

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: P526805

Luminaire Tested: **GALN-SA1D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4031 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

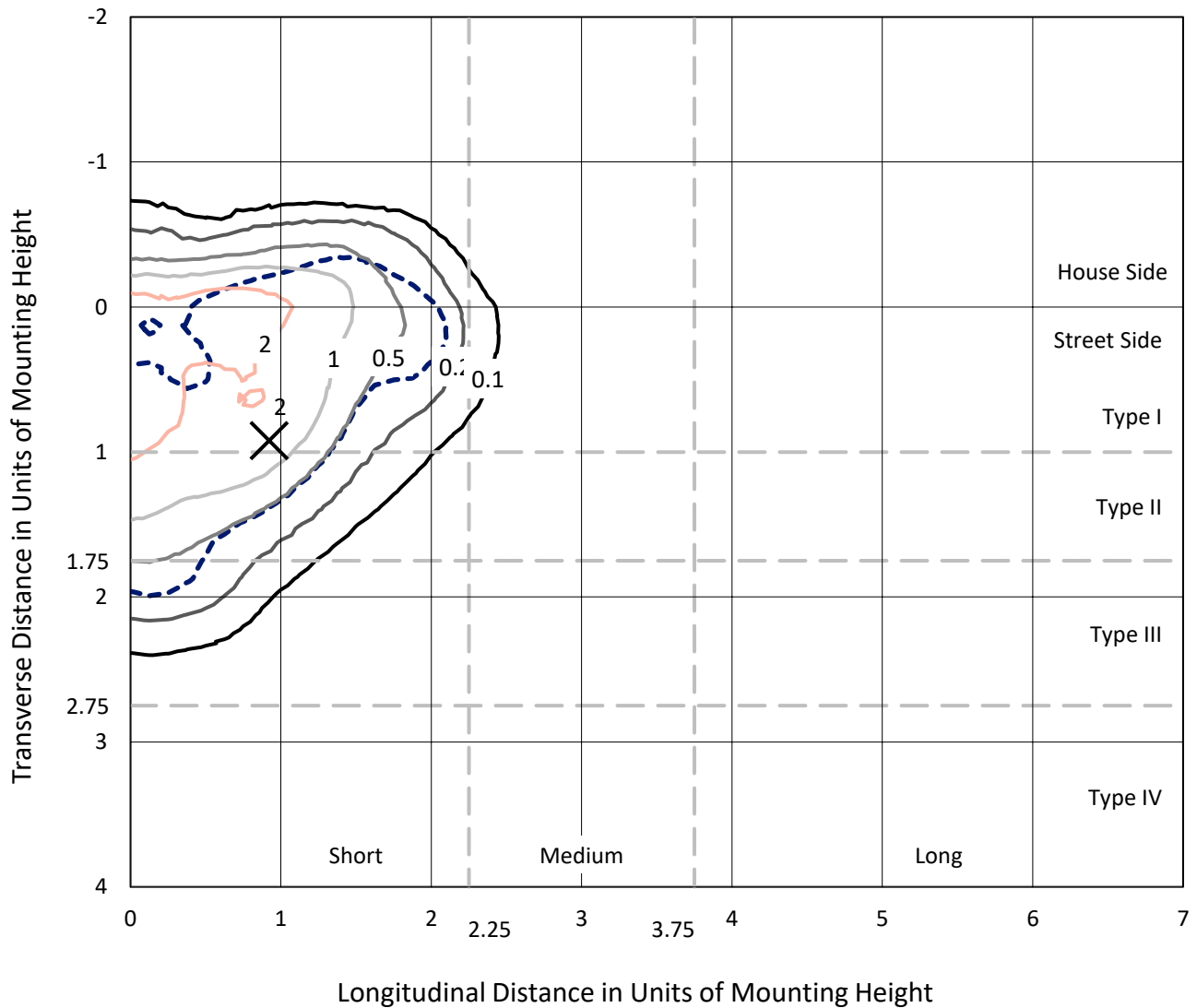
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

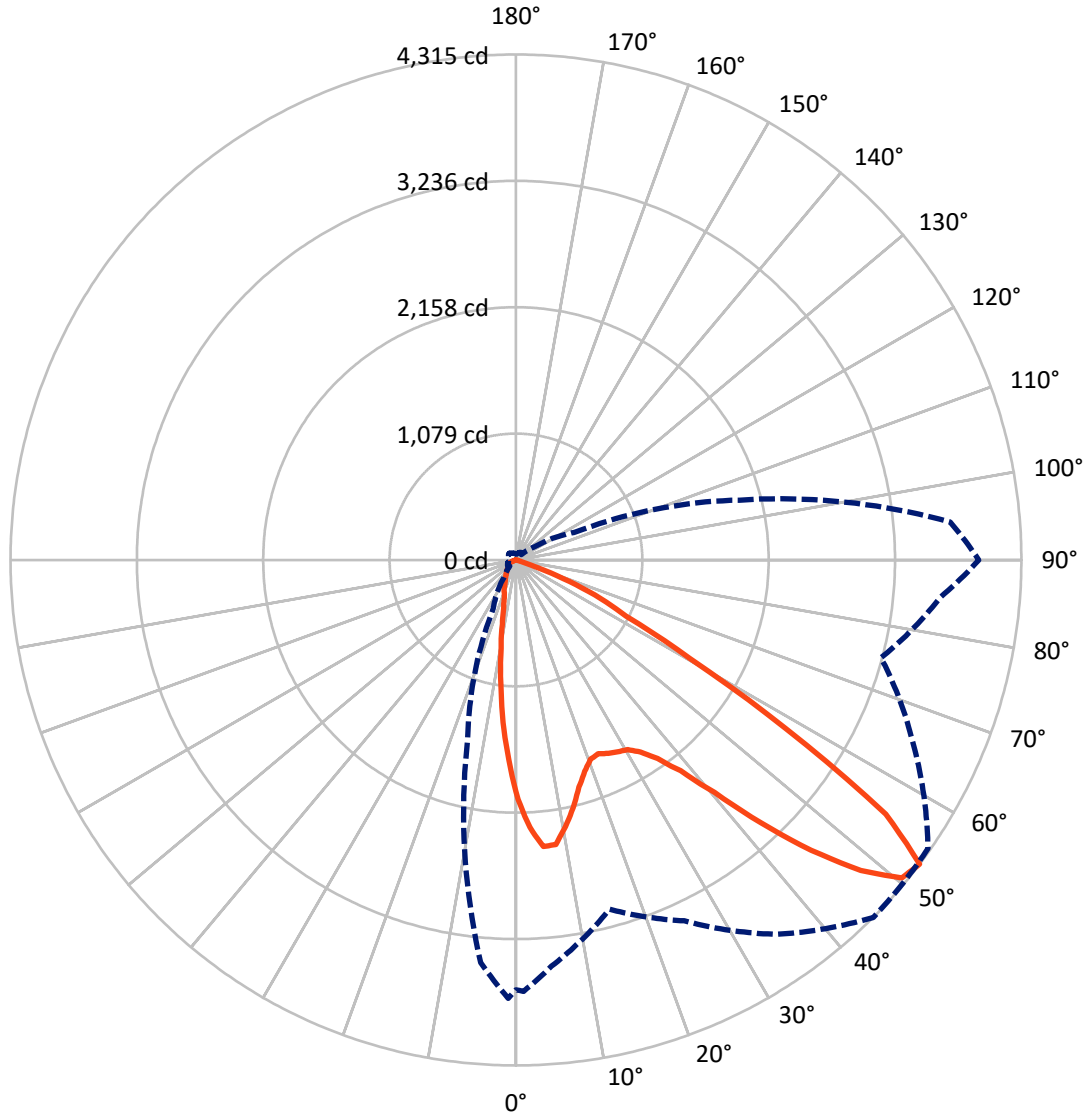
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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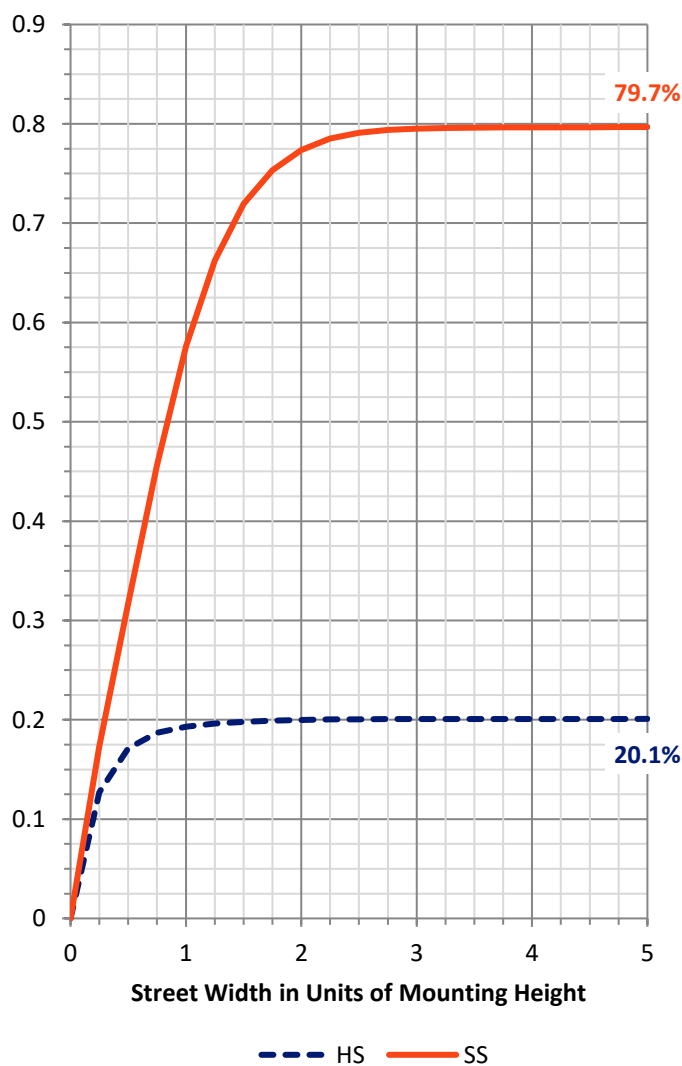
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 818.1 | 0.0 | 818.1 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 3212.9 | 0.0 | 3212.9 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 4031.0 | 0.0 | 4031.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.1 | 3.7 |
| 10°-20° | 294.1 | 7.3 |
| 20°-30° | 447.6 | 11.1 |
| 30°-40° | 668.9 | 16.6 |
| 40°-50° | 952.6 | 23.6 |
| 50°-60° | 1024.0 | 25.4 |
| 60°-70° | 453.8 | 11.3 |
| 70°-80° | 36.7 | 0.9 |
| 80°-90° | 4.3 | 0.1 |
| 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° | 4031.0 | 100.0 |
| 0°-180° | 4031.0 | 100.0 |

Coefficient of Utilization

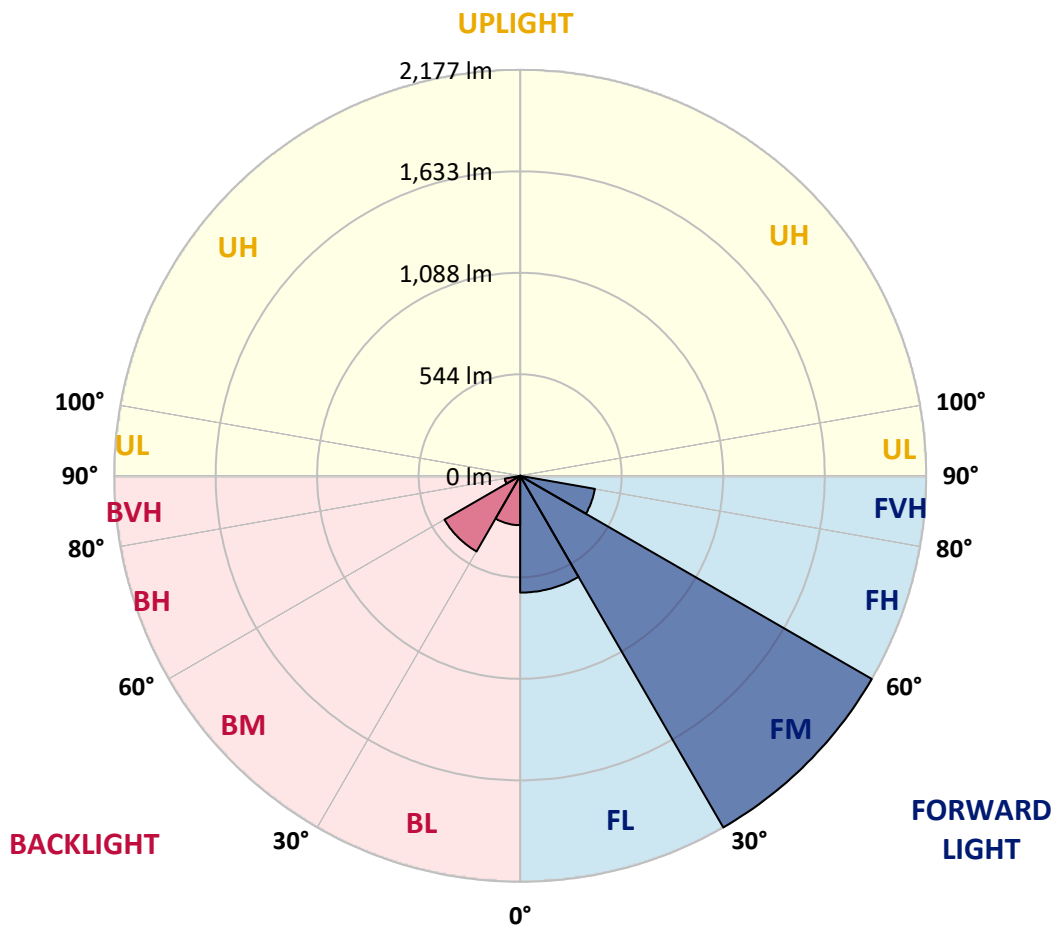


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 626.1 | 15.5 | | | |
| FM (30°-60°) | 2176.9 | 54.0 | | | |
| FH (60°-80°) | 406.8 | 10.1 | | | G0/660 |
| FVH (80°-90°) | 3.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 264.6 | 6.6 | B1/500 | | |
| BM (30°-60°) | 468.7 | 11.6 | B1/1000 | | |
| BH (60°-80°) | 83.7 | 2.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 |
| 2.5° | 2162.8 | 2169.2 | 2204.1 | 2247.7 | 2270.7 | 2323.0 | 2286.5 | 2296.0 | 2276.2 | 2206.4 | 2151.7 |
| 5° | 2097.0 | 2096.2 | 2140.6 | 2248.5 | 2350.7 | 2454.6 | 2457.8 | 2402.3 | 2304.7 | 2197.7 | 2044.7 |
