

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: P531484

Luminaire Tested: **GALN-SA6D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36152 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

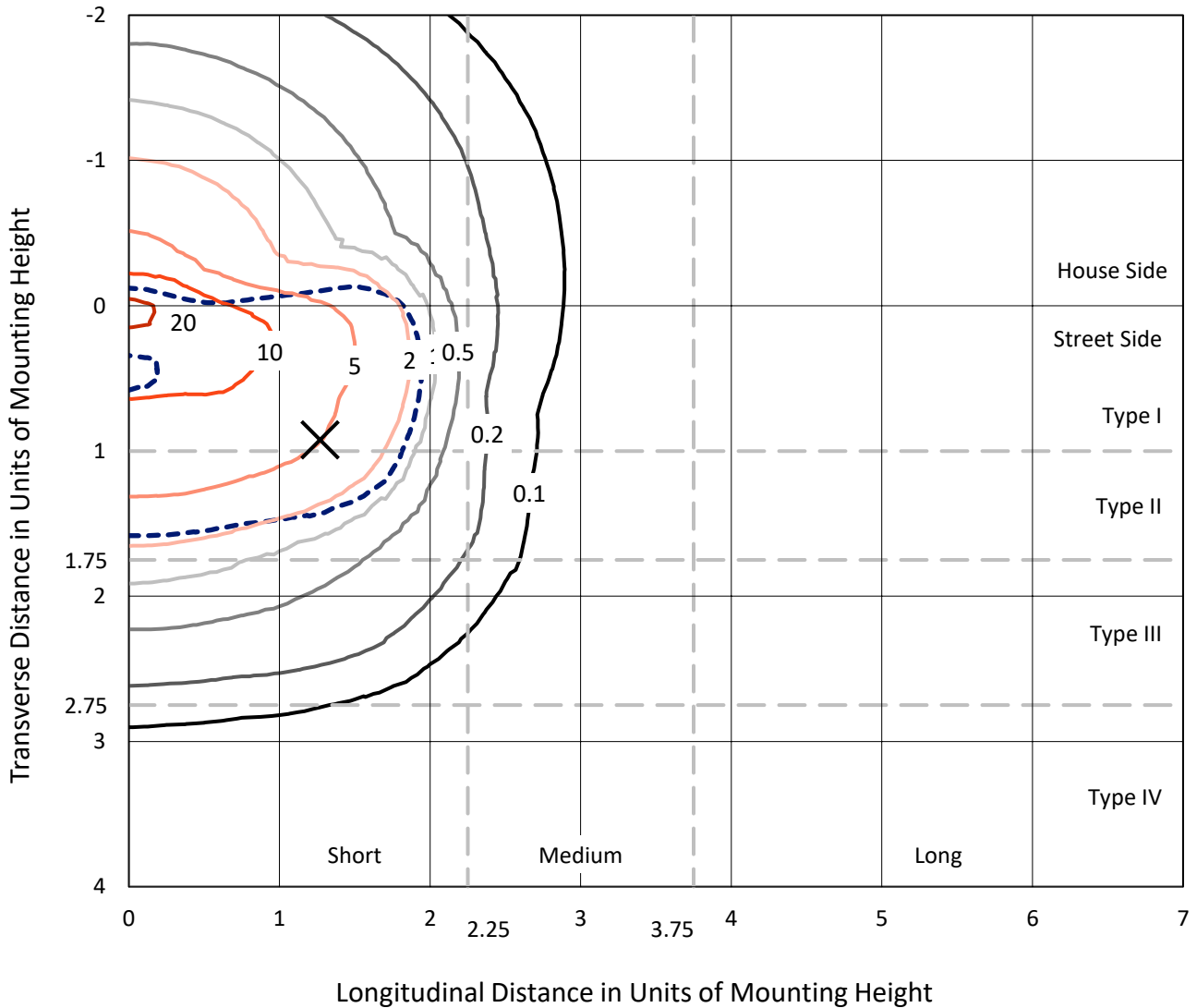
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531484
 CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

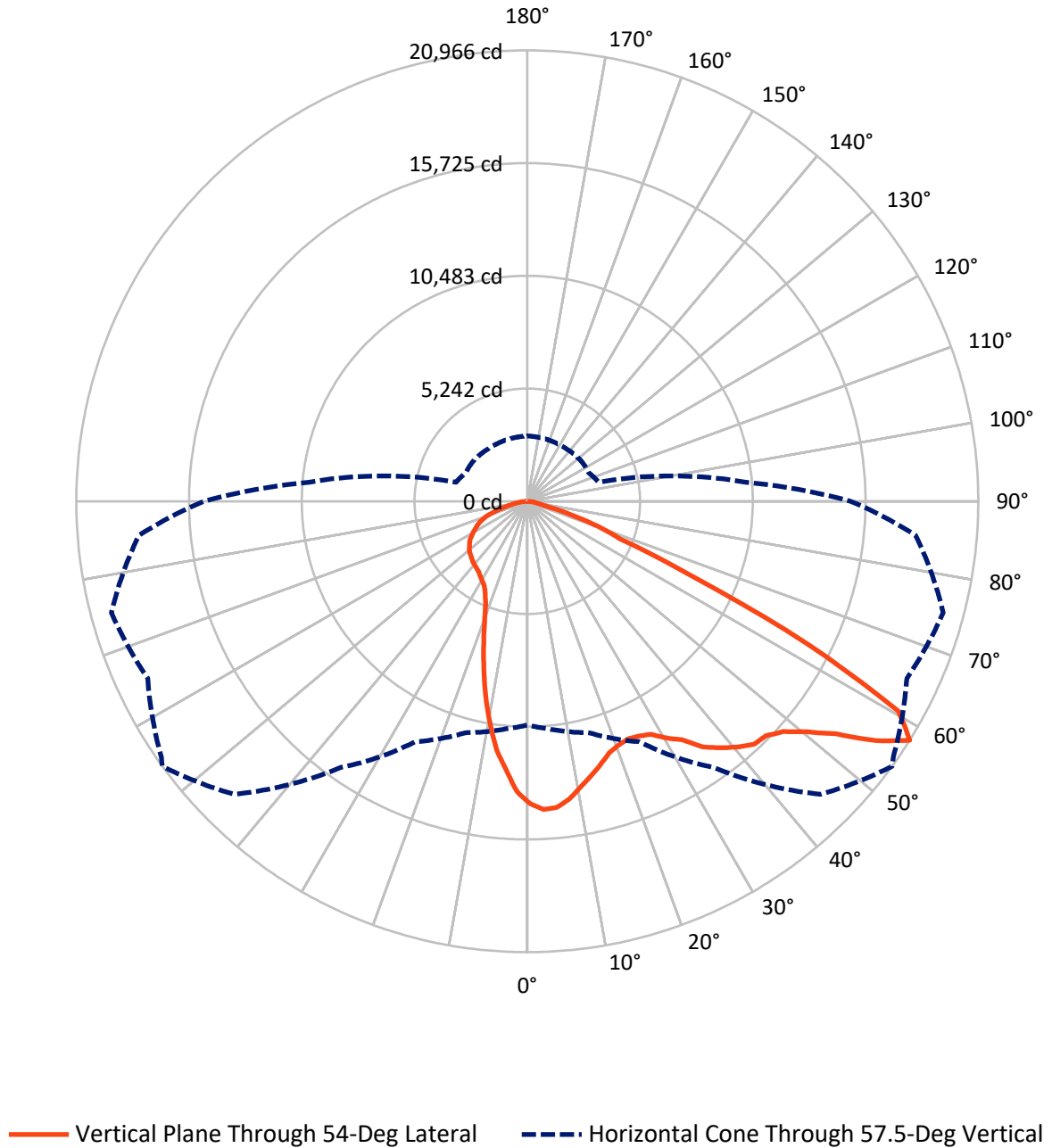
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Short - N/A

REPORT NUMBER: P531484
CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531484
 CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

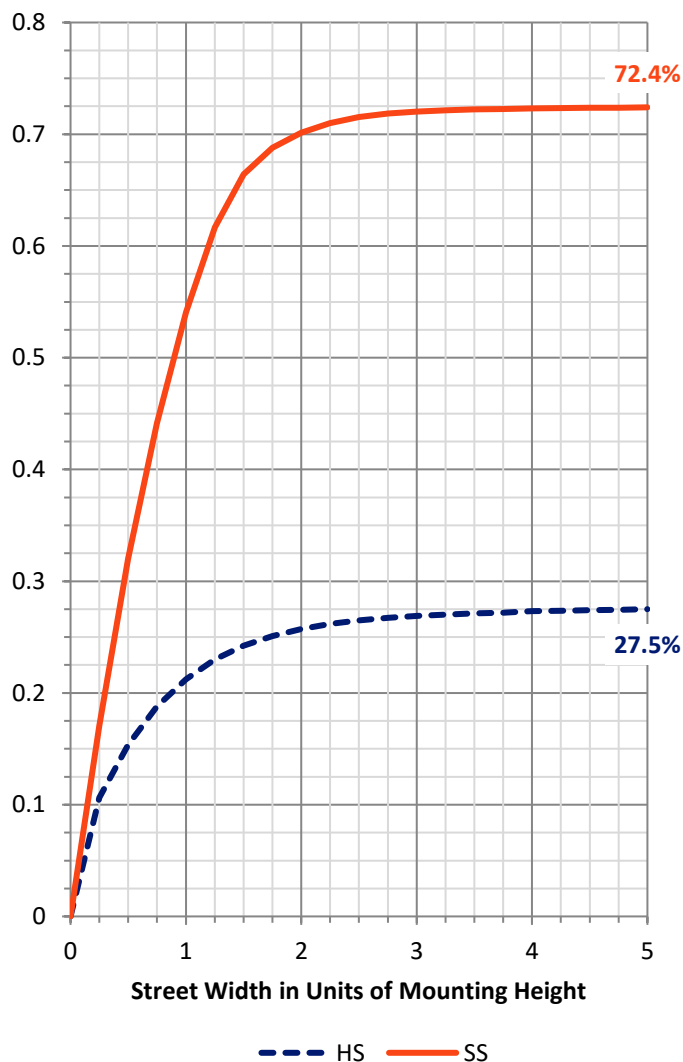
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10001.6 | 0.0 | 10001.6 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 26150.3 | 0.0 | 26150.3 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 36152.0 | 0.0 | 36152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1211.8 | 3.4 |
| 10°-20° | 2805.8 | 7.8 |
| 20°-30° | 3942.2 | 10.9 |
| 30°-40° | 5511.3 | 15.2 |
| 40°-50° | 7461.2 | 20.6 |
| 50°-60° | 9088.1 | 25.1 |
| 60°-70° | 4733.5 | 13.1 |
| 70°-80° | 1212.9 | 3.4 |
| 80°-90° | 185.0 | 0.5 |
| 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° | 36152.0 | 100.0 |
| 0°-180° | 36152.0 | 100.0 |



REPORT NUMBER: P531484

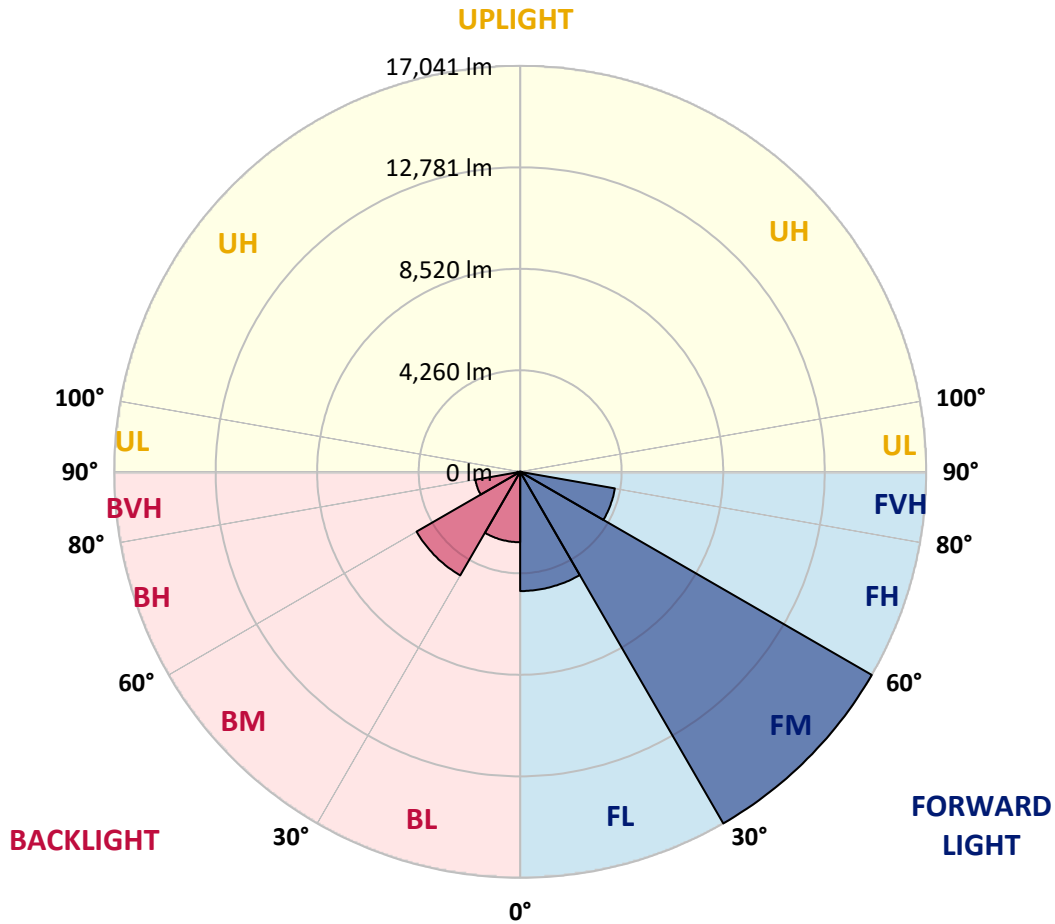
CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5003.9 | 13.8 | | | |
