

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: P454842

Luminaire Tested: **GALN-SA6A-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16287 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

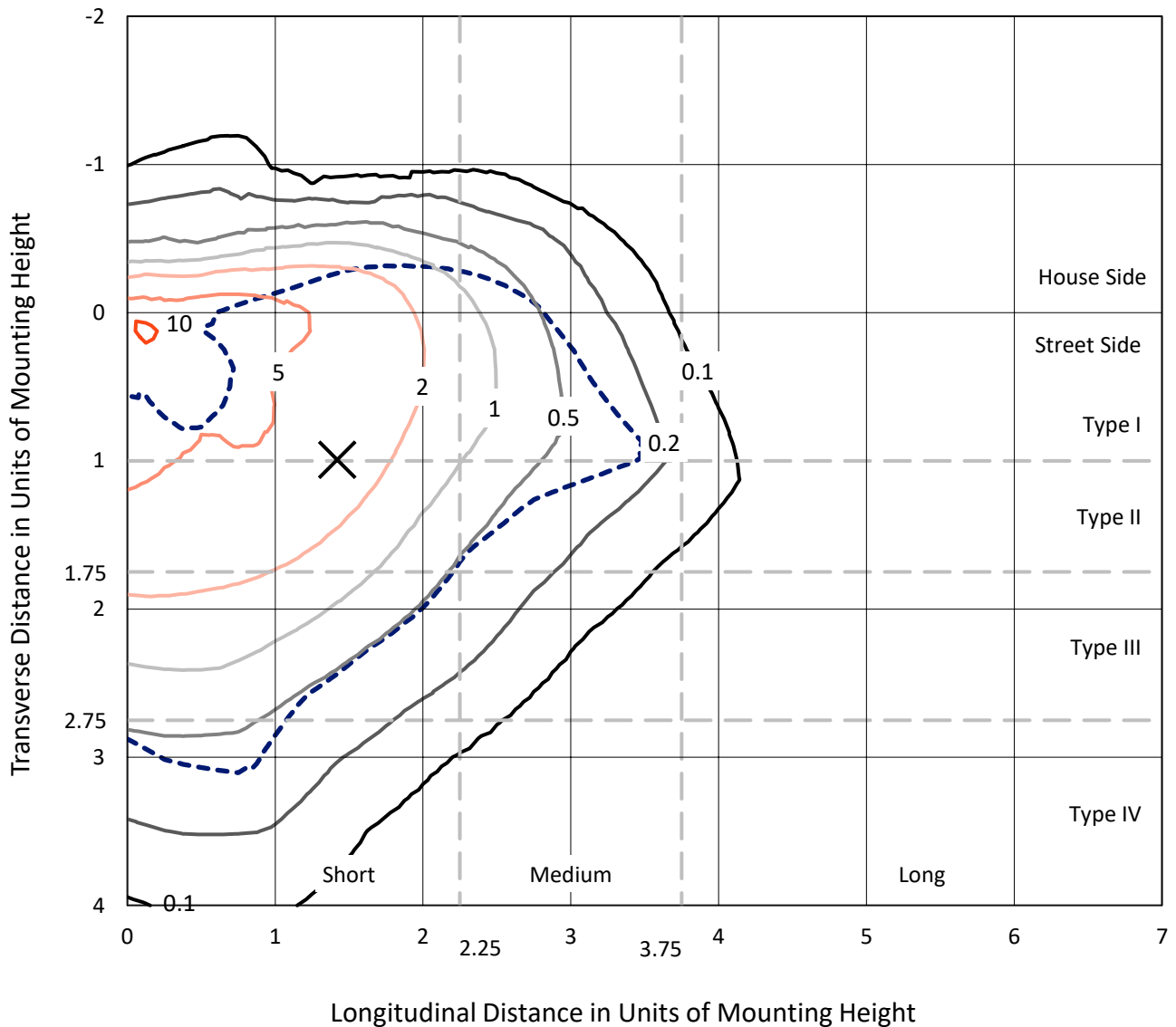
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454842
 CATALOG NUMBER: GALN-SA6A-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

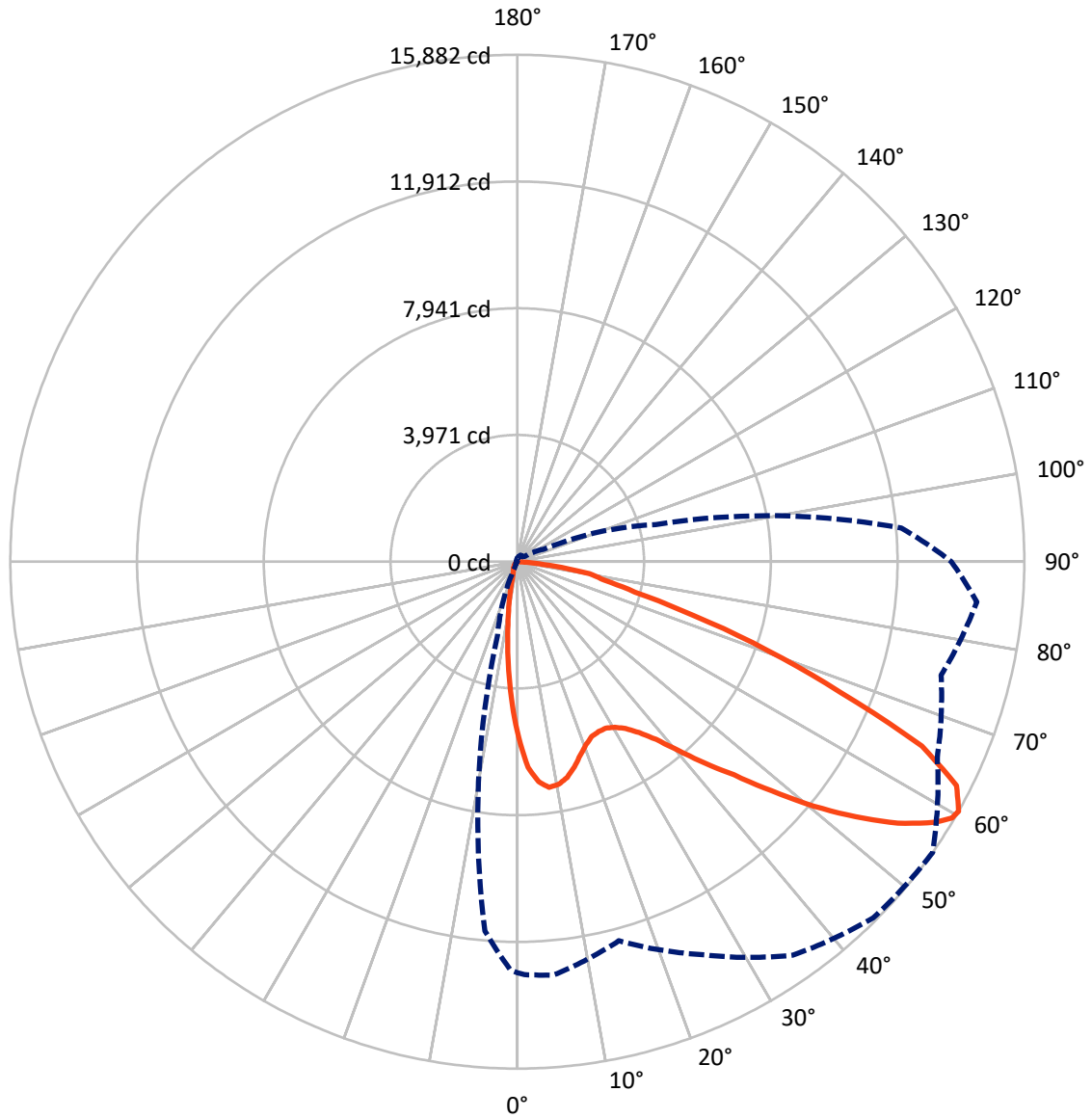
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

REPORT NUMBER: P454842
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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2417.1 | 0.0 | 2417.1 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 13869.9 | 0.0 | 13869.9 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 16287.0 | 0.0 | 16287.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.4 | 2.5 |
| 10°-20° | 804.2 | 4.9 |
| 20°-30° | 1190.3 | 7.3 |
| 30°-40° | 1774.3 | 10.9 |
| 40°-50° | 2598.5 | 16.0 |
| 50°-60° | 3751.4 | 23.0 |
| 60°-70° | 3946.3 | 24.2 |
| 70°-80° | 1623.4 | 10.0 |
| 80°-90° | 190.1 | 1.2 |
| 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° | 16287.0 | 100.0 |
| 0°-180° | 16287.0 | 100.0 |

Coefficient of Utilization



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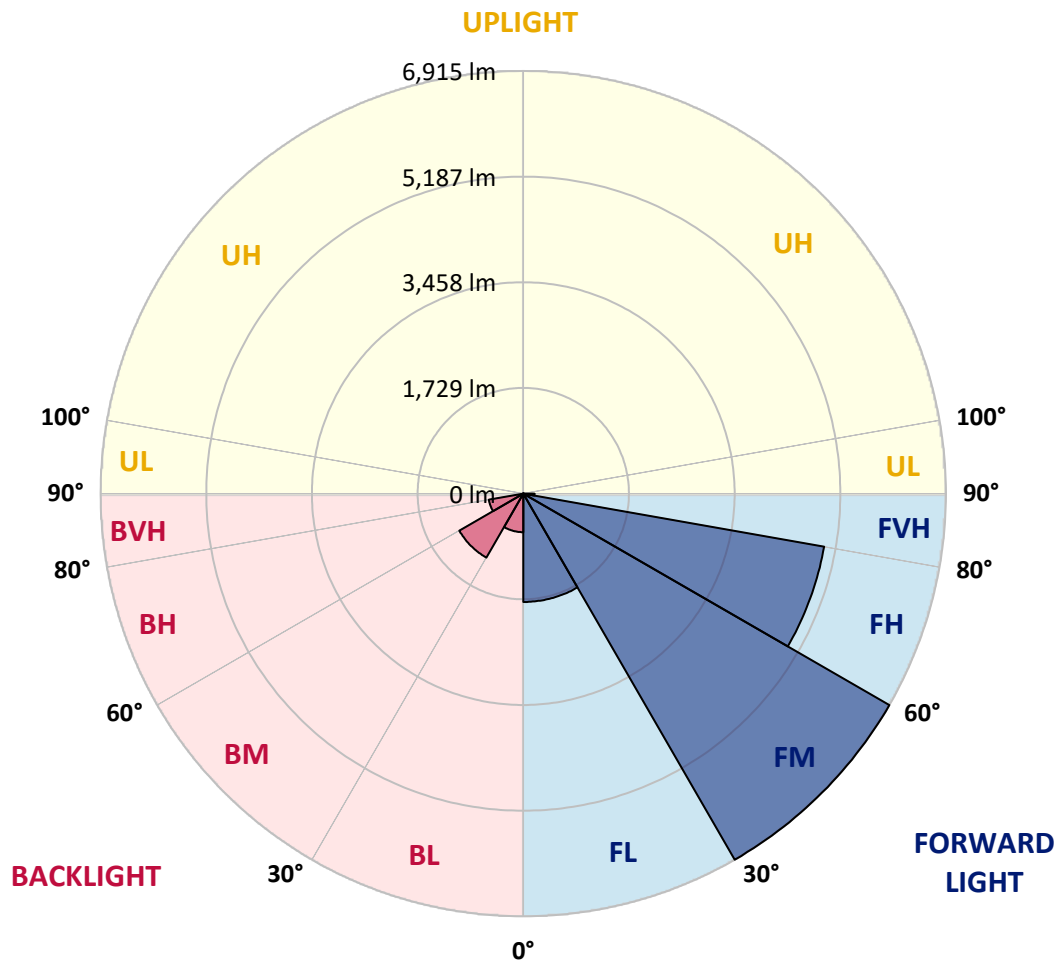
CATALOG NUMBER: GALN-SA6A-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1772.3 | 10.9 | | | |
| FM (30°-60°) | 6915.5 | 42.5 | | | |
| FH (60°-80°) | 4997.6 | 30.7 | | | G2/5000 |
| FVH (80°-90°) | 184.5 | 1.1 | | | G2/225 |
| BL (0°-30°) | 630.6 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1208.8 | 7.4 | B2/2500 | | |
| BH (60°-80°) | 572.1 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P454842

CATALOG NUMBER: GALN-SA6A-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 |
| 2.5° | 6025.0 | 6014.9 | 6103.9 | 6249.4 | 6396.0 | 6472.5 | 6457.5 | 6451.2 | 6329.6 | 6240.6 | 6053.8 |