| 7.5° | 1898.8 | 1929.7 | 1975.7 | 2147.8 | 2337.2 | 2414.9 | 2452.2 | 2387.2 | 2237.4 | 2084.3 | 1918.6 |
| 10° | 1749.0 | 1764.8 | 1842.5 | 2050.2 | 2189.0 | 2292.9 | 2315.8 | 2278.6 | 2163.6 | 1972.6 | 1787.0 |
| 12.5° | 1662.6 | 1670.5 | 1761.7 | 1936.1 | 2082.8 | 2159.7 | 2170.8 | 2188.2 | 2105.7 | 1926.6 | 1703.8 |
| 15° | 1663.3 | 1669.7 | 1792.6 | 1938.5 | 1996.3 | 1975.7 | 2012.2 | 2011.4 | 2047.1 | 1917.8 | 1773.6 |
| 17.5° | 1783.1 | 1790.2 | 1901.2 | 1973.3 | 1948.0 | 1899.6 | 1897.2 | 1933.7 | 2009.0 | 2026.5 | 1879.0 |
| 20° | 1989.2 | 2005.8 | 2087.5 | 2083.5 | 1940.8 | 1843.3 | 1816.4 | 1844.1 | 2019.3 | 2118.4 | 2091.5 |
| 22.5° | 2266.7 | 2289.7 | 2346.8 | 2237.4 | 1973.3 | 1805.3 | 1796.5 | 1850.5 | 2087.5 | 2323.8 | 2332.5 |
| 25° | 2588.6 | 2627.4 | 2655.2 | 2514.8 | 2089.1 | 1871.1 | 1829.8 | 1922.6 | 2179.5 | 2546.6 | 2639.3 |
| 27.5° | 2801.8 | 2842.3 | 2835.9 | 2635.4 | 2166.8 | 1888.5 | 1853.6 | 1940.0 | 2259.6 | 2599.7 | 2799.5 |
| 30° | 2968.3 | 2992.9 | 3037.3 | 2700.4 | 2244.5 | 1937.7 | 1878.2 | 2013.8 | 2285.7 | 2691.6 | 2992.9 |
| 32.5° | 3162.6 | 3179.2 | 3182.4 | 2815.3 | 2364.2 | 1999.5 | 1954.3 | 2105.7 | 2401.5 | 2779.6 | 3164.2 |
| 35° | 3358.4 | 3383.0 | 3331.5 | 2957.2 | 2437.9 | 2114.5 | 2081.2 | 2265.1 | 2494.2 | 2870.8 | 3352.9 |
| 37.5° | 3570.9 | 3583.6 | 3464.6 | 3015.9 | 2543.4 | 2301.6 | 2283.3 | 2437.1 | 2655.2 | 3035.7 | 3562.2 |
| 40° | 3749.3 | 3761.2 | 3606.6 | 3088.1 | 2654.4 | 2563.2 | 2610.0 | 2765.4 | 2874.0 | 3142.8 | 3666.8 |
| 42.5° | 3848.4 | 3876.1 | 3654.1 | 3048.4 | 2877.2 | 2859.7 | 3067.4 | 3122.1 | 3127.7 | 3172.9 | 3760.4 |
| 45° | 3875.3 | 3862.6 | 3575.6 | 3080.9 | 3072.2 | 3347.3 | 3536.0 | 3608.1 | 3379.8 | 3228.4 | 3784.2 |
| 47.5° | 3750.9 | 3767.5 | 3459.9 | 3052.4 | 3328.3 | 3716.8 | 3961.0 | 4094.9 | 3567.7 | 3180.0 | 3725.5 |