| FM (30°-60°) | 17040.9 | 47.1 | | | |
| FH (60°-80°) | 4035.6 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 69.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2956.0 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 5019.7 | 13.9 | B4/8500 | | |
| BH (60°-80°) | 1910.8 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 115.1 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P531484

CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 |
| 2.5° | 14451.5 | 14395.7 | 14405.0 | 14479.4 | 14386.4 | 14349.3 | 14349.3 | 14168.0 | 14182.0 | 14056.5 | 14024.0 |
| 5° | 14116.9 | 13986.8 | 14075.1 | 14186.6 | 14205.2 | 14242.4 | 14302.8 | 14256.3 | 14126.2 | 13991.5 | 13773.1 |
| 7.5° | 13243.3 | 13359.5 | 13392.0 | 13471.0 | 13638.3 | 13791.6 | 13982.2 | 13852.1 | 13847.4 | 13712.7 | 13582.5 |
| 10° | 12476.6 | 12406.9 | 12583.5 | 12699.7 | 12978.5 | 13234.0 | 13526.8 | 13512.8 | 13582.5 | 13429.2 | 13206.2 |
| 12.5° | 11714.5 | 11658.8 | 11742.4 | 12007.3 | 12397.6 | 12769.4 | 13117.9 | 12987.8 | 13359.5 | 13331.6 | 12853.0 |
| 15° | 10906.0 | 10947.8 | 11068.6 | 11314.9 | 11826.1 | 12272.2 | 12713.6 | 12718.2 | 13048.2 | 13159.7 | 12518.4 |
| 17.5° | 10339.1 | 10292.6 | 10446.0 | 10813.1 | 11268.4 | 11802.8 | 12304.7 | 12406.9 | 12913.4 | 12978.5 | 12416.2 |
| 20° | 9916.2 | 9981.3 | 10181.1 | 10367.0 | 10892.1 | 11538.0 | 12104.9 | 12142.0 | 12885.5 | 13062.1 | 12253.6 |
