

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: P652445

Luminaire Tested: **GALN-SA6B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23474 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

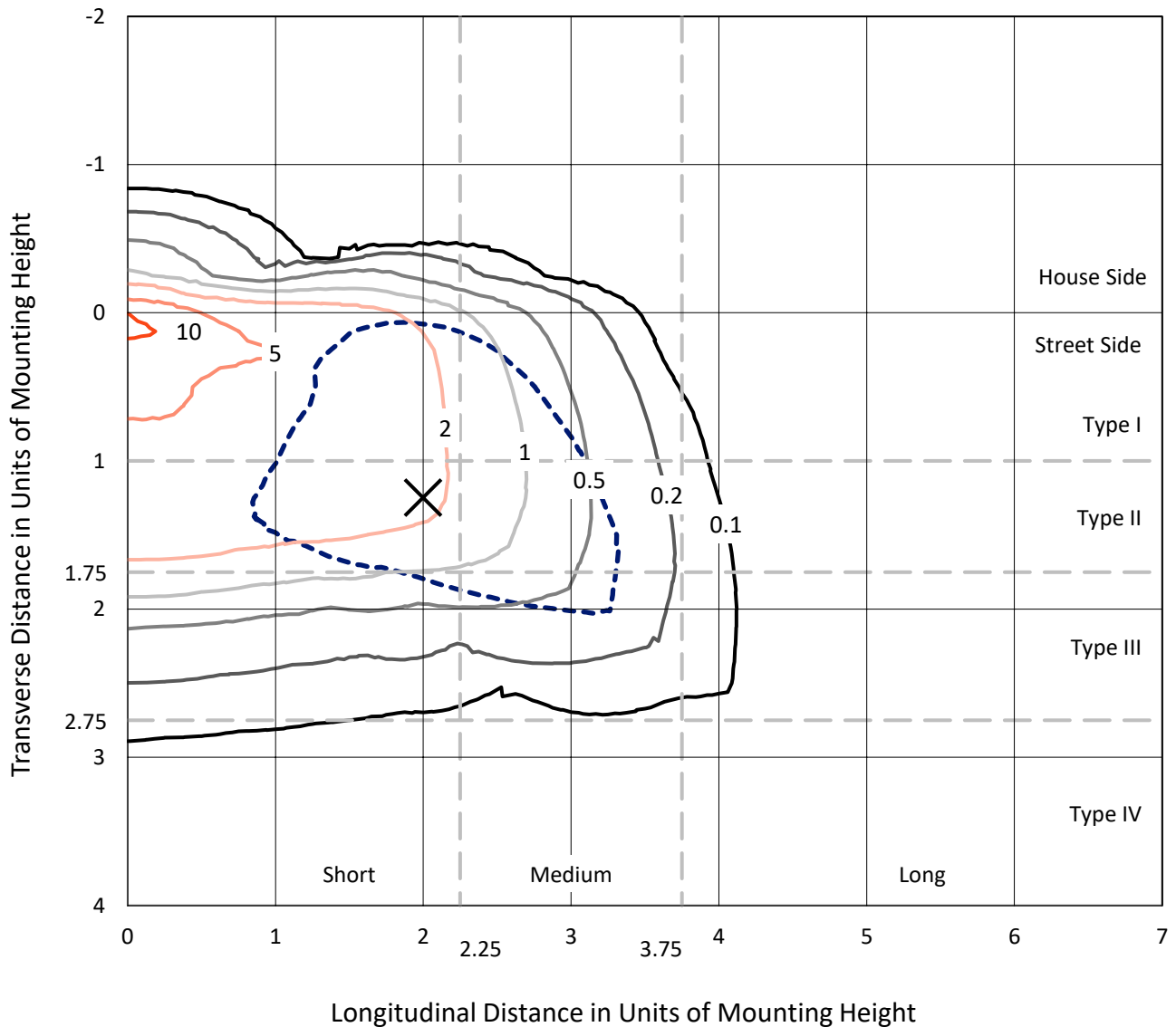
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652445
 CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

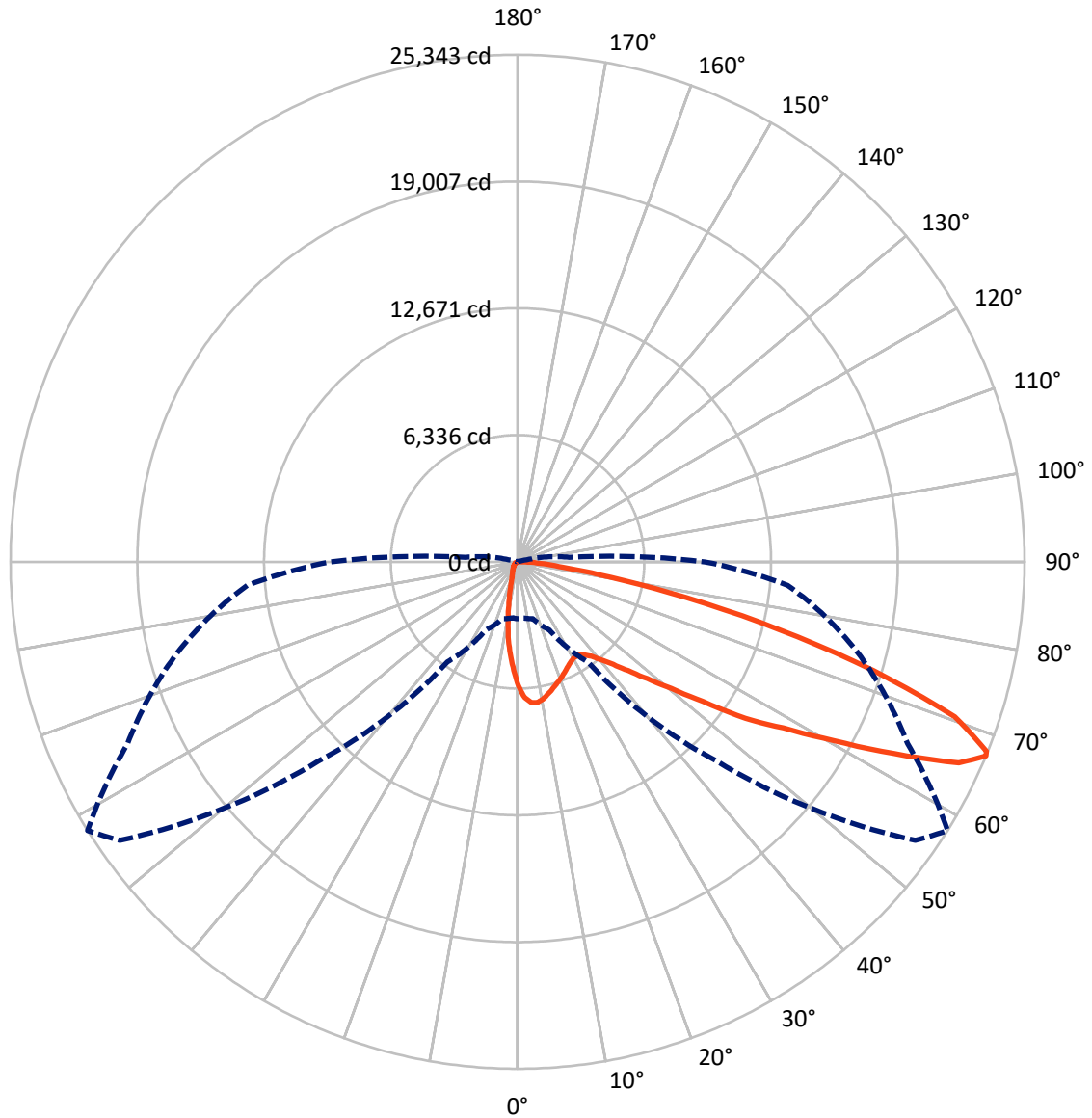
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

REPORT NUMBER: P652445
CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P652445
 CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

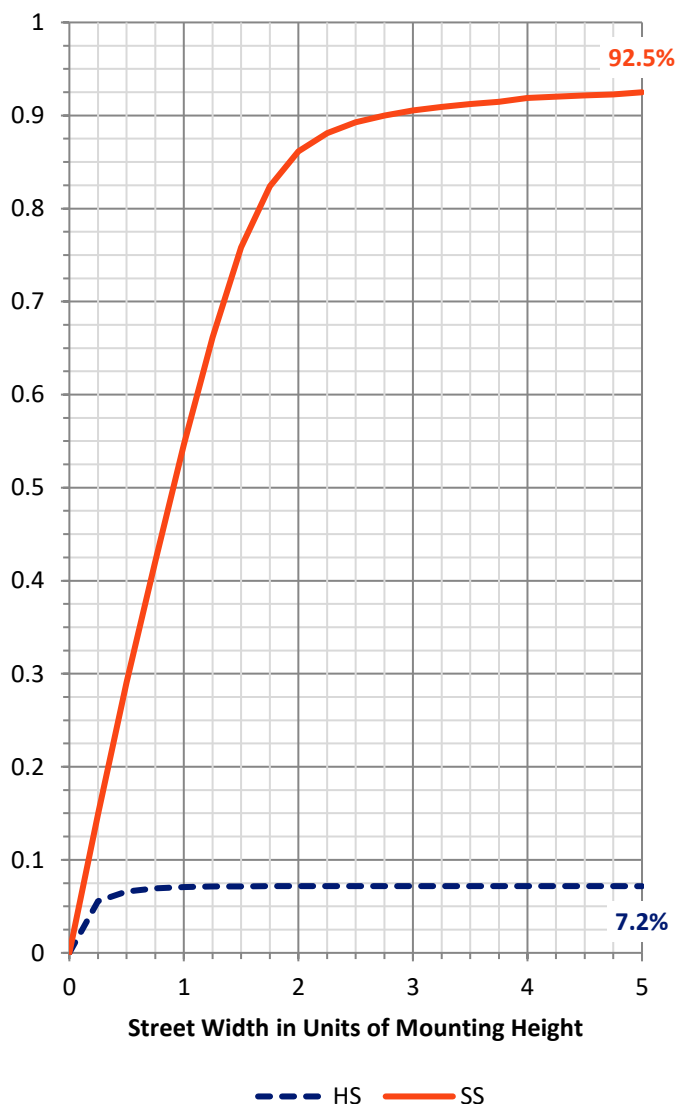
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1694.0 | 0.0 | 1694.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 21780.0 | 0.0 | 21780.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 23474.0 | 0.0 | 23474.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 505.0 | 2.2 |
| 10°-20° | 1090.6 | 4.6 |
| 20°-30° | 1477.8 | 6.3 |
| 30°-40° | 2049.7 | 8.7 |
| 40°-50° | 3269.0 | 13.9 |
| 50°-60° | 5650.7 | 24.1 |
| 60°-70° | 6454.9 | 27.5 |
| 70°-80° | 2691.1 | 11.5 |
| 80°-90° | 285.3 | 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° | 23474.0 | 100.0 |
| 0°-180° | 23474.0 | 100.0 |

Coefficient of Utilization

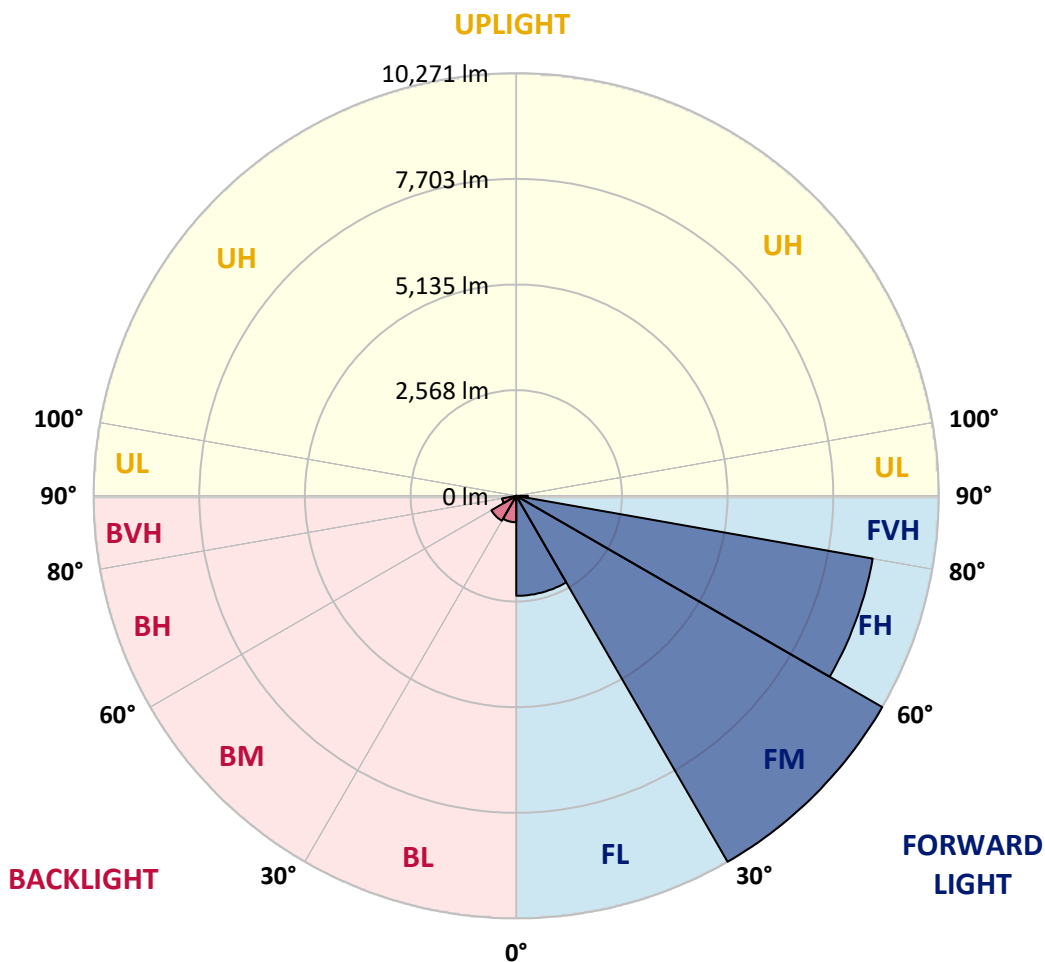


