

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: P454837

Luminaire Tested: **GALN-SA6A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454837
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-SA6A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 22638 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

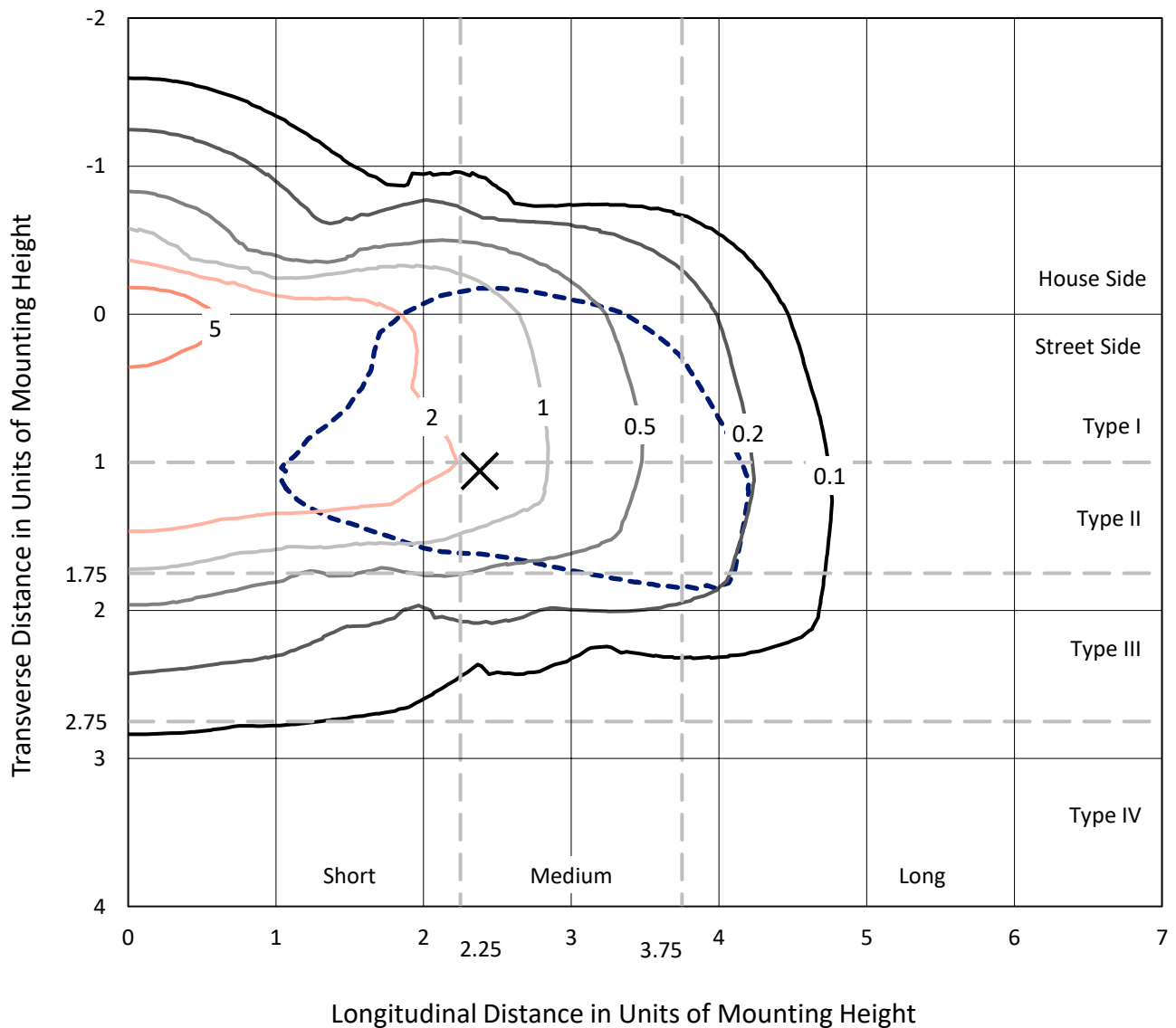
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454837
 CATALOG NUMBER: GALN-SA6A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

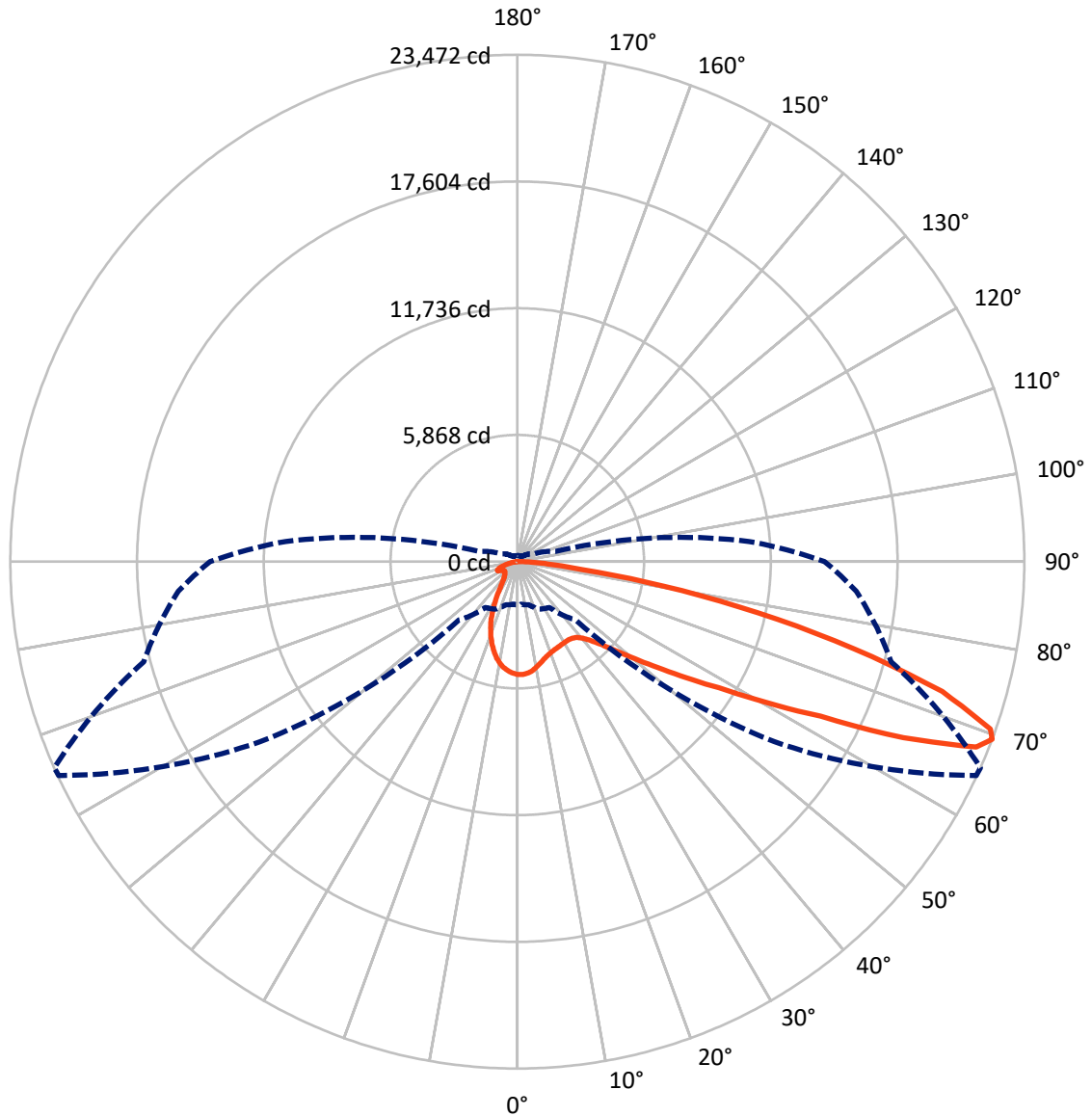
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P454837
CATALOG NUMBER: GALN-SA6A-727-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454837

CATALOG NUMBER: GALN-SA6A-727-U-SL2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4257.4 | 0.0 | 4257.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 18380.6 | 0.0 | 18380.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 22638.0 | 0.0 | 22638.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.0 | 2.0 |
| 10°-20° | 1076.8 | 4.8 |
| 20°-30° | 1465.9 | 6.5 |
| 30°-40° | 1969.9 | 8.7 |
| 40°-50° | 2941.3 | 13.0 |
| 50°-60° | 4678.6 | 20.7 |
| 60°-70° | 5754.5 | 25.4 |
| 70°-80° | 3744.1 | 16.5 |
| 80°-90° | 552.9 | 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° | 22638.0 | 100.0 |
| 0°-180° | 22638.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P454837

