

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: P648509

Luminaire Tested: **GALN-SA6B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16067.9 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

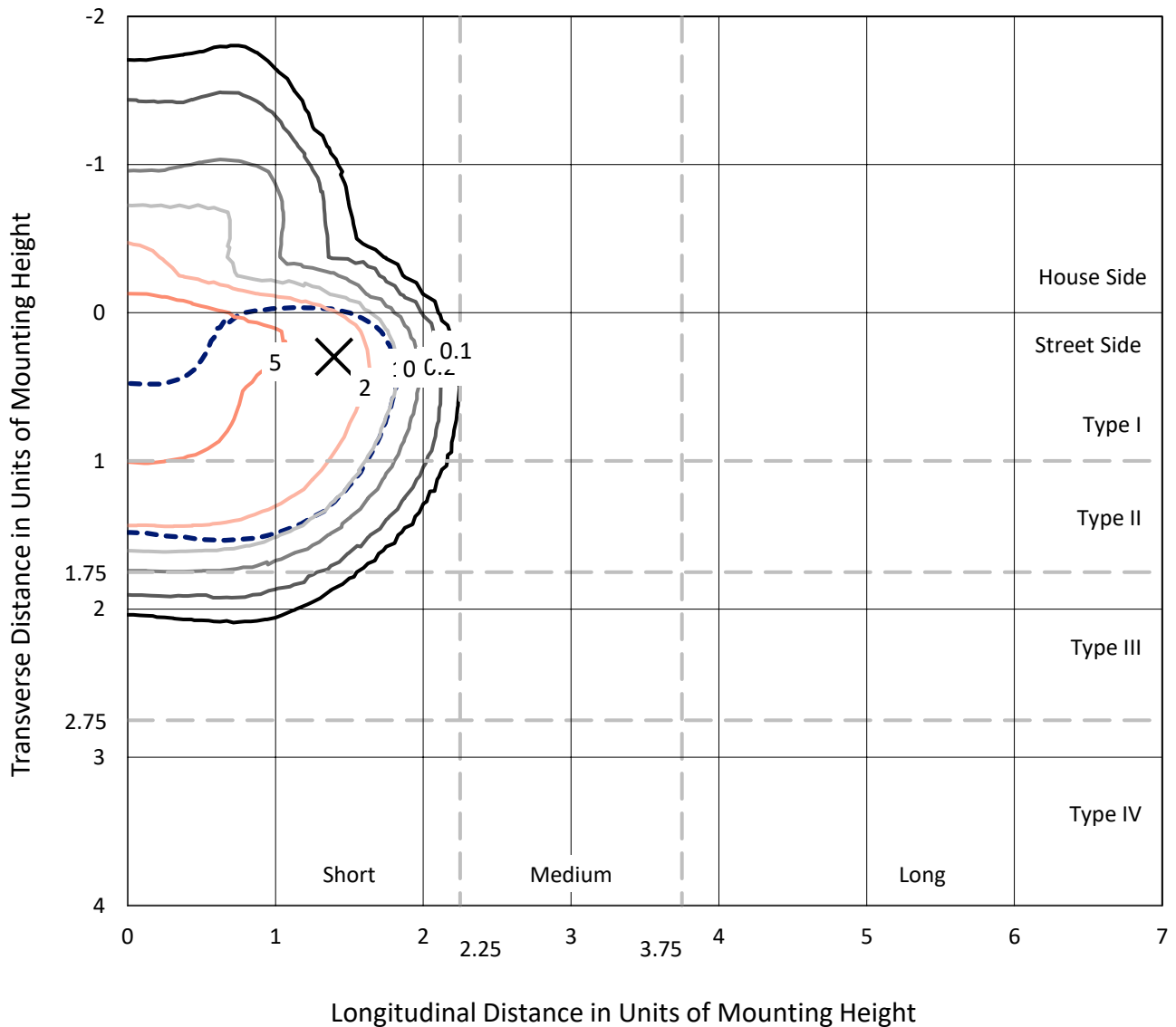
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648509
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

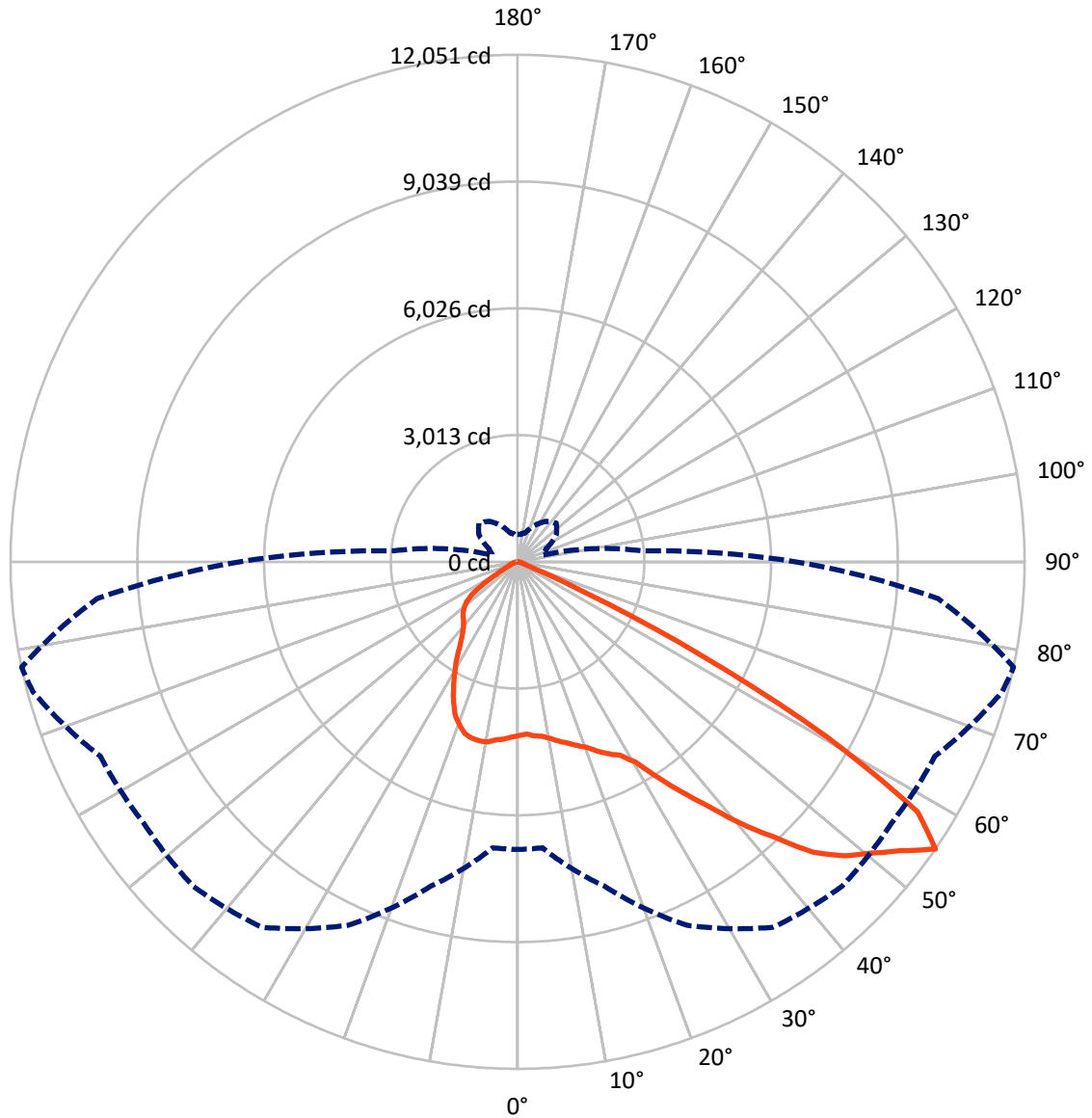
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

REPORT NUMBER: P648509
CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P648509
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

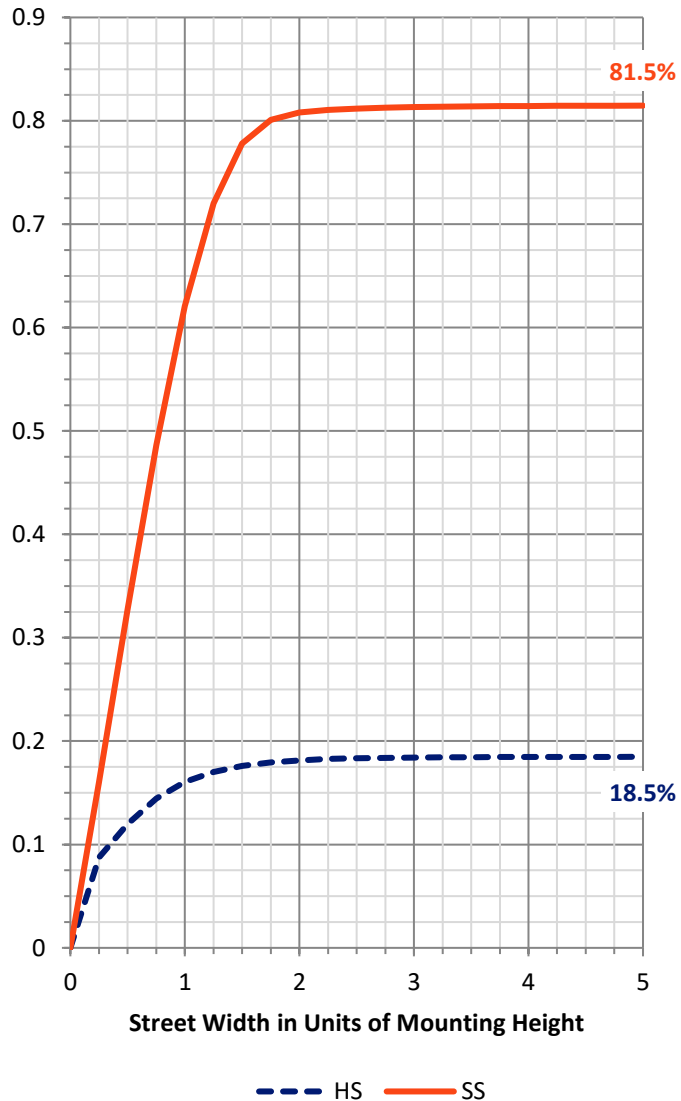
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2984.4 | 0.0 | 2984.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 13083.5 | 0.0 | 13083.5 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 16067.9 | 0.0 | 16067.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.4 | 2.3 |
| 10°-20° | 974.9 | 6.1 |
| 20°-30° | 1708.8 | 10.6 |
| 30°-40° | 2817.6 | 17.5 |
| 40°-50° | 4099.9 | 25.5 |
| 50°-60° | 4645.6 | 28.9 |
| 60°-70° | 1328.3 | 8.3 |
| 70°-80° | 103.1 | 0.6 |
| 80°-90° | 21.4 | 0.1 |
| 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° | 16067.9 | 100.0 |
| 0°-180° | 16067.9 | 100.0 |

Coefficient of Utilization

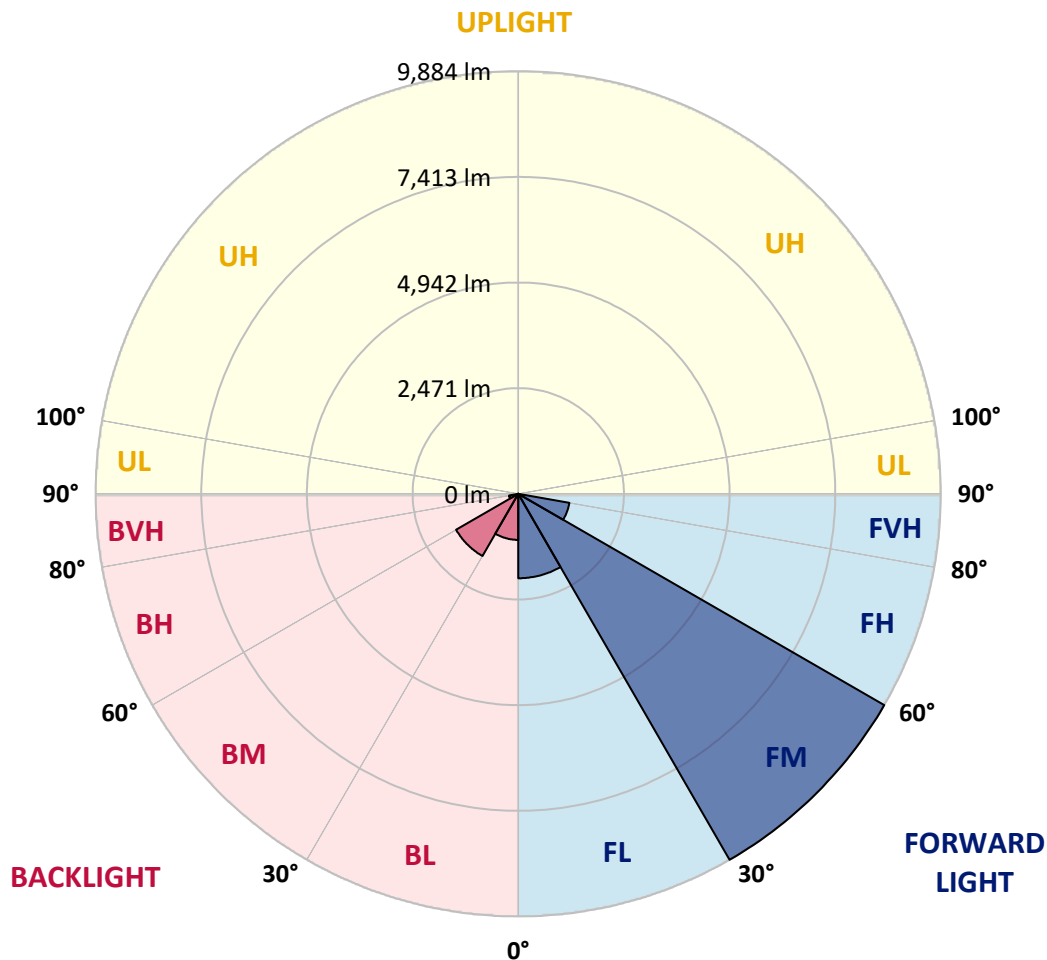