| 22.5° | 9814.0 | 9776.8 | 9841.9 | 10143.9 | 10576.1 | 11277.7 | 11998.0 | 12137.4 | 12880.9 | 13034.2 | 11946.9 |
| 25° | 9707.1 | 9827.9 | 9823.3 | 10125.3 | 10441.3 | 11068.6 | 12086.3 | 12239.6 | 13127.2 | 13178.3 | 11988.7 |
| 27.5° | 9948.8 | 9934.8 | 10064.9 | 10088.2 | 10478.5 | 11124.4 | 12272.2 | 12388.3 | 13536.1 | 13494.3 | 12021.2 |
| 30° | 10190.4 | 10120.7 | 10199.7 | 10473.8 | 10655.1 | 11445.0 | 12783.3 | 12774.0 | 14065.8 | 14037.9 | 12123.5 |
| 32.5° | 10487.8 | 10455.3 | 10506.4 | 10748.0 | 11054.7 | 11872.5 | 13215.4 | 13489.6 | 14604.8 | 14781.4 | 12476.6 |
| 35° | 10543.5 | 10678.3 | 10799.1 | 11124.4 | 11561.2 | 12564.9 | 14028.6 | 14256.3 | 15227.5 | 15780.5 | 13150.4 |
| 37.5° | 10896.7 | 10947.8 | 11231.3 | 11807.5 | 12207.1 | 13489.6 | 14544.4 | 14688.5 | 15794.4 | 16421.7 | 13861.4 |
| 40° | 11273.1 | 11333.5 | 11761.0 | 12365.1 | 12913.4 | 14093.7 | 15027.7 | 15074.2 | 15975.6 | 16914.3 | 14326.0 |
| 42.5° | 11784.2 | 11840.0 | 12262.9 | 13020.3 | 13754.5 | 14609.5 | 15455.2 | 15506.3 | 15961.7 | 17481.2 | 15064.9 |
| 45° | 12314.0 | 12448.7 | 12945.9 | 13805.6 | 14465.4 | 15213.6 | 15552.8 | 15761.9 | 16091.8 | 17987.7 | 15664.3 |
| 47.5° | 13057.5 | 13182.9 | 13591.8 | 14432.9 | 15204.3 | 15743.3 | 16003.5 | 16208.0 | 16403.1 | 18429.1 | 16050.0 |
| 50° | 13847.4 | 13870.6 | 14367.8 | 15129.9 | 15696.8 | 16342.7 | 16844.6 | 16914.3 | 16812.1 | 18940.3 | 16705.2 |
