

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: P529716

Luminaire Tested: **GALN-SA4D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529716
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-SA4D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 19032 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

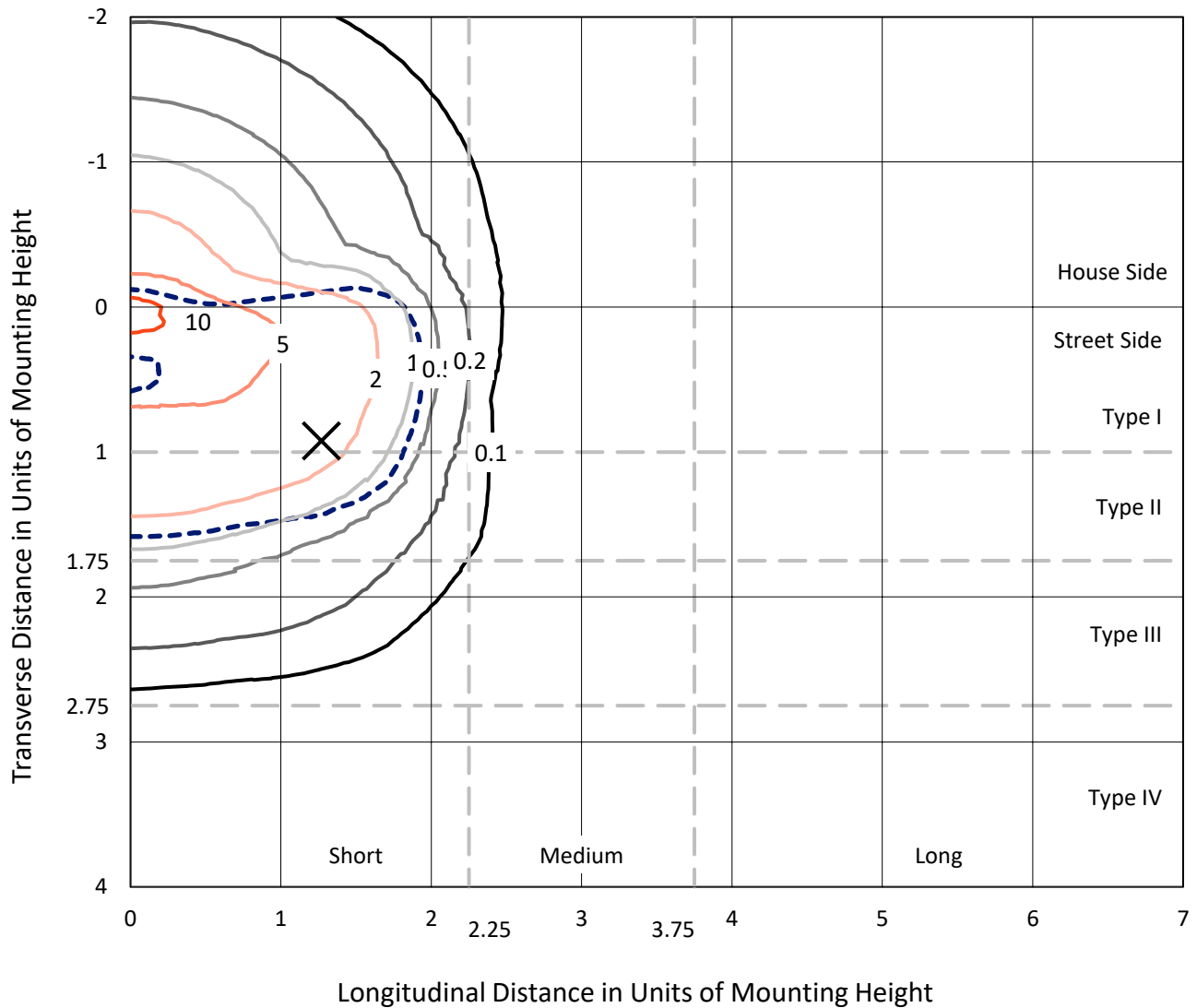
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

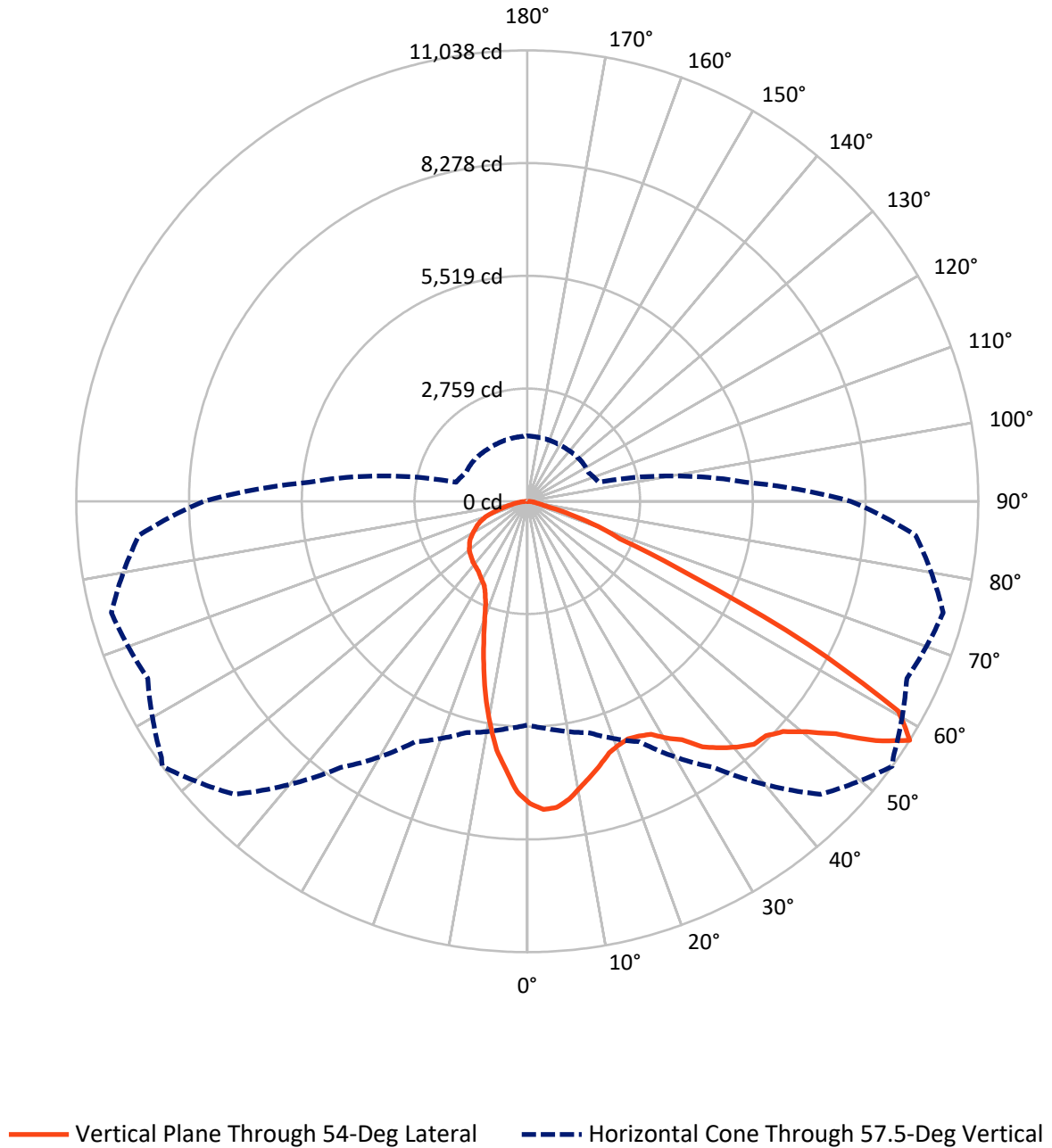
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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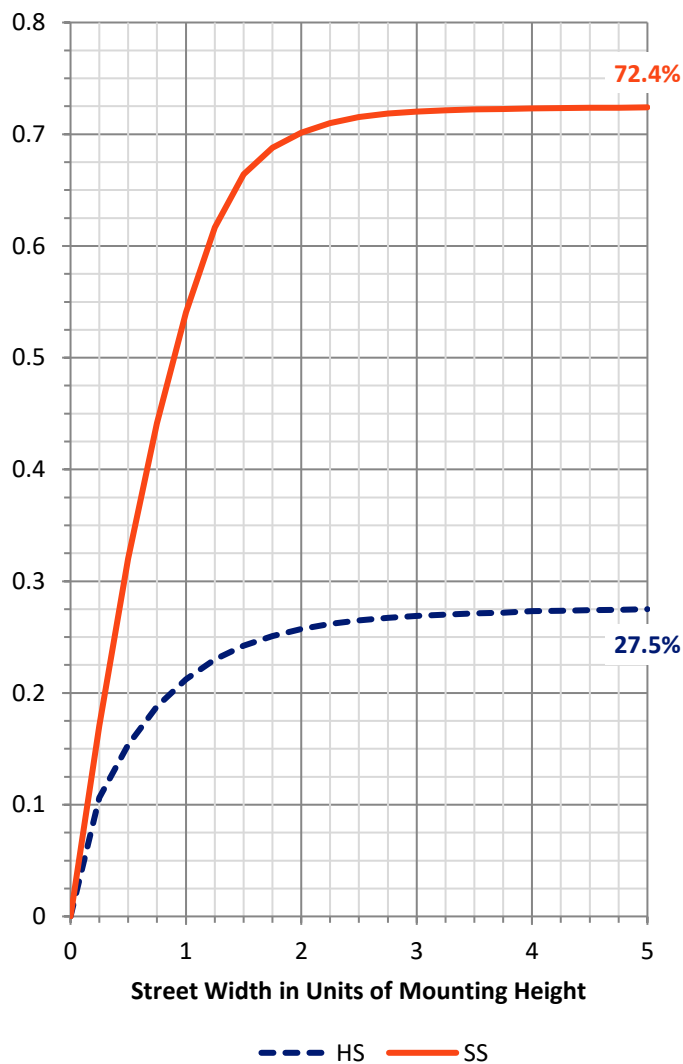
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5265.3 | 0.0 | 5265.3 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 13766.7 | 0.0 | 13766.7 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 19032.0 | 0.0 | 19032.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 638.0 | 3.4 |
| 10°-20° | 1477.1 | 7.8 |
| 20°-30° | 2075.4 | 10.9 |
| 30°-40° | 2901.4 | 15.2 |
| 40°-50° | 3927.9 | 20.6 |
| 50°-60° | 4784.4 | 25.1 |
| 60°-70° | 2491.9 | 13.1 |
| 70°-80° | 638.5 | 3.4 |
| 80°-90° | 97.4 | 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° | 19032.0 | 100.0 |
| 0°-180° | 19032.0 | 100.0 |



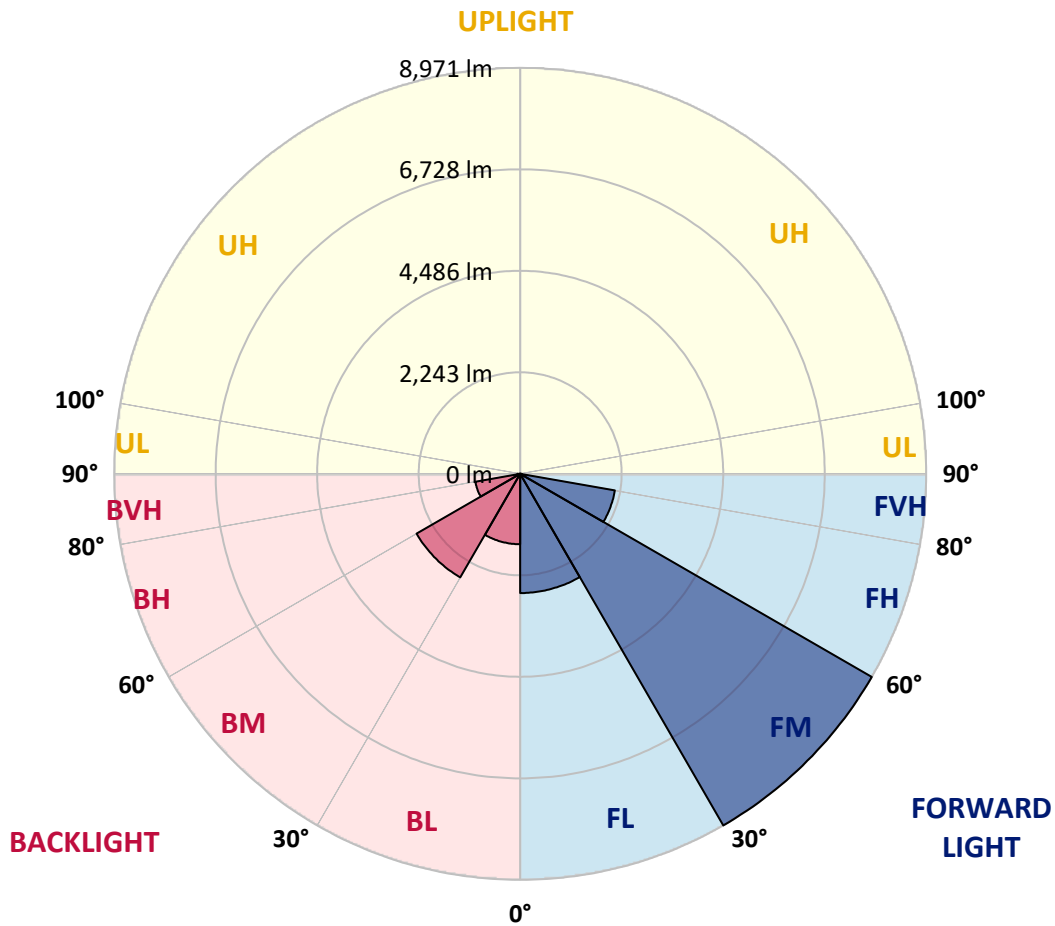
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2634.3 | 13.8 | | | |