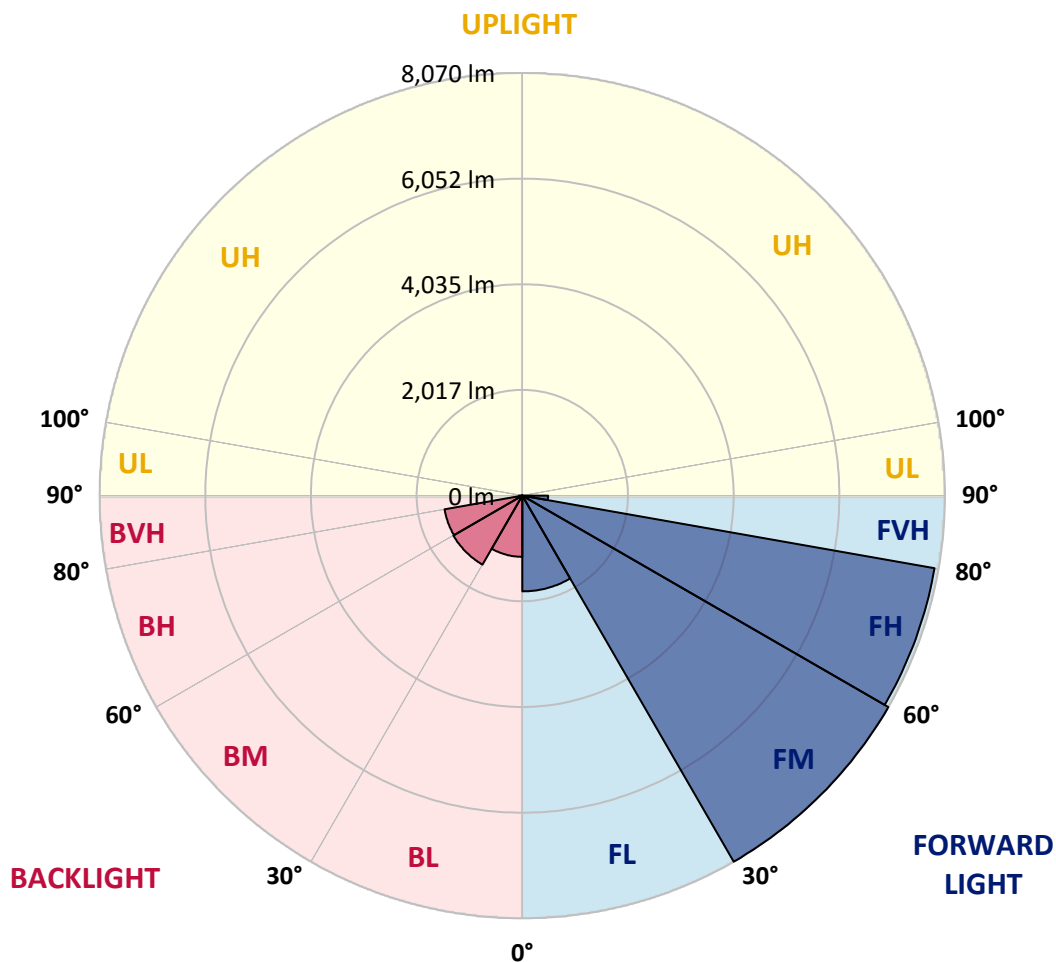
CATALOG NUMBER: GALN-SA6A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1828.0 | 8.1 | | | |
| FM | (30°-60°) | 8069.8 | 35.6 | | | |
| FH | (60°-80°) | 7991.3 | 35.3 | | | G4/12000 |
| FVH | (80°-90°) | 491.6 | 2.2 | | | G3/500 |
| BL | (0°-30°) | 1168.7 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 1520.1 | 6.7 | B2/2500 | | |
| BH | (60°-80°) | 1507.3 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 61.3 | 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





REPORT NUMBER: P454837

CATALOG NUMBER: GALN-SA6A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 |
| 2.5° | 5044.7 | 5064.8 | 5087.3 | 5112.4 | 5160.0 | 5186.4 | 5205.2 | 5226.5 | 5229.0 | 5240.3 | 5231.5 |
| 5° | 4672.4 | 4696.2 | 4730.0 | 4777.7 | 4849.1 | 4960.7 | 5076.1 | 5170.1 | 5181.4 | 5234.0 | 5249.1 |
| 7.5° | 4361.5 | 4375.3 | 4402.8 | 4479.3 | 4580.9 | 4705.0 | 4873.0 | 5063.5 | 5091.1 | 5216.5 | 5260.3 |
| 10° | 4108.2 | 4122.0 | 4154.6 | 4233.6 | 4333.9 | 4489.3 | 4673.6 | 4924.4 | 4946.9 | 5162.6 | 5262.8 |
| 12.5° | 3918.9 | 3931.5 | 3966.6 | 4044.3 | 4159.6 | 4305.1 | 4508.1 | 4773.9 | 4806.5 | 5091.1 | 5239.0 |
| 15° | 3774.8 | 3798.6 | 3827.4 | 3891.3 | 4013.0 | 4153.4 | 4350.2 | 4636.0 | 4662.3 | 5015.9 | 5222.7 |
| 17.5° | 3713.3 | 3724.6 | 3744.7 | 3803.6 | 3892.6 | 4030.5 | 4228.6 | 4528.2 | 4559.5 | 4963.2 | 5219.0 |
