

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: P646780

Luminaire Tested: **GALN-SA2C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646780
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-SA2C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 9157.2 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

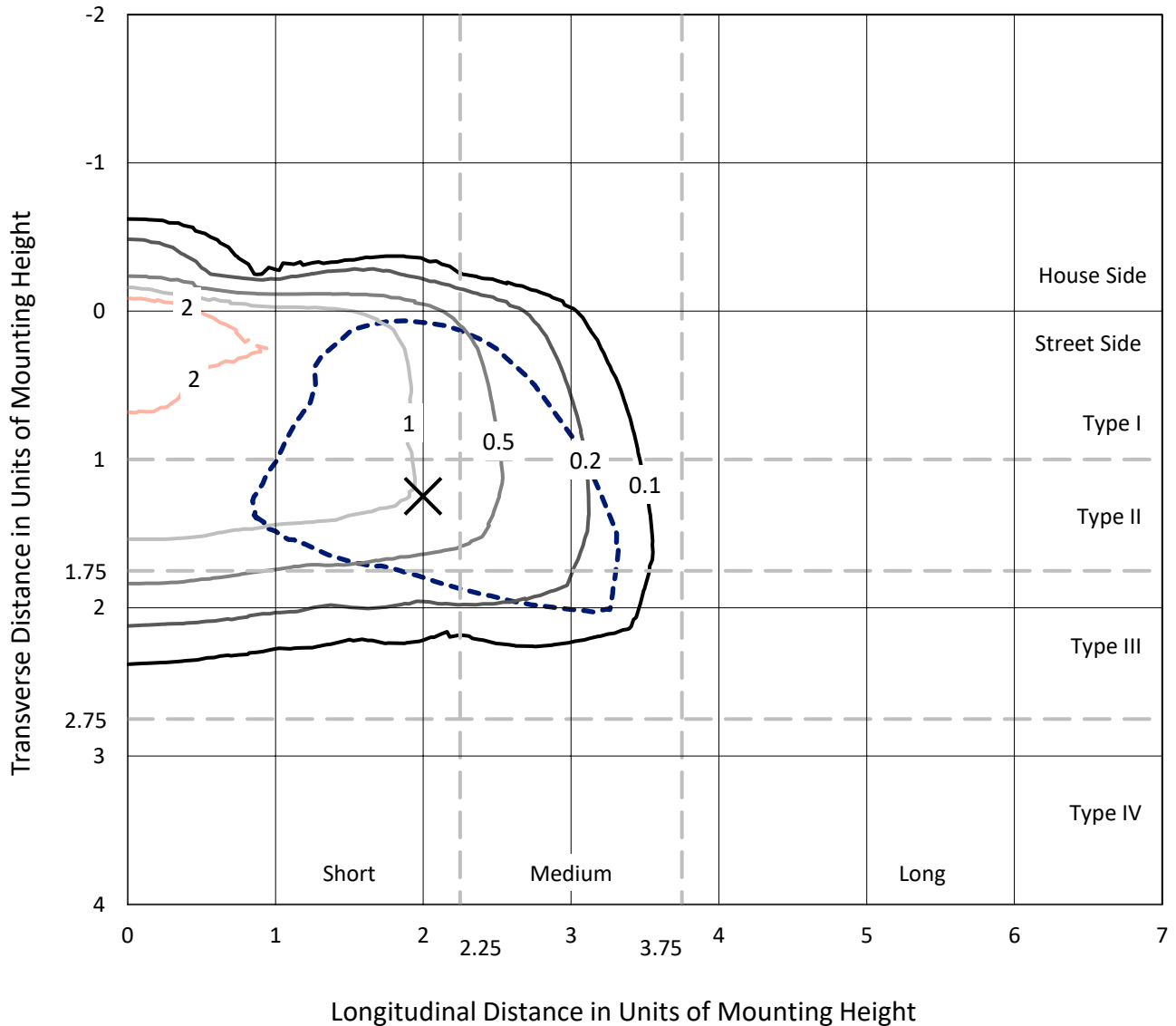
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

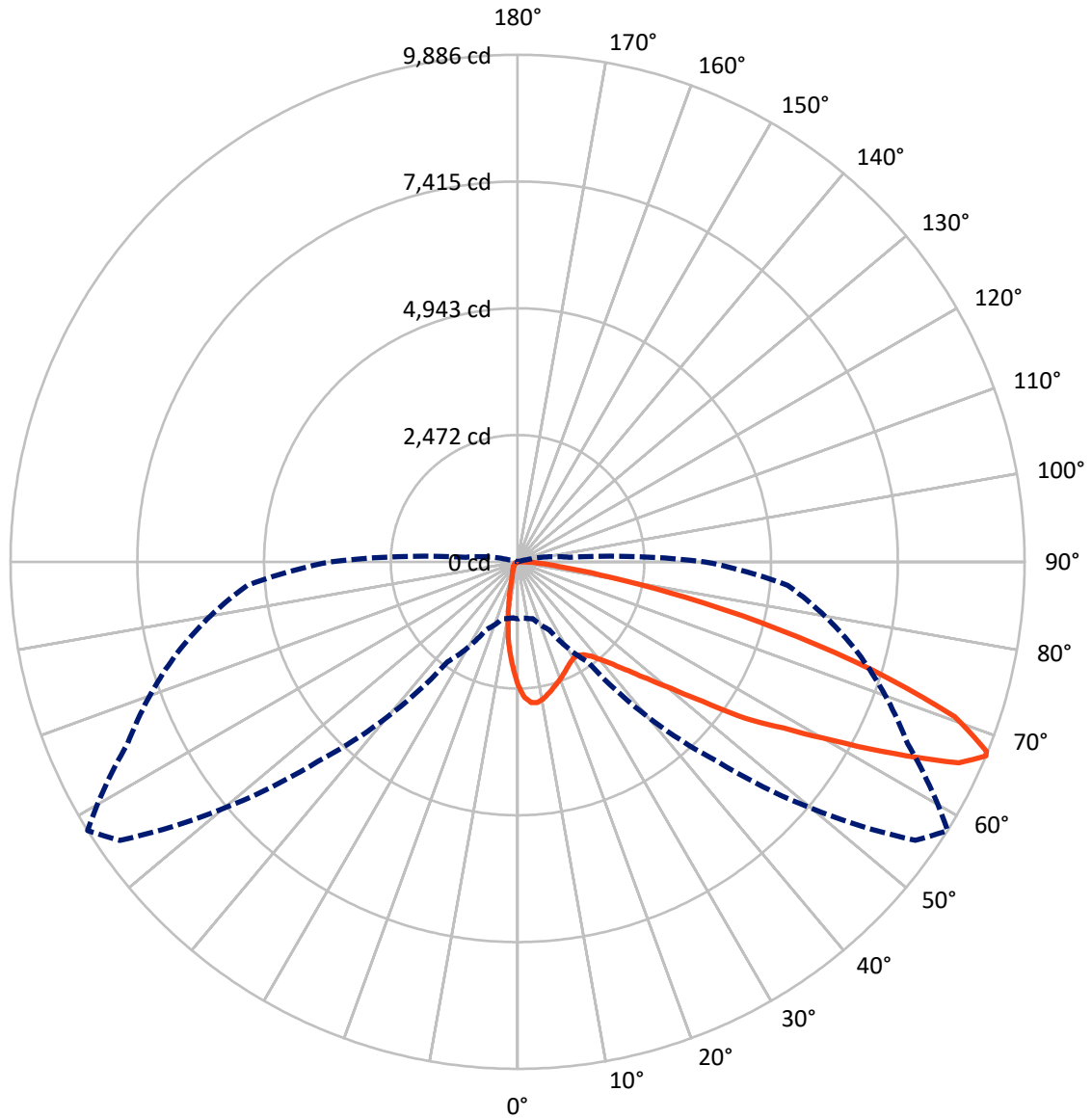
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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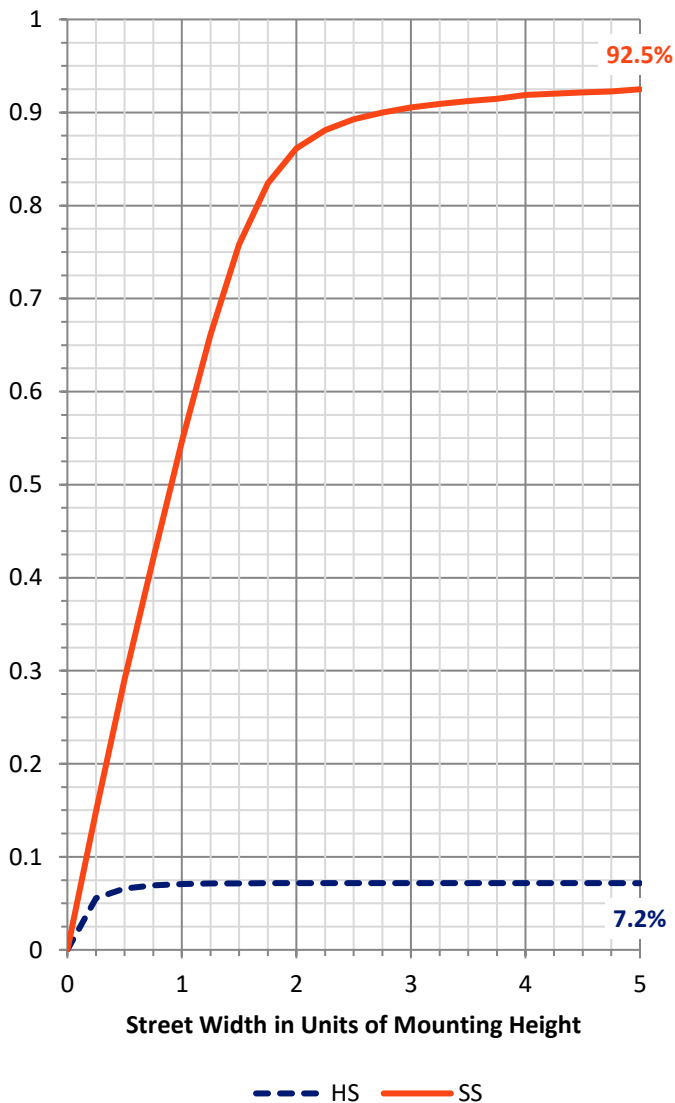
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 660.8 | 0.0 | 660.8 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 8496.4 | 0.0 | 8496.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 9157.2 | 0.0 | 9157.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 197.0 | 2.2 |
| 10°-20° | 425.4 | 4.6 |
| 20°-30° | 576.5 | 6.3 |
| 30°-40° | 799.6 | 8.7 |
| 40°-50° | 1275.2 | 13.9 |
| 50°-60° | 2204.3 | 24.1 |
| 60°-70° | 2518.0 | 27.5 |
| 70°-80° | 1049.8 | 11.5 |
| 80°-90° | 111.3 | 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° | 9157.2 | 100.0 |
| 0°-180° | 9157.2 | 100.0 |

Coefficient of Utilization

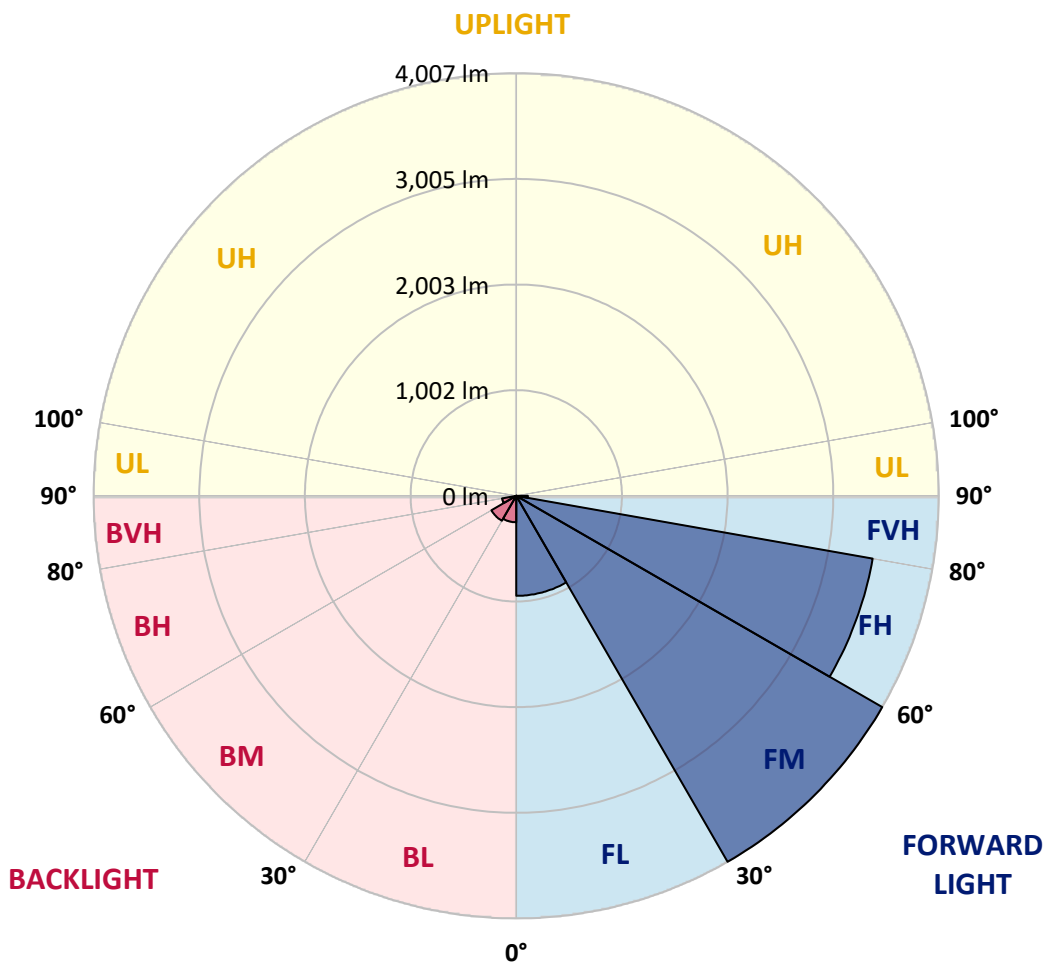