REPORT NUMBER: P648509
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1975.2 | 12.3 | | | |
| FM (30°-60°) | 9884.3 | 61.5 | | | |
| FH (60°-80°) | 1213.6 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 10.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1076.8 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 1678.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 217.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P648509

CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 |
| 2.5° | 3884.0 | 3921.3 | 3927.1 | 3973.1 | 3970.2 | 4047.8 | 4070.7 | 4073.6 | 4125.3 | 4099.5 | 4165.6 |
| 5° | 3774.8 | 3754.7 | 3746.1 | 3826.6 | 3849.5 | 3918.5 | 3975.9 | 4010.4 | 4116.7 | 4154.0 | 4223.0 |
| 7.5° | 3677.2 | 3677.2 | 3682.9 | 3754.7 | 3746.1 | 3835.2 | 3895.5 | 4001.8 | 4156.9 | 4188.5 | 4271.8 |
| 10° | 3582.4 | 3547.9 | 3591.0 | 3665.7 | 3728.9 | 3769.1 | 3895.5 | 3996.0 | 4177.1 | 4269.0 | 4383.9 |
| 12.5° | 3533.5 | 3550.7 | 3556.5 | 3611.1 | 3680.0 | 3800.7 | 3869.7 | 4036.3 | 4320.7 | 4375.2 | 4498.8 |
| 15° | 3840.9 | 3806.5 | 3723.2 | 3674.3 | 3731.8 | 3789.3 | 3961.6 | 4131.1 | 4395.4 | 4473.0 | 4610.9 |
| 17.5° | 4197.1 | 4168.5 | 4099.5 | 3967.3 | 3838.0 | 3944.4 | 4079.4 | 4234.5 | 4475.8 | 4590.7 | 4794.7 |