| 5° | 6012.4 | 6063.8 | 6223.0 | 6616.7 | 6915.0 | 7059.2 | 7101.8 | 6922.6 | 6685.6 | 6342.1 | 5918.4 |
| 7.5° | 5652.6 | 5716.6 | 5976.1 | 6591.6 | 7121.9 | 7435.3 | 7424.0 | 7136.9 | 6648.0 | 6116.5 | 5512.2 |
| 10° | 5206.3 | 5281.6 | 5586.2 | 6333.4 | 7021.6 | 7435.3 | 7457.9 | 7094.3 | 6486.3 | 5804.3 | 5168.7 |
| 12.5° | 4891.7 | 4980.7 | 5317.9 | 6092.7 | 6763.4 | 7170.8 | 7197.1 | 6933.8 | 6364.7 | 5684.0 | 4981.9 |
| 15° | 4785.1 | 4869.1 | 5211.4 | 5971.1 | 6488.8 | 6708.2 | 6701.9 | 6674.3 | 6317.1 | 5712.8 | 4992.0 |
| 17.5° | 4968.1 | 5037.1 | 5423.2 | 6026.2 | 6231.8 | 6209.2 | 6241.8 | 6374.7 | 6327.1 | 5954.8 | 5307.9 |
| 20° | 5440.8 | 5511.0 | 5925.9 | 6195.5 | 6035.0 | 5892.1 | 5907.1 | 6129.0 | 6419.9 | 6409.8 | 5801.8 |
| 22.5° | 6091.4 | 6210.5 | 6586.6 | 6523.9 | 6008.7 | 5695.3 | 5663.9 | 5952.3 | 6577.8 | 6933.8 | 6468.7 |
| 25° | 6915.0 | 7035.4 | 7328.7 | 7047.9 | 6137.8 | 5648.9 | 5620.0 | 5898.3 | 6769.6 | 7445.3 | 7219.7 |
| 27.5° | 7607.0 | 7698.6 | 7990.7 | 7558.2 | 6328.3 | 5668.9 | 5621.3 | 5905.9 | 6925.1 | 7880.3 | 7852.8 |
| 30° | 8161.2 | 8228.8 | 8400.6 | 7796.3 | 6492.6 | 5756.7 | 5701.5 | 6016.2 | 6994.0 | 8092.2 | 8365.5 |
| 32.5° | 8607.4 | 8721.5 | 8775.4 | 8050.8 | 6728.3 | 5922.2 | 5828.1 | 6228.1 | 7162.0 | 8354.2 | 8903.3 |
| 35° | 9117.7 | 9249.3 | 9180.4 | 8294.0 | 7039.2 | 6180.4 | 6065.1 | 6571.5 | 7416.5 | 8596.2 | 9527.6 |
| 37.5° | 9764.6 | 9916.2 | 9646.7 | 8549.8 | 7367.6 | 6569.0 | 6515.1 | 7054.2 | 7802.6 | 8942.2 | 10197.1 |
| 40° | 10434.0 | 10521.7 | 10099.3 | 8860.7 | 7771.3 | 7134.4 | 7185.8 | 7771.3 | 8307.8 | 9357.1 | 10909.1 |
| 42.5° | 10956.8 | 11039.5 | 10564.4 | 9121.4 | 8183.7 | 7805.1 | 8019.5 | 8636.3 | 8887.0 | 9782.1 | 11440.7 |
| 45° | 11356.7 | 11426.9 | 10886.6 | 9406.0 | 8740.3 | 8776.7 | 9181.6 | 9527.6 | 9467.4 | 10041.6 | 11850.6 |