| 50° | 3650.2 | 3628.8 | 3422.6 | 3031.8 | 3397.3 | 3891.2 | 4267.8 | 4297.9 | 3740.6 | 3239.5 | 3661.3 |
| 52.5° | 3670.0 | 3683.5 | 3482.1 | 3086.5 | 3398.8 | 3901.5 | 4315.3 | 4294.7 | 3746.1 | 3226.0 | 3638.3 |
| 55° | 3712.0 | 3652.5 | 3456.7 | 2966.0 | 3171.3 | 3613.7 | 3830.1 | 3798.4 | 3457.5 | 3082.5 | 3582.0 |
| 57.5° | 3203.0 | 3295.0 | 3178.4 | 2648.0 | 2602.8 | 2722.6 | 2718.6 | 2816.1 | 2579.1 | 2652.8 | 3260.9 |
| 60° | 2599.7 | 2615.5 | 2659.1 | 2265.1 | 1801.3 | 1760.1 | 1703.0 | 1641.1 | 1735.5 | 2268.3 | 2966.0 |
| 62.5° | 2286.5 | 2267.5 | 2422.9 | 2060.6 | 1271.7 | 1064.8 | 1055.3 | 1093.3 | 1339.1 | 2163.6 | 2782.0 |
| 65° | 1661.8 | 1685.5 | 1798.1 | 1599.1 | 954.6 | 812.6 | 798.4 | 911.0 | 1083.8 | 1733.9 | 2123.2 |
| 67.5° | 1014.8 | 1060.8 | 1071.1 | 986.3 | 647.7 | 514.5 | 493.9 | 596.2 | 782.5 | 1121.8 | 1244.7 |
| 70° | 468.6 | 524.1 | 576.4 | 538.3 | 375.0 | 211.7 | 199.8 | 250.5 | 394.8 | 645.4 | 660.4 |
| 72.5° | 141.9 | 142.7 | 199.8 | 208.5 | 121.3 | 47.6 | 42.0 | 55.5 | 134.0 | 213.3 | 224.4 |
| 75° | 10.3 | 11.1 | 27.0 | 30.9 | 23.0 | 11.9 | 12.7 | 15.1 | 28.5 | 47.6 | 35.7 |
| 77.5° | 0.8 | 0.8 | 0.8 | 4.0 | 7.1 | 7.9 | 10.3 | 11.9 | 15.1 | 17.4 | 15.9 |
| 80° | 0.8 | 0.0 | 0.8 | 3.2 | 5.5 | 7.9 | 9.5 | 11.1 | 11.9 | 13.5 | 11.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 2.4 | 5.5 | 7.9 | 8.7 | 11.9 | 13.5 | 15.9 | 13.5 |
| 85° | 0.0 | 0.0 | 0.0 | 2.4 | 5.5 | 8.7 | 7.9 | 4.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



REPORT NUMBER: P526805

CATALOG NUMBER: GALN-SA1D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 |
| 2.5° | 2161.2 | 2130.3 | 2059.8 | 2024.1 | 1940.0 | 1928.2 | 1845.7 | 1832.2 | 1804.5 | 1789.4 | 1752.9 |
| 5° | 1977.3 | 1940.0 | 1825.1 | 1728.4 | 1615.8 | 1537.3 | 1477.0 | 1422.3 | 1390.6 | 1361.3 | 1374.8 |
