7 | 9818.5 | 8845.5 |
| 60° | 6876.3 | 6968.8 | 7374.3 | 7959.5 | 9148.5 | 10376.1 | 10890.7 | 10827.9 | 10213.0 | 10649.4 | 9805.3 |
| 62.5° | 5906.5 | 5923.1 | 6512.6 | 7427.2 | 9449.3 | 12344.2 | 12731.0 | 12465.4 | 11443.9 | 11702.9 | 10780.5 |
| 65° | 3822.7 | 3930.7 | 4397.9 | 5679.5 | 8460.9 | 13436.2 | 15955.3 | 15341.5 | 13169.6 | 12898.5 | 11597.1 |
| 67.5° | 2413.3 | 2385.8 | 2579.7 | 3243.1 | 5819.5 | 12474.2 | 18706.9 | 18610.0 | 15426.4 | 13653.3 | 11402.0 |
| 69° | 2001.2 | 2032.0 | 2098.1 | 2486.0 | 4004.5 | 10650.5 | 19032.0 | 19702.0 | 16520.6 | 13593.8 | 10693.5 |
| 70° | 1814.9 | 1829.3 | 1898.7 | 2203.9 | 3089.9 | 8920.4 | 18498.7 | 19672.3 | 16950.4 | 13344.8 | 10179.9 |
| 72.5° | 1440.3 | 1439.2 | 1558.2 | 1833.7 | 2309.7 | 5092.2 | 15189.5 | 17079.3 | 16470.0 | 12185.5 | 8411.3 |
| 75° | 1094.3 | 1111.9 | 1243.0 | 1551.6 | 2127.9 | 2782.5 | 10599.8 | 13153.0 | 13154.1 | 9624.6 | 5248.7 |
| 77.5° | 789.0 | 800.0 | 953.2 | 1302.5 | 2004.5 | 2255.7 | 7060.3 | 9433.9 | 8868.6 | 4410.1 | 1649.6 |
| 80° | 516.8 | 523.4 | 640.2 | 1031.4 | 1807.2 | 2127.9 | 4186.4 | 5774.3 | 4183.1 | 1170.3 | 545.5 |
| 82.5° | 283.2 | 316.3 | 391.2 | 667.8 | 1450.2 | 1965.9 | 2544.4 | 2922.4 | 1569.2 | 521.2 | 284.3 |
| 85° | 142.2 | 151.0 | 220.4 | 390.1 | 947.7 | 1626.5 | 1772.0 | 1676.1 | 809.9 | 259.0 | 147.7 |
| 87.5° | 41.9 | 52.9 | 91.5 | 151.0 | 384.6 | 847.4 | 986.3 | 884.9 | 311.9 | 93.7 | 30.9 |
| 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° | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 | 5460.2 |
| 2.5° | 5415.1 | 5395.2 | 5307.1 | 5227.7 | 5155.0 | 5077.8 | 5012.8 | 4955.5 | 4961.0 | 4962.1 | 4903.7 |
| 5° | 5291.6 | 5246.4 | 5079.0 | 4922.5 | 4790.2 | 4622.7 | 4479.5 | 4386.9 | 4340.6 | 4278.9 | 4301.0 |
| 7.5° | 5124.1 | 5037.1 | 4804.6 | 4544.5 | 4301.0 | 4083.9 | 3848.1 | 3686.1 | 3582.5 | 3482.2 | 3495.4 |
| 10° | 4951.1 | 4811.2 | 4472.9 | 4129.1 | 3813.9 | 3466.8 | 3165.9 | 2908.1 | 2716.3 | 2644.7 | 2597.3 |
| 12.5° | 4773.7 | 4589.7 | 4159.9 | 3702.6 | 3267.3 | 2851.9 | 2425.4 | 2148.8 | 1937.3 | 1824.9 | 1839.2 |
| 15° | 4611.7 | 4388.0 | 3833.7 | 3276.1 | 2710.8 | 2216.0 | 1790.7 | 1527.3 | 1379.7 | 1348.8 | 1366.4 |
| 17.5° | 4461.9 | 4168.7 | 3528.5 | 2861.8 | 2201.7 | 1661.8 | 1345.5 | 1196.7 | 1137.2 | 1120.7 | 1119.6 |
| 20° | 4307.6 | 3982.5 | 3185.8 | 2418.8 | 1715.8 | 1288.2 | 1104.2 | 1034.7 | 1023.7 | 1030.3 | 1031.4 |
| 22.5° | 4151.1 | 3752.2 | 2833.1 | 1979.1 | 1366.4 | 1053.5 | 965.3 | 946.6 | 955.4 | 970.8 | 973.0 |
| 25° | 4006.7 | 3549.4 | 2493.7 | 1593.4 | 1090.9 | 925.6 | 882.7 | 882.7 | 902.5 | 925.6 | 926.8 |