REPORT NUMBER: P652445
 CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2430.1 | 10.4 | | | |
| FM (30°-60°) | 10270.9 | 43.8 | | | |
| FH (60°-80°) | 8795.7 | 37.5 | | | G4/12000 |
| FVH (80°-90°) | 283.3 | 1.2 | | | G3/500 |
| BL (0°-30°) | 643.3 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 698.5 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 350.2 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 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: P652445

CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 |
| 2.5° | 7221.9 | 7232.9 | 7192.1 | 7159.2 | 7074.5 | 6983.5 | 6862.7 | 6798.4 | 6688.6 | 6498.8 | 6288.7 |
| 5° | 7391.4 | 7405.5 | 7399.2 | 7391.4 | 7358.4 | 7270.6 | 7116.9 | 7060.4 | 6898.8 | 6589.8 | 6210.2 |
| 7.5° | 7014.9 | 7066.7 | 7072.9 | 7134.1 | 7192.1 | 7200.0 | 7141.9 | 7099.6 | 6950.6 | 6588.2 | 6070.6 |
| 10° | 6516.1 | 6550.5 | 6600.8 | 6671.4 | 6811.0 | 6927.1 | 6983.5 | 6977.3 | 6891.0 | 6539.6 | 5907.4 |
| 12.5° | 6012.6 | 6031.4 | 6108.3 | 6229.0 | 6400.0 | 6597.6 | 6748.3 | 6778.0 | 6779.6 | 6481.6 | 5770.9 |
| 15° | 5579.6 | 5571.8 | 5631.3 | 5770.9 | 6011.0 | 6258.8 | 6528.6 | 6575.7 | 6651.0 | 6425.1 | 5644.0 |
| 17.5° | 5209.4 | 5250.2 | 5259.6 | 5413.3 | 5634.5 | 5956.0 | 6299.6 | 6382.8 | 6533.3 | 6376.5 | 5538.8 |
