

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: P650690

Luminaire Tested: **GALN-SA1C-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455.6 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

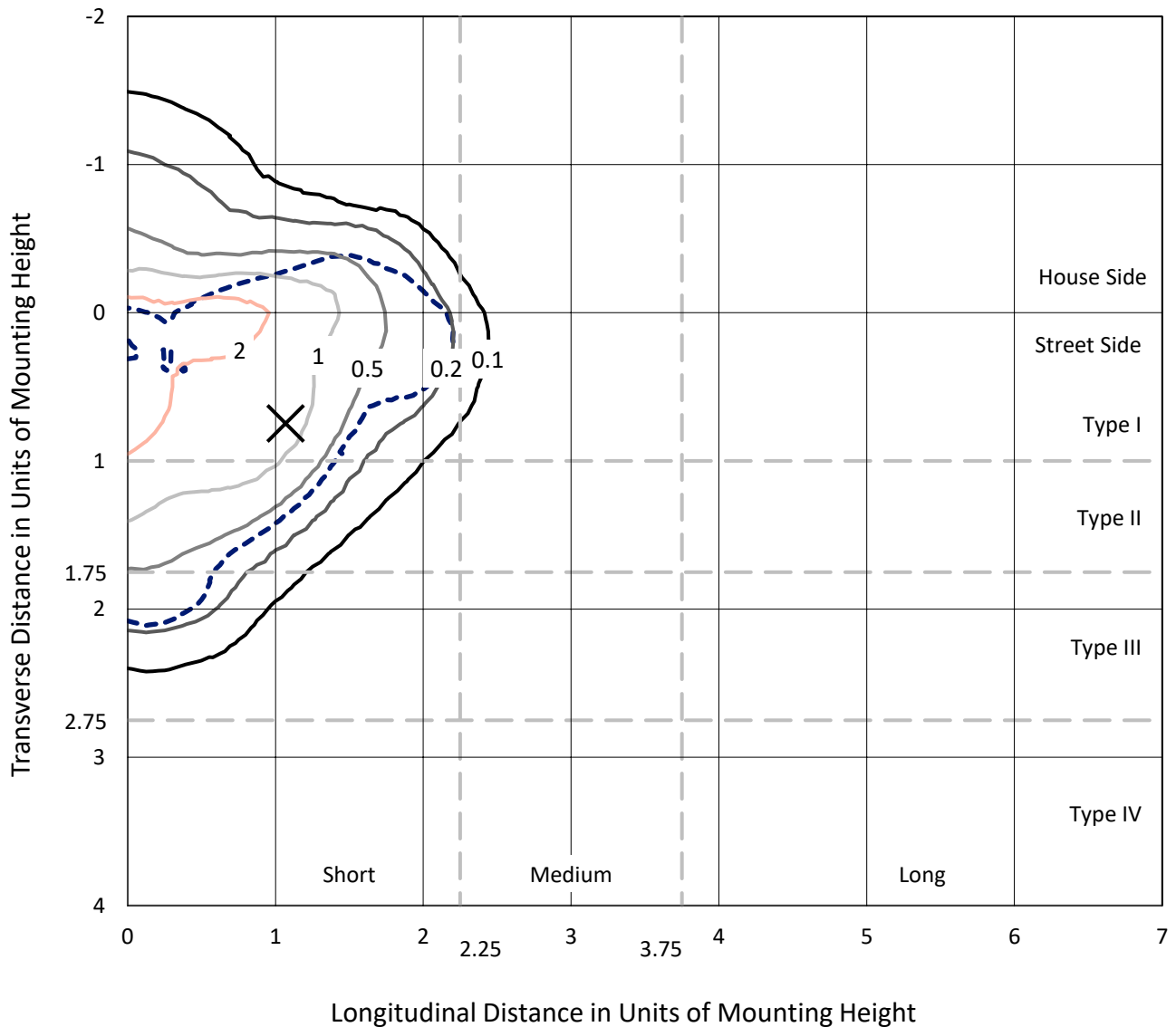
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650690
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Iso-Footcandle Lines of Horizontal Illumination

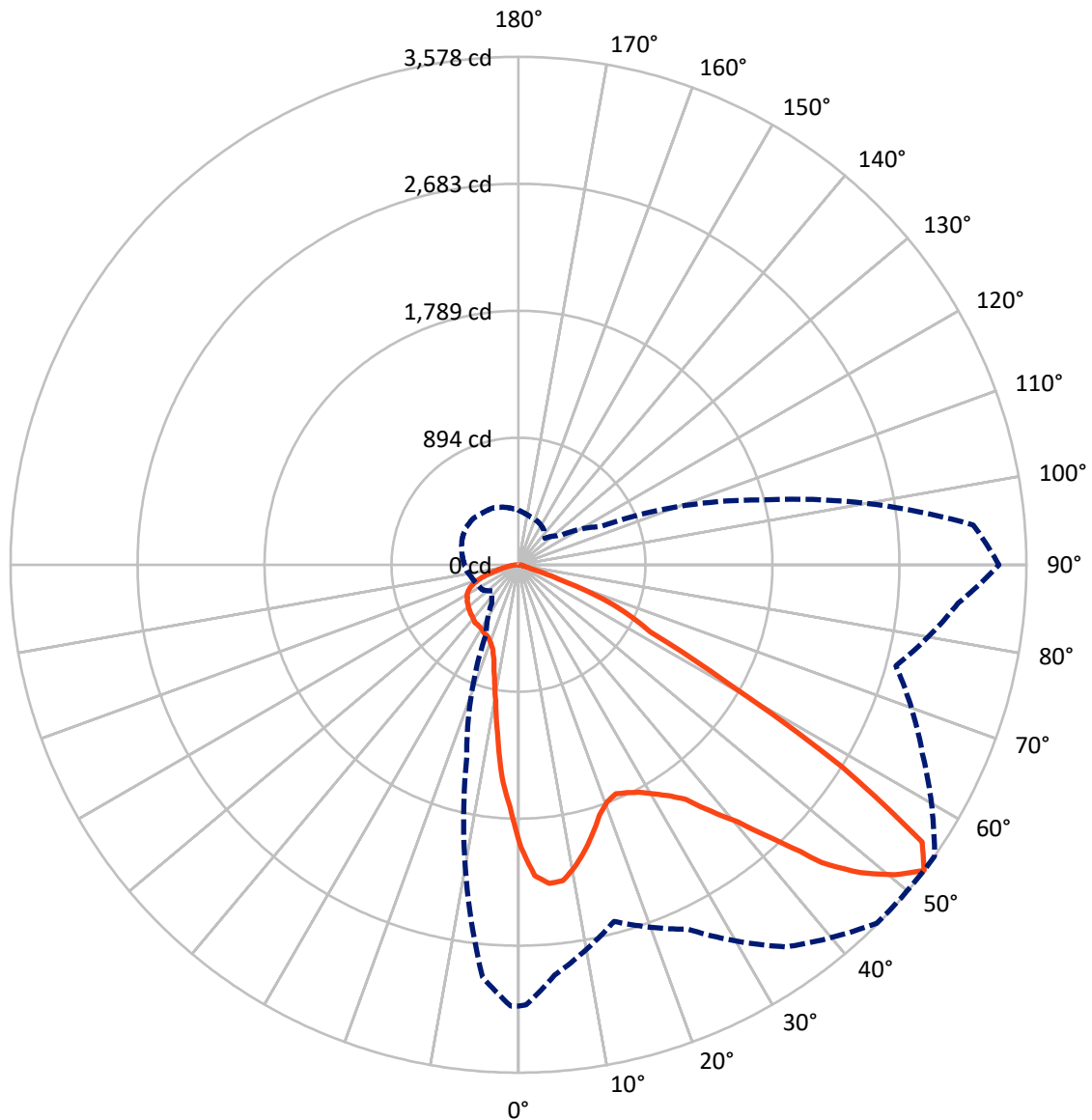
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1359.2 | 0.0 | 1359.2 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 3096.4 | 0.0 | 3096.4 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 4455.6 | 0.0 | 4455.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.8 | 3.4 |
| 10°-20° | 327.4 | 7.3 |
| 20°-30° | 496.4 | 11.1 |
| 30°-40° | 717.3 | 16.1 |
| 40°-50° | 958.5 | 21.5 |
| 50°-60° | 1069.9 | 24.0 |
| 60°-70° | 586.9 | 13.2 |
| 70°-80° | 126.9 | 2.8 |
| 80°-90° | 20.5 | 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° | 4455.6 | 100.0 |
| 0°-180° | 4455.6 | 100.0 |

Coefficient of Utilization



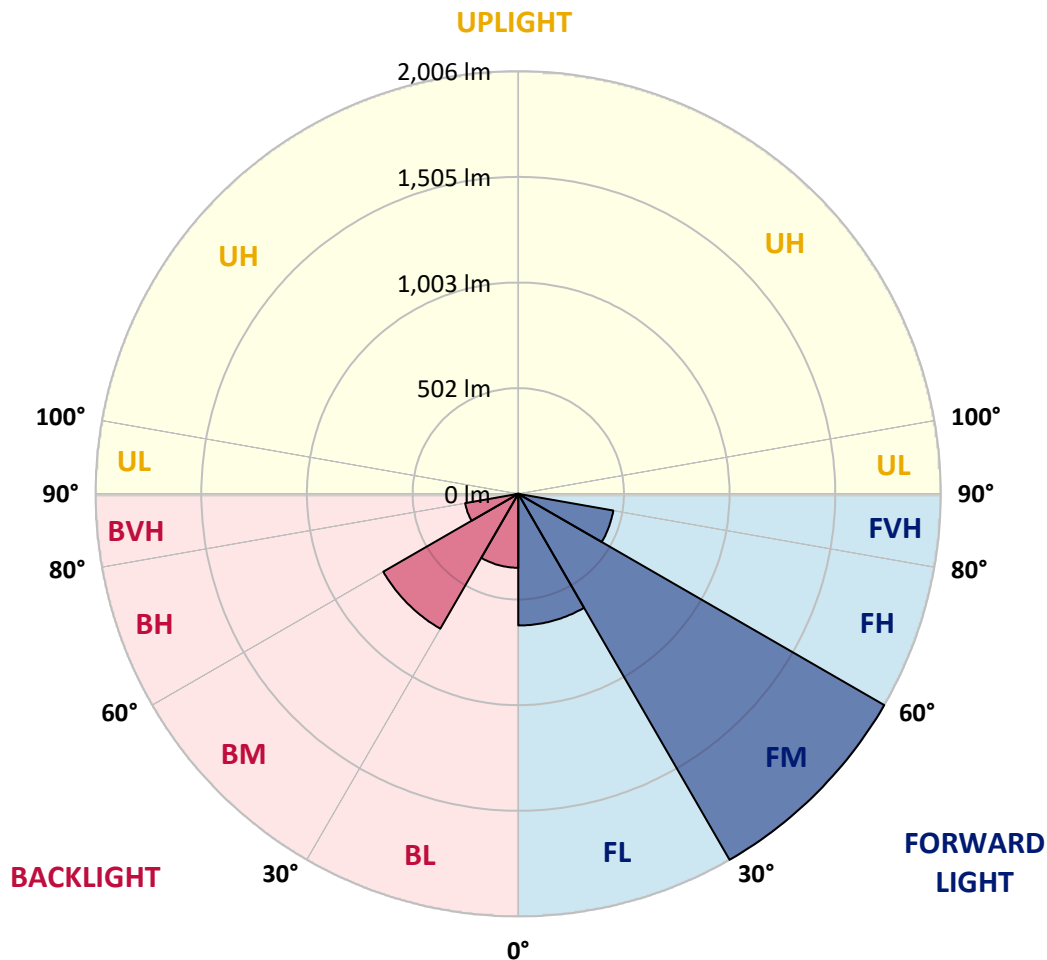
REPORT NUMBER: P650690
 CATALOG NUMBER: GALN-SA1C-840-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 624.8 | 14.0 | | | |
| FM (30°-60°) | 2006.1 | 45.0 | | | |
| FH (60°-80°) | 457.9 | 10.3 | | | G0/660 |
| FVH (80°-90°) | 7.6 | 0.2 | | | G0/10 |
| BL (0°-30°) | 350.9 | 7.9 | B1/500 | | |
| BM (30°-60°) | 739.5 | 16.6 | B1/1000 | | |
| BH (60°-80°) | 255.8 | 5.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CATALOG NUMBER: GALN-SA1C-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 |
| 2.5° | 2085.8 | 2074.1 | 2084.5 | 2134.0 | 2162.5 | 2182.1 | 2194.4 | 2192.5 | 2145.6 | 2100.1 | 2100.1 |