| 20° | 3715.8 | 3727.1 | 3730.9 | 3763.5 | 3827.4 | 3946.5 | 4142.1 | 4443.0 | 4480.6 | 4916.8 | 5225.2 |
| 22.5° | 3801.1 | 3802.3 | 3788.5 | 3777.3 | 3802.3 | 3901.4 | 4080.6 | 4379.0 | 4422.9 | 4896.8 | 5230.3 |
| 25° | 3932.7 | 3955.3 | 3935.2 | 3882.6 | 3836.2 | 3883.8 | 4056.8 | 4343.9 | 4385.3 | 4867.9 | 5224.0 |
| 27.5° | 4145.8 | 4149.6 | 4133.3 | 4061.8 | 3941.5 | 3906.4 | 4046.8 | 4317.6 | 4352.7 | 4846.6 | 5192.6 |
| 30° | 4431.7 | 4420.4 | 4405.3 | 4326.4 | 4137.1 | 3992.9 | 4068.1 | 4293.8 | 4330.1 | 4815.3 | 5155.0 |
| 32.5° | 4721.3 | 4756.4 | 4742.6 | 4649.8 | 4404.1 | 4160.9 | 4137.1 | 4291.3 | 4321.4 | 4791.5 | 5113.7 |
| 35° | 5028.4 | 5044.7 | 5109.9 | 5062.3 | 4810.3 | 4432.9 | 4266.2 | 4330.1 | 4353.9 | 4792.7 | 5084.8 |
| 37.5° | 5269.1 | 5313.0 | 5465.9 | 5507.3 | 5270.4 | 4792.7 | 4475.5 | 4440.4 | 4450.5 | 4854.2 | 5096.1 |
| 40° | 5560.0 | 5635.2 | 5832.0 | 6001.2 | 5845.8 | 5260.3 | 4831.6 | 4644.8 | 4657.3 | 5002.1 | 5170.1 |
| 42.5° | 5928.5 | 5981.2 | 6245.7 | 6475.1 | 6450.1 | 5878.4 | 5262.8 | 4979.5 | 4985.8 | 5296.7 | 5376.9 |
| 45° | 6359.8 | 6435.0 | 6732.1 | 7076.9 | 7135.8 | 6577.9 | 5885.9 | 5486.0 | 5482.2 | 5754.3 | 5763.1 |
| 47.5° | 6911.4 | 6957.8 | 7252.4 | 7628.5 | 7866.7 | 7456.7 | 6641.9 | 6213.1 | 6173.0 | 6421.2 | 6349.8 |
| 50° | 7419.1 | 7491.8 | 7715.0 | 8126.2 | 8719.2 | 8486.0 | 7636.0 | 7155.9 | 7061.8 | 7293.8 | 7173.4 |