| 47.5° | 11667.6 | 11727.7 | 11134.8 | 9711.9 | 9574.0 | 9965.1 | 10584.4 | 10731.1 | 10069.2 | 10322.4 | 12221.7 |
| 50° | 11795.4 | 11813.0 | 11212.5 | 10101.8 | 10520.5 | 11479.5 | 12125.1 | 12036.1 | 10758.7 | 10634.6 | 12616.6 |
| 52.5° | 11962.2 | 11958.4 | 11434.4 | 10472.9 | 11410.6 | 12833.4 | 13477.8 | 13276.0 | 11538.4 | 11102.2 | 13060.4 |
| 55° | 12399.7 | 12404.7 | 11909.5 | 10999.4 | 12169.0 | 13926.6 | 14616.1 | 14469.4 | 12360.8 | 11892.0 | 13578.1 |
| 57.5° | 12931.2 | 12950.0 | 12585.2 | 11614.9 | 12893.6 | 14718.9 | 15466.1 | 15409.7 | 13472.8 | 12770.8 | 14067.0 |
| 59° | 13000.2 | 13037.8 | 12904.9 | 12048.7 | 13323.6 | 14962.1 | 15756.9 | 15812.1 | 14068.3 | 13349.9 | 14331.5 |
| 60° | 12874.8 | 12937.5 | 12997.7 | 12294.4 | 13575.6 | 15049.9 | 15774.5 | 15882.3 | 14515.8 | 13743.6 | 14451.9 |
| 62.5° | 12328.2 | 12427.3 | 12729.4 | 13050.3 | 13890.3 | 14776.6 | 15214.1 | 15439.7 | 15069.9 | 14777.8 | 14463.2 |
| 65° | 11612.4 | 11663.8 | 12100.1 | 13184.5 | 13279.7 | 13500.4 | 13635.8 | 13925.4 | 14404.2 | 15176.5 | 13945.4 |
| 67.5° | 10439.0 | 10590.7 | 11124.7 | 12406.0 | 11478.3 | 11217.5 | 11183.7 | 10895.3 | 12138.9 | 14226.2 | 12669.2 |
| 70° | 8623.7 | 8691.4 | 9349.6 | 10170.7 | 8662.6 | 8261.4 | 8421.9 | 8314.1 | 9409.8 | 12246.7 | 10197.1 |
| 72.5° | 6521.4 | 6674.3 | 7317.5 | 8107.2 | 5894.6 | 5374.3 | 5816.9 | 5776.7 | 7068.0 | 9842.3 | 7005.3 |
| 75° | 4639.7 | 4738.7 | 5558.6 | 6344.6 | 4128.2 | 3497.6 | 3656.8 | 3806.0 | 4934.3 | 7771.3 | 4139.5 |
| 77.5° | 3188.0 | 3273.2 | 3888.8 | 4195.9 | 3011.2 | 2884.6 | 2638.9 | 2783.1 | 3233.1 | 4610.9 | 2252.8 |
| 80° | 1923.1 | 1919.3 | 2324.2 | 2399.5 | 2097.3 | 2435.8 | 2043.4 | 2294.1 | 1954.4 | 1973.2 | 872.5 |
| 82.5° | 1248.6 | 1236.1 | 1421.6 | 1549.5 | 1167.1 | 1227.3 | 823.6 | 1187.2 | 1273.7 | 550.3 | 275.8 |
| 85° | 559.1 | 582.9 | 683.2 | 901.4 | 511.5 | 272.0 | 168.0 | 364.8 | 542.8 | 277.1 | 0.0 |
