

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: P456941

Luminaire Tested: **GALN-SA8B-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30086 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

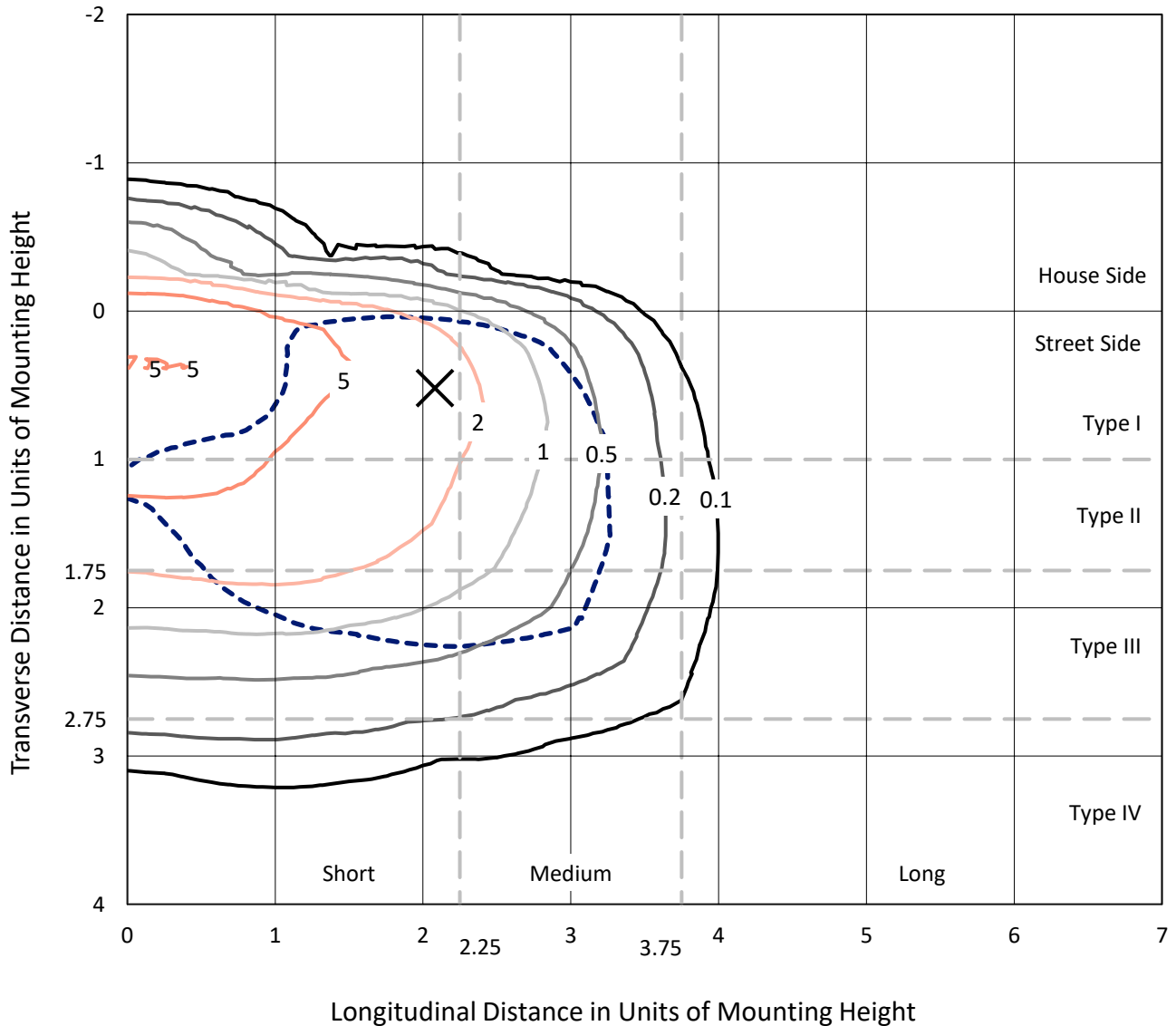
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456941
 CATALOG NUMBER: GALN-SA8B-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

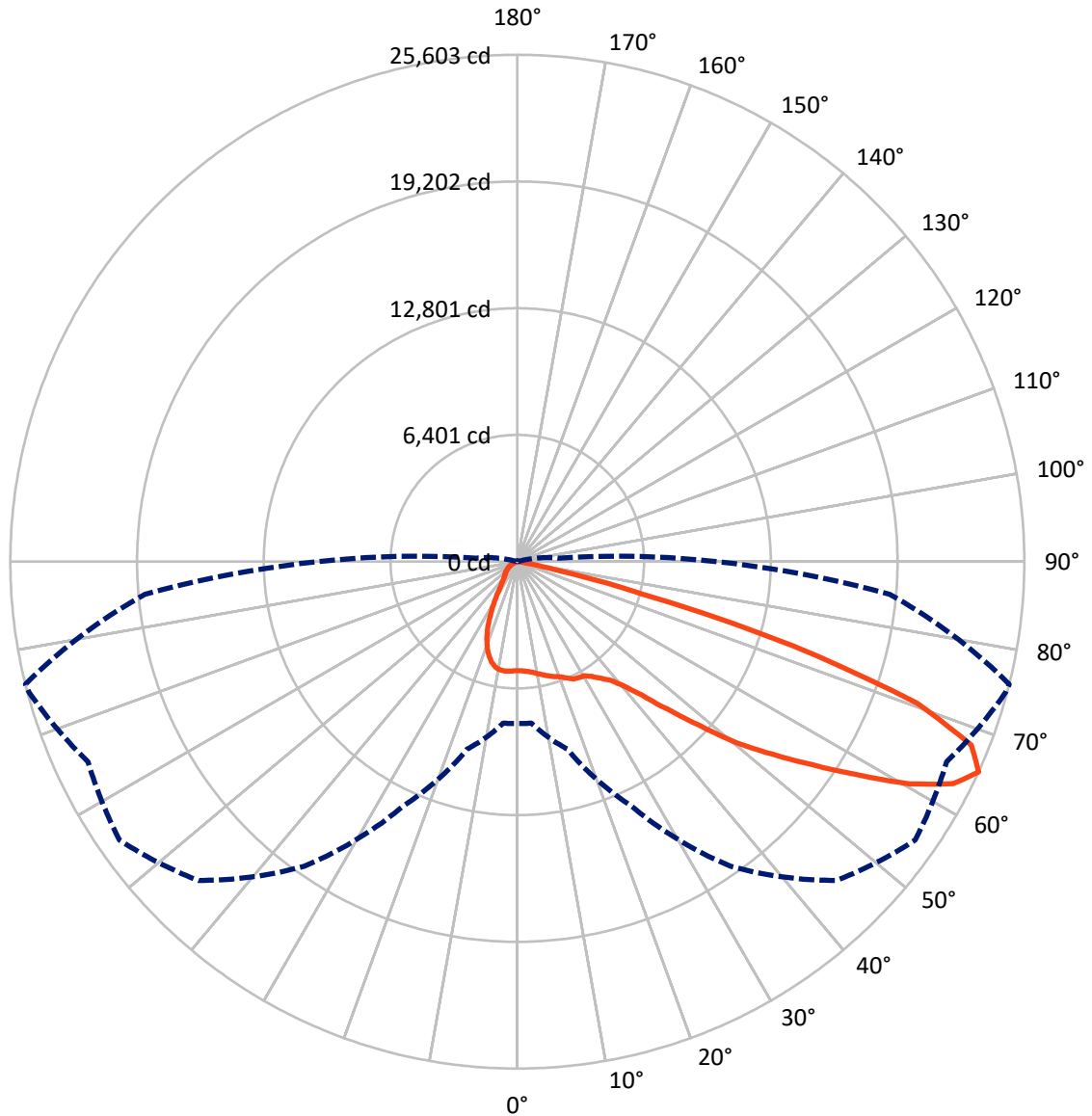
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P456941
CATALOG NUMBER: GALN-SA8B-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2172.8 | 0.0 | 2172.8 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 27913.2 | 0.0 | 27913.2 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 30086.0 | 0.0 | 30086.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 453.4 | 1.5 |
| 10°-20° | 1009.5 | 3.4 |
| 20°-30° | 1626.7 | 5.4 |
| 30°-40° | 2828.4 | 9.4 |
| 40°-50° | 4673.7 | 15.5 |
| 50°-60° | 7220.0 | 24.0 |
| 60°-70° | 8816.6 | 29.3 |
| 70°-80° | 3346.1 | 11.1 |
| 80°-90° | 111.7 | 0.4 |
| 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° | 30086.0 | 100.0 |
| 0°-180° | 30086.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P456941

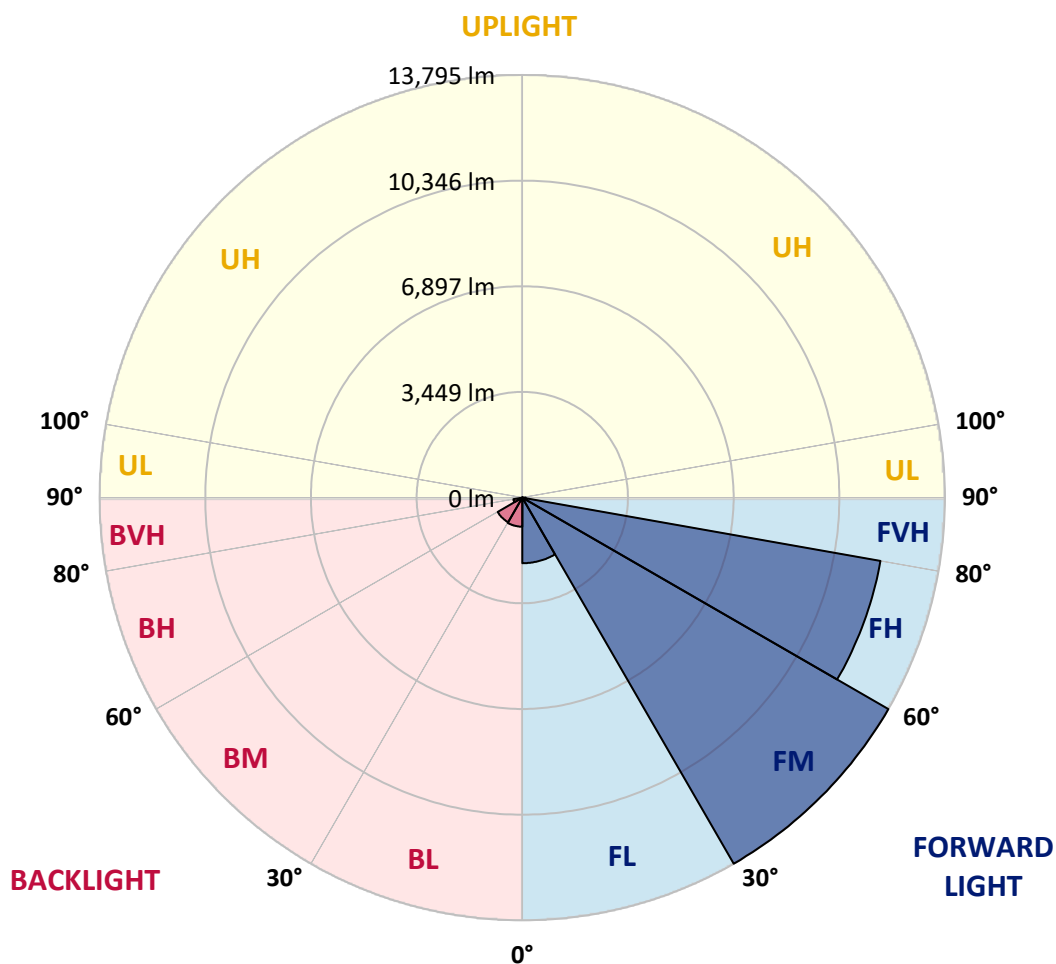
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2140.3 | 7.1 | | | |
| FM | (30°-60°) | 13794.9 | 45.9 | | | |
| FH | (60°-80°) | 11867.9 | 39.4 | | | G4/12000 |
| FVH | (80°-90°) | 110.1 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 949.3 | 3.2 | B2/1000 | | |
