

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: P454027

Luminaire Tested: **GALN-SA5A-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454027
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-SA5A-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 22699 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

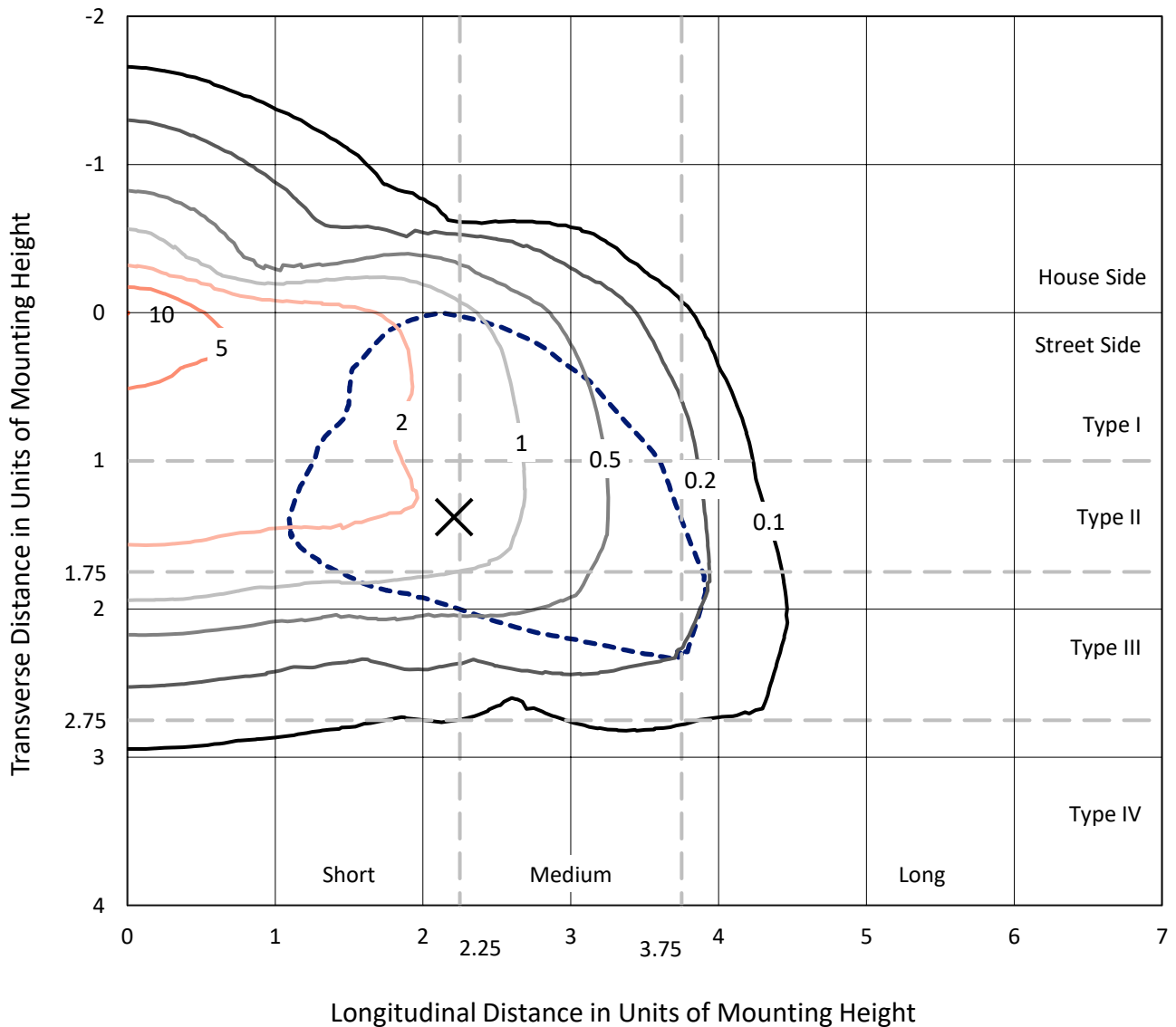
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

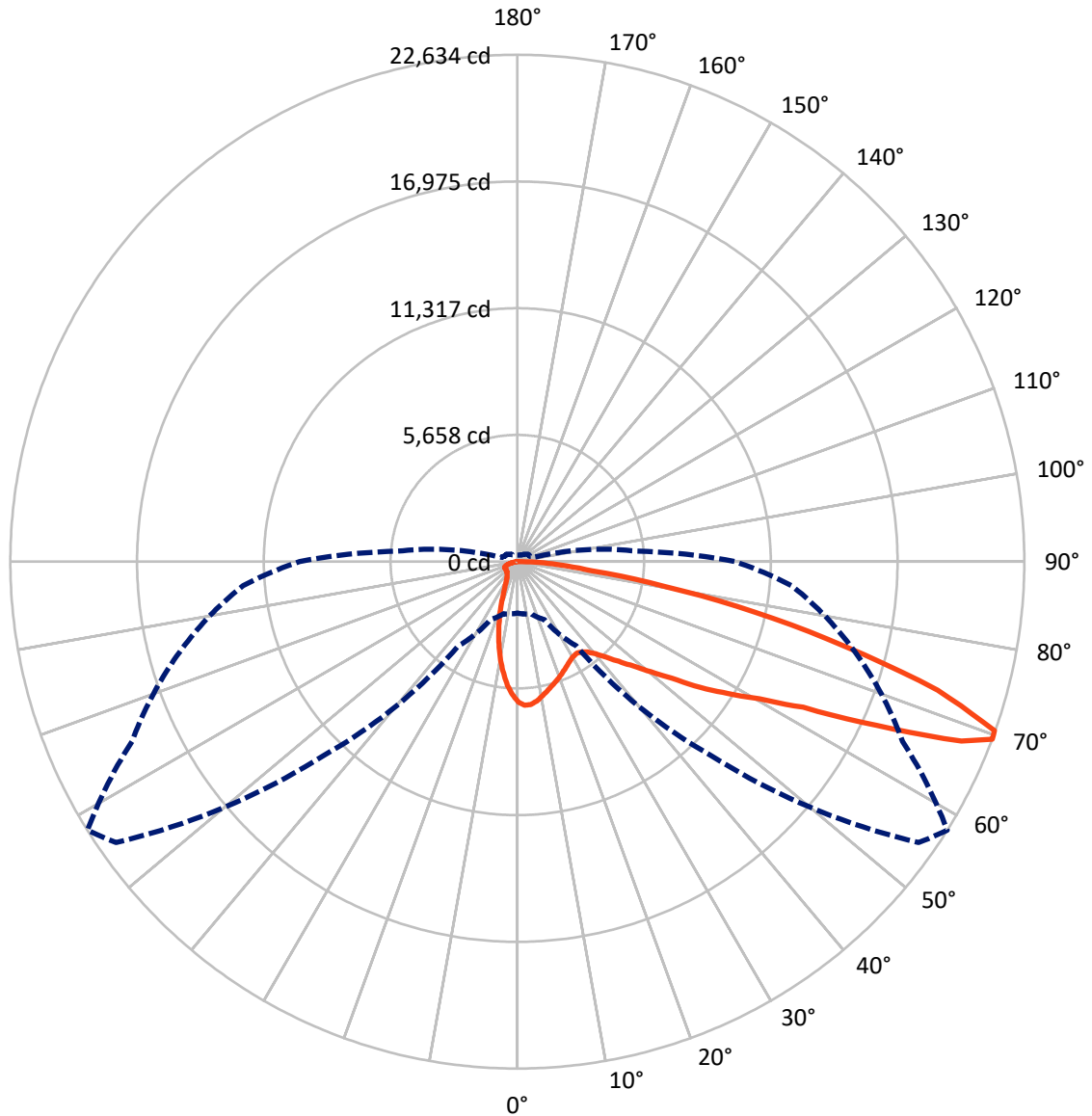
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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 | 3326.5 | 0.0 | 3326.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 19372.5 | 0.0 | 19372.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 22699.0 | 0.0 | 22699.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 532.7 | 2.3 |
| 10°-20° | 1169.7 | 5.2 |
| 20°-30° | 1511.3 | 6.7 |
| 30°-40° | 1962.9 | 8.6 |
| 40°-50° | 2853.7 | 12.6 |
| 50°-60° | 4553.6 | 20.1 |
| 60°-70° | 6083.1 | 26.8 |
| 70°-80° | 3506.7 | 15.4 |
| 80°-90° | 525.2 | 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° | 22699.0 | 100.0 |
| 0°-180° | 22699.0 | 100.0 |

Coefficient of Utilization



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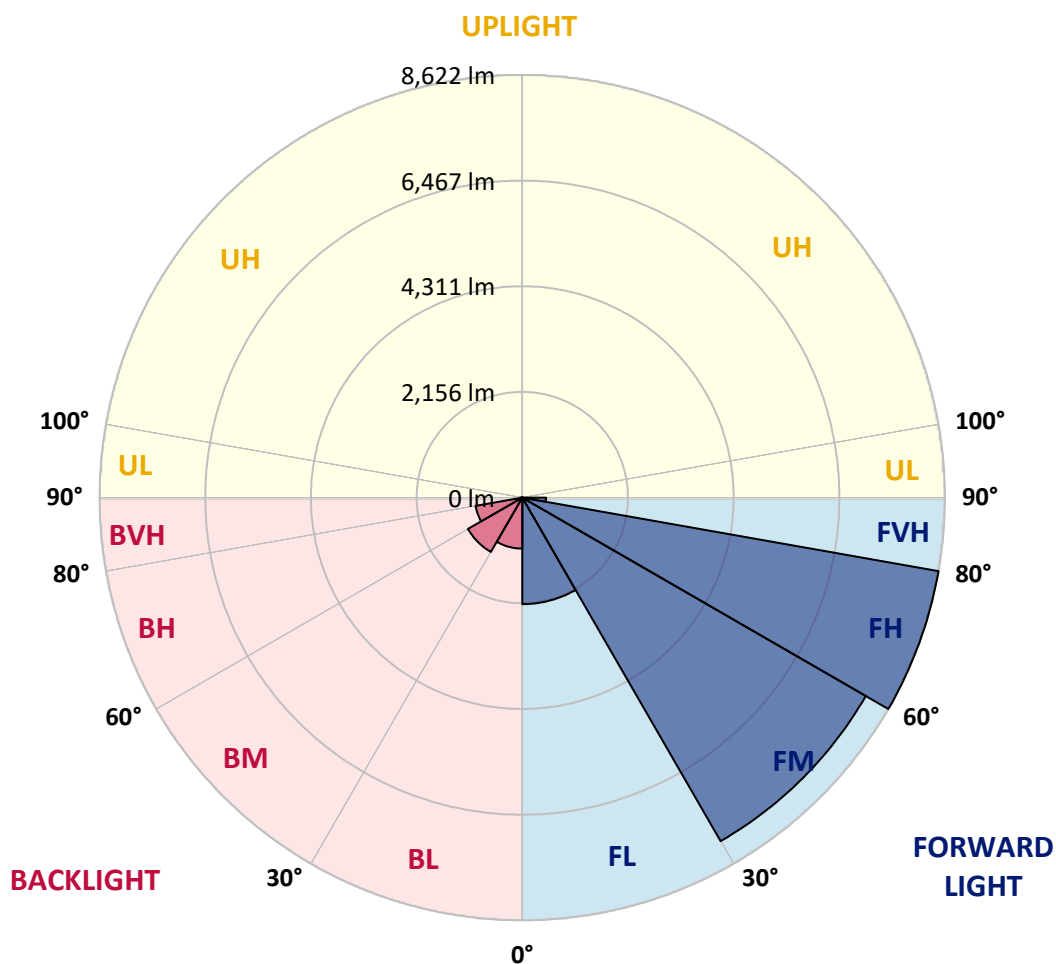
CATALOG NUMBER: GALN-SA5A-760-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2174.0 | 9.6 | | | |
| FM | (30°-60°) | 8091.0 | 35.6 | | | |
| FH | (60°-80°) | 8622.5 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 485.0 | 2.1 | | | G3/500 |