| 20° | 4980.4 | 5002.4 | 5022.7 | 5109.0 | 5308.2 | 5647.1 | 6084.7 | 6199.2 | 6423.6 | 6332.6 | 5421.2 |
| 22.5° | 4913.0 | 4927.1 | 4909.8 | 4936.5 | 5077.6 | 5378.8 | 5851.0 | 6003.1 | 6318.4 | 6291.8 | 5325.5 |
| 25° | 4964.7 | 4978.8 | 4938.0 | 4906.6 | 4955.3 | 5160.8 | 5625.1 | 5810.2 | 6233.7 | 6284.0 | 5253.3 |
| 27.5° | 5090.2 | 5116.9 | 5060.4 | 5004.0 | 4975.7 | 5043.1 | 5447.8 | 5662.7 | 6175.7 | 6321.5 | 5220.4 |
| 30° | 5286.3 | 5301.9 | 5259.6 | 5190.6 | 5126.2 | 5058.8 | 5355.3 | 5560.8 | 6160.0 | 6409.4 | 5217.2 |
| 32.5° | 5499.6 | 5532.5 | 5509.1 | 5463.6 | 5380.4 | 5220.4 | 5382.0 | 5563.9 | 6197.7 | 6536.5 | 5256.5 |
| 35° | 5763.1 | 5800.8 | 5822.7 | 5813.3 | 5706.7 | 5507.5 | 5551.4 | 5705.1 | 6298.0 | 6770.2 | 5363.1 |
| 37.5° | 6022.0 | 6054.9 | 6178.8 | 6221.1 | 6127.0 | 5938.8 | 5880.8 | 5982.7 | 6519.2 | 7076.1 | 5556.1 |
| 40° | 6318.4 | 6362.3 | 6536.5 | 6698.1 | 6652.6 | 6454.9 | 6348.2 | 6433.0 | 6858.0 | 7537.2 | 5921.6 |
| 42.5° | 6602.4 | 6680.8 | 6945.9 | 7231.3 | 7273.7 | 7052.5 | 6982.0 | 7010.2 | 7360.0 | 8200.8 | 6431.4 |
| 45° | 7005.4 | 7079.2 | 7421.2 | 7808.6 | 8007.8 | 7835.3 | 7763.1 | 7758.4 | 8048.6 | 9134.1 | 7258.0 |
| 47.5° | 7587.4 | 7653.4 | 8056.4 | 8439.2 | 8793.7 | 8817.2 | 8680.8 | 8727.8 | 8914.5 | 10225.9 | 8271.4 |
| 50° | 8301.2 | 8456.4 | 8721.6 | 9120.0 | 9593.7 | 9976.4 | 10018.8 | 9956.1 | 10116.1 | 11490.2 | 9488.6 |
