

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: P453996

Luminaire Tested: **GALN-SA5A-750-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22860 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

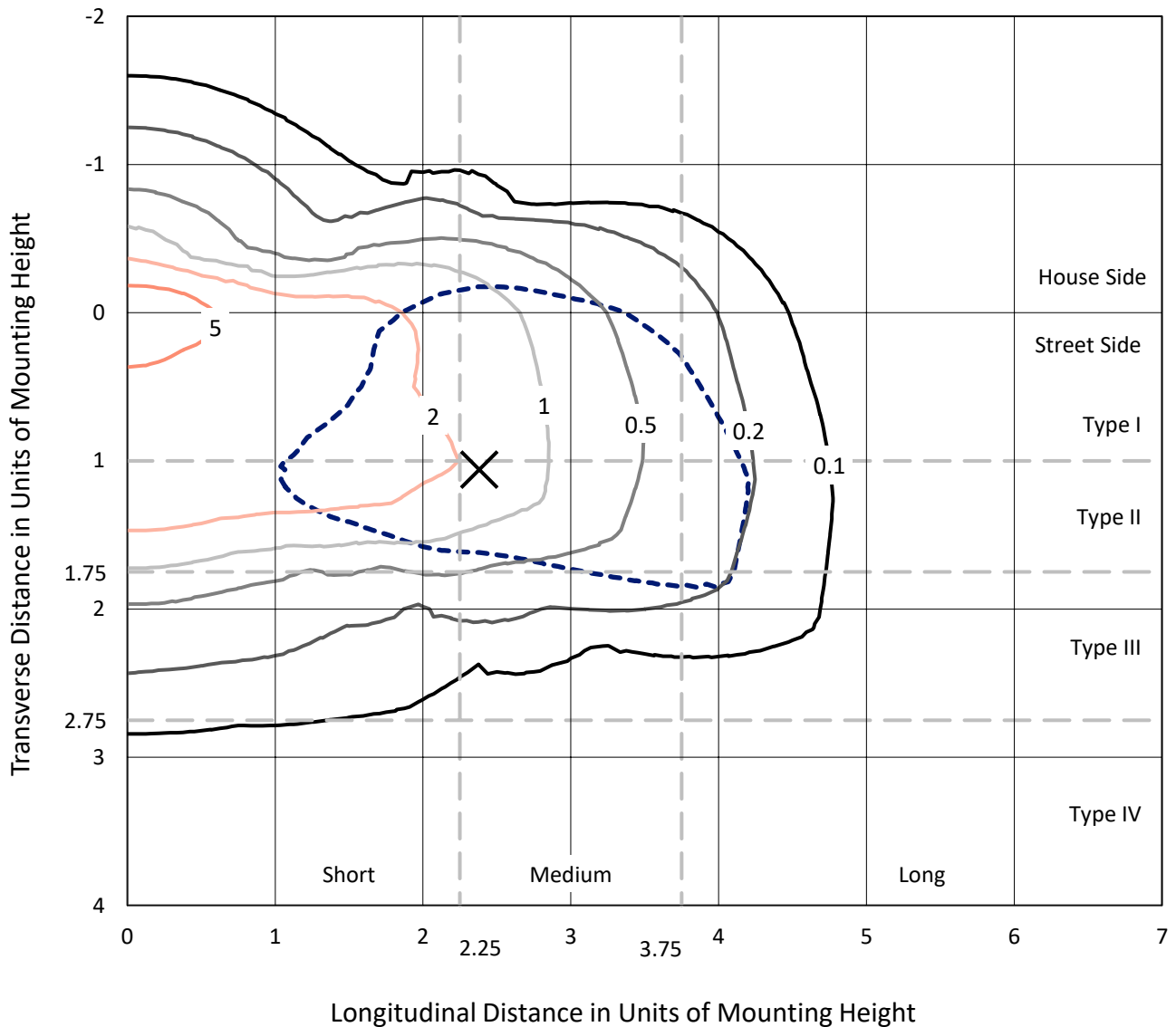
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

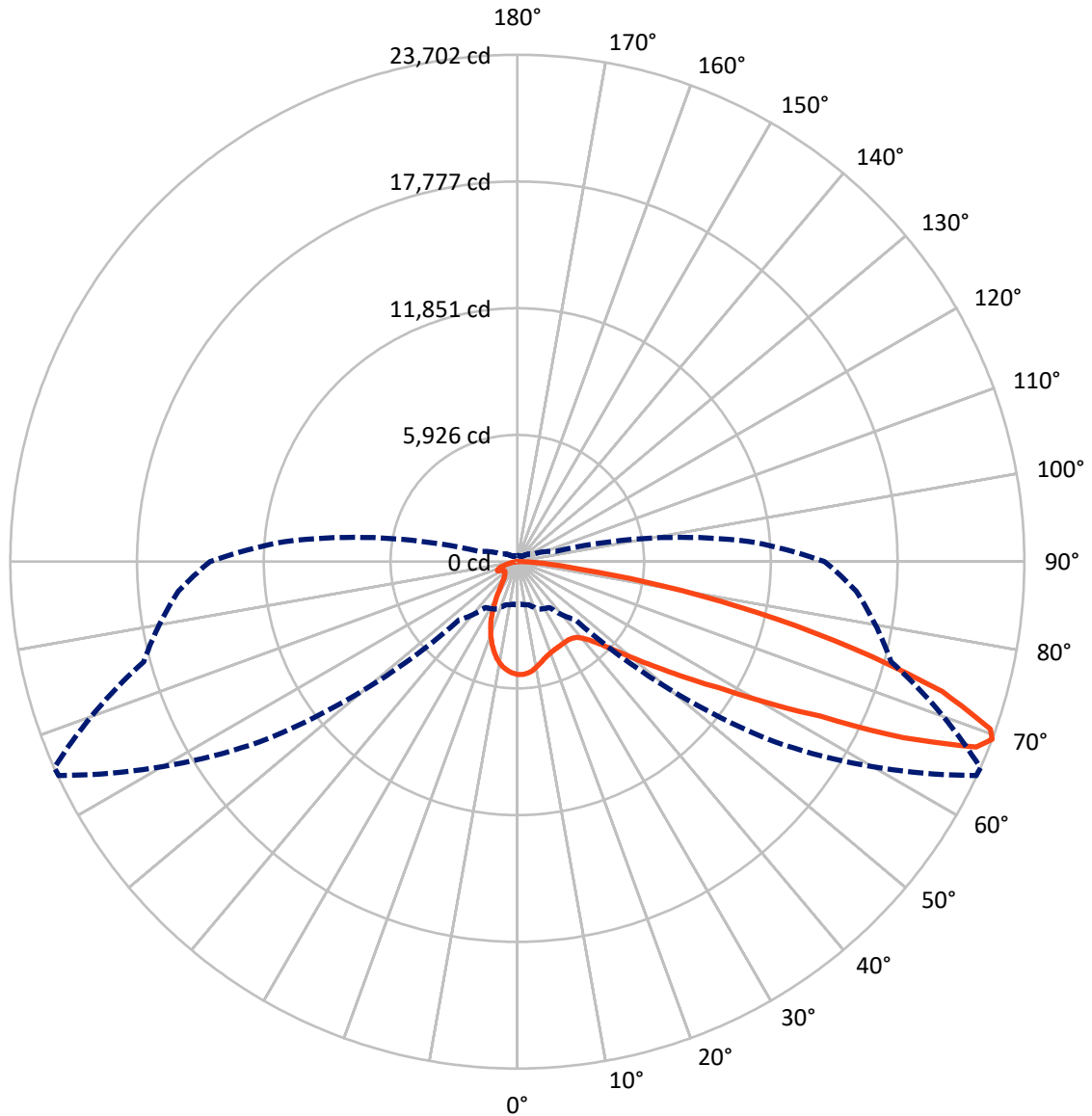
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4299.1 | 0.0 | 4299.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 18560.9 | 0.0 | 18560.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 22860.0 | 0.0 | 22860.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 458.4 | 2.0 |
| 10°-20° | 1087.3 | 4.8 |
| 20°-30° | 1480.3 | 6.5 |
| 30°-40° | 1989.2 | 8.7 |
| 40°-50° | 2970.2 | 13.0 |
| 50°-60° | 4724.5 | 20.7 |
| 60°-70° | 5810.9 | 25.4 |
| 70°-80° | 3780.8 | 16.5 |
| 80°-90° | 558.3 | 2.4 |
| 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° | 22860.0 | 100.0 |
| 0°-180° | 22860.0 | 100.0 |

Coefficient of Utilization



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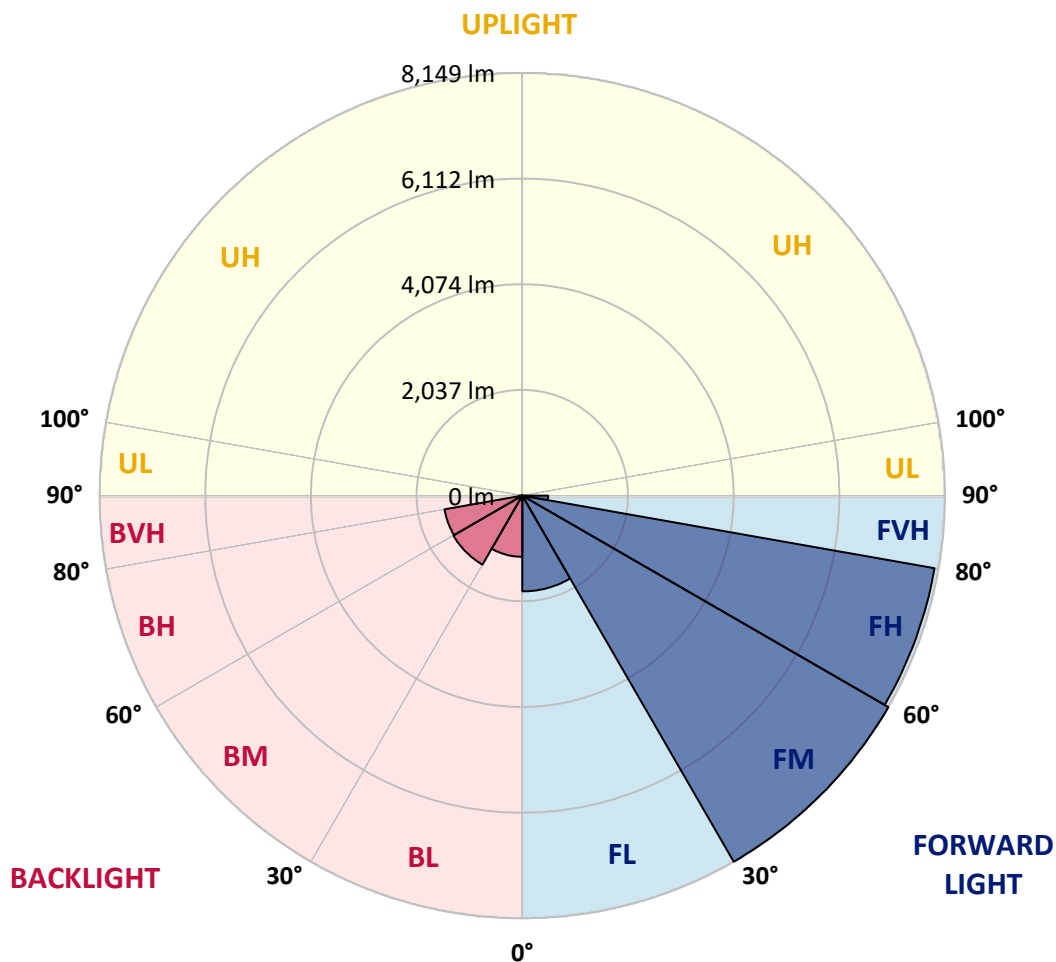
CATALOG NUMBER: GALN-SA5A-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1845.9 | 8.1 | | | |
| FM | (30°-60°) | 8148.9 | 35.6 | | | |
| FH | (60°-80°) | 8069.7 | 35.3 | | | G4/12000 |
| FVH | (80°-90°) | 496.4 | 2.2 | | | G3/500 |