| 5° | 2024.6 | 2009.7 | 2031.1 | 2143.0 | 2255.6 | 2265.3 | 2281.6 | 2255.0 | 2186.0 | 2102.7 | 1998.6 |
| 7.5° | 1847.7 | 1858.7 | 1894.5 | 2041.5 | 2187.9 | 2261.4 | 2281.0 | 2247.2 | 2135.2 | 1979.7 | 1826.8 |
| 10° | 1694.8 | 1720.8 | 1803.4 | 1962.1 | 2096.9 | 2192.5 | 2213.9 | 2166.5 | 2077.9 | 1887.4 | 1750.7 |
| 12.5° | 1642.1 | 1625.8 | 1717.6 | 1876.3 | 2005.1 | 2056.5 | 2066.3 | 2069.5 | 2009.7 | 1840.5 | 1673.9 |
| 15° | 1635.6 | 1646.0 | 1717.6 | 1837.9 | 1917.3 | 1919.9 | 1936.2 | 1961.5 | 1969.4 | 1872.4 | 1709.8 |
| 17.5° | 1729.3 | 1716.9 | 1790.4 | 1886.0 | 1848.3 | 1810.6 | 1814.5 | 1851.0 | 1915.3 | 1899.7 | 1822.3 |
| 20° | 1867.9 | 1895.8 | 1953.7 | 1944.0 | 1842.5 | 1746.8 | 1747.5 | 1782.0 | 1908.8 | 2012.9 | 1979.1 |
| 22.5° | 2098.1 | 2125.5 | 2168.4 | 2050.7 | 1842.5 | 1728.0 | 1705.9 | 1752.7 | 1950.4 | 2147.6 | 2156.1 |
| 25° | 2308.3 | 2358.4 | 2370.1 | 2231.5 | 1934.9 | 1745.5 | 1731.2 | 1777.4 | 1992.1 | 2279.0 | 2359.0 |
| 27.5° | 2499.5 | 2517.8 | 2569.2 | 2348.0 | 1986.3 | 1757.3 | 1755.9 | 1815.1 | 2044.8 | 2344.7 | 2540.6 |
| 30° | 2650.5 | 2648.6 | 2677.8 | 2421.5 | 2068.2 | 1823.0 | 1759.9 | 1871.7 | 2113.8 | 2453.4 | 2708.4 |
| 32.5° | 2753.3 | 2775.4 | 2837.2 | 2523.7 | 2102.7 | 1885.4 | 1836.0 | 1938.1 | 2197.7 | 2504.8 | 2826.8 |
| 35° | 2934.2 | 2972.5 | 2894.5 | 2580.3 | 2212.0 | 1947.3 | 1889.3 | 2028.6 | 2239.3 | 2560.8 | 2971.9 |
| 37.5° | 3104.6 | 3075.4 | 2996.0 | 2610.8 | 2282.9 | 2061.7 | 2007.7 | 2203.5 | 2368.8 | 2682.4 | 3068.2 |
| 40° | 3213.9 | 3213.3 | 3072.1 | 2635.5 | 2333.0 | 2236.7 | 2233.4 | 2381.1 | 2527.5 | 2759.2 | 3176.2 |