| 20° | 4662.5 | 4616.6 | 4547.7 | 4289.1 | 4177.1 | 4062.1 | 4205.8 | 4389.7 | 4608.0 | 4711.4 | 4921.1 |
| 22.5° | 5217.0 | 5217.0 | 5061.9 | 4748.7 | 4516.0 | 4406.9 | 4467.2 | 4573.5 | 4754.5 | 4895.2 | 5102.1 |
| 25° | 5794.4 | 5777.2 | 5636.4 | 5311.8 | 4918.3 | 4789.0 | 4857.9 | 4932.6 | 4981.4 | 5059.0 | 5196.8 |
| 27.5° | 6455.1 | 6354.6 | 6176.5 | 5817.4 | 5469.8 | 5219.9 | 5294.6 | 5228.5 | 5168.2 | 5208.4 | 5406.6 |
| 30° | 6903.3 | 6966.5 | 6739.6 | 6394.8 | 6067.3 | 5788.6 | 5803.0 | 5745.6 | 5469.8 | 5527.3 | 5645.0 |
| 32.5° | 7368.7 | 7408.9 | 7282.5 | 7093.0 | 6765.4 | 6440.8 | 6323.0 | 6274.2 | 6067.3 | 6093.2 | 5978.3 |
| 35° | 7756.6 | 7834.1 | 7722.1 | 7638.8 | 7544.0 | 7282.5 | 6957.9 | 7115.9 | 6782.7 | 6719.5 | 6420.7 |
| 37.5° | 8112.7 | 8089.8 | 8222.0 | 8135.8 | 8115.6 | 7931.8 | 7575.5 | 7607.2 | 7383.1 | 7368.7 | 7024.0 |
| 40° | 8431.7 | 8437.4 | 8618.4 | 8658.6 | 8578.2 | 8250.6 | 7733.5 | 7983.5 | 8164.5 | 8181.7 | 7739.3 |
| 42.5° | 8695.9 | 8773.5 | 8928.6 | 9253.3 | 9132.6 | 8586.8 | 7897.3 | 8170.2 | 8842.5 | 8948.8 | 8417.2 |
| 45° | 8925.8 | 9083.7 | 9276.3 | 9566.4 | 9497.5 | 9063.7 | 8305.3 | 8555.2 | 9566.4 | 9845.1 | 9055.1 |
| 47.5° | 8940.1 | 9147.0 | 9356.7 | 9787.6 | 9873.8 | 9319.3 | 8727.6 | 9164.2 | 10140.9 | 10442.6 | 9520.4 |