| FM (30°-60°) | 8971.1 | 47.1 | | | |
| FH (60°-80°) | 2124.5 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 36.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1556.2 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 2642.6 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1005.9 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 60.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 |
| 2.5° | 7607.9 | 7578.5 | 7583.4 | 7622.6 | 7573.7 | 7554.1 | 7554.1 | 7458.7 | 7466.0 | 7400.0 | 7382.8 |
| 5° | 7431.8 | 7363.3 | 7409.8 | 7468.5 | 7478.2 | 7497.8 | 7529.6 | 7505.2 | 7436.7 | 7365.7 | 7250.7 |
| 7.5° | 6971.9 | 7033.0 | 7050.2 | 7091.7 | 7179.8 | 7260.5 | 7360.8 | 7292.3 | 7289.9 | 7218.9 | 7150.4 |
| 10° | 6568.2 | 6531.5 | 6624.5 | 6685.7 | 6832.4 | 6967.0 | 7121.1 | 7113.8 | 7150.4 | 7069.7 | 6952.3 |
| 12.5° | 6167.0 | 6137.7 | 6181.7 | 6321.2 | 6526.6 | 6722.3 | 6905.8 | 6837.3 | 7033.0 | 7018.3 | 6766.4 |
| 15° | 5741.4 | 5763.4 | 5827.0 | 5956.7 | 6225.8 | 6460.6 | 6693.0 | 6695.4 | 6869.1 | 6927.8 | 6590.3 |
| 17.5° | 5443.0 | 5418.5 | 5499.2 | 5692.5 | 5932.2 | 6213.5 | 6477.7 | 6531.5 | 6798.2 | 6832.4 | 6536.4 |
| 20° | 5220.3 | 5254.6 | 5359.8 | 5457.6 | 5734.1 | 6074.1 | 6372.5 | 6392.1 | 6783.5 | 6876.5 | 6450.8 |