| 87.5° | 57.7 | 45.1 | 120.3 | 219.4 | 70.2 | 7.5 | 25.1 | 12.5 | 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 |



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CATALOG NUMBER: GALN-SA6A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 |
| 2.5° | 5967.3 | 5894.6 | 5677.7 | 5474.6 | 5300.4 | 5087.2 | 4949.3 | 4732.5 | 4600.8 | 4560.7 | 4567.0 |
| 5° | 5727.9 | 5518.5 | 5106.0 | 4776.3 | 4409.0 | 4199.7 | 3881.2 | 3575.4 | 3409.9 | 3348.5 | 3320.9 |
| 7.5° | 5226.4 | 5002.0 | 4504.3 | 3986.6 | 3592.9 | 3225.6 | 2988.7 | 2719.1 | 2534.8 | 2383.2 | 2356.8 |
| 10° | 4854.1 | 4559.5 | 3942.7 | 3386.1 | 3075.2 | 2799.4 | 2562.4 | 2292.9 | 2076.0 | 1903.0 | 1855.4 |
| 12.5° | 4630.9 | 4301.2 | 3613.0 | 3146.6 | 2852.0 | 2568.7 | 2260.3 | 1948.1 | 1726.3 | 1539.5 | 1453.0 |
| 15° | 4590.8 | 4208.4 | 3520.2 | 2974.9 | 2611.3 | 2269.1 | 1859.1 | 1521.9 | 1293.7 | 1117.0 | 1063.1 |
| 17.5° | 4832.8 | 4375.2 | 3506.4 | 2795.6 | 2296.7 | 1811.5 | 1385.3 | 1105.7 | 848.7 | 749.7 | 710.8 |
| 20° | 5264.0 | 4669.8 | 3505.2 | 2587.5 | 1973.2 | 1395.3 | 972.8 | 720.8 | 616.8 | 569.1 | 546.6 |
| 22.5° | 5852.0 | 5070.9 | 3571.6 | 2408.2 | 1637.2 | 1029.2 | 694.5 | 574.2 | 514.0 | 475.1 | 466.4 |
| 25° | 6570.3 | 5665.2 | 3734.6 | 2286.6 | 1380.3 | 807.3 | 572.9 | 491.4 | 441.3 | 423.7 | 416.2 |
| 27.5° | 7208.4 | 6234.3 | 3913.8 | 2161.3 | 1196.0 | 714.6 | 531.5 | 450.1 | 409.9 | 396.1 | 384.9 |
| 30° | 7758.7 | 6750.8 | 4000.3 | 1995.8 | 1048.0 | 654.4 | 539.1 | 481.4 | 428.7 | 387.4 | 368.6 |
| 32.5° | 8217.6 | 7147.0 | 4056.8 | 1845.3 | 922.7 | 535.3 | 426.2 | 372.3 | 348.5 | 333.5 | 320.9 |
| 35° | 8791.7 | 7575.7 | 4022.9 | 1760.1 | 858.7 | 487.7 | 388.6 | 320.9 | 280.8 | 250.7 | 238.2 |
| 37.5° | 9393.5 | 8004.4 | 3964.0 | 1689.9 | 829.9 | 452.6 | 369.8 | 304.6 | 260.8 | 229.4 | 213.1 |
| 40° | 10016.5 | 8401.9 | 3895.0 | 1624.7 | 803.6 | 430.0 | 358.5 | 290.8 | 247.0 | 213.1 | 195.6 |