| BM | (30°-60°) | 927.2 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 294.8 | 1.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.5 | 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-G4

Type III Short





REPORT NUMBER: P456941

CATALOG NUMBER: GALN-SA8B-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 |
| 2.5° | 5259.4 | 5261.5 | 5274.3 | 5306.1 | 5355.0 | 5395.4 | 5429.3 | 5484.6 | 5522.8 | 5527.1 | 5539.8 |
| 5° | 4896.2 | 4870.7 | 4896.2 | 4979.0 | 5053.4 | 5165.9 | 5304.0 | 5442.1 | 5565.3 | 5573.8 | 5633.3 |
| 7.5° | 4488.3 | 4509.6 | 4549.9 | 4634.9 | 4775.1 | 4947.2 | 5146.8 | 5393.2 | 5626.9 | 5648.1 | 5765.0 |
| 10° | 4074.1 | 4120.9 | 4186.7 | 4316.3 | 4511.7 | 4734.7 | 5006.6 | 5359.2 | 5724.6 | 5754.3 | 5956.1 |
| 12.5° | 3691.8 | 3713.0 | 3793.7 | 3967.9 | 4210.1 | 4524.5 | 4900.4 | 5340.1 | 5832.9 | 5869.0 | 6160.1 |
| 15° | 3398.7 | 3426.3 | 3496.4 | 3653.5 | 3923.3 | 4326.9 | 4813.3 | 5333.8 | 5939.1 | 5990.1 | 6364.0 |
| 17.5° | 3343.4 | 3360.4 | 3390.2 | 3496.4 | 3732.1 | 4169.7 | 4734.7 | 5331.6 | 6041.1 | 6102.7 | 6553.0 |
| 20° | 3570.7 | 3555.8 | 3526.1 | 3515.5 | 3645.1 | 4048.6 | 4677.4 | 5348.6 | 6138.8 | 6208.9 | 6752.7 |
| 22.5° | 4140.0 | 4159.1 | 3984.9 | 3778.9 | 3736.4 | 4029.5 | 4668.9 | 5429.3 | 6293.9 | 6376.7 | 6975.7 |
| 25° | 5348.6 | 5202.1 | 4930.2 | 4437.4 | 4065.6 | 4146.4 | 4764.5 | 5620.5 | 6474.4 | 6565.8 | 7177.5 |
| 27.5° | 6684.7 | 6640.1 | 6217.4 | 5406.0 | 4713.5 | 4392.8 | 4934.4 | 5767.1 | 6533.9 | 6627.4 | 7292.2 |
