

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: P451590

Luminaire Tested: **GALN-SA2C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451590
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-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 9781 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

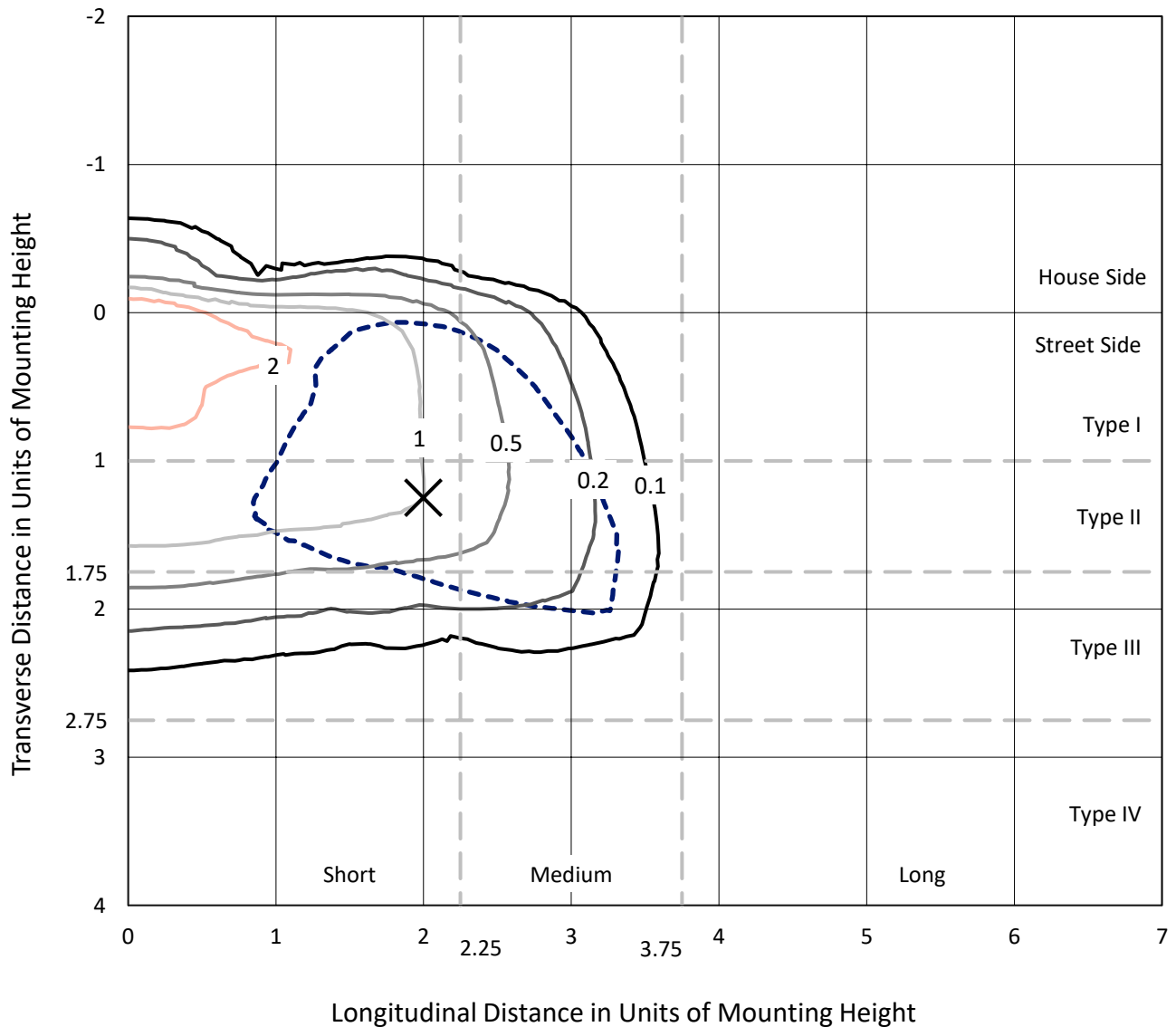
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

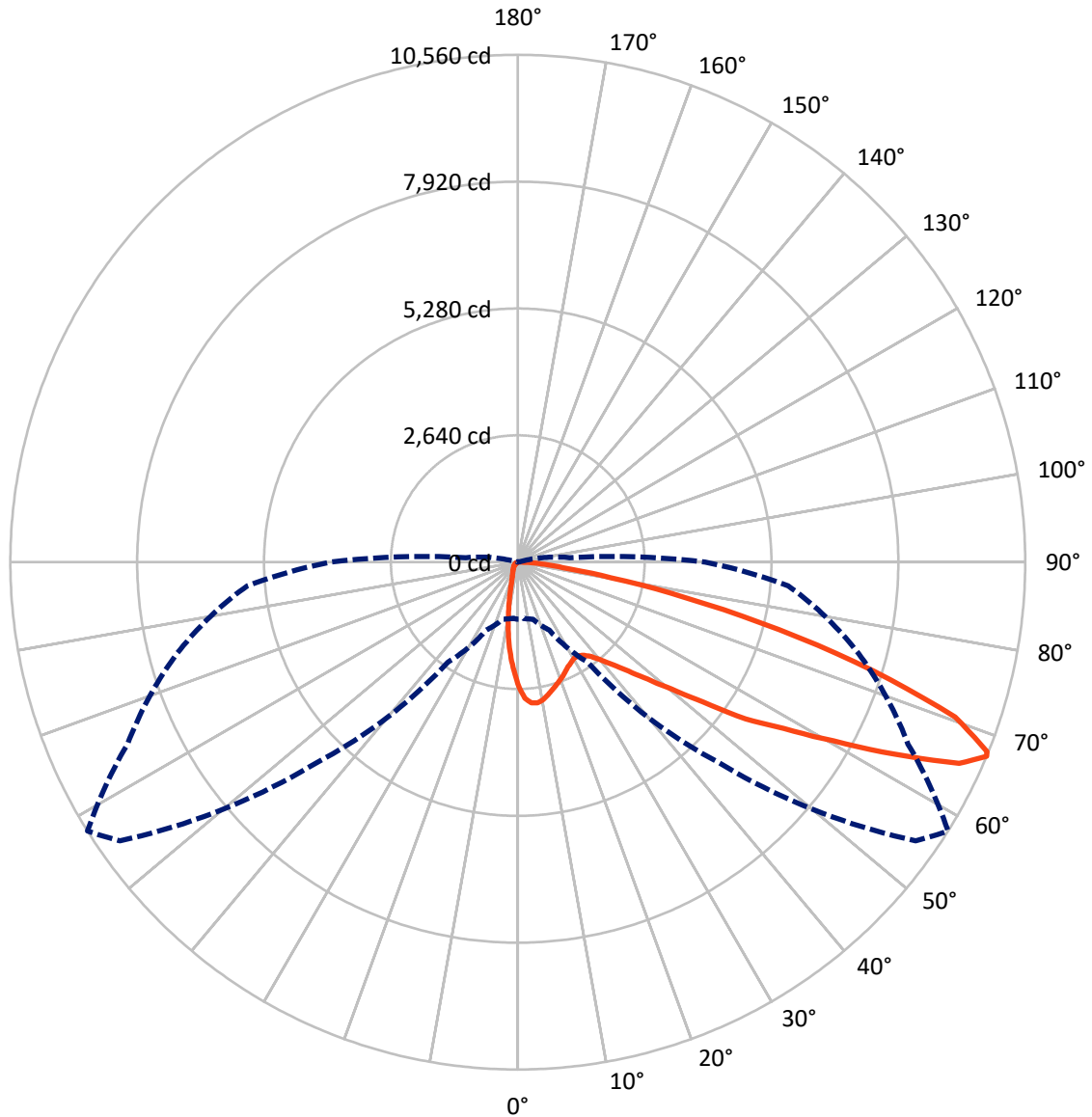
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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 | 705.9 | 0.0 | 705.9 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 9075.1 | 0.0 | 9075.1 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 9781.0 | 0.0 | 9781.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.4 | 2.2 |
| 10°-20° | 454.4 | 4.6 |
| 20°-30° | 615.8 | 6.3 |
| 30°-40° | 854.0 | 8.7 |
| 40°-50° | 1362.1 | 13.9 |
| 50°-60° | 2354.5 | 24.1 |
| 60°-70° | 2689.6 | 27.5 |
| 70°-80° | 1121.3 | 11.5 |
| 80°-90° | 118.9 | 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° | 9781.0 | 100.0 |
| 0°-180° | 9781.0 | 100.0 |

Coefficient of Utilization

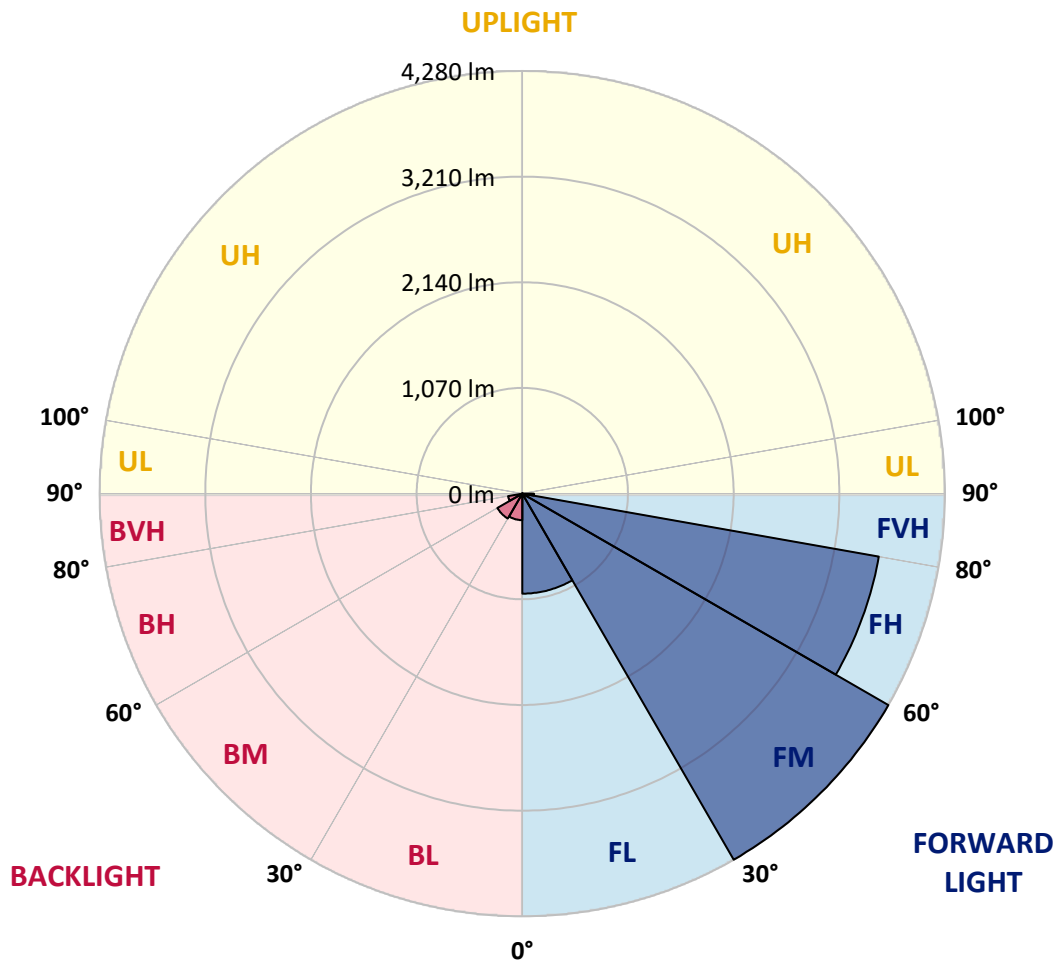


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1012.6 | 10.4 | | | |
| FM (30°-60°) | 4279.6 | 43.8 | | | |
| FH (60°-80°) | 3665.0 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 118.0 | 1.2 | | | G2/225 |
| BL (0°-30°) | 268.0 | 2.7 | B1/500 | | |