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 948.0 | 10.4 | | | |
| FM (30°-60°) | 4006.6 | 43.8 | | | |
| FH (60°-80°) | 3431.2 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 110.5 | 1.2 | | | G2/225 |
| BL (0°-30°) | 250.9 | 2.7 | B1/500 | | |
| BM (30°-60°) | 272.5 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 136.6 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 |
| 2.5° | 2817.3 | 2821.5 | 2805.6 | 2792.8 | 2759.8 | 2724.3 | 2677.2 | 2652.1 | 2609.2 | 2535.2 | 2453.2 |
| 5° | 2883.4 | 2888.9 | 2886.5 | 2883.4 | 2870.5 | 2836.3 | 2776.3 | 2754.3 | 2691.2 | 2570.7 | 2422.6 |
| 7.5° | 2736.5 | 2756.7 | 2759.1 | 2783.0 | 2805.6 | 2808.7 | 2786.1 | 2769.5 | 2711.5 | 2570.0 | 2368.1 |
| 10° | 2541.9 | 2555.4 | 2575.0 | 2602.5 | 2657.0 | 2702.2 | 2724.3 | 2721.8 | 2688.2 | 2551.1 | 2304.5 |
| 12.5° | 2345.5 | 2352.8 | 2382.8 | 2430.0 | 2496.6 | 2573.7 | 2632.4 | 2644.1 | 2644.7 | 2528.5 | 2251.3 |
| 15° | 2176.6 | 2173.5 | 2196.8 | 2251.3 | 2344.9 | 2441.6 | 2546.8 | 2565.2 | 2594.5 | 2506.5 | 2201.7 |
| 17.5° | 2032.2 | 2048.1 | 2051.8 | 2111.8 | 2198.0 | 2323.5 | 2457.4 | 2489.9 | 2548.7 | 2487.4 | 2160.7 |
| 20° | 1942.9 | 1951.4 | 1959.4 | 1993.0 | 2070.7 | 2202.9 | 2373.7 | 2418.3 | 2505.8 | 2470.3 | 2114.8 |