| BL | (0°-30°) | 1180.1 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 1535.0 | 6.7 | B2/2500 | | |
| BH | (60°-80°) | 1522.1 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 61.9 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 |
| 2.5° | 5094.2 | 5114.4 | 5137.2 | 5162.5 | 5210.6 | 5237.2 | 5256.2 | 5277.7 | 5280.3 | 5291.7 | 5282.8 |
| 5° | 4718.2 | 4742.2 | 4776.4 | 4824.5 | 4896.7 | 5009.4 | 5125.8 | 5220.8 | 5232.2 | 5285.3 | 5300.5 |
| 7.5° | 4404.2 | 4418.2 | 4446.0 | 4523.2 | 4625.8 | 4751.1 | 4920.7 | 5113.2 | 5141.0 | 5267.6 | 5311.9 |
| 10° | 4148.5 | 4162.4 | 4195.4 | 4275.1 | 4376.4 | 4533.4 | 4719.5 | 4972.6 | 4995.4 | 5213.2 | 5314.5 |
| 12.5° | 3957.4 | 3970.0 | 4005.5 | 4084.0 | 4200.4 | 4347.3 | 4552.4 | 4820.7 | 4853.7 | 5141.0 | 5290.4 |
| 15° | 3811.8 | 3835.8 | 3864.9 | 3929.5 | 4052.3 | 4194.1 | 4392.8 | 4681.5 | 4708.1 | 5065.1 | 5273.9 |
| 17.5° | 3749.7 | 3761.1 | 3781.4 | 3840.9 | 3930.8 | 4070.0 | 4270.0 | 4572.6 | 4604.3 | 5011.9 | 5270.1 |
| 20° | 3752.3 | 3763.7 | 3767.5 | 3800.4 | 3864.9 | 3985.2 | 4182.7 | 4486.5 | 4524.5 | 4965.1 | 5276.5 |
| 22.5° | 3838.4 | 3839.6 | 3825.7 | 3814.3 | 3839.6 | 3939.6 | 4120.7 | 4422.0 | 4466.3 | 4944.8 | 5281.5 |
| 25° | 3971.3 | 3994.1 | 3973.8 | 3920.6 | 3873.8 | 3921.9 | 4096.6 | 4386.5 | 4428.3 | 4915.7 | 5275.2 |