| 52.5° | 14428.3 | 14502.6 | 14888.3 | 15631.8 | 16477.5 | 17272.1 | 17959.8 | 18034.2 | 17834.3 | 19130.8 | 16928.2 |
| 55° | 13466.4 | 13424.6 | 14051.9 | 15041.6 | 17002.6 | 18656.8 | 19655.9 | 19711.6 | 18577.8 | 19720.9 | 17657.8 |
| 57.5° | 10408.8 | 10608.6 | 11143.0 | 12337.2 | 15106.7 | 19270.2 | 20966.3 | 20766.5 | 19470.0 | 20018.3 | 18122.4 |
| 60° | 7565.0 | 7518.5 | 7876.3 | 8675.5 | 11384.6 | 16607.6 | 19823.2 | 20027.6 | 18740.5 | 18043.5 | 14944.1 |
| 62.5° | 6161.6 | 6096.6 | 6124.5 | 6152.3 | 7346.6 | 11022.2 | 14674.5 | 14669.9 | 14432.9 | 12969.2 | 10078.9 |
| 65° | 4925.6 | 5078.9 | 5092.9 | 5302.0 | 5455.3 | 6584.5 | 8503.6 | 8959.0 | 7801.9 | 6398.6 | 4642.1 |
| 67.5° | 3712.8 | 3657.0 | 3842.9 | 4586.4 | 4874.5 | 4753.7 | 4642.1 | 4693.2 | 3336.4 | 2407.0 | 2267.6 |
| 70° | 2188.6 | 2165.4 | 2388.4 | 3197.0 | 4014.8 | 3777.8 | 3499.0 | 3503.7 | 2290.9 | 1682.1 | 1872.7 |
| 72.5° | 1198.9 | 1194.2 | 1240.7 | 1621.7 | 2281.6 | 2369.9 | 2100.3 | 2165.4 | 1366.2 | 1361.5 | 1463.7 |
| 75° | 669.1 | 655.2 | 641.3 | 715.6 | 822.5 | 868.9 | 887.5 | 896.8 | 938.6 | 1050.2 | 1092.0 |
| 77.5° | 246.3 | 237.0 | 237.0 | 274.2 | 348.5 | 436.8 | 553.0 | 562.3 | 664.5 | 762.1 | 803.9 |
| 80° | 83.6 | 92.9 | 125.5 | 171.9 | 232.3 | 311.3 | 376.4 | 385.7 | 469.3 | 534.4 | 548.3 |