| 52.5° | 9338.0 | 9397.7 | 9640.8 | 9968.6 | 10523.9 | 11173.4 | 11676.9 | 11590.6 | 11540.4 | 12694.9 | 10718.5 |
| 55° | 10111.3 | 10191.3 | 10569.4 | 11019.6 | 11833.7 | 12690.2 | 13782.0 | 13811.7 | 13178.0 | 13852.5 | 11921.6 |
| 57.5° | 9877.6 | 10000.0 | 10572.5 | 11477.6 | 13267.4 | 14833.0 | 15645.5 | 15665.9 | 14693.3 | 14977.2 | 13280.0 |
| 60° | 8677.6 | 8735.7 | 9556.0 | 10763.9 | 13389.8 | 17154.5 | 18288.6 | 18123.9 | 16235.3 | 16235.3 | 14480.0 |
| 62.5° | 6153.7 | 6244.7 | 6909.8 | 8687.0 | 12092.6 | 17960.7 | 21454.1 | 21113.7 | 18359.2 | 17438.4 | 15195.3 |
| 65° | 3932.5 | 3844.7 | 4285.5 | 5483.9 | 9008.6 | 16770.2 | 24210.2 | 24230.6 | 20357.7 | 17919.9 | 14804.7 |
| 67° | 2848.6 | 2814.2 | 2941.1 | 3749.0 | 6108.3 | 14097.3 | 24268.2 | 25342.7 | 21505.9 | 17615.7 | 13556.1 |
| 67.5° | 2605.5 | 2632.2 | 2724.7 | 3382.0 | 5549.8 | 12828.2 | 24004.7 | 25276.8 | 21764.7 | 17432.2 | 13104.3 |
| 70° | 1974.9 | 1929.4 | 2029.8 | 2392.1 | 3327.1 | 8092.5 | 20649.4 | 23182.8 | 21443.1 | 15611.0 | 10470.6 |
| 72.5° | 1452.6 | 1447.9 | 1587.5 | 1956.1 | 2561.6 | 4310.5 | 15501.1 | 18588.2 | 17518.5 | 11887.0 | 6592.9 |
| 75° | 980.4 | 1024.3 | 1247.0 | 1634.5 | 2321.6 | 2795.3 | 10567.8 | 13485.5 | 12161.5 | 6749.8 | 2694.9 |