| 42.5° | 3261.4 | 3307.0 | 3103.3 | 2632.9 | 2438.4 | 2448.8 | 2514.5 | 2646.6 | 2640.1 | 2774.8 | 3173.6 |
| 44° | 3326.5 | 3353.8 | 3157.3 | 2638.8 | 2508.7 | 2592.0 | 2746.8 | 2830.7 | 2738.3 | 2766.3 | 3170.3 |
| 45° | 3323.9 | 3325.8 | 3080.5 | 2646.6 | 2568.5 | 2711.6 | 2850.2 | 2992.0 | 2824.8 | 2748.1 | 3213.3 |
| 47.5° | 3247.8 | 3225.7 | 3015.5 | 2588.7 | 2755.3 | 3027.9 | 3156.0 | 3241.9 | 2931.6 | 2709.0 | 3159.9 |
| 50° | 3097.5 | 3072.1 | 2857.4 | 2564.0 | 2794.3 | 3224.3 | 3401.3 | 3432.5 | 3028.5 | 2670.7 | 3107.2 |
| 52.5° | 3107.8 | 3100.7 | 2902.3 | 2601.0 | 2833.3 | 3286.1 | 3569.8 | 3577.6 | 3138.4 | 2751.3 | 3107.8 |
| 55° | 3293.9 | 3269.2 | 3031.1 | 2647.2 | 2804.7 | 3213.9 | 3462.4 | 3448.8 | 3101.4 | 2702.6 | 3165.1 |
| 57.5° | 3014.1 | 3030.5 | 2852.8 | 2464.5 | 2454.7 | 2612.7 | 2722.1 | 2688.3 | 2588.0 | 2439.1 | 2944.6 |
| 60° | 2431.9 | 2478.1 | 2495.0 | 2061.0 | 1852.2 | 1770.9 | 1738.3 | 1678.6 | 1695.5 | 2003.9 | 2586.7 |
| 62.5° | 2085.8 | 2083.2 | 2189.2 | 1868.5 | 1213.3 | 1043.5 | 1028.0 | 1041.6 | 1236.8 | 1972.6 | 2533.4 |
| 65° | 1653.8 | 1698.1 | 1730.5 | 1583.5 | 960.3 | 774.8 | 774.2 | 860.8 | 1070.3 | 1648.6 | 2045.5 |
| 67.5° | 1050.1 | 1107.9 | 1148.3 | 1013.0 | 642.1 | 551.7 | 536.7 | 640.8 | 741.7 | 1081.3 | 1231.6 |
| 70° | 592.1 | 619.4 | 637.6 | 584.2 | 408.6 | 286.3 | 269.4 | 294.1 | 448.3 | 700.0 | 730.0 |
| 72.5° | 228.3 | 240.7 | 265.4 | 267.4 | 154.2 | 92.3 | 74.8 | 89.8 | 188.6 | 277.1 | 264.2 |
| 75° | 35.2 | 37.8 | 53.3 | 63.7 | 44.2 | 33.8 | 35.7 | 37.1 | 52.7 | 71.6 | 59.9 |
| 77.5° | 16.9 | 16.9 | 16.2 | 18.8 | 22.1 | 24.1 | 26.0 | 28.6 | 31.2 | 34.5 | 33.2 |
| 80° | 11.1 | 11.1 | 11.1 | 13.0 | 16.2 | 19.5 | 22.1 | 23.4 | 24.7 | 27.3 | 26.0 |