| 50° | 8882.7 | 8991.8 | 9411.3 | 9879.5 | 10074.9 | 9735.9 | 9319.3 | 9675.5 | 10698.3 | 10887.8 | 9756.0 |
| 52.5° | 8201.8 | 8285.2 | 9126.9 | 9965.7 | 10436.8 | 10207.0 | 10103.6 | 10388.1 | 11267.1 | 11407.8 | 9977.2 |
| 55° | 6837.2 | 6822.9 | 7980.6 | 9531.9 | 10603.5 | 10905.2 | 10841.9 | 10942.5 | 11924.9 | 12051.4 | 10031.8 |
| 57.5° | 4676.9 | 4938.3 | 5938.0 | 7937.5 | 9583.6 | 10741.4 | 10807.4 | 10640.8 | 11157.9 | 11206.8 | 8744.8 |
| 60° | 2522.3 | 2631.5 | 3435.9 | 5297.5 | 7296.9 | 8753.4 | 8925.8 | 8624.1 | 8583.9 | 8446.0 | 6242.5 |
| 62.5° | 1002.6 | 1057.2 | 1513.9 | 2622.9 | 3975.9 | 5320.4 | 5691.0 | 5567.4 | 5303.2 | 4941.2 | 3231.9 |
| 65° | 476.8 | 511.4 | 752.7 | 1226.6 | 1763.9 | 2217.8 | 2588.4 | 2703.3 | 1993.8 | 1795.5 | 1065.8 |
| 67.5° | 324.6 | 350.5 | 548.7 | 700.9 | 629.1 | 657.9 | 856.1 | 795.8 | 468.2 | 399.3 | 295.9 |
| 70° | 247.0 | 264.3 | 439.6 | 476.8 | 281.6 | 198.3 | 221.2 | 206.9 | 192.5 | 195.4 | 192.5 |
| 72.5° | 175.2 | 189.6 | 321.7 | 281.6 | 123.6 | 91.9 | 117.8 | 140.8 | 140.8 | 140.8 | 137.9 |
| 75° | 106.3 | 120.7 | 186.7 | 109.2 | 48.9 | 48.9 | 74.7 | 94.8 | 100.5 | 103.4 | 97.6 |
| 77.5° | 54.6 | 69.0 | 63.2 | 31.6 | 31.6 | 37.3 | 54.6 | 66.1 | 71.8 | 71.8 | 69.0 |
| 80° | 11.5 | 11.5 | 11.5 | 17.2 | 31.6 | 40.2 | 54.6 | 60.3 | 69.0 | 69.0 | 63.2 |