| 7.5° | 1827.5 | 1718.8 | 1591.2 | 1429.5 | 1299.4 | 1215.4 | 1123.4 | 1048.1 | 1003.7 | 973.6 | 980.7 |
| 10° | 1670.5 | 1599.9 | 1422.3 | 1240.8 | 1083.8 | 1024.3 | 952.2 | 894.3 | 831.7 | 777.8 | 752.4 |
| 12.5° | 1621.3 | 1516.7 | 1293.9 | 1109.2 | 990.2 | 932.4 | 849.9 | 783.3 | 703.2 | 637.4 | 614.4 |
| 15° | 1630.0 | 1529.4 | 1259.0 | 1061.6 | 921.3 | 821.4 | 723.1 | 640.6 | 552.6 | 506.6 | 482.8 |
| 17.5° | 1772.0 | 1597.5 | 1282.0 | 1011.6 | 825.3 | 686.6 | 565.3 | 460.6 | 394.8 | 347.3 | 337.0 |
| 20° | 1946.4 | 1745.0 | 1331.2 | 975.2 | 746.8 | 546.3 | 413.1 | 322.7 | 268.0 | 260.0 | 257.7 |
| 22.5° | 2201.7 | 1986.0 | 1436.6 | 950.6 | 650.9 | 425.7 | 283.0 | 234.7 | 219.6 | 218.0 | 218.8 |
| 25° | 2558.4 | 2288.1 | 1551.6 | 930.0 | 578.8 | 328.2 | 231.5 | 199.0 | 194.2 | 191.9 | 195.8 |
| 27.5° | 2713.0 | 2470.4 | 1612.6 | 885.6 | 513.0 | 295.7 | 228.3 | 197.4 | 183.9 | 180.0 | 182.3 |
| 30° | 2904.1 | 2591.7 | 1708.5 | 809.5 | 416.2 | 243.4 | 213.3 | 214.9 | 208.5 | 188.7 | 182.3 |
| 32.5° | 3157.8 | 2743.2 | 1756.9 | 755.6 | 371.8 | 201.4 | 156.2 | 143.5 | 160.2 | 163.3 | 168.9 |
| 35° | 3320.4 | 2897.0 | 1781.5 | 723.8 | 348.8 | 172.0 | 132.4 | 120.5 | 116.5 | 117.3 | 120.5 |
| 37.5° | 3622.4 | 3104.7 | 1812.4 | 690.6 | 331.4 | 149.8 | 119.7 | 108.6 | 103.1 | 103.1 | 106.2 |
| 40° | 3803.2 | 3269.6 | 1854.4 | 672.3 | 314.0 | 136.4 | 108.6 | 99.1 | 94.3 | 94.3 | 95.9 |
| 42.5° | 3848.4 | 3351.3 | 1840.1 | 666.0 | 294.1 | 133.2 | 99.1 | 92.0 | 86.4 | 85.6 | 84.8 |
| 45° | 3929.2 | 3475.7 | 1842.5 | 658.8 | 273.5 | 121.3 | 93.6 | 85.6 | 77.7 | 76.9 | 76.1 |
| 47.5° | 4018.0 | 3565.3 | 1847.3 | 631.1 | 253.7 | 101.5 | 97.5 | 79.3 | 69.8 | 68.2 | 68.2 |
| 50° | 3941.9 | 3636.7 | 1888.5 | 603.3 | 228.3 | 82.5 | 95.9 | 74.5 | 61.8 | 59.5 | 60.3 |