| 30° | 7997.4 | 8050.6 | 7566.2 | 6669.9 | 5654.5 | 4849.4 | 5093.7 | 5822.3 | 6587.0 | 6684.7 | 7438.8 |
| 32.5° | 9214.6 | 9278.3 | 8853.5 | 7965.6 | 6763.3 | 5639.6 | 5367.7 | 6036.9 | 6810.0 | 6909.9 | 7683.1 |
| 35° | 10172.6 | 10181.1 | 9860.3 | 9153.0 | 7974.1 | 6599.8 | 5960.4 | 6412.8 | 7111.7 | 7228.5 | 7942.2 |
| 37.5° | 11052.0 | 11039.2 | 10663.3 | 10053.6 | 8983.1 | 7553.5 | 6706.0 | 6846.2 | 7455.8 | 7576.9 | 8316.1 |
| 40° | 11704.1 | 11712.6 | 11591.5 | 11018.0 | 9924.1 | 8435.0 | 7296.5 | 7251.9 | 8033.6 | 8222.6 | 8859.9 |
| 42.5° | 12139.6 | 12218.1 | 12277.6 | 11986.6 | 11107.2 | 9520.5 | 8203.5 | 8120.7 | 9036.2 | 9193.3 | 9628.8 |
| 45° | 12492.2 | 12632.4 | 12929.7 | 12914.9 | 12243.6 | 10852.3 | 9448.2 | 9278.3 | 10457.2 | 10625.0 | 10608.0 |
| 47.5° | 12749.2 | 12891.5 | 13384.3 | 13681.7 | 13312.1 | 12143.8 | 11013.8 | 10867.2 | 12154.4 | 12337.1 | 11689.2 |
| 50° | 12880.9 | 13050.8 | 13679.6 | 14255.2 | 14146.9 | 13388.6 | 12798.0 | 12806.5 | 14204.2 | 14380.5 | 12942.5 |
| 52.5° | 12572.9 | 12793.8 | 13836.8 | 14873.3 | 15083.6 | 14580.2 | 14469.8 | 14750.1 | 16028.9 | 16179.7 | 14074.7 |
| 55° | 11589.4 | 11867.7 | 13622.2 | 15400.1 | 16169.1 | 15986.4 | 16368.8 | 16795.7 | 18023.5 | 18121.2 | 15236.6 |
| 57.5° | 10967.0 | 11262.3 | 12989.2 | 15848.3 | 17473.3 | 17753.7 | 18359.1 | 18671.3 | 20081.8 | 20330.3 | 16570.5 |
| 60° | 10442.4 | 10673.9 | 12468.8 | 15943.9 | 18798.8 | 19916.1 | 20504.5 | 20827.4 | 22622.3 | 22783.7 | 18038.3 |