| 82.5° | 7.1 | 7.1 | 7.1 | 9.8 | 13.0 | 16.2 | 17.6 | 20.9 | 23.4 | 27.3 | 25.4 |
| 85° | 3.9 | 3.9 | 3.9 | 6.5 | 9.8 | 13.6 | 13.0 | 10.4 | 5.9 | 0.7 | 1.3 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 |
| 2.5° | 2045.5 | 2015.5 | 2012.9 | 1951.8 | 1897.1 | 1870.5 | 1848.9 | 1789.1 | 1802.1 | 1767.6 | 1767.0 |
| 5° | 1946.6 | 1885.4 | 1786.5 | 1705.2 | 1623.9 | 1607.6 | 1536.7 | 1474.9 | 1476.8 | 1432.6 | 1440.4 |
| 7.5° | 1769.0 | 1726.7 | 1606.3 | 1478.8 | 1370.8 | 1294.0 | 1227.0 | 1186.7 | 1135.3 | 1117.7 | 1108.6 |
| 10° | 1656.4 | 1604.4 | 1469.1 | 1309.0 | 1188.0 | 1147.0 | 1082.6 | 1046.8 | 994.1 | 968.1 | 949.8 |
| 12.5° | 1607.0 | 1530.9 | 1361.7 | 1199.0 | 1118.4 | 1076.1 | 1021.4 | 956.4 | 893.9 | 869.8 | 836.6 |
| 15° | 1612.2 | 1521.1 | 1330.5 | 1154.8 | 1057.9 | 975.9 | 927.1 | 854.9 | 791.1 | 748.8 | 724.8 |
| 17.5° | 1690.9 | 1580.3 | 1344.8 | 1121.0 | 981.7 | 878.9 | 783.3 | 705.3 | 654.5 | 622.6 | 614.8 |
| 20° | 1876.9 | 1726.7 | 1368.8 | 1066.3 | 905.6 | 777.4 | 659.7 | 578.4 | 539.3 | 538.7 | 539.3 |
| 22.5° | 2031.8 | 1882.8 | 1417.7 | 1033.8 | 829.5 | 647.3 | 530.3 | 504.2 | 496.4 | 512.7 | 514.6 |
| 25° | 2240.6 | 2058.4 | 1501.5 | 1016.9 | 759.3 | 551.7 | 479.5 | 469.7 | 469.1 | 489.9 | 490.6 |
| 27.5° | 2454.7 | 2212.0 | 1551.6 | 967.4 | 687.7 | 502.2 | 448.9 | 447.0 | 457.3 | 479.5 | 477.5 |
| 30° | 2600.4 | 2340.8 | 1642.1 | 908.2 | 603.1 | 458.7 | 436.6 | 439.2 | 453.5 | 470.4 | 473.0 |
| 32.5° | 2770.2 | 2467.7 | 1665.5 | 875.7 | 551.0 | 422.3 | 406.6 | 412.5 | 430.7 | 457.3 | 471.7 |
| 35° | 2964.8 | 2557.5 | 1701.3 | 831.4 | 531.5 | 394.3 | 386.4 | 392.9 | 415.1 | 432.6 | 448.3 |
| 37.5° | 3108.5 | 2716.2 | 1707.8 | 796.9 | 510.1 | 378.6 | 366.3 | 387.8 | 400.7 | 425.5 | 433.3 |