| 22.5° | 1916.5 | 1922.0 | 1915.3 | 1925.7 | 1980.8 | 2098.3 | 2282.4 | 2341.8 | 2464.8 | 2454.4 | 2077.5 |
| 25° | 1936.8 | 1942.2 | 1926.3 | 1914.1 | 1933.1 | 2013.2 | 2194.4 | 2266.6 | 2431.8 | 2451.3 | 2049.3 |
| 27.5° | 1985.7 | 1996.1 | 1974.0 | 1952.0 | 1941.0 | 1967.3 | 2125.2 | 2209.0 | 2409.1 | 2466.1 | 2036.5 |
| 30° | 2062.2 | 2068.3 | 2051.8 | 2024.8 | 1999.8 | 1973.5 | 2089.1 | 2169.2 | 2403.0 | 2500.3 | 2035.3 |
| 32.5° | 2145.4 | 2158.3 | 2149.1 | 2131.3 | 2098.9 | 2036.5 | 2099.5 | 2170.5 | 2417.7 | 2549.8 | 2050.5 |
| 35° | 2248.2 | 2262.9 | 2271.5 | 2267.8 | 2226.1 | 2148.5 | 2165.6 | 2225.5 | 2456.8 | 2641.1 | 2092.2 |
| 37.5° | 2349.2 | 2362.0 | 2410.4 | 2426.9 | 2390.2 | 2316.7 | 2294.1 | 2333.9 | 2543.1 | 2760.4 | 2167.4 |
| 40° | 2464.8 | 2482.0 | 2549.8 | 2612.9 | 2595.2 | 2518.0 | 2476.5 | 2509.5 | 2675.3 | 2940.2 | 2310.0 |
| 42.5° | 2575.6 | 2606.1 | 2709.6 | 2820.9 | 2837.4 | 2751.2 | 2723.7 | 2734.7 | 2871.1 | 3199.1 | 2508.9 |
| 45° | 2732.8 | 2761.6 | 2895.0 | 3046.1 | 3123.9 | 3056.5 | 3028.4 | 3026.5 | 3139.8 | 3563.2 | 2831.3 |
| 47.5° | 2959.8 | 2985.6 | 3142.8 | 3292.1 | 3430.4 | 3439.6 | 3386.4 | 3404.7 | 3477.5 | 3989.1 | 3226.7 |
| 50° | 3238.3 | 3298.9 | 3402.3 | 3557.7 | 3742.5 | 3891.8 | 3908.3 | 3883.8 | 3946.2 | 4482.3 | 3701.5 |