| BM (30°-60°) | 291.0 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 145.9 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 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° | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 |
| 2.5° | 3009.2 | 3013.8 | 2996.8 | 2983.1 | 2947.8 | 2909.9 | 2859.5 | 2832.7 | 2787.0 | 2707.9 | 2620.3 |
| 5° | 3079.8 | 3085.7 | 3083.1 | 3079.8 | 3066.1 | 3029.5 | 2965.4 | 2941.9 | 2874.6 | 2745.8 | 2587.6 |
| 7.5° | 2922.9 | 2944.5 | 2947.1 | 2972.6 | 2996.8 | 3000.0 | 2975.9 | 2958.2 | 2896.1 | 2745.1 | 2529.5 |
| 10° | 2715.1 | 2729.5 | 2750.4 | 2779.8 | 2838.0 | 2886.3 | 2909.9 | 2907.2 | 2871.3 | 2724.9 | 2461.5 |
| 12.5° | 2505.3 | 2513.1 | 2545.1 | 2595.5 | 2666.7 | 2749.1 | 2811.8 | 2824.2 | 2824.9 | 2700.7 | 2404.6 |
| 15° | 2324.9 | 2321.6 | 2346.4 | 2404.6 | 2504.6 | 2607.9 | 2720.3 | 2739.9 | 2771.3 | 2677.2 | 2351.7 |
| 17.5° | 2170.6 | 2187.6 | 2191.5 | 2255.6 | 2347.8 | 2481.7 | 2624.9 | 2659.5 | 2722.3 | 2656.9 | 2307.9 |
| 20° | 2075.2 | 2084.3 | 2092.8 | 2128.8 | 2211.8 | 2353.0 | 2535.3 | 2583.0 | 2676.5 | 2638.6 | 2258.9 |
| 22.5° | 2047.1 | 2053.0 | 2045.8 | 2056.9 | 2115.7 | 2241.2 | 2437.9 | 2501.3 | 2632.7 | 2621.6 | 2219.0 |
| 25° | 2068.7 | 2074.5 | 2057.6 | 2044.5 | 2064.7 | 2150.4 | 2343.8 | 2421.0 | 2597.4 | 2618.3 | 2188.9 |
| 27.5° | 2121.0 | 2132.1 | 2108.5 | 2085.0 | 2073.2 | 2101.3 | 2270.0 | 2359.5 | 2573.2 | 2634.0 | 2175.2 |
| 30° | 2202.7 | 2209.2 | 2191.5 | 2162.8 | 2136.0 | 2107.9 | 2231.4 | 2317.0 | 2566.7 | 2670.6 | 2173.9 |