| BL | (0°-30°) | 1039.7 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1279.3 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 967.3 | 4.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 40.2 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 |
| 2.5° | 6505.6 | 6523.3 | 6518.3 | 6511.9 | 6501.8 | 6474.0 | 6428.4 | 6420.8 | 6391.7 | 6329.6 | 6252.4 |
| 5° | 6405.6 | 6420.8 | 6422.1 | 6430.9 | 6443.6 | 6438.5 | 6405.6 | 6401.8 | 6358.8 | 6275.2 | 6146.1 |
| 7.5° | 6062.5 | 6082.8 | 6127.1 | 6176.5 | 6220.8 | 6262.5 | 6272.7 | 6279.0 | 6252.4 | 6156.2 | 5984.0 |
| 10° | 5676.4 | 5696.7 | 5716.9 | 5790.4 | 5899.2 | 6003.0 | 6089.1 | 6100.5 | 6106.8 | 6018.2 | 5808.1 |
| 12.5° | 5248.5 | 5290.3 | 5333.4 | 5442.2 | 5587.8 | 5751.1 | 5903.0 | 5927.1 | 5970.1 | 5903.0 | 5656.2 |
| 15° | 4885.2 | 4928.3 | 4990.3 | 5087.8 | 5263.7 | 5499.2 | 5713.1 | 5752.4 | 5837.2 | 5803.0 | 5514.4 |
| 17.5° | 4633.3 | 4648.5 | 4691.5 | 4802.9 | 4992.8 | 5240.9 | 5527.0 | 5605.5 | 5741.0 | 5732.1 | 5392.9 |
| 20° | 4434.5 | 4453.5 | 4480.1 | 4548.5 | 4746.0 | 5008.0 | 5353.6 | 5454.9 | 5638.4 | 5668.8 | 5272.6 |
| 22.5° | 4351.0 | 4364.9 | 4361.1 | 4397.8 | 4532.0 | 4795.3 | 5177.6 | 5297.9 | 5547.3 | 5625.8 | 5161.2 |
| 25° | 4356.1 | 4368.7 | 4349.7 | 4340.9 | 4420.6 | 4608.0 | 4994.1 | 5147.3 | 5473.9 | 5596.7 | 5059.9 |
| 27.5° | 4440.9 | 4449.7 | 4414.3 | 4378.8 | 4385.2 | 4491.5 | 4842.2 | 5011.8 | 5411.8 | 5609.3 | 4975.1 |
| 30° | 4554.8 | 4571.3 | 4548.5 | 4505.4 | 4458.6 | 4463.7 | 4744.7 | 4911.8 | 5382.7 | 5653.6 | 4934.6 |
| 32.5° | 4701.7 | 4716.8 | 4706.7 | 4672.5 | 4611.8 | 4544.7 | 4720.6 | 4875.1 | 5385.3 | 5743.5 | 4925.7 |