| 52.5° | 3951.4 | 3720.7 | 1975.7 | 564.5 | 196.6 | 65.8 | 77.7 | 70.6 | 56.3 | 52.3 | 53.1 |
| 55° | 3799.2 | 3631.9 | 1987.6 | 523.3 | 153.8 | 50.7 | 59.5 | 61.8 | 47.6 | 46.0 | 46.0 |
| 57.5° | 3270.4 | 3075.4 | 1753.7 | 424.2 | 101.5 | 42.0 | 42.8 | 53.9 | 41.2 | 39.6 | 40.4 |
| 60° | 2798.7 | 2468.9 | 1411.2 | 279.9 | 63.4 | 33.3 | 30.9 | 54.7 | 36.5 | 35.7 | 38.1 |
| 62.5° | 2551.3 | 2028.8 | 1070.3 | 173.6 | 43.6 | 25.4 | 21.4 | 44.4 | 31.7 | 31.7 | 34.9 |
| 65° | 1843.3 | 1362.9 | 622.4 | 91.2 | 30.9 | 19.8 | 15.9 | 25.4 | 26.2 | 27.0 | 28.5 |
| 67.5° | 1141.7 | 688.2 | 262.4 | 44.4 | 20.6 | 13.5 | 10.3 | 15.9 | 17.4 | 17.4 | 19.0 |
| 70° | 563.7 | 274.3 | 87.2 | 25.4 | 15.9 | 11.1 | 7.1 | 8.7 | 8.7 | 7.9 | 8.7 |
| 72.5° | 174.4 | 82.5 | 22.2 | 15.9 | 11.1 | 7.1 | 4.0 | 3.2 | 1.6 | 0.0 | 0.8 |
| 75° | 19.8 | 15.9 | 14.3 | 11.1 | 7.1 | 3.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 11.9 | 13.5 | 13.5 | 11.1 | 7.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 9.5 | 10.3 | 11.1 | 10.3 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.9 | 13.5 | 15.1 | 13.5 | 8.7 | 4.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



REPORT NUMBER: P526805

CATALOG NUMBER: GALN-SA1D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 | 2043.9 |
| 2.5° | 1737.9 | 1720.4 | 1745.0 | 1708.5 | 1707.7 | 1708.5 | 1698.2 | 1688.7 | 1703.8 | 1744.2 | 1748.2 |
| 5° | 1326.4 | 1363.7 | 1375.6 | 1414.4 | 1393.0 | 1361.3 | 1367.6 | 1346.2 | 1398.5 | 1421.5 | 1403.3 |
| 7.5° | 965.7 | 963.3 | 1043.4 | 1048.1 | 1058.4 | 1059.2 | 1057.6 | 1015.6 | 972.8 | 982.3 | 1010.9 |
| 10° | 749.2 | 708.8 | 747.6 | 743.7 | 769.0 | 761.9 | 772.2 | 727.0 | 742.1 | 742.1 | 760.3 |
| 12.5° | 610.5 | 567.7 | 560.5 | 550.2 | 560.5 | 564.5 | 568.5 | 559.7 | 585.1 | 597.0 | 609.7 |