| 52.5° | 7632.3 | 7708.7 | 7896.8 | 8407.0 | 9450.1 | 9817.4 | 8898.4 | 8280.4 | 8123.7 | 8301.7 | 8257.8 |
| 55° | 7262.4 | 7361.5 | 7537.0 | 8157.5 | 9771.0 | 11353.1 | 10600.9 | 9580.4 | 9466.4 | 9389.9 | 9402.4 |
| 57.5° | 6268.3 | 6362.3 | 6599.2 | 7283.7 | 9387.4 | 12467.6 | 13031.7 | 11251.6 | 11007.1 | 10654.8 | 10715.0 |
| 60° | 4771.4 | 4830.3 | 4953.2 | 5711.7 | 8250.3 | 12757.2 | 15792.3 | 13364.0 | 13208.5 | 11914.7 | 11957.4 |
| 62.5° | 3388.6 | 3455.1 | 3540.3 | 3918.9 | 6040.1 | 11941.1 | 17953.6 | 16313.8 | 15758.4 | 13219.8 | 13178.4 |
| 65° | 2751.8 | 2706.6 | 2809.4 | 2986.2 | 3544.1 | 9254.5 | 18440.0 | 20408.3 | 19643.5 | 14938.6 | 14364.4 |
| 67.5° | 2262.8 | 2215.2 | 2316.8 | 2631.4 | 2695.4 | 5371.9 | 16687.4 | 23066.0 | 22913.1 | 16807.8 | 15569.1 |
| 69° | 2003.3 | 1978.3 | 2067.3 | 2425.8 | 2587.5 | 3814.9 | 14537.4 | 23435.8 | 23472.2 | 17909.7 | 15754.7 |
| 70° | 1805.3 | 1815.3 | 1901.8 | 2321.8 | 2538.7 | 3145.4 | 12425.0 | 22925.6 | 23234.0 | 18460.1 | 15554.1 |
| 72.5° | 1328.9 | 1350.2 | 1470.5 | 1923.1 | 2492.3 | 2669.0 | 7394.1 | 20024.6 | 20570.0 | 18492.7 | 14229.0 |
| 75° | 929.0 | 918.9 | 1025.5 | 1448.0 | 2354.4 | 2645.2 | 4342.7 | 15486.4 | 16104.5 | 15984.1 | 11956.1 |
| 77.5° | 608.0 | 624.3 | 709.6 | 1023.0 | 1980.8 | 2625.2 | 2830.8 | 10987.0 | 11388.2 | 10689.9 | 7071.9 |
| 80° | 428.8 | 427.5 | 475.1 | 698.3 | 1469.3 | 2522.4 | 2318.0 | 6925.2 | 6823.6 | 4201.0 | 2097.4 |