| 22.5° | 5166.5 | 5147.0 | 5181.2 | 5340.2 | 5567.7 | 5937.1 | 6316.3 | 6389.7 | 6781.1 | 6861.8 | 6289.4 |
| 25° | 5110.3 | 5173.9 | 5171.4 | 5330.4 | 5496.8 | 5827.0 | 6362.7 | 6443.5 | 6910.7 | 6937.6 | 6311.4 |
| 27.5° | 5237.5 | 5230.1 | 5298.6 | 5310.9 | 5516.3 | 5856.4 | 6460.6 | 6521.8 | 7126.0 | 7104.0 | 6328.5 |
| 30° | 5364.7 | 5328.0 | 5369.6 | 5513.9 | 5609.3 | 6025.2 | 6729.7 | 6724.8 | 7404.9 | 7390.2 | 6382.3 |
| 32.5° | 5521.2 | 5504.1 | 5531.0 | 5658.2 | 5819.7 | 6250.2 | 6957.2 | 7101.5 | 7688.6 | 7781.6 | 6568.2 |
| 35° | 5550.6 | 5621.5 | 5685.1 | 5856.4 | 6086.3 | 6614.7 | 7385.3 | 7505.2 | 8016.4 | 8307.5 | 6922.9 |
| 37.5° | 5736.5 | 5763.4 | 5912.6 | 6216.0 | 6426.4 | 7101.5 | 7656.8 | 7732.7 | 8314.9 | 8645.1 | 7297.2 |
| 40° | 5934.7 | 5966.5 | 6191.5 | 6509.5 | 6798.2 | 7419.5 | 7911.2 | 7935.7 | 8410.3 | 8904.4 | 7541.9 |
| 42.5° | 6203.7 | 6233.1 | 6455.7 | 6854.4 | 7241.0 | 7691.1 | 8136.3 | 8163.2 | 8402.9 | 9202.9 | 7930.8 |
| 45° | 6482.6 | 6553.6 | 6815.3 | 7267.9 | 7615.2 | 8009.1 | 8187.7 | 8297.7 | 8471.4 | 9469.5 | 8246.4 |
| 47.5° | 6874.0 | 6940.1 | 7155.3 | 7598.1 | 8004.2 | 8288.0 | 8425.0 | 8532.6 | 8635.3 | 9701.9 | 8449.4 |
| 50° | 7289.9 | 7302.1 | 7563.9 | 7965.1 | 8263.5 | 8603.5 | 8867.7 | 8904.4 | 8850.6 | 9971.0 | 8794.3 |
| 52.5° | 7595.7 | 7634.8 | 7837.8 | 8229.3 | 8674.5 | 9092.8 | 9454.8 | 9494.0 | 9388.8 | 10071.3 | 8911.8 |