| 40° | 3215.2 | 2831.4 | 1724.7 | 775.5 | 493.2 | 358.4 | 358.4 | 372.8 | 390.4 | 413.1 | 428.7 |
| 42.5° | 3283.5 | 2915.3 | 1737.1 | 756.0 | 460.6 | 352.6 | 349.4 | 363.6 | 387.1 | 409.2 | 416.4 |
| 44° | 3325.1 | 2951.1 | 1724.7 | 737.8 | 451.5 | 345.5 | 345.5 | 357.8 | 376.0 | 402.1 | 410.5 |
| 45° | 3335.6 | 2996.0 | 1697.4 | 737.1 | 440.4 | 337.0 | 335.7 | 359.1 | 371.5 | 403.3 | 408.6 |
| 47.5° | 3375.9 | 3051.2 | 1700.7 | 716.3 | 413.8 | 316.8 | 339.6 | 350.0 | 361.0 | 389.0 | 406.6 |
| 50° | 3374.6 | 3085.7 | 1693.5 | 685.8 | 394.3 | 294.1 | 331.8 | 343.5 | 354.6 | 383.2 | 390.4 |
| 52.5° | 3383.7 | 3214.6 | 1759.2 | 636.9 | 359.1 | 264.8 | 305.8 | 331.8 | 345.5 | 369.5 | 384.5 |
| 55° | 3379.1 | 3288.1 | 1824.2 | 600.5 | 309.7 | 247.3 | 283.7 | 314.2 | 333.8 | 359.1 | 366.3 |
| 57.5° | 3086.4 | 2906.2 | 1688.3 | 532.2 | 256.3 | 226.4 | 252.5 | 296.0 | 320.8 | 346.7 | 355.9 |
| 60° | 2521.7 | 2240.0 | 1392.3 | 391.7 | 210.8 | 208.1 | 234.9 | 290.1 | 300.6 | 323.4 | 338.9 |
| 62.5° | 2330.4 | 1964.7 | 1104.1 | 299.3 | 180.2 | 190.7 | 216.6 | 262.2 | 278.5 | 306.5 | 320.8 |
| 65° | 1823.6 | 1305.1 | 683.7 | 202.3 | 158.8 | 171.1 | 195.9 | 229.7 | 256.3 | 282.3 | 299.3 |
| 67.5° | 1080.0 | 713.1 | 338.3 | 141.8 | 138.6 | 151.5 | 176.9 | 202.3 | 232.9 | 261.6 | 270.0 |
| 70° | 588.1 | 350.7 | 144.4 | 108.0 | 117.7 | 129.4 | 154.2 | 171.7 | 201.0 | 223.1 | 237.5 |
| 72.5° | 188.6 | 106.7 | 72.2 | 80.1 | 89.8 | 103.4 | 118.4 | 139.9 | 160.7 | 173.7 | 185.4 |
| 75° | 45.6 | 44.9 | 51.4 | 55.9 | 65.1 | 75.4 | 87.8 | 98.9 | 115.1 | 127.5 | 137.9 |
| 77.5° | 31.9 | 34.5 | 39.7 | 46.2 | 49.5 | 53.3 | 61.1 | 69.6 | 76.8 | 85.9 | 92.3 |