| 42.5° | 10586.9 | 8789.2 | 3867.5 | 1582.1 | 761.0 | 433.8 | 349.8 | 284.6 | 233.2 | 198.1 | 183.0 |
| 45° | 11048.3 | 9156.5 | 3905.1 | 1559.5 | 714.6 | 427.5 | 352.3 | 277.1 | 221.9 | 188.0 | 173.0 |
| 47.5° | 11540.9 | 9675.5 | 4026.7 | 1537.0 | 669.4 | 397.4 | 371.1 | 275.8 | 216.9 | 181.8 | 165.5 |
| 50° | 12113.9 | 10340.0 | 4305.0 | 1481.8 | 614.3 | 364.8 | 394.9 | 274.5 | 210.6 | 174.3 | 158.0 |
| 52.5° | 12877.3 | 11094.7 | 4592.1 | 1385.3 | 534.0 | 333.5 | 377.3 | 270.8 | 198.1 | 165.5 | 149.2 |
| 55° | 13563.1 | 11889.5 | 4835.3 | 1271.2 | 432.5 | 288.3 | 339.7 | 254.5 | 176.8 | 150.4 | 135.4 |
| 57.5° | 13846.4 | 12338.3 | 4827.7 | 1113.2 | 346.0 | 253.2 | 279.6 | 233.2 | 154.2 | 132.9 | 120.3 |
| 59° | 13742.3 | 12281.8 | 4666.0 | 996.6 | 315.9 | 234.4 | 231.9 | 230.7 | 144.2 | 120.3 | 110.3 |
| 60° | 13595.7 | 12076.3 | 4491.8 | 939.0 | 297.1 | 221.9 | 213.1 | 228.2 | 135.4 | 112.8 | 102.8 |
| 62.5° | 13034.0 | 11223.8 | 3913.8 | 841.2 | 272.0 | 188.0 | 170.5 | 193.1 | 120.3 | 97.8 | 89.0 |
| 65° | 12220.4 | 9913.7 | 3313.4 | 813.6 | 264.5 | 155.5 | 141.7 | 137.9 | 102.8 | 82.7 | 75.2 |
| 67.5° | 10633.3 | 8389.3 | 2684.0 | 794.8 | 267.0 | 130.4 | 124.1 | 104.1 | 85.2 | 68.9 | 63.9 |
| 70° | 8513.4 | 6541.5 | 2197.6 | 773.5 | 269.5 | 106.6 | 104.1 | 82.7 | 68.9 | 57.7 | 52.7 |
| 72.5° | 5172.5 | 3877.5 | 1730.0 | 671.9 | 262.0 | 85.2 | 92.8 | 62.7 | 50.1 | 41.4 | 38.9 |
| 75° | 3198.0 | 2653.9 | 1073.1 | 522.8 | 173.0 | 62.7 | 65.2 | 38.9 | 33.8 | 26.3 | 26.3 |
| 77.5° | 1852.9 | 1676.1 | 383.6 | 188.0 | 76.5 | 37.6 | 28.8 | 20.1 | 18.8 | 11.3 | 11.3 |
| 80° | 768.5 | 615.5 | 132.9 | 63.9 | 41.4 | 17.6 | 6.3 | 1.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 224.4 | 199.3 | 36.4 | 28.8 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GALN-SA6A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 | 5514.7 |