| 35° | 4856.1 | 4886.5 | 4902.9 | 4900.4 | 4851.0 | 4734.6 | 4815.6 | 4943.4 | 5446.0 | 5894.2 | 4977.6 |
| 37.5° | 5030.8 | 5056.1 | 5127.0 | 5172.6 | 5127.0 | 4991.6 | 5029.5 | 5118.1 | 5580.2 | 6111.9 | 5091.6 |
| 40° | 5200.4 | 5238.4 | 5342.2 | 5484.0 | 5466.3 | 5347.3 | 5356.1 | 5414.4 | 5816.9 | 6436.0 | 5314.4 |
| 42.5° | 5377.7 | 5423.2 | 5604.3 | 5814.4 | 5856.2 | 5763.8 | 5787.8 | 5839.7 | 6153.7 | 6885.4 | 5696.7 |
| 45° | 5605.5 | 5660.0 | 5882.8 | 6144.8 | 6309.4 | 6252.4 | 6320.8 | 6346.1 | 6604.3 | 7470.2 | 6200.5 |
| 47.5° | 5899.2 | 5962.5 | 6237.2 | 6563.8 | 6796.8 | 6848.7 | 6967.7 | 6952.5 | 7162.6 | 8162.7 | 6853.7 |
| 50° | 6394.2 | 6429.6 | 6689.2 | 7022.1 | 7342.4 | 7576.6 | 7705.7 | 7729.8 | 7855.1 | 8836.2 | 7584.2 |
| 52.5° | 6982.9 | 7014.5 | 7201.9 | 7493.0 | 7894.3 | 8390.6 | 8709.6 | 8631.1 | 8661.5 | 9656.5 | 8438.7 |
| 55° | 7644.9 | 7698.1 | 7817.1 | 8010.8 | 8531.1 | 9261.5 | 9902.1 | 9921.1 | 9584.3 | 10441.4 | 9257.7 |
| 57.5° | 8157.6 | 8247.5 | 8451.3 | 8727.3 | 9386.9 | 10230.0 | 11090.8 | 11103.5 | 10673.0 | 11279.4 | 10161.6 |
| 60° | 7899.4 | 8005.7 | 8471.6 | 9143.8 | 10509.7 | 11920.0 | 12511.2 | 12439.0 | 11732.6 | 12233.9 | 11264.2 |
| 62.5° | 6785.4 | 6804.4 | 7481.6 | 8532.4 | 10855.3 | 14180.9 | 14625.3 | 14320.2 | 13146.7 | 13444.2 | 12384.6 |
| 65° | 4391.5 | 4515.6 | 5052.3 | 6524.6 | 9719.8 | 15435.5 | 18329.4 | 17624.3 | 15129.1 | 14817.7 | 13322.6 |
| 67.5° | 2772.4 | 2740.7 | 2963.5 | 3725.6 | 6685.4 | 14330.3 | 21490.4 | 21379.0 | 17721.7 | 15684.9 | 13098.6 |