| 32.5° | 2291.5 | 2305.3 | 2295.5 | 2276.5 | 2241.9 | 2175.2 | 2242.5 | 2318.3 | 2582.4 | 2723.6 | 2190.2 |
| 35° | 2401.3 | 2417.0 | 2426.2 | 2422.3 | 2377.8 | 2294.8 | 2313.1 | 2377.2 | 2624.2 | 2821.0 | 2234.7 |
| 37.5° | 2509.2 | 2522.9 | 2574.6 | 2592.2 | 2553.0 | 2474.6 | 2450.4 | 2492.9 | 2716.4 | 2948.4 | 2315.1 |
| 40° | 2632.7 | 2651.0 | 2723.6 | 2790.9 | 2771.9 | 2689.6 | 2645.1 | 2680.4 | 2857.6 | 3140.6 | 2467.4 |
| 42.5° | 2751.0 | 2783.7 | 2894.2 | 3013.1 | 3030.8 | 2938.6 | 2909.2 | 2921.0 | 3066.7 | 3417.0 | 2679.8 |
| 45° | 2919.0 | 2949.7 | 3092.2 | 3253.6 | 3336.7 | 3264.8 | 3234.7 | 3232.7 | 3353.7 | 3805.9 | 3024.2 |
| 47.5° | 3161.5 | 3188.9 | 3356.9 | 3516.4 | 3664.1 | 3673.9 | 3617.1 | 3636.7 | 3714.4 | 4260.9 | 3446.5 |
| 50° | 3458.9 | 3523.6 | 3634.0 | 3800.1 | 3997.5 | 4156.9 | 4174.6 | 4148.4 | 4215.1 | 4787.7 | 3953.7 |
| 52.5° | 3890.9 | 3915.8 | 4017.1 | 4153.7 | 4385.0 | 4655.6 | 4865.4 | 4829.5 | 4808.6 | 5289.6 | 4466.1 |
| 55° | 4213.1 | 4246.5 | 4404.0 | 4591.6 | 4930.8 | 5287.7 | 5742.6 | 5755.0 | 5490.9 | 5772.0 | 4967.4 |
| 57.5° | 4115.8 | 4166.7 | 4405.3 | 4782.4 | 5528.2 | 6180.5 | 6519.1 | 6527.6 | 6122.3 | 6240.6 | 5533.4 |
| 60° | 3615.7 | 3639.9 | 3981.8 | 4485.0 | 5579.2 | 7147.8 | 7620.4 | 7551.8 | 6764.8 | 6764.8 | 6033.4 |
| 62.5° | 2564.1 | 2602.0 | 2879.1 | 3619.7 | 5038.6 | 7483.8 | 8939.4 | 8797.5 | 7649.8 | 7266.1 | 6331.5 |
| 65° | 1638.6 | 1602.0 | 1785.7 | 2285.0 | 3753.7 | 6987.7 | 10087.7 | 10096.2 | 8482.5 | 7466.8 | 6168.7 |