| 15° | 466.2 | 442.4 | 436.1 | 416.2 | 419.4 | 430.5 | 440.0 | 444.0 | 436.1 | 454.3 | 455.9 |
| 17.5° | 338.5 | 337.7 | 341.7 | 340.9 | 337.7 | 335.4 | 334.6 | 324.3 | 321.1 | 322.7 | 329.0 |
| 20° | 256.9 | 263.2 | 276.7 | 290.2 | 297.3 | 288.6 | 276.7 | 259.3 | 252.1 | 253.7 | 254.5 |
| 22.5° | 219.6 | 229.1 | 247.4 | 262.4 | 269.6 | 253.7 | 232.3 | 217.2 | 214.1 | 213.3 | 212.5 |
| 25° | 199.0 | 210.1 | 223.6 | 228.3 | 227.5 | 218.0 | 202.2 | 195.8 | 194.2 | 192.7 | 185.5 |
| 27.5° | 187.9 | 191.9 | 194.2 | 199.8 | 202.2 | 195.8 | 191.9 | 182.3 | 180.8 | 180.8 | 176.0 |
| 30° | 181.6 | 179.2 | 182.3 | 178.4 | 181.6 | 176.8 | 177.6 | 177.6 | 173.6 | 175.2 | 175.2 |
| 32.5° | 168.9 | 169.7 | 169.7 | 161.7 | 164.1 | 158.6 | 164.1 | 168.9 | 169.7 | 170.5 | 176.8 |
| 35° | 123.7 | 138.0 | 145.1 | 145.1 | 147.5 | 143.5 | 142.7 | 137.2 | 130.0 | 122.9 | 119.7 |
| 37.5° | 108.6 | 114.2 | 123.7 | 129.2 | 133.2 | 130.0 | 122.9 | 114.2 | 110.2 | 107.0 | 103.9 |
| 40° | 96.7 | 101.5 | 107.8 | 114.2 | 122.1 | 118.1 | 107.0 | 103.1 | 98.3 | 98.3 | 95.1 |
| 42.5° | 87.2 | 89.6 | 93.6 | 103.1 | 111.8 | 103.9 | 95.9 | 92.8 | 90.4 | 89.6 | 88.8 |
| 45° | 78.5 | 79.3 | 83.2 | 91.2 | 101.5 | 93.6 | 85.6 | 81.7 | 82.5 | 83.2 | 82.5 |
| 47.5° | 70.6 | 72.1 | 74.5 | 84.0 | 90.4 | 86.4 | 77.7 | 75.3 | 75.3 | 75.3 | 76.1 |
| 50° | 61.0 | 65.0 | 69.8 | 77.7 | 82.5 | 80.1 | 72.9 | 69.8 | 68.2 | 68.2 | 69.0 |
| 52.5° | 54.7 | 57.9 | 64.2 | 73.7 | 80.1 | 76.1 | 69.0 | 64.2 | 61.0 | 60.3 | 61.8 |
| 55° | 47.6 | 53.1 | 63.4 | 70.6 | 79.3 | 75.3 | 67.4 | 61.8 | 56.3 | 55.5 | 55.5 |
| 57.5° | 42.8 | 51.5 | 61.0 | 69.8 | 76.9 | 73.7 | 67.4 | 60.3 | 53.1 | 52.3 | 52.3 |
| 60° | 40.4 | 49.9 | 59.5 | 67.4 | 76.9 | 72.1 | 66.6 | 58.7 | 50.7 | 50.7 | 49.9 |