| 55° | 7089.3 | 7067.3 | 7397.5 | 7918.6 | 8950.9 | 9821.8 | 10347.7 | 10377.1 | 9780.2 | 10382.0 | 9295.8 |
| 57.5° | 5479.6 | 5584.8 | 5866.2 | 6494.8 | 7952.8 | 10144.7 | 11037.6 | 10932.4 | 10249.9 | 10538.5 | 9540.5 |
| 60° | 3982.5 | 3958.1 | 4146.4 | 4567.2 | 5993.4 | 8743.0 | 10435.8 | 10543.4 | 9865.8 | 9498.9 | 7867.2 |
| 62.5° | 3243.8 | 3209.5 | 3224.2 | 3238.9 | 3867.6 | 5802.6 | 7725.3 | 7722.9 | 7598.1 | 6827.5 | 5306.0 |
| 65° | 2593.0 | 2673.8 | 2681.1 | 2791.2 | 2871.9 | 3466.4 | 4476.7 | 4716.4 | 4107.3 | 3368.5 | 2443.8 |
| 67.5° | 1954.6 | 1925.2 | 2023.1 | 2414.5 | 2566.1 | 2502.5 | 2443.8 | 2470.7 | 1756.4 | 1267.2 | 1193.8 |
| 70° | 1152.2 | 1140.0 | 1257.4 | 1683.0 | 2113.6 | 1988.8 | 1842.0 | 1844.5 | 1206.0 | 885.5 | 985.8 |
| 72.5° | 631.1 | 628.7 | 653.2 | 853.7 | 1201.1 | 1247.6 | 1105.7 | 1140.0 | 719.2 | 716.8 | 770.6 |
| 75° | 352.3 | 344.9 | 337.6 | 376.7 | 433.0 | 457.5 | 467.2 | 472.1 | 494.1 | 552.9 | 574.9 |
| 77.5° | 129.7 | 124.8 | 124.8 | 144.3 | 183.5 | 229.9 | 291.1 | 296.0 | 349.8 | 401.2 | 423.2 |
| 80° | 44.0 | 48.9 | 66.0 | 90.5 | 122.3 | 163.9 | 198.1 | 203.0 | 247.1 | 281.3 | 288.7 |
| 82.5° | 26.9 | 29.4 | 44.0 | 63.6 | 88.1 | 115.0 | 146.8 | 149.2 | 183.5 | 205.5 | 215.3 |
| 85° | 12.2 | 14.7 | 24.5 | 39.1 | 56.3 | 75.8 | 78.3 | 78.3 | 75.8 | 78.3 | 73.4 |