| 82.5° | 0.0 | 2.9 | 8.6 | 17.2 | 28.7 | 37.3 | 51.7 | 60.3 | 69.0 | 71.8 | 66.1 |
| 85° | 0.0 | 2.9 | 5.7 | 11.5 | 20.1 | 23.0 | 20.1 | 17.2 | 17.2 | 17.2 | 17.2 |
| 87.5° | 0.0 | 0.0 | 2.9 | 2.9 | 2.9 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 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: P648509

CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 | 4131.1 |
| 2.5° | 4171.3 | 4179.9 | 4165.6 | 4162.7 | 4151.2 | 4185.7 | 4102.4 | 4082.2 | 4133.9 | 4085.1 | 4096.6 |
| 5° | 4225.9 | 4246.0 | 4220.1 | 4177.1 | 4113.8 | 4016.2 | 3932.9 | 3823.7 | 3771.9 | 3734.6 | 3728.9 |
| 7.5° | 4266.1 | 4280.4 | 4254.6 | 4116.7 | 3927.1 | 3680.0 | 3496.2 | 3361.2 | 3254.9 | 3223.3 | 3171.5 |
| 10° | 4429.8 | 4432.7 | 4303.4 | 3998.9 | 3628.3 | 3303.7 | 3022.1 | 2815.4 | 2709.0 | 2642.9 | 2614.3 |
| 12.5° | 4539.1 | 4533.3 | 4271.8 | 3766.2 | 3272.1 | 2841.2 | 2519.5 | 2269.5 | 2171.8 | 2140.3 | 2120.1 |
| 15° | 4676.9 | 4645.3 | 4197.1 | 3527.8 | 2812.5 | 2347.0 | 2056.9 | 1884.5 | 1875.9 | 1855.8 | 1875.9 |
| 17.5° | 4786.1 | 4697.0 | 4088.0 | 3094.0 | 2373.0 | 1933.4 | 1743.8 | 1755.3 | 1778.3 | 1798.4 | 1801.2 |
| 20° | 4964.2 | 4780.3 | 3838.0 | 2714.8 | 1965.0 | 1657.6 | 1654.7 | 1706.5 | 1763.9 | 1786.9 | 1809.8 |
| 22.5° | 5099.2 | 4814.8 | 3570.9 | 2309.7 | 1631.8 | 1545.6 | 1594.4 | 1671.9 | 1715.1 | 1738.0 | 1772.5 |