| 62.5° | 9569.3 | 9834.8 | 11589.4 | 15276.9 | 19465.8 | 21647.3 | 22866.5 | 22722.1 | 24587.1 | 24699.7 | 18939.0 |
| 65° | 8165.3 | 8188.6 | 9805.1 | 13601.0 | 18777.5 | 22771.0 | 24525.5 | 23920.1 | 25526.0 | 25602.5 | 18868.9 |
| 67.5° | 6094.2 | 6319.4 | 7542.9 | 10690.9 | 15861.1 | 21810.8 | 25062.9 | 23952.0 | 24933.3 | 24720.9 | 17371.4 |
| 70° | 3925.4 | 4097.5 | 5112.8 | 7413.3 | 11436.5 | 18201.9 | 23280.8 | 22310.0 | 21883.1 | 21411.5 | 14219.1 |
| 72.5° | 1811.9 | 2032.8 | 3037.5 | 4235.6 | 6782.4 | 12965.9 | 18898.6 | 18125.4 | 15750.6 | 14586.6 | 9038.3 |
| 75° | 790.2 | 845.4 | 1499.7 | 2234.6 | 3179.9 | 6856.8 | 12460.3 | 11251.7 | 7113.8 | 6497.8 | 3617.4 |
| 77.5° | 482.2 | 518.3 | 785.9 | 1198.0 | 1249.0 | 2612.7 | 6712.3 | 4908.9 | 2198.5 | 1939.4 | 981.4 |
| 80° | 327.1 | 367.5 | 571.4 | 626.6 | 427.0 | 728.6 | 2519.2 | 1310.6 | 443.9 | 424.8 | 210.3 |
| 82.5° | 159.3 | 201.8 | 422.7 | 350.5 | 184.8 | 233.7 | 732.8 | 280.4 | 129.6 | 121.1 | 74.3 |
| 85° | 23.4 | 40.4 | 237.9 | 229.4 | 82.8 | 55.2 | 129.6 | 70.1 | 44.6 | 42.5 | 34.0 |
| 87.5° | 0.0 | 0.0 | 80.7 | 36.1 | 8.5 | 8.5 | 14.9 | 14.9 | 17.0 | 14.9 | 17.0 |
| 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: P456941

CATALOG NUMBER: GALN-SA8B-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 | 5503.7 |
| 2.5° | 5546.2 | 5556.8 | 5516.4 | 5459.1 | 5397.5 | 5335.9 | 5248.8 | 5170.2 | 5123.5 | 5151.1 | 5083.1 |
| 5° | 5646.0 | 5637.5 | 5531.3 | 5357.1 | 5125.6 | 4847.3 | 4571.2 | 4335.4 | 4258.9 | 4144.2 | 4131.5 |