| 52.5° | 3642.8 | 3666.0 | 3760.8 | 3888.8 | 4105.3 | 4358.7 | 4555.1 | 4521.5 | 4501.9 | 4952.2 | 4181.2 |
| 55° | 3944.4 | 3975.6 | 4123.1 | 4298.7 | 4616.3 | 4950.4 | 5376.3 | 5388.0 | 5140.7 | 5403.9 | 4650.6 |
| 57.5° | 3853.2 | 3901.0 | 4124.4 | 4477.4 | 5175.6 | 5786.3 | 6103.3 | 6111.2 | 5731.9 | 5842.6 | 5180.5 |
| 60° | 3385.1 | 3407.8 | 3727.8 | 4199.0 | 5223.3 | 6692.0 | 7134.4 | 7070.1 | 6333.4 | 6333.4 | 5648.6 |
| 62.5° | 2400.6 | 2436.1 | 2695.5 | 3388.8 | 4717.3 | 7006.5 | 8369.3 | 8236.5 | 7161.9 | 6802.7 | 5927.7 |
| 65° | 1534.1 | 1499.8 | 1671.8 | 2139.2 | 3514.3 | 6542.0 | 9444.4 | 9452.3 | 7941.5 | 6990.5 | 5775.3 |
| 67° | 1111.2 | 1097.8 | 1147.3 | 1462.5 | 2382.8 | 5499.3 | 9467.0 | 9886.2 | 8389.5 | 6871.8 | 5288.2 |
| 67.5° | 1016.4 | 1026.8 | 1062.9 | 1319.3 | 2165.0 | 5004.3 | 9364.2 | 9860.5 | 8490.4 | 6800.3 | 5112.0 |
| 70° | 770.4 | 752.7 | 791.8 | 933.2 | 1297.9 | 3156.9 | 8055.3 | 9043.6 | 8364.9 | 6089.9 | 4084.6 |
| 72.5° | 566.7 | 564.8 | 619.3 | 763.0 | 999.3 | 1681.6 | 6047.0 | 7251.3 | 6833.9 | 4637.2 | 2571.9 |
| 75° | 382.4 | 399.6 | 486.5 | 637.6 | 905.6 | 1090.4 | 4122.5 | 5260.7 | 4744.2 | 2633.1 | 1051.3 |
| 77.5° | 217.8 | 219.1 | 313.3 | 512.2 | 813.2 | 877.5 | 2442.8 | 3351.5 | 2511.3 | 875.6 | 312.1 |