| 77.5° | 558.4 | 561.5 | 803.2 | 1313.0 | 2084.7 | 2249.4 | 6261.9 | 8591.4 | 6437.6 | 2244.7 | 800.0 |
| 80° | 241.5 | 265.1 | 398.5 | 953.7 | 1728.6 | 1992.2 | 3590.6 | 4721.5 | 2603.9 | 475.3 | 258.9 |
| 82.5° | 89.4 | 105.1 | 175.7 | 586.7 | 1261.2 | 1640.8 | 2169.4 | 2254.1 | 883.1 | 167.9 | 161.6 |
| 85° | 0.0 | 3.1 | 64.3 | 274.5 | 657.2 | 732.5 | 1449.4 | 1336.4 | 390.6 | 80.0 | 105.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 28.3 | 86.3 | 272.9 | 450.2 | 502.0 | 94.1 | 28.3 | 25.1 |
| 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: P652445

CATALOG NUMBER: GALN-SA6B-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 | 6222.7 |
| 2.5° | 6175.7 | 6073.7 | 5818.0 | 5562.4 | 5372.6 | 5214.1 | 4975.7 | 4845.5 | 4776.5 | 4674.5 | 4680.8 |
| 5° | 6020.4 | 5813.3 | 5363.1 | 4897.2 | 4520.8 | 4153.7 | 3714.5 | 3537.2 | 3388.2 | 3303.5 | 3247.0 |
| 7.5° | 5789.8 | 5483.9 | 4817.2 | 4196.1 | 3617.2 | 2975.7 | 2494.2 | 2172.6 | 1956.1 | 1876.1 | 1799.2 |
| 10° | 5537.2 | 5130.9 | 4263.5 | 3402.3 | 2599.2 | 1937.2 | 1529.4 | 1234.5 | 1129.4 | 1032.2 | 1041.6 |
| 12.5° | 5303.5 | 4809.4 | 3755.3 | 2685.5 | 1821.2 | 1231.4 | 960.0 | 839.2 | 804.7 | 793.7 | 793.7 |
| 15° | 5112.2 | 4502.0 | 3209.4 | 2018.8 | 1248.6 | 884.7 | 768.6 | 735.7 | 723.2 | 720.0 | 720.0 |
| 17.5° | 4908.2 | 4210.2 | 2716.9 | 1491.8 | 908.2 | 740.4 | 701.1 | 679.2 | 674.5 | 671.4 | 671.4 |