| 87.5° | 0.0 | 0.0 | 4.9 | 4.9 | 4.9 | 7.3 | 9.8 | 7.3 | 12.2 | 14.7 | 14.7 |
| 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-SA4D-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 | 7397.5 |
| 2.5° | 7331.5 | 7304.6 | 7221.4 | 7148.0 | 7126.0 | 7028.1 | 6883.8 | 6900.9 | 6795.7 | 6844.7 | 6793.3 |
| 5° | 7231.2 | 7140.7 | 6927.8 | 6837.3 | 6600.0 | 6492.4 | 6419.0 | 6235.5 | 6149.9 | 6132.8 | 6059.4 |
| 7.5° | 6974.3 | 6918.1 | 6651.4 | 6406.8 | 6154.8 | 5939.5 | 5663.1 | 5474.8 | 5340.2 | 5303.5 | 5195.9 |
| 10° | 6771.3 | 6646.5 | 6277.1 | 5905.3 | 5545.7 | 5171.4 | 4811.8 | 4530.5 | 4393.5 | 4234.5 | 4180.7 |
| 12.5° | 6570.7 | 6382.3 | 5883.3 | 5406.3 | 4941.5 | 4469.3 | 4033.9 | 3691.4 | 3393.0 | 3322.0 | 3297.6 |
| 15° | 6445.9 | 6118.1 | 5531.0 | 4956.1 | 4295.7 | 3679.2 | 3243.8 | 3018.7 | 2835.2 | 2759.4 | 2813.2 |
| 17.5° | 6282.0 | 5900.4 | 5193.4 | 4427.7 | 3701.2 | 3133.7 | 2769.2 | 2629.7 | 2563.7 | 2571.0 | 2549.0 |
| 20° | 6076.5 | 5694.9 | 4750.7 | 3948.3 | 3170.4 | 2717.8 | 2509.9 | 2458.5 | 2468.3 | 2485.4 | 2478.1 |
| 22.5° | 5929.8 | 5445.4 | 4430.2 | 3459.0 | 2739.8 | 2487.9 | 2402.2 | 2365.5 | 2397.3 | 2412.0 | 2399.8 |
| 25° | 5817.2 | 5232.6 | 4041.2 | 3026.0 | 2490.3 | 2358.2 | 2319.1 | 2316.6 | 2365.5 | 2385.1 | 2372.9 |