| 80° | 94.3 | 103.4 | 155.4 | 372.1 | 674.3 | 777.1 | 1400.7 | 1841.9 | 1015.8 | 185.4 | 100.9 |
| 82.5° | 34.8 | 41.0 | 68.5 | 228.9 | 492.0 | 640.1 | 846.3 | 879.3 | 344.5 | 65.5 | 63.0 |
| 85° | 0.0 | 1.3 | 25.1 | 107.1 | 256.4 | 285.8 | 565.4 | 521.3 | 152.4 | 31.2 | 41.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 11.0 | 33.7 | 106.5 | 175.6 | 195.8 | 36.7 | 11.0 | 9.8 |
| 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: P646780

CATALOG NUMBER: GALN-SA2C-835-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 |
| 2.5° | 2409.1 | 2369.4 | 2269.6 | 2169.8 | 2095.9 | 2034.0 | 1941.0 | 1890.2 | 1863.3 | 1823.5 | 1826.0 |
| 5° | 2348.5 | 2267.8 | 2092.2 | 1910.4 | 1763.6 | 1620.3 | 1449.0 | 1379.9 | 1321.8 | 1288.7 | 1266.7 |
| 7.5° | 2258.6 | 2139.2 | 1879.2 | 1636.9 | 1411.1 | 1160.8 | 973.0 | 847.5 | 763.0 | 731.9 | 701.9 |
| 10° | 2160.1 | 2001.6 | 1663.2 | 1327.3 | 1014.0 | 755.8 | 596.6 | 481.5 | 440.6 | 402.6 | 406.3 |
| 12.5° | 2068.9 | 1876.1 | 1464.9 | 1047.6 | 710.4 | 480.4 | 374.5 | 327.4 | 313.9 | 309.6 | 309.6 |
| 15° | 1994.2 | 1756.2 | 1252.0 | 787.5 | 487.1 | 345.1 | 299.8 | 287.0 | 282.1 | 280.9 | 280.9 |
| 17.5° | 1914.7 | 1642.4 | 1059.9 | 581.9 | 354.3 | 288.8 | 273.5 | 265.0 | 263.1 | 261.9 | 261.9 |