| 20° | 4726.3 | 3916.9 | 2249.4 | 1110.6 | 734.1 | 666.7 | 641.6 | 627.5 | 622.8 | 619.6 | 621.2 |
| 22.5° | 4553.8 | 3656.5 | 1810.2 | 839.2 | 646.3 | 607.0 | 582.0 | 567.8 | 558.4 | 550.6 | 552.1 |
| 25° | 4400.0 | 3405.5 | 1455.7 | 687.1 | 582.0 | 547.5 | 522.3 | 502.0 | 481.6 | 472.1 | 470.6 |
| 27.5° | 4291.8 | 3185.9 | 1134.1 | 588.2 | 523.9 | 486.3 | 454.9 | 429.8 | 403.2 | 389.0 | 385.9 |
| 30° | 4202.3 | 2963.1 | 897.3 | 519.2 | 465.9 | 429.8 | 390.6 | 354.5 | 326.3 | 312.2 | 305.9 |
| 32.5° | 4144.3 | 2751.3 | 707.4 | 462.7 | 417.2 | 373.3 | 329.4 | 293.3 | 262.0 | 247.8 | 244.7 |
| 35° | 4134.9 | 2574.1 | 578.9 | 415.7 | 373.3 | 326.3 | 280.8 | 241.5 | 214.9 | 200.7 | 197.6 |
| 37.5° | 4202.3 | 2437.6 | 484.7 | 378.0 | 337.2 | 285.5 | 235.3 | 199.2 | 175.7 | 164.7 | 163.2 |
| 40° | 4382.7 | 2351.4 | 420.4 | 346.7 | 304.3 | 247.8 | 200.7 | 169.4 | 145.9 | 134.9 | 134.9 |
| 42.5° | 4726.3 | 2354.5 | 378.0 | 316.9 | 271.4 | 211.8 | 171.0 | 141.2 | 120.8 | 111.3 | 108.2 |
| 45° | 5262.7 | 2461.2 | 342.0 | 287.0 | 240.0 | 183.5 | 145.9 | 116.1 | 95.7 | 87.9 | 87.9 |
| 47.5° | 5981.2 | 2673.0 | 310.6 | 257.3 | 211.8 | 156.8 | 124.0 | 94.1 | 76.9 | 69.0 | 69.0 |
| 50° | 6920.8 | 3013.3 | 283.9 | 232.1 | 188.2 | 134.9 | 100.4 | 76.9 | 59.6 | 53.3 | 51.8 |