| 82.5° | 245.7 | 263.3 | 318.4 | 491.4 | 982.9 | 2220.2 | 2132.5 | 3312.2 | 3023.8 | 1197.2 | 708.3 |
| 85° | 136.6 | 142.9 | 189.3 | 297.1 | 574.2 | 1672.4 | 1861.7 | 1506.9 | 1421.6 | 500.2 | 304.6 |
| 87.5° | 43.9 | 47.6 | 79.0 | 150.4 | 260.8 | 789.8 | 1054.3 | 695.8 | 641.9 | 180.5 | 122.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P454837
 CATALOG NUMBER: GALN-SA6A-727-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 | 5227.7 |
| 2.5° | 5235.3 | 5250.3 | 5210.2 | 5171.3 | 5136.2 | 5087.3 | 5043.5 | 5007.1 | 4982.0 | 4978.3 | 4965.7 |
| 5° | 5252.8 | 5254.1 | 5177.6 | 5074.8 | 4974.5 | 4864.2 | 4750.1 | 4668.6 | 4592.1 | 4549.5 | 4528.2 |
| 7.5° | 5265.4 | 5254.1 | 5116.2 | 4949.4 | 4756.4 | 4555.8 | 4355.2 | 4194.7 | 4070.6 | 4021.7 | 4040.5 |
| 10° | 5260.3 | 5225.2 | 5023.4 | 4756.4 | 4475.5 | 4175.9 | 3887.6 | 3661.9 | 3455.1 | 3348.5 | 3351.0 |
| 12.5° | 5232.8 | 5175.1 | 4885.5 | 4539.5 | 4127.0 | 3725.9 | 3284.6 | 2979.9 | 2740.5 | 2598.8 | 2554.9 |
| 15° | 5208.9 | 5108.6 | 4723.8 | 4244.9 | 3732.1 | 3159.2 | 2621.4 | 2245.3 | 2044.7 | 1933.1 | 1931.9 |
| 17.5° | 5183.9 | 5044.7 | 4547.0 | 3932.7 | 3278.3 | 2541.2 | 1977.0 | 1689.9 | 1595.9 | 1607.2 | 1588.4 |
| 20° | 5157.5 | 4969.5 | 4362.7 | 3585.5 | 2725.4 | 1895.5 | 1480.6 | 1364.0 | 1390.3 | 1441.7 | 1449.2 |