| 69° | 2298.9 | 2334.4 | 2410.3 | 2855.9 | 4600.4 | 12235.2 | 21863.8 | 22633.5 | 18978.8 | 15616.5 | 12284.6 |
| 70° | 2085.0 | 2101.4 | 2181.2 | 2531.9 | 3549.7 | 10247.7 | 21251.1 | 22599.4 | 19472.5 | 15330.4 | 11694.6 |
| 72.5° | 1654.6 | 1653.3 | 1790.0 | 2106.5 | 2653.4 | 5849.9 | 17449.6 | 19620.6 | 18920.6 | 13998.6 | 9662.8 |
| 75° | 1257.1 | 1277.3 | 1428.0 | 1782.4 | 2444.5 | 3196.5 | 12177.0 | 15110.1 | 15111.4 | 11056.6 | 6029.6 |
| 77.5° | 906.4 | 919.1 | 1095.0 | 1496.3 | 2302.7 | 2591.4 | 8110.8 | 10837.6 | 10188.2 | 5066.2 | 1895.1 |
| 80° | 593.7 | 601.3 | 735.5 | 1184.9 | 2076.1 | 2444.5 | 4809.3 | 6633.5 | 4805.5 | 1344.4 | 626.6 |
| 82.5° | 325.3 | 363.3 | 449.4 | 767.2 | 1666.0 | 2258.4 | 2923.0 | 3357.2 | 1802.7 | 598.8 | 326.6 |
| 85° | 163.3 | 173.4 | 253.2 | 448.1 | 1088.7 | 1868.5 | 2035.6 | 1925.5 | 930.5 | 297.5 | 169.6 |
| 87.5° | 48.1 | 60.8 | 105.1 | 173.4 | 441.8 | 973.5 | 1133.0 | 1016.5 | 358.3 | 107.6 | 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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CATALOG NUMBER: GALN-SA5A-760-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 |
| 2.5° | 6220.8 | 6198.0 | 6096.7 | 6005.6 | 5922.0 | 5833.4 | 5758.7 | 5692.9 | 5699.2 | 5700.5 | 5633.4 |
| 5° | 6079.0 | 6027.1 | 5834.7 | 5654.9 | 5503.0 | 5310.6 | 5146.0 | 5039.7 | 4986.5 | 4915.6 | 4940.9 |
| 7.5° | 5886.6 | 5786.6 | 5519.4 | 5220.7 | 4940.9 | 4691.5 | 4420.6 | 4234.5 | 4115.5 | 4000.3 | 4015.5 |
| 10° | 5687.8 | 5527.0 | 5138.4 | 4743.4 | 4381.4 | 3982.6 | 3637.0 | 3340.8 | 3120.5 | 3038.2 | 2983.8 |