| 27.5° | 5714.5 | 5034.4 | 3654.7 | 2695.8 | 2324.0 | 2257.9 | 2245.7 | 2275.0 | 2306.8 | 2326.4 | 2343.5 |
| 30° | 5653.3 | 4882.8 | 3292.7 | 2419.4 | 2240.8 | 2209.0 | 2187.0 | 2213.9 | 2231.0 | 2250.6 | 2240.8 |
| 32.5° | 5712.0 | 4775.1 | 2942.9 | 2262.8 | 2172.3 | 2140.5 | 2169.8 | 2152.7 | 2182.1 | 2199.2 | 2172.3 |
| 35° | 5895.5 | 4679.7 | 2693.3 | 2179.6 | 2094.0 | 2106.2 | 2111.1 | 2103.8 | 2116.0 | 2101.3 | 2133.1 |
| 37.5° | 6076.5 | 4645.5 | 2463.4 | 2108.7 | 2057.3 | 2057.3 | 2052.4 | 2037.7 | 2062.2 | 2057.3 | 2072.0 |
| 40° | 6306.5 | 4667.5 | 2267.7 | 2032.9 | 2023.1 | 2018.2 | 1998.6 | 1996.2 | 1986.4 | 1988.8 | 1993.7 |
| 42.5° | 6507.1 | 4716.4 | 2155.2 | 1983.9 | 1991.3 | 2001.0 | 1964.4 | 1935.0 | 1947.2 | 1922.8 | 1922.8 |
| 45° | 6719.9 | 4760.4 | 2054.9 | 1949.7 | 1942.3 | 1939.9 | 1910.5 | 1893.4 | 1883.6 | 1886.1 | 1908.1 |
| 47.5° | 7055.0 | 4824.0 | 1979.0 | 1903.2 | 1908.1 | 1871.4 | 1864.1 | 1842.0 | 1851.8 | 1866.5 | 1869.0 |
| 50° | 7292.3 | 4958.6 | 1920.3 | 1849.4 | 1866.5 | 1842.0 | 1798.0 | 1788.2 | 1788.2 | 1812.7 | 1807.8 |
| 52.5° | 7458.7 | 5147.0 | 1864.1 | 1790.7 | 1798.0 | 1778.4 | 1763.8 | 1741.7 | 1727.1 | 1761.3 | 1778.4 |
| 55° | 7967.5 | 5460.1 | 1849.4 | 1741.7 | 1739.3 | 1719.7 | 1692.8 | 1670.8 | 1663.5 | 1668.4 | 1702.6 |