| 22.5° | 5127.5 | 4889.3 | 4164.6 | 3203.1 | 2143.8 | 1426.7 | 1201.0 | 1183.5 | 1251.1 | 1331.4 | 1342.7 |
| 25° | 5081.1 | 4789.0 | 3915.2 | 2803.2 | 1653.6 | 1149.6 | 1051.8 | 1064.4 | 1130.8 | 1198.5 | 1206.0 |
| 27.5° | 5015.9 | 4664.9 | 3663.2 | 2304.2 | 1242.4 | 986.6 | 961.6 | 977.9 | 1010.4 | 1051.8 | 1061.8 |
| 30° | 4928.1 | 4524.4 | 3373.6 | 1873.0 | 995.4 | 905.1 | 895.1 | 903.9 | 922.7 | 940.2 | 945.3 |
| 32.5° | 4840.4 | 4389.0 | 3081.5 | 1434.2 | 887.6 | 851.2 | 841.2 | 841.2 | 841.2 | 843.7 | 845.0 |
| 35° | 4758.9 | 4261.2 | 2768.1 | 1117.0 | 831.2 | 808.6 | 794.8 | 779.8 | 777.3 | 768.5 | 768.5 |
| 37.5° | 4713.7 | 4144.6 | 2434.6 | 935.2 | 789.8 | 773.5 | 754.7 | 729.6 | 715.8 | 717.1 | 714.6 |
| 40° | 4722.5 | 4068.1 | 2131.2 | 832.4 | 756.0 | 738.4 | 709.6 | 680.7 | 672.0 | 672.0 | 669.5 |
| 42.5° | 4821.6 | 4043.0 | 1840.4 | 778.5 | 723.4 | 703.3 | 666.9 | 640.6 | 635.6 | 634.3 | 636.9 |
| 45° | 5049.7 | 4104.5 | 1579.6 | 743.4 | 695.8 | 665.7 | 629.3 | 605.5 | 600.5 | 600.5 | 599.2 |
| 47.5° | 5494.8 | 4303.8 | 1392.8 | 720.9 | 675.7 | 636.9 | 599.2 | 575.4 | 566.7 | 564.1 | 564.1 |
| 50° | 6186.8 | 4736.3 | 1253.7 | 700.8 | 650.6 | 610.5 | 571.7 | 544.1 | 530.3 | 529.0 | 527.8 |
| 52.5° | 7148.3 | 5410.8 | 1199.7 | 685.7 | 623.1 | 582.9 | 540.3 | 514.0 | 496.4 | 492.7 | 490.2 |
| 55° | 8272.9 | 6352.3 | 1273.7 | 674.5 | 594.2 | 551.6 | 507.7 | 480.2 | 463.9 | 456.3 | 455.1 |