| 27.5° | 4186.5 | 4190.3 | 4173.8 | 4101.7 | 3980.1 | 3944.7 | 4086.5 | 4359.9 | 4395.4 | 4894.2 | 5243.6 |
| 30° | 4475.1 | 4463.7 | 4448.5 | 4368.8 | 4177.6 | 4032.0 | 4108.0 | 4335.9 | 4372.6 | 4862.5 | 5205.6 |
| 32.5° | 4767.6 | 4803.0 | 4789.1 | 4695.4 | 4447.3 | 4201.7 | 4177.6 | 4333.3 | 4363.7 | 4838.5 | 5163.8 |
| 35° | 5077.7 | 5094.2 | 5160.0 | 5111.9 | 4857.4 | 4476.4 | 4308.0 | 4372.6 | 4396.6 | 4839.7 | 5134.7 |
| 37.5° | 5320.8 | 5365.1 | 5519.5 | 5561.3 | 5322.1 | 4839.7 | 4519.4 | 4484.0 | 4494.1 | 4901.8 | 5146.1 |
| 40° | 5614.5 | 5690.4 | 5889.2 | 6060.1 | 5903.1 | 5311.9 | 4879.0 | 4690.3 | 4703.0 | 5051.1 | 5220.8 |
| 42.5° | 5986.7 | 6039.8 | 6307.0 | 6538.6 | 6513.3 | 5936.0 | 5314.5 | 5028.4 | 5034.7 | 5348.6 | 5429.7 |
| 45° | 6422.2 | 6498.1 | 6798.1 | 7146.3 | 7205.8 | 6642.4 | 5943.6 | 5539.8 | 5536.0 | 5810.7 | 5819.6 |
| 47.5° | 6979.2 | 7026.0 | 7323.5 | 7703.3 | 7943.8 | 7529.9 | 6707.0 | 6274.0 | 6233.5 | 6484.2 | 6412.0 |
| 50° | 7491.9 | 7565.3 | 7790.7 | 8205.9 | 8804.7 | 8569.2 | 7710.9 | 7226.0 | 7131.1 | 7365.3 | 7243.8 |
| 52.5° | 7707.1 | 7784.3 | 7974.2 | 8489.5 | 9542.7 | 9913.7 | 8985.7 | 8361.6 | 8203.4 | 8383.1 | 8338.8 |
| 55° | 7333.6 | 7433.7 | 7610.9 | 8237.5 | 9866.8 | 11464.4 | 10704.9 | 9674.4 | 9559.2 | 9482.0 | 9494.6 |