| 25° | 5148.1 | 4720.0 | 3214.7 | 1904.6 | 1470.9 | 1493.9 | 1568.6 | 1620.3 | 1674.8 | 1700.7 | 1686.3 |
| 27.5° | 5196.8 | 4671.1 | 2789.5 | 1568.6 | 1384.7 | 1459.4 | 1522.5 | 1574.3 | 1591.5 | 1626.0 | 1649.0 |
| 30° | 5314.7 | 4501.7 | 2407.4 | 1355.9 | 1341.6 | 1436.4 | 1482.4 | 1499.6 | 1545.6 | 1565.7 | 1565.7 |
| 32.5° | 5409.4 | 4435.6 | 2002.4 | 1255.4 | 1335.9 | 1447.9 | 1453.6 | 1453.6 | 1459.4 | 1445.0 | 1439.2 |
| 35° | 5604.8 | 4208.6 | 1640.4 | 1195.1 | 1333.0 | 1450.7 | 1465.1 | 1416.3 | 1284.1 | 1232.4 | 1218.0 |
| 37.5° | 5846.1 | 4062.1 | 1373.2 | 1180.7 | 1353.1 | 1485.3 | 1508.2 | 1324.4 | 1152.0 | 1068.7 | 1054.3 |
| 40° | 6139.2 | 3958.7 | 1198.0 | 1175.0 | 1399.1 | 1565.7 | 1496.7 | 1252.6 | 1028.5 | 907.8 | 902.1 |
| 42.5° | 6481.0 | 3863.9 | 1080.1 | 1172.1 | 1456.5 | 1649.0 | 1485.3 | 1192.2 | 902.1 | 821.6 | 833.1 |
| 45° | 6753.9 | 3812.2 | 999.7 | 1152.0 | 1476.6 | 1697.9 | 1493.9 | 1085.9 | 850.3 | 798.7 | 804.4 |
| 47.5° | 6966.5 | 3703.0 | 933.6 | 1117.5 | 1473.8 | 1715.1 | 1416.3 | 1042.8 | 824.5 | 838.8 | 853.2 |
| 50° | 6972.3 | 3556.5 | 850.3 | 1042.8 | 1430.6 | 1683.4 | 1327.3 | 1002.6 | 818.8 | 879.1 | 907.8 |
| 52.5° | 6894.7 | 3349.7 | 761.3 | 936.5 | 1330.1 | 1574.3 | 1246.8 | 985.4 | 792.9 | 787.1 | 821.6 |