| 2.5° | 4460.4 | 4419.1 | 4400.3 | 4464.2 | 4405.3 | 4480.5 | 4422.8 | 4447.9 | 4521.9 | 4554.4 | 4638.4 |
| 5° | 3338.4 | 3295.8 | 3275.7 | 3372.3 | 3367.3 | 3414.9 | 3409.9 | 3453.8 | 3491.4 | 3407.4 | 3493.9 |
| 7.5° | 2325.5 | 2296.7 | 2344.3 | 2419.5 | 2499.7 | 2473.4 | 2473.4 | 2414.5 | 2434.6 | 2422.0 | 2418.3 |
| 10° | 1768.9 | 1669.8 | 1644.8 | 1642.3 | 1672.3 | 1678.6 | 1644.8 | 1563.3 | 1593.4 | 1602.1 | 1654.8 |
| 12.5° | 1391.5 | 1315.1 | 1198.5 | 1145.8 | 1132.0 | 1143.3 | 1031.7 | 960.3 | 994.1 | 974.1 | 1025.5 |
| 15° | 997.9 | 935.2 | 866.3 | 807.3 | 791.0 | 768.5 | 646.9 | 561.6 | 551.6 | 555.4 | 564.1 |
| 17.5° | 712.1 | 669.4 | 669.4 | 606.8 | 572.9 | 505.2 | 443.8 | 406.2 | 402.4 | 406.2 | 412.4 |
| 20° | 525.3 | 502.7 | 500.2 | 483.9 | 446.3 | 401.2 | 358.5 | 351.0 | 348.5 | 354.8 | 357.3 |
| 22.5° | 452.6 | 428.7 | 408.7 | 407.4 | 372.3 | 334.7 | 314.7 | 304.6 | 305.9 | 308.4 | 314.7 |
| 25° | 404.9 | 379.9 | 358.5 | 346.0 | 320.9 | 294.6 | 275.8 | 270.8 | 270.8 | 274.5 | 275.8 |
| 27.5° | 371.1 | 339.7 | 320.9 | 303.4 | 280.8 | 258.2 | 242.0 | 238.2 | 235.7 | 238.2 | 244.5 |
| 30° | 347.3 | 315.9 | 292.1 | 265.8 | 248.2 | 226.9 | 213.1 | 208.1 | 206.8 | 208.1 | 213.1 |
| 32.5° | 297.1 | 278.3 | 259.5 | 235.7 | 214.4 | 200.6 | 185.5 | 176.8 | 176.8 | 179.3 | 184.3 |
| 35° | 224.4 | 214.4 | 213.1 | 206.8 | 189.3 | 174.3 | 156.7 | 147.9 | 147.9 | 152.9 | 155.5 |
| 37.5° | 198.1 | 179.3 | 176.8 | 174.3 | 166.7 | 146.7 | 130.4 | 122.9 | 121.6 | 125.4 | 130.4 |
| 40° | 180.5 | 159.2 | 147.9 | 145.4 | 146.7 | 124.1 | 106.6 | 99.0 | 99.0 | 100.3 | 105.3 |
| 42.5° | 166.7 | 141.7 | 121.6 | 119.1 | 124.1 | 104.1 | 86.5 | 79.0 | 79.0 | 79.0 | 85.2 |
| 45° | 155.5 | 126.6 | 102.8 | 90.3 | 97.8 | 85.2 | 70.2 | 62.7 | 60.2 | 62.7 | 65.2 |
| 47.5° | 147.9 | 115.3 | 90.3 | 72.7 | 72.7 | 67.7 | 56.4 | 47.6 | 45.1 | 46.4 | 50.1 |
| 50° | 141.7 | 105.3 | 76.5 | 58.9 | 52.7 | 53.9 | 42.6 | 36.4 | 33.8 | 33.8 | 37.6 |