| 57.5° | 7918.6 | 5362.2 | 1802.9 | 1656.1 | 1651.2 | 1624.3 | 1597.4 | 1590.1 | 1587.6 | 1592.5 | 1602.3 |
| 60° | 6428.8 | 3960.5 | 1609.6 | 1558.3 | 1550.9 | 1546.0 | 1519.1 | 1489.8 | 1475.1 | 1489.8 | 1477.5 |
| 62.5° | 4254.1 | 2651.8 | 1418.8 | 1440.9 | 1445.7 | 1433.5 | 1389.5 | 1360.1 | 1365.0 | 1382.1 | 1355.2 |
| 65° | 2089.1 | 1558.3 | 1286.7 | 1345.4 | 1350.3 | 1316.1 | 1274.5 | 1240.3 | 1223.1 | 1237.8 | 1225.6 |
| 67.5° | 1193.8 | 1191.3 | 1179.1 | 1240.3 | 1237.8 | 1203.6 | 1137.5 | 1108.2 | 1078.8 | 1083.7 | 1076.4 |
| 70° | 1012.8 | 1032.3 | 1056.8 | 1093.5 | 1091.0 | 1051.9 | 973.6 | 951.6 | 910.0 | 905.1 | 892.9 |
| 72.5° | 797.5 | 831.7 | 885.5 | 912.5 | 890.4 | 841.5 | 790.1 | 753.5 | 716.8 | 694.7 | 702.1 |
| 75° | 592.0 | 640.9 | 670.3 | 687.4 | 653.2 | 626.2 | 584.7 | 540.6 | 496.6 | 477.0 | 469.7 |
| 77.5° | 430.5 | 445.2 | 472.1 | 484.4 | 462.3 | 435.4 | 411.0 | 366.9 | 325.4 | 298.4 | 291.1 |
| 80° | 300.9 | 310.7 | 330.2 | 330.2 | 330.2 | 318.0 | 286.2 | 242.2 | 215.3 | 190.8 | 185.9 |
| 82.5° | 210.4 | 220.2 | 239.7 | 229.9 | 227.5 | 212.8 | 193.3 | 159.0 | 129.7 | 112.5 | 107.6 |
| 85° | 73.4 | 80.7 | 97.9 | 117.4 | 124.8 | 122.3 | 110.1 | 88.1 | 68.5 | 56.3 | 51.4 |
| 87.5° | 17.1 | 17.1 | 19.6 | 17.1 | 17.1 | 19.6 | 17.1 | 17.1 | 17.1 | 12.2 | 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 |

(END OF REPORT)