| 80° | 24.7 | 26.7 | 30.6 | 33.8 | 37.1 | 40.4 | 44.2 | 47.5 | 52.1 | 57.9 | 61.1 |
| 82.5° | 23.4 | 24.7 | 28.6 | 30.6 | 29.3 | 28.6 | 31.2 | 32.5 | 33.2 | 35.2 | 37.1 |
| 85° | 1.9 | 0.0 | 1.3 | 4.5 | 11.1 | 16.2 | 17.6 | 17.6 | 16.9 | 18.2 | 18.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.6 | 1.9 |
| 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-SA1C-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 | 1987.5 |
| 2.5° | 1759.2 | 1737.1 | 1745.5 | 1755.9 | 1741.0 | 1706.5 | 1715.6 | 1711.7 | 1746.8 | 1744.2 | 1779.4 |
| 5° | 1474.9 | 1440.4 | 1444.3 | 1495.0 | 1478.8 | 1496.4 | 1461.2 | 1456.7 | 1463.2 | 1466.5 | 1472.3 |
| 7.5° | 1128.8 | 1124.2 | 1163.3 | 1206.2 | 1226.3 | 1205.6 | 1171.1 | 1163.3 | 1156.1 | 1141.8 | 1174.3 |
| 10° | 921.2 | 922.6 | 920.0 | 952.4 | 975.2 | 970.7 | 949.8 | 947.2 | 933.6 | 928.4 | 946.6 |
| 12.5° | 822.3 | 804.8 | 796.3 | 785.9 | 803.5 | 815.2 | 806.1 | 799.5 | 800.2 | 806.8 | 809.3 |
| 15° | 726.7 | 715.6 | 697.4 | 685.8 | 694.2 | 688.4 | 685.1 | 698.1 | 694.8 | 693.5 | 709.1 |
| 17.5° | 619.4 | 628.5 | 627.1 | 614.2 | 625.2 | 620.7 | 620.0 | 610.9 | 598.5 | 589.5 | 594.7 |
| 20° | 548.4 | 565.3 | 578.4 | 579.0 | 584.9 | 584.2 | 574.5 | 546.5 | 537.4 | 535.5 | 536.7 |
| 22.5° | 523.1 | 532.2 | 547.8 | 569.9 | 569.9 | 559.5 | 547.8 | 515.3 | 506.8 | 497.7 | 493.8 |
| 25° | 502.9 | 520.5 | 540.7 | 543.2 | 553.6 | 543.9 | 525.0 | 508.7 | 491.2 | 478.9 | 478.9 |
| 27.5° | 492.5 | 512.0 | 527.0 | 531.5 | 545.8 | 538.1 | 518.6 | 497.7 | 476.8 | 476.3 | 465.2 |
| 30° | 487.9 | 506.2 | 516.0 | 527.0 | 533.4 | 521.1 | 515.3 | 493.2 | 472.3 | 467.1 | 448.9 |
| 32.5° | 474.2 | 500.3 | 518.6 | 516.0 | 521.1 | 516.0 | 507.5 | 489.2 | 465.8 | 454.1 | 452.1 |