| 7.5° | 5784.1 | 5760.7 | 5535.6 | 5136.2 | 4613.7 | 4091.1 | 3581.3 | 3243.6 | 3050.3 | 2886.7 | 2891.0 |
| 10° | 5977.4 | 5909.4 | 5486.7 | 4747.5 | 3887.2 | 3099.1 | 2449.2 | 2003.1 | 1809.8 | 1748.2 | 1699.3 |
| 12.5° | 6177.0 | 6045.3 | 5350.8 | 4222.8 | 3026.9 | 2117.8 | 1489.0 | 1217.1 | 1098.2 | 1060.0 | 1055.7 |
| 15° | 6355.5 | 6147.3 | 5112.8 | 3591.9 | 2200.6 | 1353.1 | 1015.3 | 926.1 | 911.3 | 913.4 | 911.3 |
| 17.5° | 6531.8 | 6228.0 | 4783.6 | 2922.8 | 1495.4 | 970.7 | 873.0 | 851.8 | 858.2 | 866.7 | 864.5 |
| 20° | 6678.3 | 6245.0 | 4363.0 | 2230.4 | 1057.8 | 851.8 | 819.9 | 815.7 | 822.0 | 828.4 | 828.4 |
| 22.5° | 6837.7 | 6257.8 | 3863.8 | 1544.3 | 864.5 | 792.3 | 775.3 | 775.3 | 783.8 | 792.3 | 794.4 |
| 25° | 6956.6 | 6187.7 | 3267.0 | 1108.8 | 762.6 | 735.0 | 726.5 | 728.6 | 737.1 | 741.3 | 739.2 |
| 27.5° | 6975.7 | 5990.1 | 2634.0 | 849.7 | 692.5 | 664.9 | 656.4 | 664.9 | 654.2 | 660.6 | 656.4 |
| 30° | 6992.7 | 5739.5 | 1992.5 | 715.8 | 628.8 | 586.3 | 573.5 | 560.8 | 552.3 | 541.7 | 539.5 |
| 32.5° | 7045.8 | 5444.2 | 1455.0 | 643.6 | 569.3 | 522.5 | 492.8 | 456.7 | 429.1 | 420.6 | 418.5 |
| 35° | 7069.2 | 5089.5 | 1068.5 | 586.3 | 516.2 | 465.2 | 412.1 | 361.1 | 320.7 | 305.9 | 316.5 |
| 37.5° | 7158.4 | 4745.4 | 828.4 | 543.8 | 469.4 | 405.7 | 337.7 | 274.0 | 235.8 | 227.3 | 231.5 |
| 40° | 7341.1 | 4371.5 | 694.6 | 507.7 | 429.1 | 350.5 | 267.6 | 206.0 | 180.6 | 172.1 | 169.9 |
| 42.5° | 7634.2 | 3999.8 | 618.1 | 473.7 | 388.7 | 295.3 | 210.3 | 161.4 | 140.2 | 133.8 | 133.8 |