| 57.5° | 6329.7 | 6424.7 | 6664.0 | 7355.2 | 9479.4 | 12589.9 | 13159.5 | 11361.9 | 11115.0 | 10759.3 | 10820.1 |
| 60° | 4818.2 | 4877.7 | 5001.8 | 5767.7 | 8331.2 | 12882.3 | 15947.2 | 13495.0 | 13338.0 | 12031.6 | 12074.6 |
| 62.5° | 3421.9 | 3489.0 | 3575.0 | 3957.4 | 6099.3 | 12058.2 | 18129.7 | 16473.8 | 15913.0 | 13349.4 | 13307.7 |
| 65° | 2778.8 | 2733.2 | 2837.0 | 3015.5 | 3578.8 | 9345.2 | 18620.9 | 20608.4 | 19836.2 | 15085.1 | 14505.2 |
| 67.5° | 2285.0 | 2236.9 | 2339.5 | 2657.2 | 2721.8 | 5424.6 | 16851.1 | 23292.2 | 23137.8 | 16972.6 | 15721.8 |
| 69° | 2023.0 | 1997.7 | 2087.6 | 2449.6 | 2612.9 | 3852.3 | 14679.9 | 23665.7 | 23702.4 | 18085.4 | 15909.2 |
| 70° | 1823.0 | 1833.1 | 1920.4 | 2344.5 | 2563.5 | 3176.3 | 12546.8 | 23150.4 | 23461.8 | 18641.1 | 15706.6 |
| 72.5° | 1341.9 | 1363.4 | 1485.0 | 1942.0 | 2516.7 | 2695.2 | 7466.6 | 20221.0 | 20771.7 | 18674.0 | 14368.5 |
| 75° | 938.1 | 927.9 | 1035.5 | 1462.2 | 2377.5 | 2671.2 | 4385.2 | 15638.3 | 16262.4 | 16140.9 | 12073.4 |
| 77.5° | 614.0 | 630.4 | 716.5 | 1033.0 | 2000.2 | 2650.9 | 2858.5 | 11094.8 | 11499.9 | 10794.8 | 7141.2 |
| 80° | 433.0 | 431.7 | 479.8 | 705.1 | 1483.7 | 2547.1 | 2340.7 | 6993.1 | 6890.6 | 4242.2 | 2117.9 |
| 82.5° | 248.1 | 265.8 | 321.6 | 496.3 | 992.5 | 2242.0 | 2153.4 | 3344.6 | 3053.5 | 1209.0 | 715.3 |