| 35° | 458.7 | 484.7 | 504.2 | 517.9 | 521.1 | 510.1 | 504.9 | 480.1 | 448.3 | 442.4 | 422.3 |
| 37.5° | 450.2 | 465.8 | 489.9 | 512.0 | 516.5 | 510.7 | 493.2 | 467.8 | 435.9 | 429.4 | 411.8 |
| 40° | 439.8 | 459.9 | 478.9 | 497.0 | 510.7 | 496.4 | 476.3 | 451.5 | 437.2 | 417.6 | 412.5 |
| 42.5° | 432.0 | 454.7 | 470.4 | 490.6 | 506.2 | 487.3 | 463.9 | 447.0 | 426.8 | 413.8 | 398.8 |
| 44° | 429.4 | 450.2 | 460.6 | 485.3 | 498.4 | 484.1 | 464.5 | 447.0 | 423.5 | 411.8 | 398.8 |
| 45° | 420.2 | 448.9 | 459.9 | 482.1 | 493.2 | 481.5 | 456.7 | 439.2 | 422.3 | 407.9 | 394.3 |
| 47.5° | 411.2 | 430.7 | 449.6 | 467.1 | 474.9 | 471.0 | 450.2 | 428.7 | 408.6 | 400.1 | 387.1 |
| 50° | 408.6 | 428.1 | 445.6 | 461.9 | 471.0 | 463.2 | 444.4 | 423.5 | 400.1 | 386.4 | 375.4 |
| 52.5° | 395.5 | 419.7 | 439.2 | 444.4 | 456.1 | 451.5 | 437.2 | 414.4 | 392.3 | 380.6 | 371.5 |
| 55° | 376.7 | 402.1 | 428.7 | 435.2 | 452.1 | 445.0 | 423.5 | 402.1 | 383.2 | 365.7 | 353.9 |
| 57.5° | 369.5 | 394.3 | 420.2 | 428.7 | 439.2 | 427.4 | 422.3 | 399.5 | 369.5 | 360.5 | 342.2 |
| 60° | 351.3 | 382.6 | 404.0 | 423.5 | 424.2 | 420.9 | 411.8 | 385.8 | 361.0 | 344.1 | 331.2 |
| 62.5° | 337.0 | 366.3 | 383.2 | 401.4 | 412.5 | 403.3 | 394.3 | 370.2 | 343.5 | 324.6 | 309.7 |
| 65° | 316.2 | 342.9 | 357.2 | 368.3 | 380.6 | 379.3 | 363.6 | 346.1 | 318.2 | 303.2 | 288.9 |
| 67.5° | 284.3 | 307.7 | 327.2 | 337.7 | 345.5 | 343.5 | 331.8 | 319.4 | 290.8 | 275.8 | 265.4 |
| 70° | 245.9 | 270.0 | 282.3 | 288.2 | 296.0 | 299.9 | 290.8 | 284.9 | 259.6 | 240.1 | 230.3 |
| 72.5° | 197.8 | 213.4 | 231.6 | 236.8 | 240.1 | 242.6 | 242.6 | 237.5 | 211.4 | 203.6 | 186.7 |