| 67° | 1186.9 | 1172.6 | 1225.5 | 1562.1 | 2545.1 | 5874.0 | 10111.9 | 10559.7 | 8960.9 | 7340.0 | 5648.5 |
| 67.5° | 1085.6 | 1096.8 | 1135.3 | 1409.2 | 2312.5 | 5345.2 | 10002.1 | 10532.2 | 9068.8 | 7263.5 | 5460.2 |
| 70° | 822.9 | 803.9 | 845.8 | 996.7 | 1386.3 | 3372.0 | 8604.1 | 9659.6 | 8934.8 | 6504.7 | 4362.8 |
| 72.5° | 605.2 | 603.3 | 661.4 | 815.0 | 1067.3 | 1796.1 | 6458.9 | 7745.2 | 7299.5 | 4953.0 | 2747.1 |
| 75° | 408.5 | 426.8 | 519.6 | 681.1 | 967.3 | 1164.7 | 4403.3 | 5619.0 | 5067.4 | 2812.5 | 1122.9 |
| 77.5° | 232.7 | 234.0 | 334.6 | 547.1 | 868.6 | 937.3 | 2609.2 | 3579.8 | 2682.4 | 935.3 | 333.3 |
| 80° | 100.7 | 110.5 | 166.0 | 397.4 | 720.3 | 830.1 | 1496.1 | 1967.4 | 1085.0 | 198.0 | 107.8 |
| 82.5° | 37.3 | 43.8 | 73.2 | 244.4 | 525.5 | 683.7 | 903.9 | 939.2 | 368.0 | 69.9 | 67.3 |
| 85° | 0.0 | 1.3 | 26.8 | 114.4 | 273.9 | 305.2 | 603.9 | 556.9 | 162.7 | 33.3 | 43.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 11.8 | 35.9 | 113.7 | 187.6 | 209.2 | 39.2 | 11.8 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA2C-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 | 2592.9 |
| 2.5° | 2573.2 | 2530.8 | 2424.2 | 2317.7 | 2238.6 | 2172.6 | 2073.2 | 2019.0 | 1990.2 | 1947.7 | 1950.4 |
| 5° | 2508.5 | 2422.3 | 2234.7 | 2040.6 | 1883.7 | 1730.7 | 1547.7 | 1473.9 | 1411.8 | 1376.5 | 1353.0 |
| 7.5° | 2412.5 | 2285.0 | 2007.2 | 1748.4 | 1507.2 | 1239.9 | 1039.2 | 905.2 | 815.0 | 781.7 | 749.7 |