| 82.5° | 51.1 | 55.8 | 83.6 | 120.8 | 167.3 | 218.4 | 278.8 | 283.5 | 348.5 | 390.3 | 408.9 |
| 85° | 23.2 | 27.9 | 46.5 | 74.3 | 106.9 | 144.1 | 148.7 | 148.7 | 144.1 | 148.7 | 139.4 |
| 87.5° | 0.0 | 0.0 | 9.3 | 9.3 | 9.3 | 13.9 | 18.6 | 13.9 | 23.2 | 27.9 | 27.9 |
| 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: P531484

CATALOG NUMBER: GALN-SA6D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 | 14051.9 |
| 2.5° | 13926.4 | 13875.3 | 13717.3 | 13577.9 | 13536.1 | 13350.2 | 13076.0 | 13108.6 | 12908.8 | 13001.7 | 12904.1 |
| 5° | 13735.9 | 13564.0 | 13159.7 | 12987.8 | 12537.0 | 12332.6 | 12193.2 | 11844.6 | 11682.0 | 11649.5 | 11510.1 |
| 7.5° | 13248.0 | 13141.1 | 12634.6 | 12169.9 | 11691.3 | 11282.4 | 10757.3 | 10399.5 | 10143.9 | 10074.2 | 9869.8 |
| 10° | 12862.3 | 12625.3 | 11923.6 | 11217.3 | 10534.3 | 9823.3 | 9140.2 | 8605.8 | 8345.6 | 8043.6 | 7941.4 |
| 12.5° | 12481.3 | 12123.5 | 11175.5 | 10269.4 | 9386.5 | 8489.7 | 7662.5 | 7012.0 | 6445.1 | 6310.3 | 6263.9 |
| 15° | 12244.3 | 11621.6 | 10506.4 | 9414.4 | 8159.7 | 6988.8 | 6161.6 | 5734.1 | 5385.6 | 5241.6 | 5343.8 |
| 17.5° | 11932.9 | 11208.0 | 9865.1 | 8410.7 | 7030.6 | 5952.5 | 5260.2 | 4995.3 | 4869.8 | 4883.8 | 4841.9 |
| 20° | 11542.6 | 10817.7 | 9024.1 | 7499.9 | 6022.2 | 5162.6 | 4767.6 | 4670.0 | 4688.6 | 4721.1 | 4707.2 |
| 22.5° | 11263.8 | 10343.7 | 8415.3 | 6570.5 | 5204.4 | 4725.8 | 4563.1 | 4493.4 | 4553.8 | 4581.7 | 4558.5 |