| 85° | 138.0 | 144.3 | 191.2 | 300.0 | 579.8 | 1688.8 | 1879.9 | 1521.7 | 1435.6 | 505.1 | 307.6 |
| 87.5° | 44.3 | 48.1 | 79.8 | 151.9 | 263.3 | 797.5 | 1064.7 | 702.6 | 648.2 | 182.3 | 124.1 |
| 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° | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 |
| 2.5° | 5286.6 | 5301.8 | 5261.3 | 5222.0 | 5186.6 | 5137.2 | 5092.9 | 5056.2 | 5030.9 | 5027.1 | 5014.4 |
| 5° | 5304.3 | 5305.6 | 5228.4 | 5124.6 | 5023.3 | 4911.9 | 4796.7 | 4714.4 | 4637.2 | 4594.1 | 4572.6 |
| 7.5° | 5317.0 | 5305.6 | 5166.3 | 4998.0 | 4803.0 | 4600.5 | 4397.9 | 4235.9 | 4110.5 | 4061.2 | 4080.2 |
| 10° | 5311.9 | 5276.5 | 5072.7 | 4803.0 | 4519.4 | 4216.9 | 3925.7 | 3697.8 | 3489.0 | 3381.4 | 3383.9 |
| 12.5° | 5284.1 | 5225.8 | 4933.4 | 4584.0 | 4167.5 | 3762.4 | 3316.8 | 3009.2 | 2767.4 | 2624.3 | 2580.0 |
| 15° | 5260.0 | 5158.7 | 4770.1 | 4286.5 | 3768.7 | 3190.2 | 2647.1 | 2267.3 | 2064.8 | 1952.1 | 1950.8 |
| 17.5° | 5234.7 | 5094.2 | 4591.6 | 3971.3 | 3310.5 | 2566.1 | 1996.4 | 1706.5 | 1611.6 | 1622.9 | 1604.0 |
| 20° | 5208.1 | 5018.2 | 4405.5 | 3620.6 | 2752.2 | 1914.1 | 1495.1 | 1377.4 | 1403.9 | 1455.8 | 1463.4 |
| 22.5° | 5177.7 | 4937.2 | 4205.5 | 3234.5 | 2164.8 | 1440.7 | 1212.8 | 1195.1 | 1263.4 | 1344.4 | 1355.8 |
| 25° | 5130.9 | 4835.9 | 3953.6 | 2830.7 | 1669.8 | 1160.9 | 1062.1 | 1074.8 | 1141.9 | 1210.2 | 1217.8 |