| 27.5° | 3887.7 | 3353.3 | 2155.4 | 1265.1 | 913.5 | 833.1 | 818.8 | 826.5 | 854.0 | 871.7 | 872.8 |
| 30° | 3789.7 | 3170.3 | 1835.9 | 1013.8 | 803.3 | 759.3 | 755.9 | 769.2 | 789.0 | 805.5 | 806.6 |
| 32.5° | 3715.8 | 3009.5 | 1537.2 | 851.8 | 727.3 | 703.1 | 702.0 | 711.9 | 722.9 | 727.3 | 731.7 |
| 35° | 3687.2 | 2876.1 | 1264.0 | 749.3 | 676.6 | 661.2 | 661.2 | 660.1 | 664.5 | 666.7 | 668.9 |
| 37.5° | 3710.3 | 2773.6 | 1052.4 | 683.2 | 639.1 | 628.1 | 621.5 | 614.9 | 612.7 | 612.7 | 613.8 |
| 40° | 3808.4 | 2719.6 | 894.8 | 640.2 | 612.7 | 596.2 | 584.0 | 576.3 | 568.6 | 570.8 | 573.0 |
| 42.5° | 4016.7 | 2729.6 | 787.9 | 611.6 | 589.6 | 566.4 | 548.8 | 540.0 | 534.5 | 541.1 | 540.0 |
| 45° | 4348.3 | 2828.7 | 719.6 | 591.8 | 566.4 | 536.7 | 520.1 | 511.3 | 511.3 | 521.2 | 524.5 |
| 47.5° | 4812.3 | 3018.3 | 683.2 | 576.3 | 548.8 | 513.5 | 497.0 | 490.4 | 492.6 | 509.1 | 510.2 |
| 50° | 5378.7 | 3347.8 | 676.6 | 568.6 | 540.0 | 497.0 | 478.3 | 471.6 | 477.2 | 494.8 | 497.0 |
| 52.5° | 6003.5 | 3772.0 | 708.6 | 569.7 | 532.2 | 487.1 | 462.8 | 452.9 | 458.4 | 472.7 | 477.2 |
| 55° | 6744.0 | 4303.2 | 791.2 | 574.1 | 521.2 | 481.6 | 451.8 | 429.8 | 436.4 | 446.3 | 447.4 |
| 57.5° | 7500.0 | 4973.2 | 936.7 | 575.2 | 512.4 | 471.6 | 433.1 | 404.4 | 404.4 | 411.0 | 414.3 |
| 60° | 8423.4 | 5702.7 | 1128.4 | 576.3 | 513.5 | 457.3 | 407.7 | 375.8 | 371.4 | 374.7 | 375.8 |
| 62.5° | 9340.2 | 6313.2 | 1160.4 | 573.0 | 524.5 | 443.0 | 380.2 | 347.1 | 339.4 | 338.3 | 336.1 |
| 65° | 9744.7 | 6199.6 | 951.0 | 557.6 | 536.7 | 434.2 | 358.1 | 319.6 | 306.3 | 301.9 | 301.9 |
| 67.5° | 9085.7 | 5244.2 | 715.2 | 536.7 | 528.9 | 425.4 | 337.2 | 296.4 | 281.0 | 272.2 | 272.2 |
| 69° | 8466.4 | 4664.6 | 642.4 | 522.3 | 509.1 | 411.0 | 324.0 | 284.3 | 265.6 | 255.7 | 252.3 |
| 70° | 7988.1 | 4265.7 | 611.6 | 510.2 | 490.4 | 394.5 | 314.1 | 275.5 | 254.6 | 243.5 | 241.3 |
| 72.5° | 6374.9 | 3346.7 | 535.6 | 463.9 | 417.6 | 331.7 | 278.8 | 247.9 | 228.1 | 216.0 | 212.7 |
| 75° | 3673.9 | 1813.8 | 444.1 | 403.3 | 336.1 | 257.9 | 235.8 | 216.0 | 200.6 | 189.5 | 186.2 |
| 77.5° | 1130.6 | 700.8 | 321.8 | 318.5 | 246.8 | 199.5 | 188.4 | 180.7 | 169.7 | 157.6 | 155.4 |
| 80° | 476.0 | 357.0 | 218.2 | 214.9 | 164.2 | 138.8 | 135.5 | 134.4 | 130.0 | 120.1 | 116.8 |
| 82.5° | 261.2 | 201.7 | 152.1 | 132.2 | 99.2 | 80.4 | 83.7 | 84.9 | 81.5 | 71.6 | 65.0 |
| 85° | 127.8 | 110.2 | 73.8 | 59.5 | 45.2 | 28.7 | 27.5 | 33.1 | 30.9 | 22.0 | 24.2 |
| 87.5° | 25.3 | 30.9 | 19.8 | 8.8 | 4.4 | 0.0 | 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)