| 62.5° | 38.1 | 46.8 | 56.3 | 64.2 | 73.7 | 69.8 | 64.2 | 56.3 | 48.4 | 48.4 | 46.8 |
| 65° | 31.7 | 40.4 | 46.8 | 53.9 | 64.2 | 60.3 | 54.7 | 49.2 | 42.8 | 41.2 | 42.0 |
| 67.5° | 22.2 | 27.7 | 34.1 | 41.2 | 47.6 | 46.0 | 43.6 | 39.6 | 34.1 | 33.3 | 32.5 |
| 70° | 11.1 | 15.1 | 20.6 | 27.7 | 33.3 | 31.7 | 30.1 | 27.0 | 23.8 | 23.0 | 23.0 |
| 72.5° | 1.6 | 4.8 | 8.7 | 12.7 | 17.4 | 18.2 | 17.4 | 16.6 | 15.9 | 15.1 | 15.9 |
| 75° | 0.0 | 0.0 | 0.0 | 3.2 | 7.1 | 8.7 | 10.3 | 11.9 | 11.9 | 10.3 | 12.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.0 | 7.9 | 10.3 | 12.7 | 11.1 | 15.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.8 | 7.9 | 11.1 | 12.7 | 11.1 | 15.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 5.5 | 7.9 | 10.3 | 11.9 | 11.1 | 14.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 4.8 | 3.2 | 1.6 | 0.8 | 0.8 | 2.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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| 2.5° | 1770.4 | 1826.7 | 1886.9 | 1909.9 | 1981.3 | 2035.2 | 2071.7 | 2150.1 | 2162.0 | 2162.8 |
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| 20° | 267.2 | 310.0 | 386.1 | 511.4 | 692.9 | 919.7 | 1266.1 | 1742.6 | 1941.6 | 1989.2 |
| 22.5° | 211.7 | 229.1 | 279.1 | 390.1 | 581.1 | 855.5 | 1333.5 | 1968.6 | 2197.7 | 2266.7 |
| 25° | 183.9 | 193.4 | 217.2 | 307.6 | 510.6 | 849.1 | 1441.4 | 2239.7 | 2538.6 | 2588.6 |
| 27.5° | 177.6 | 179.2 | 199.8 | 282.2 | 472.5 | 807.1 | 1482.6 | 2432.4 | 2751.1 | 2801.8 |
| 30° | 187.1 | 212.5 | 214.1 | 238.6 | 402.0 | 723.8 | 1504.0 | 2618.7 | 2931.1 | 2968.3 |
| 32.5° | 161.7 | 153.8 | 159.4 | 184.7 | 353.6 | 675.5 | 1544.4 | 2781.2 | 3136.4 | 3162.6 |
| 35° | 112.6 | 118.1 | 130.8 | 160.2 | 309.2 | 624.7 | 1554.7 | 2960.4 | 3331.5 | 3358.4 |
| 37.5° | 103.9 | 107.0 | 117.3 | 136.4 | 271.9 | 596.2 | 1540.5 | 3091.2 | 3533.6 | 3570.9 |