| 12.5° | 5484.0 | 5272.6 | 4778.9 | 4253.5 | 3753.5 | 3276.2 | 2786.3 | 2468.6 | 2225.5 | 2096.4 | 2112.8 |
| 15° | 5297.9 | 5040.9 | 4404.2 | 3763.6 | 3114.2 | 2545.8 | 2057.1 | 1754.6 | 1584.9 | 1549.5 | 1569.8 |
| 17.5° | 5125.7 | 4789.0 | 4053.5 | 3287.6 | 2529.3 | 1909.0 | 1545.7 | 1374.8 | 1306.4 | 1287.4 | 1286.2 |
| 20° | 4948.5 | 4575.1 | 3659.8 | 2778.7 | 1971.1 | 1479.9 | 1268.5 | 1188.7 | 1176.0 | 1183.6 | 1184.9 |
| 22.5° | 4768.8 | 4310.5 | 3254.7 | 2273.6 | 1569.8 | 1210.2 | 1109.0 | 1087.4 | 1097.6 | 1115.3 | 1117.8 |
| 25° | 4602.9 | 4077.6 | 2864.8 | 1830.5 | 1253.3 | 1063.4 | 1014.0 | 1014.0 | 1036.8 | 1063.4 | 1064.6 |
| 27.5° | 4466.2 | 3852.2 | 2476.2 | 1453.3 | 1049.5 | 957.0 | 940.6 | 949.4 | 981.1 | 1001.3 | 1002.6 |
| 30° | 4353.5 | 3642.1 | 2109.0 | 1164.7 | 922.9 | 872.2 | 868.4 | 883.6 | 906.4 | 925.4 | 926.7 |
| 32.5° | 4268.7 | 3457.3 | 1766.0 | 978.6 | 835.5 | 807.7 | 806.4 | 817.8 | 830.4 | 835.5 | 840.6 |
| 35° | 4235.8 | 3304.1 | 1452.0 | 860.8 | 777.3 | 759.6 | 759.6 | 758.3 | 763.4 | 765.9 | 768.4 |
| 37.5° | 4262.4 | 3186.3 | 1209.0 | 784.9 | 734.2 | 721.6 | 714.0 | 706.4 | 703.9 | 703.9 | 705.1 |
| 40° | 4375.0 | 3124.3 | 1027.9 | 735.5 | 703.9 | 684.9 | 670.9 | 662.1 | 653.2 | 655.8 | 658.3 |
| 42.5° | 4614.3 | 3135.7 | 905.1 | 702.6 | 677.3 | 650.7 | 630.4 | 620.3 | 614.0 | 621.6 | 620.3 |
| 45° | 4995.4 | 3249.6 | 826.7 | 679.8 | 650.7 | 616.5 | 597.5 | 587.4 | 587.4 | 598.8 | 602.6 |
| 47.5° | 5528.3 | 3467.4 | 784.9 | 662.1 | 630.4 | 589.9 | 570.9 | 563.3 | 565.9 | 584.9 | 586.1 |
| 50° | 6179.0 | 3845.9 | 777.3 | 653.2 | 620.3 | 570.9 | 549.4 | 541.8 | 548.1 | 568.4 | 570.9 |