| 10° | 2307.2 | 2137.9 | 1776.5 | 1417.7 | 1083.0 | 807.2 | 637.3 | 514.4 | 470.6 | 430.1 | 434.0 |
| 12.5° | 2209.8 | 2004.0 | 1564.7 | 1119.0 | 758.8 | 513.1 | 400.0 | 349.7 | 335.3 | 330.7 | 330.7 |
| 15° | 2130.1 | 1875.8 | 1337.3 | 841.2 | 520.3 | 368.6 | 320.3 | 306.5 | 301.3 | 300.0 | 300.0 |
| 17.5° | 2045.1 | 1754.3 | 1132.0 | 621.6 | 378.4 | 308.5 | 292.2 | 283.0 | 281.1 | 279.7 | 279.7 |
| 20° | 1969.3 | 1632.1 | 937.3 | 462.8 | 305.9 | 277.8 | 267.3 | 261.4 | 259.5 | 258.2 | 258.8 |
| 22.5° | 1897.4 | 1523.6 | 754.3 | 349.7 | 269.3 | 252.9 | 242.5 | 236.6 | 232.7 | 229.4 | 230.1 |
| 25° | 1833.4 | 1419.0 | 606.5 | 286.3 | 242.5 | 228.1 | 217.7 | 209.2 | 200.7 | 196.7 | 196.1 |
| 27.5° | 1788.3 | 1327.5 | 472.6 | 245.1 | 218.3 | 202.6 | 189.5 | 179.1 | 168.0 | 162.1 | 160.8 |
| 30° | 1751.0 | 1234.7 | 373.9 | 216.3 | 194.1 | 179.1 | 162.7 | 147.7 | 135.9 | 130.1 | 127.5 |
| 32.5° | 1726.8 | 1146.4 | 294.8 | 192.8 | 173.9 | 155.6 | 137.3 | 122.2 | 109.2 | 103.3 | 102.0 |
| 35° | 1722.9 | 1072.6 | 241.2 | 173.2 | 155.6 | 135.9 | 117.0 | 100.7 | 89.5 | 83.7 | 82.4 |
| 37.5° | 1751.0 | 1015.7 | 202.0 | 157.5 | 140.5 | 119.0 | 98.0 | 83.0 | 73.2 | 68.6 | 68.0 |
| 40° | 1826.2 | 979.8 | 175.2 | 144.4 | 126.8 | 103.3 | 83.7 | 70.6 | 60.8 | 56.2 | 56.2 |
| 42.5° | 1969.3 | 981.1 | 157.5 | 132.0 | 113.1 | 88.2 | 71.2 | 58.8 | 50.3 | 46.4 | 45.1 |
| 45° | 2192.8 | 1025.5 | 142.5 | 119.6 | 100.0 | 76.5 | 60.8 | 48.4 | 39.9 | 36.6 | 36.6 |