| 40° | 96.7 | 100.7 | 106.2 | 123.7 | 244.2 | 564.5 | 1520.6 | 3209.4 | 3657.3 | 3749.3 |
| 42.5° | 91.2 | 94.3 | 99.1 | 118.1 | 220.4 | 532.8 | 1492.9 | 3375.9 | 3768.3 | 3848.4 |
| 45° | 84.8 | 89.6 | 95.1 | 115.0 | 206.9 | 511.4 | 1472.3 | 3365.5 | 3832.5 | 3875.3 |
| 47.5° | 78.5 | 86.4 | 92.8 | 107.0 | 203.0 | 501.1 | 1481.0 | 3326.7 | 3780.2 | 3750.9 |
| 50° | 72.1 | 82.5 | 93.6 | 88.8 | 193.4 | 480.5 | 1491.3 | 3379.8 | 3655.7 | 3650.2 |
| 52.5° | 66.6 | 78.5 | 87.2 | 72.9 | 172.0 | 460.6 | 1591.2 | 3449.6 | 3743.7 | 3670.0 |
| 55° | 58.7 | 70.6 | 69.8 | 58.7 | 139.5 | 445.6 | 1669.7 | 3451.2 | 3684.3 | 3712.0 |
| 57.5° | 53.1 | 62.6 | 54.7 | 49.2 | 103.1 | 372.6 | 1542.0 | 2893.8 | 3153.9 | 3203.0 |
| 60° | 49.2 | 61.0 | 41.2 | 38.8 | 67.4 | 268.8 | 1346.2 | 2241.3 | 2506.9 | 2599.7 |
| 62.5° | 45.2 | 57.9 | 32.5 | 31.7 | 46.8 | 191.1 | 1106.8 | 1875.8 | 2160.4 | 2286.5 |
| 65° | 39.6 | 41.2 | 26.2 | 24.6 | 33.3 | 103.1 | 673.9 | 1291.5 | 1615.0 | 1661.8 |
| 67.5° | 32.5 | 31.7 | 21.4 | 19.8 | 22.2 | 49.9 | 297.3 | 646.9 | 936.3 | 1014.8 |
| 70° | 26.2 | 26.2 | 18.2 | 15.9 | 15.9 | 23.0 | 77.7 | 257.7 | 423.4 | 468.6 |
| 72.5° | 19.0 | 19.8 | 14.3 | 12.7 | 11.9 | 11.1 | 12.7 | 51.5 | 111.0 | 141.9 |
| 75° | 16.6 | 17.4 | 14.3 | 11.1 | 8.7 | 7.1 | 5.5 | 4.8 | 6.3 | 10.3 |
| 77.5° | 18.2 | 18.2 | 15.1 | 10.3 | 7.9 | 5.5 | 3.2 | 1.6 | 1.6 | 0.8 |
| 80° | 23.0 | 23.8 | 19.8 | 13.5 | 9.5 | 6.3 | 4.0 | 1.6 | 0.8 | 0.8 |
| 82.5° | 24.6 | 27.0 | 22.2 | 16.6 | 11.9 | 7.1 | 4.0 | 0.8 | 0.0 | 0.0 |
| 85° | 6.3 | 10.3 | 17.4 | 15.1 | 11.9 | 7.1 | 4.0 | 0.8 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.8 | 2.4 | 2.4 | 3.2 | 3.2 | 2.4 | 0.8 | 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 |

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