| 52.5° | 7902.7 | 3433.7 | 252.6 | 210.2 | 161.6 | 114.5 | 81.6 | 59.6 | 45.5 | 40.8 | 39.2 |
| 55° | 8986.7 | 3844.7 | 222.8 | 188.2 | 131.8 | 95.7 | 64.3 | 47.1 | 33.0 | 28.3 | 28.3 |
| 57.5° | 10080.0 | 4247.8 | 186.7 | 156.8 | 103.5 | 70.6 | 50.2 | 34.5 | 22.0 | 17.2 | 17.2 |
| 60° | 11005.5 | 4378.0 | 158.4 | 127.1 | 78.5 | 50.2 | 36.1 | 22.0 | 12.5 | 7.8 | 7.8 |
| 62.5° | 11132.6 | 3938.8 | 133.3 | 97.2 | 56.4 | 34.5 | 18.8 | 12.5 | 4.7 | 3.1 | 3.1 |
| 65° | 10442.4 | 3200.0 | 111.3 | 73.8 | 37.7 | 17.2 | 7.8 | 4.7 | 1.6 | 0.0 | 0.0 |
| 67° | 9356.9 | 2594.5 | 91.0 | 54.9 | 26.7 | 11.0 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9079.2 | 2473.7 | 87.9 | 51.8 | 23.5 | 9.4 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 |
| 70° | 7124.7 | 1852.6 | 62.7 | 31.4 | 14.1 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4428.2 | 1047.8 | 45.5 | 18.8 | 9.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1673.8 | 367.1 | 31.4 | 12.5 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 520.7 | 139.6 | 18.8 | 9.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 175.7 | 53.3 | 12.5 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 108.2 | 22.0 | 7.8 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 67.4 | 9.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.5 | 3.1 | 1.6 | 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)