| 20° | 1843.7 | 1527.9 | 877.5 | 433.2 | 286.3 | 260.0 | 250.2 | 244.8 | 243.0 | 241.7 | 242.3 |
| 22.5° | 1776.4 | 1426.4 | 706.2 | 327.4 | 252.1 | 236.8 | 227.0 | 221.5 | 217.8 | 214.8 | 215.4 |
| 25° | 1716.4 | 1328.5 | 567.8 | 268.0 | 227.0 | 213.5 | 203.7 | 195.8 | 187.8 | 184.2 | 183.6 |
| 27.5° | 1674.2 | 1242.8 | 442.4 | 229.5 | 204.4 | 189.7 | 177.4 | 167.6 | 157.2 | 151.7 | 150.6 |
| 30° | 1639.4 | 1155.9 | 350.0 | 202.6 | 181.7 | 167.6 | 152.4 | 138.3 | 127.3 | 121.8 | 119.3 |
| 32.5° | 1616.7 | 1073.3 | 276.0 | 180.5 | 162.8 | 145.6 | 128.5 | 114.4 | 102.2 | 96.7 | 95.4 |
| 35° | 1613.1 | 1004.2 | 225.8 | 162.2 | 145.6 | 127.3 | 109.5 | 94.3 | 83.9 | 78.3 | 77.1 |
| 37.5° | 1639.4 | 951.0 | 189.1 | 147.4 | 131.5 | 111.3 | 91.8 | 77.8 | 68.5 | 64.3 | 63.7 |
| 40° | 1709.7 | 917.3 | 164.0 | 135.2 | 118.7 | 96.7 | 78.3 | 66.1 | 56.9 | 52.6 | 52.6 |
| 42.5° | 1843.7 | 918.5 | 147.4 | 123.6 | 105.9 | 82.6 | 66.7 | 55.0 | 47.1 | 43.5 | 42.2 |
| 45° | 2053.0 | 960.1 | 133.4 | 112.0 | 93.6 | 71.6 | 56.9 | 45.3 | 37.3 | 34.3 | 34.3 |
| 47.5° | 2333.3 | 1042.7 | 121.1 | 100.4 | 82.6 | 61.2 | 48.3 | 36.7 | 30.0 | 26.9 | 26.9 |
| 50° | 2699.8 | 1175.5 | 110.8 | 90.6 | 73.4 | 52.6 | 39.2 | 30.0 | 23.3 | 20.8 | 20.2 |
| 52.5° | 3082.8 | 1339.5 | 98.5 | 82.0 | 63.0 | 44.6 | 31.8 | 23.3 | 17.8 | 15.9 | 15.3 |