| 47.5° | 2492.2 | 1113.7 | 129.4 | 107.2 | 88.2 | 65.4 | 51.6 | 39.2 | 32.0 | 28.8 | 28.8 |
| 50° | 2883.7 | 1255.6 | 118.3 | 96.7 | 78.4 | 56.2 | 41.8 | 32.0 | 24.8 | 22.2 | 21.6 |
| 52.5° | 3292.9 | 1430.7 | 105.2 | 87.6 | 67.3 | 47.7 | 34.0 | 24.8 | 19.0 | 17.0 | 16.3 |
| 55° | 3744.5 | 1602.0 | 92.8 | 78.4 | 54.9 | 39.9 | 26.8 | 19.6 | 13.7 | 11.8 | 11.8 |
| 57.5° | 4200.1 | 1770.0 | 77.8 | 65.4 | 43.1 | 29.4 | 20.9 | 14.4 | 9.2 | 7.2 | 7.2 |
| 60° | 4585.7 | 1824.2 | 66.0 | 52.9 | 32.7 | 20.9 | 15.0 | 9.2 | 5.2 | 3.3 | 3.3 |
| 62.5° | 4638.6 | 1641.2 | 55.6 | 40.5 | 23.5 | 14.4 | 7.8 | 5.2 | 2.0 | 1.3 | 1.3 |
| 65° | 4351.1 | 1333.4 | 46.4 | 30.7 | 15.7 | 7.2 | 3.3 | 2.0 | 0.7 | 0.0 | 0.0 |
| 67° | 3898.8 | 1081.1 | 37.9 | 22.9 | 11.1 | 4.6 | 2.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3783.1 | 1030.7 | 36.6 | 21.6 | 9.8 | 3.9 | 1.3 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 2968.7 | 771.9 | 26.1 | 13.1 | 5.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1845.1 | 436.6 | 19.0 | 7.8 | 3.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 697.4 | 152.9 | 13.1 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 217.0 | 58.2 | 7.8 | 3.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 73.2 | 22.2 | 5.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 45.1 | 9.2 | 3.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 28.1 | 3.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.2 | 1.3 | 0.7 | 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)