| 57.5° | 9575.4 | 7483.1 | 1554.5 | 659.4 | 567.9 | 517.8 | 475.1 | 447.6 | 430.0 | 421.2 | 418.7 |
| 60° | 10745.1 | 8645.2 | 2044.7 | 650.6 | 545.3 | 481.4 | 437.5 | 412.5 | 396.2 | 387.4 | 386.1 |
| 62.5° | 12030.1 | 9753.4 | 2630.2 | 674.5 | 535.3 | 446.3 | 402.4 | 379.9 | 366.1 | 357.3 | 357.3 |
| 65° | 13402.8 | 10862.9 | 3017.5 | 754.7 | 550.4 | 418.7 | 364.8 | 346.0 | 333.5 | 327.2 | 326.0 |
| 67.5° | 14328.0 | 11246.5 | 2486.0 | 837.4 | 588.0 | 388.6 | 328.5 | 313.4 | 305.9 | 299.6 | 299.6 |
| 69° | 14227.7 | 10761.4 | 1834.1 | 858.8 | 599.2 | 373.6 | 308.4 | 297.1 | 287.1 | 284.6 | 282.1 |
| 70° | 13910.6 | 10208.5 | 1537.0 | 845.0 | 590.5 | 359.8 | 295.9 | 282.1 | 273.3 | 270.8 | 269.5 |
| 72.5° | 12389.9 | 8853.3 | 1144.6 | 734.6 | 502.7 | 312.2 | 262.0 | 249.5 | 242.0 | 238.2 | 238.2 |
| 75° | 10293.8 | 7236.1 | 893.9 | 584.2 | 393.6 | 263.3 | 224.4 | 214.4 | 208.1 | 205.6 | 204.3 |
| 77.5° | 5769.3 | 4040.5 | 641.9 | 457.6 | 298.4 | 213.1 | 188.0 | 179.3 | 173.0 | 170.5 | 170.5 |
| 80° | 1607.2 | 1154.6 | 377.4 | 302.1 | 203.1 | 161.7 | 149.2 | 142.9 | 134.1 | 127.9 | 131.6 |
| 82.5° | 605.5 | 500.2 | 215.6 | 181.8 | 129.1 | 107.8 | 104.1 | 99.0 | 95.3 | 86.5 | 86.5 |
| 85° | 294.6 | 243.2 | 137.9 | 96.5 | 71.5 | 56.4 | 53.9 | 51.4 | 48.9 | 42.6 | 43.9 |
| 87.5° | 101.5 | 107.8 | 60.2 | 35.1 | 21.3 | 13.8 | 11.3 | 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)