| 52.5° | 131.6 | 95.3 | 66.4 | 50.1 | 40.1 | 36.4 | 31.3 | 26.3 | 25.1 | 26.3 | 28.8 |
| 55° | 119.1 | 86.5 | 57.7 | 41.4 | 31.3 | 25.1 | 22.6 | 18.8 | 17.6 | 18.8 | 22.6 |
| 57.5° | 105.3 | 72.7 | 46.4 | 32.6 | 21.3 | 16.3 | 15.0 | 12.5 | 10.0 | 11.3 | 13.8 |
| 59° | 96.5 | 65.2 | 40.1 | 26.3 | 16.3 | 11.3 | 11.3 | 8.8 | 6.3 | 7.5 | 11.3 |
| 60° | 92.8 | 60.2 | 33.8 | 22.6 | 13.8 | 8.8 | 8.8 | 6.3 | 3.8 | 5.0 | 8.8 |
| 62.5° | 79.0 | 50.1 | 26.3 | 13.8 | 6.3 | 1.3 | 3.8 | 1.3 | 0.0 | 1.3 | 3.8 |
| 65° | 66.4 | 40.1 | 17.6 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| 67.5° | 55.2 | 30.1 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 43.9 | 20.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 30.1 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 18.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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| 2.5° | 4643.5 | 4822.7 | 4933.0 | 5141.2 | 5354.3 | 5518.5 | 5724.1 | 5908.4 | 5984.8 | 6025.0 |
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| 17.5° | 445.0 | 520.3 | 748.4 | 1201.0 | 1898.0 | 2632.6 | 3478.8 | 4464.2 | 4841.5 | 4968.1 |
| 20° | 374.8 | 408.7 | 488.9 | 732.1 | 1461.7 | 2404.5 | 3493.9 | 4787.6 | 5282.8 | 5440.8 |
| 22.5° | 329.7 | 361.0 | 412.4 | 526.5 | 1020.5 | 2121.1 | 3565.3 | 5250.2 | 5889.6 | 6091.4 |
| 25° | 290.8 | 322.2 | 367.3 | 436.3 | 685.7 | 1793.9 | 3722.0 | 5927.2 | 6693.1 | 6915.0 |
| 27.5° | 258.2 | 287.1 | 325.9 | 384.9 | 527.8 | 1429.1 | 3861.2 | 6586.6 | 7426.5 | 7607.0 |
| 30° | 228.2 | 252.0 | 289.6 | 334.7 | 438.8 | 1101.9 | 3931.4 | 7163.3 | 7960.6 | 8161.2 |
| 32.5° | 198.1 | 220.6 | 257.0 | 293.4 | 361.0 | 839.9 | 3882.5 | 7587.0 | 8479.6 | 8607.4 |
| 35° | 169.2 | 193.1 | 223.1 | 257.0 | 312.2 | 678.2 | 3638.0 | 8063.4 | 9017.4 | 9117.7 |
| 37.5° | 145.4 | 165.5 | 196.8 | 223.1 | 282.1 | 542.8 | 3342.2 | 8492.1 | 9620.4 | 9764.6 |