| 45° | 7991.1 | 3642.9 | 565.0 | 437.6 | 346.2 | 237.9 | 165.7 | 129.6 | 116.8 | 112.6 | 112.6 |
| 47.5° | 8460.5 | 3330.7 | 520.4 | 401.5 | 299.5 | 189.0 | 133.8 | 112.6 | 104.1 | 106.2 | 108.3 |
| 50° | 8936.3 | 3099.1 | 471.6 | 361.1 | 246.4 | 155.1 | 114.7 | 99.8 | 97.7 | 99.8 | 99.8 |
| 52.5° | 9295.3 | 2963.2 | 405.7 | 305.9 | 193.3 | 129.6 | 102.0 | 93.5 | 91.3 | 87.1 | 87.1 |
| 55° | 9779.6 | 2933.5 | 322.9 | 248.5 | 152.9 | 108.3 | 91.3 | 85.0 | 78.6 | 74.3 | 72.2 |
| 57.5° | 10402.0 | 2967.4 | 248.5 | 193.3 | 119.0 | 89.2 | 80.7 | 70.1 | 61.6 | 53.1 | 53.1 |
| 60° | 10788.6 | 2891.0 | 193.3 | 148.7 | 87.1 | 72.2 | 61.6 | 51.0 | 40.4 | 34.0 | 31.9 |
| 62.5° | 10665.4 | 2568.1 | 152.9 | 110.5 | 61.6 | 53.1 | 40.4 | 34.0 | 23.4 | 17.0 | 14.9 |
| 65° | 10030.3 | 2073.2 | 123.2 | 76.5 | 44.6 | 31.9 | 21.2 | 21.2 | 10.6 | 2.1 | 0.0 |
| 67.5° | 8779.1 | 1535.8 | 97.7 | 51.0 | 25.5 | 14.9 | 10.6 | 6.4 | 0.0 | 0.0 | 0.0 |
| 70° | 7145.7 | 1108.8 | 76.5 | 31.9 | 14.9 | 10.6 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4537.2 | 635.1 | 59.5 | 19.1 | 10.6 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1754.6 | 248.5 | 40.4 | 12.7 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 497.1 | 116.8 | 23.4 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 129.6 | 51.0 | 12.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 61.6 | 21.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 36.1 | 8.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.0 | 2.1 | 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 |

(END OF REPORT)