| 27.5° | 5065.1 | 4710.6 | 3699.1 | 2326.8 | 1254.6 | 996.3 | 971.0 | 987.4 | 1020.4 | 1062.1 | 1072.3 |
| 30° | 4976.4 | 4568.8 | 3406.7 | 1891.3 | 1005.2 | 914.0 | 903.9 | 912.7 | 931.7 | 949.5 | 954.5 |
| 32.5° | 4887.8 | 4432.1 | 3111.7 | 1448.2 | 896.3 | 859.6 | 849.5 | 849.5 | 849.5 | 852.0 | 853.2 |
| 35° | 4805.5 | 4303.0 | 2795.2 | 1128.0 | 839.3 | 816.5 | 802.6 | 787.4 | 784.9 | 776.0 | 776.0 |
| 37.5° | 4760.0 | 4185.2 | 2458.5 | 944.4 | 797.5 | 781.1 | 762.1 | 736.8 | 722.9 | 724.1 | 721.6 |
| 40° | 4768.8 | 4108.0 | 2152.1 | 840.6 | 763.4 | 745.6 | 716.5 | 687.4 | 678.5 | 678.5 | 676.0 |
| 42.5° | 4868.8 | 4082.7 | 1858.4 | 786.2 | 730.5 | 710.2 | 673.5 | 646.9 | 641.8 | 640.6 | 643.1 |
| 45° | 5099.2 | 4144.7 | 1595.1 | 750.7 | 702.6 | 672.2 | 635.5 | 611.5 | 606.4 | 606.4 | 605.1 |
| 47.5° | 5548.7 | 4346.0 | 1406.5 | 727.9 | 682.3 | 643.1 | 605.1 | 581.1 | 572.2 | 569.7 | 569.7 |
| 50° | 6247.5 | 4782.8 | 1265.9 | 707.7 | 657.0 | 616.5 | 577.3 | 549.4 | 535.5 | 534.2 | 533.0 |
| 52.5° | 7218.4 | 5463.8 | 1211.5 | 692.5 | 629.2 | 588.7 | 545.6 | 519.0 | 501.3 | 497.5 | 495.0 |
| 55° | 8354.0 | 6414.6 | 1286.2 | 681.1 | 600.1 | 557.0 | 512.7 | 484.9 | 468.4 | 460.8 | 459.5 |
| 57.5° | 9669.3 | 7556.5 | 1569.8 | 665.9 | 573.5 | 522.8 | 479.8 | 451.9 | 434.2 | 425.4 | 422.8 |