| 40° | 122.9 | 142.9 | 174.3 | 198.1 | 259.5 | 427.5 | 3075.2 | 8968.5 | 10256.0 | 10434.0 |
| 42.5° | 100.3 | 124.1 | 151.7 | 190.6 | 223.1 | 325.9 | 2751.7 | 9354.6 | 10733.6 | 10956.8 |
| 45° | 80.2 | 106.6 | 136.6 | 189.3 | 194.3 | 248.2 | 2439.6 | 9655.5 | 11156.1 | 11356.7 |
| 47.5° | 63.9 | 90.3 | 131.6 | 176.8 | 159.2 | 196.8 | 2261.6 | 9970.1 | 11507.1 | 11667.6 |
| 50° | 51.4 | 75.2 | 137.9 | 155.5 | 132.9 | 166.7 | 2256.5 | 10321.2 | 11688.9 | 11795.4 |
| 52.5° | 41.4 | 61.4 | 116.6 | 119.1 | 112.8 | 146.7 | 2391.9 | 10716.1 | 11874.4 | 11962.2 |
| 55° | 35.1 | 51.4 | 76.5 | 87.8 | 101.5 | 132.9 | 2493.5 | 11324.1 | 12316.9 | 12399.7 |
| 57.5° | 27.6 | 43.9 | 58.9 | 70.2 | 90.3 | 121.6 | 2507.3 | 11792.9 | 12877.3 | 12931.2 |
| 59° | 23.8 | 37.6 | 52.7 | 62.7 | 82.7 | 114.1 | 2450.9 | 11821.8 | 12913.7 | 13000.2 |
| 60° | 20.1 | 33.8 | 46.4 | 58.9 | 76.5 | 107.8 | 2389.4 | 11612.4 | 12778.3 | 12874.8 |
| 62.5° | 15.0 | 26.3 | 33.8 | 47.6 | 62.7 | 92.8 | 2098.6 | 10881.5 | 12260.5 | 12328.2 |
| 65° | 10.0 | 18.8 | 25.1 | 35.1 | 48.9 | 80.2 | 1710.0 | 9933.8 | 11460.7 | 11612.4 |
| 67.5° | 6.3 | 13.8 | 20.1 | 26.3 | 40.1 | 67.7 | 1218.5 | 8518.4 | 10341.2 | 10439.0 |
| 70° | 3.8 | 8.8 | 15.0 | 21.3 | 31.3 | 53.9 | 723.3 | 6733.3 | 8603.7 | 8623.7 |
| 72.5° | 2.5 | 6.3 | 10.0 | 15.0 | 25.1 | 48.9 | 351.0 | 4389.0 | 6282.0 | 6521.4 |
| 75° | 1.3 | 3.8 | 6.3 | 11.3 | 20.1 | 40.1 | 168.0 | 2932.2 | 4570.7 | 4639.7 |
| 77.5° | 0.0 | 1.3 | 3.8 | 7.5 | 15.0 | 31.3 | 97.8 | 1925.6 | 3116.5 | 3188.0 |
| 80° | 0.0 | 0.0 | 2.5 | 6.3 | 11.3 | 20.1 | 58.9 | 1135.8 | 1888.0 | 1923.1 |
| 82.5° | 0.0 | 0.0 | 1.3 | 5.0 | 7.5 | 15.0 | 30.1 | 498.9 | 1236.1 | 1248.6 |
| 85° | 0.0 | 0.0 | 1.3 | 5.0 | 6.3 | 10.0 | 11.3 | 67.7 | 549.1 | 559.1 |
| 87.5° | 0.0 | 0.0 | 1.3 | 6.3 | 6.3 | 6.3 | 6.3 | 3.8 | 46.4 | 57.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)