| 52.5° | 6896.8 | 4333.3 | 814.0 | 654.5 | 611.4 | 559.5 | 531.7 | 520.3 | 526.6 | 543.1 | 548.1 |
| 55° | 7747.5 | 4943.4 | 908.9 | 659.5 | 598.8 | 553.2 | 519.0 | 493.7 | 501.3 | 512.7 | 514.0 |
| 57.5° | 8615.9 | 5713.1 | 1076.0 | 660.8 | 588.7 | 541.8 | 497.5 | 464.6 | 464.6 | 472.2 | 476.0 |
| 60° | 9676.8 | 6551.2 | 1296.3 | 662.1 | 589.9 | 525.4 | 468.4 | 431.7 | 426.6 | 430.4 | 431.7 |
| 62.5° | 10730.0 | 7252.5 | 1333.0 | 658.3 | 602.6 | 508.9 | 436.7 | 398.8 | 389.9 | 388.6 | 386.1 |
| 65° | 11194.6 | 7122.1 | 1092.5 | 640.6 | 616.5 | 498.8 | 411.4 | 367.1 | 351.9 | 346.9 | 346.9 |
| 67.5° | 10437.6 | 6024.6 | 821.6 | 616.5 | 607.6 | 488.6 | 387.4 | 340.5 | 322.8 | 312.7 | 312.7 |
| 69° | 9726.1 | 5358.7 | 738.0 | 600.1 | 584.9 | 472.2 | 372.2 | 326.6 | 305.1 | 293.7 | 289.9 |
| 70° | 9176.7 | 4900.4 | 702.6 | 586.1 | 563.3 | 453.2 | 360.8 | 316.5 | 292.4 | 279.8 | 277.2 |
| 72.5° | 7323.4 | 3844.6 | 615.2 | 533.0 | 479.8 | 381.0 | 320.3 | 284.8 | 262.0 | 248.1 | 244.3 |
| 75° | 4220.6 | 2083.7 | 510.2 | 463.3 | 386.1 | 296.2 | 270.9 | 248.1 | 230.4 | 217.7 | 213.9 |
| 77.5° | 1298.8 | 805.1 | 369.7 | 365.9 | 283.6 | 229.1 | 216.5 | 207.6 | 195.0 | 181.0 | 178.5 |
| 80° | 546.9 | 410.2 | 250.7 | 246.9 | 188.6 | 159.5 | 155.7 | 154.4 | 149.4 | 138.0 | 134.2 |
| 82.5° | 300.0 | 231.7 | 174.7 | 151.9 | 113.9 | 92.4 | 96.2 | 97.5 | 93.7 | 82.3 | 74.7 |
| 85° | 146.8 | 126.6 | 84.8 | 68.4 | 51.9 | 32.9 | 31.6 | 38.0 | 35.4 | 25.3 | 27.9 |
| 87.5° | 29.1 | 35.4 | 22.8 | 10.1 | 5.1 | 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)