| 60° | 10850.5 | 8730.0 | 2064.8 | 657.0 | 550.7 | 486.1 | 441.8 | 416.5 | 400.0 | 391.2 | 389.9 |
| 62.5° | 12148.1 | 9849.1 | 2656.0 | 681.1 | 540.6 | 450.7 | 406.4 | 383.6 | 369.7 | 360.8 | 360.8 |
| 65° | 13534.3 | 10969.5 | 3047.1 | 762.1 | 555.8 | 422.8 | 368.4 | 349.4 | 336.7 | 330.4 | 329.1 |
| 67.5° | 14468.5 | 11356.8 | 2510.4 | 845.7 | 593.7 | 392.4 | 331.7 | 316.5 | 308.9 | 302.6 | 302.6 |
| 69° | 14367.3 | 10866.9 | 1852.1 | 867.2 | 605.1 | 377.3 | 311.4 | 300.0 | 289.9 | 287.4 | 284.8 |
| 70° | 14047.0 | 10308.6 | 1552.1 | 853.2 | 596.3 | 363.3 | 298.8 | 284.8 | 276.0 | 273.4 | 272.2 |
| 72.5° | 12511.4 | 8940.1 | 1155.8 | 741.8 | 507.6 | 315.2 | 264.6 | 251.9 | 244.3 | 240.5 | 240.5 |
| 75° | 10394.7 | 7307.1 | 902.6 | 589.9 | 397.5 | 265.8 | 226.6 | 216.5 | 210.1 | 207.6 | 206.3 |
| 77.5° | 5825.9 | 4080.2 | 648.2 | 462.1 | 301.3 | 215.2 | 189.9 | 181.0 | 174.7 | 172.2 | 172.2 |
| 80° | 1622.9 | 1165.9 | 381.1 | 305.1 | 205.1 | 163.3 | 150.6 | 144.3 | 135.5 | 129.1 | 132.9 |
| 82.5° | 611.5 | 505.1 | 217.7 | 183.6 | 130.4 | 108.9 | 105.1 | 100.0 | 96.2 | 87.4 | 87.4 |
| 85° | 297.5 | 245.6 | 139.3 | 97.5 | 72.2 | 57.0 | 54.4 | 51.9 | 49.4 | 43.0 | 44.3 |
| 87.5° | 102.5 | 108.9 | 60.8 | 35.4 | 21.5 | 13.9 | 11.4 | 6.3 | 6.3 | 6.3 | 6.3 |
| 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)