| 55° | 3505.7 | 1499.8 | 86.9 | 73.4 | 51.4 | 37.3 | 25.1 | 18.3 | 12.8 | 11.0 | 11.0 |
| 57.5° | 3932.2 | 1657.1 | 72.8 | 61.2 | 40.4 | 27.6 | 19.6 | 13.5 | 8.5 | 6.7 | 6.7 |
| 60° | 4293.3 | 1707.9 | 61.8 | 49.6 | 30.6 | 19.6 | 14.1 | 8.5 | 4.9 | 3.1 | 3.1 |
| 62.5° | 4342.8 | 1536.6 | 52.0 | 38.0 | 22.0 | 13.5 | 7.4 | 4.9 | 1.8 | 1.3 | 1.3 |
| 65° | 4073.6 | 1248.3 | 43.5 | 28.7 | 14.7 | 6.7 | 3.1 | 1.8 | 0.6 | 0.0 | 0.0 |
| 67° | 3650.1 | 1012.1 | 35.5 | 21.5 | 10.4 | 4.3 | 1.8 | 0.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3541.8 | 965.0 | 34.3 | 20.2 | 9.2 | 3.7 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 |
| 70° | 2779.3 | 722.7 | 24.5 | 12.2 | 5.5 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1727.5 | 408.7 | 17.8 | 7.4 | 3.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 652.9 | 143.2 | 12.2 | 4.9 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 203.2 | 54.5 | 7.4 | 3.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 68.5 | 20.8 | 4.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 42.2 | 8.5 | 3.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 26.3 | 3.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.9 | 1.3 | 0.6 | 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)