| 55° | 6618.9 | 2961.9 | 611.9 | 758.4 | 1123.3 | 1298.5 | 1175.0 | 953.8 | 715.3 | 649.3 | 655.0 |
| 57.5° | 5349.1 | 2123.0 | 451.0 | 542.9 | 795.8 | 950.9 | 1060.0 | 939.4 | 643.5 | 551.5 | 554.4 |
| 60° | 3312.3 | 1203.7 | 330.3 | 370.6 | 491.3 | 577.5 | 859.0 | 873.4 | 574.6 | 465.4 | 459.6 |
| 62.5° | 1700.7 | 594.7 | 255.6 | 261.4 | 301.6 | 339.0 | 588.9 | 732.6 | 520.0 | 442.4 | 442.4 |
| 65° | 568.8 | 293.0 | 224.1 | 201.1 | 201.1 | 209.7 | 356.3 | 508.5 | 439.6 | 370.6 | 370.6 |
| 67.5° | 244.2 | 218.3 | 195.4 | 175.2 | 160.9 | 152.3 | 201.1 | 295.9 | 327.5 | 281.6 | 270.1 |
| 70° | 189.6 | 183.8 | 169.5 | 146.5 | 126.4 | 114.9 | 117.8 | 152.3 | 186.7 | 181.0 | 175.2 |
| 72.5° | 140.8 | 140.8 | 135.0 | 114.9 | 97.6 | 83.3 | 77.6 | 80.4 | 89.0 | 91.9 | 94.8 |
| 75° | 97.6 | 100.5 | 100.5 | 89.0 | 71.8 | 60.3 | 51.7 | 43.1 | 34.5 | 28.7 | 25.8 |
| 77.5° | 66.1 | 69.0 | 74.7 | 66.1 | 54.6 | 40.2 | 31.6 | 23.0 | 14.3 | 5.7 | 5.7 |
| 80° | 57.5 | 66.1 | 71.8 | 66.1 | 57.5 | 43.1 | 31.6 | 17.2 | 8.6 | 0.0 | 0.0 |
| 82.5° | 60.3 | 66.1 | 74.7 | 63.2 | 54.6 | 40.2 | 31.6 | 20.1 | 8.6 | 2.9 | 0.0 |
| 85° | 14.3 | 14.3 | 17.2 | 20.1 | 25.8 | 28.7 | 23.0 | 14.3 | 8.6 | 2.9 | 0.0 |
| 87.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 2.9 | 2.9 | 2.9 | 2.9 | 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)