| 25° | 11050.0 | 9939.5 | 7676.5 | 5748.1 | 4730.4 | 4479.5 | 4405.1 | 4400.5 | 4493.4 | 4530.6 | 4507.4 |
| 27.5° | 10854.9 | 9563.1 | 6942.3 | 5120.8 | 4414.4 | 4289.0 | 4265.7 | 4321.5 | 4381.9 | 4419.1 | 4451.6 |
| 30° | 10738.7 | 9275.0 | 6254.6 | 4595.7 | 4256.5 | 4196.0 | 4154.2 | 4205.3 | 4237.9 | 4275.0 | 4256.5 |
| 32.5° | 10850.2 | 9070.5 | 5590.1 | 4298.3 | 4126.3 | 4065.9 | 4121.7 | 4089.2 | 4144.9 | 4177.5 | 4126.3 |
| 35° | 11198.7 | 8889.3 | 5116.1 | 4140.3 | 3977.6 | 4000.9 | 4010.2 | 3996.2 | 4019.5 | 3991.6 | 4052.0 |
| 37.5° | 11542.6 | 8824.2 | 4679.3 | 4005.5 | 3907.9 | 3907.9 | 3898.6 | 3870.8 | 3917.2 | 3907.9 | 3935.8 |
| 40° | 11979.4 | 8866.1 | 4307.6 | 3861.5 | 3842.9 | 3833.6 | 3796.4 | 3791.8 | 3773.2 | 3777.8 | 3787.1 |
| 42.5° | 12360.4 | 8959.0 | 4093.8 | 3768.5 | 3782.5 | 3801.1 | 3731.4 | 3675.6 | 3698.8 | 3652.4 | 3652.4 |
| 45° | 12764.7 | 9042.6 | 3903.3 | 3703.5 | 3689.5 | 3684.9 | 3629.1 | 3596.6 | 3578.0 | 3582.7 | 3624.5 |
| 47.5° | 13401.3 | 9163.5 | 3759.2 | 3615.2 | 3624.5 | 3554.8 | 3540.8 | 3499.0 | 3517.6 | 3545.5 | 3550.1 |
| 50° | 13852.1 | 9419.0 | 3647.7 | 3513.0 | 3545.5 | 3499.0 | 3415.4 | 3396.8 | 3396.8 | 3443.3 | 3434.0 |
| 52.5° | 14168.0 | 9776.8 | 3540.8 | 3401.4 | 3415.4 | 3378.2 | 3350.3 | 3308.5 | 3280.6 | 3345.7 | 3378.2 |
| 55° | 15134.6 | 10371.6 | 3513.0 | 3308.5 | 3303.9 | 3266.7 | 3215.6 | 3173.8 | 3159.8 | 3169.1 | 3234.2 |
| 57.5° | 15041.6 | 10185.7 | 3424.7 | 3145.9 | 3136.6 | 3085.5 | 3034.3 | 3020.4 | 3015.8 | 3025.1 | 3043.6 |
| 60° | 12211.7 | 7523.1 | 3057.6 | 2960.0 | 2946.1 | 2936.8 | 2885.7 | 2829.9 | 2802.0 | 2829.9 | 2806.7 |
| 62.5° | 8080.8 | 5037.1 | 2695.1 | 2737.0 | 2746.2 | 2723.0 | 2639.4 | 2583.6 | 2592.9 | 2625.4 | 2574.3 |
| 65° | 3968.4 | 2960.0 | 2444.2 | 2555.7 | 2565.0 | 2500.0 | 2421.0 | 2355.9 | 2323.4 | 2351.3 | 2328.0 |
| 67.5° | 2267.6 | 2263.0 | 2239.7 | 2355.9 | 2351.3 | 2286.2 | 2160.8 | 2105.0 | 2049.2 | 2058.5 | 2044.6 |
| 70° | 1923.8 | 1960.9 | 2007.4 | 2077.1 | 2072.5 | 1998.1 | 1849.4 | 1807.6 | 1728.6 | 1719.3 | 1696.1 |
| 72.5° | 1514.9 | 1579.9 | 1682.1 | 1733.2 | 1691.4 | 1598.5 | 1500.9 | 1431.2 | 1361.5 | 1319.7 | 1333.6 |
| 75° | 1124.5 | 1217.5 | 1273.2 | 1305.7 | 1240.7 | 1189.6 | 1110.6 | 1026.9 | 943.3 | 906.1 | 892.2 |
| 77.5° | 817.8 | 845.7 | 896.8 | 920.1 | 878.2 | 827.1 | 780.7 | 697.0 | 618.0 | 566.9 | 553.0 |
| 80° | 571.6 | 590.1 | 627.3 | 627.3 | 627.3 | 604.1 | 543.7 | 460.0 | 408.9 | 362.4 | 353.2 |
| 82.5° | 399.6 | 418.2 | 455.4 | 436.8 | 432.2 | 404.3 | 367.1 | 302.0 | 246.3 | 213.8 | 204.5 |
| 85° | 139.4 | 153.3 | 185.9 | 223.0 | 237.0 | 232.3 | 209.1 | 167.3 | 130.1 | 106.9 | 97.6 |
| 87.5° | 32.5 | 32.5 | 37.2 | 32.5 | 32.5 | 37.2 | 32.5 | 32.5 | 32.5 | 23.2 | 18.6 |
| 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)