| 75° | 145.7 | 158.1 | 171.7 | 171.7 | 177.6 | 178.3 | 179.6 | 176.3 | 156.8 | 146.4 | 142.5 |
| 77.5° | 98.9 | 108.0 | 119.1 | 123.6 | 127.5 | 126.9 | 126.2 | 117.1 | 106.7 | 102.2 | 98.2 |
| 80° | 64.4 | 73.5 | 78.7 | 84.6 | 88.5 | 87.8 | 89.1 | 82.6 | 78.0 | 70.2 | 71.6 |
| 82.5° | 38.3 | 45.6 | 50.7 | 57.9 | 57.9 | 59.9 | 59.9 | 57.9 | 53.3 | 49.5 | 49.5 |
| 85° | 18.2 | 24.1 | 27.3 | 31.9 | 34.5 | 35.2 | 31.2 | 26.7 | 22.1 | 20.2 | 22.1 |
| 87.5° | 3.3 | 4.5 | 6.5 | 5.9 | 7.1 | 6.5 | 6.5 | 6.5 | 6.5 | 5.2 | 5.9 |
| 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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| 32.5° | 428.1 | 402.8 | 392.9 | 400.7 | 521.8 | 777.4 | 1496.4 | 2461.9 | 2773.4 | 2753.3 |
| 35° | 402.1 | 379.3 | 372.8 | 380.6 | 484.1 | 741.7 | 1472.3 | 2559.4 | 2900.4 | 2934.2 |
| 37.5° | 392.3 | 372.1 | 359.1 | 352.6 | 448.9 | 711.7 | 1459.9 | 2709.7 | 3023.3 | 3104.6 |
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| 50° | 350.0 | 335.7 | 314.9 | 286.9 | 348.1 | 556.9 | 1369.5 | 2841.2 | 3091.6 | 3097.5 |
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| 62.5° | 281.7 | 271.3 | 213.4 | 182.8 | 174.3 | 299.9 | 1106.7 | 1801.5 | 2038.9 | 2085.8 |
| 65° | 260.2 | 234.9 | 195.9 | 166.5 | 149.6 | 210.2 | 784.0 | 1346.1 | 1590.7 | 1653.8 |
| 67.5° | 232.9 | 205.6 | 172.4 | 146.4 | 128.2 | 140.5 | 404.7 | 765.1 | 1013.0 | 1050.1 |
| 70° | 203.6 | 178.3 | 145.1 | 123.6 | 103.4 | 97.0 | 178.3 | 365.0 | 553.6 | 592.1 |
| 72.5° | 167.2 | 143.8 | 115.8 | 97.6 | 77.5 | 67.0 | 59.9 | 97.6 | 196.5 | 228.3 |
| 75° | 121.0 | 104.7 | 87.2 | 69.6 | 54.7 | 43.0 | 35.2 | 29.3 | 32.5 | 35.2 |
| 77.5° | 89.1 | 76.1 | 64.4 | 49.5 | 38.3 | 30.6 | 24.1 | 18.2 | 17.6 | 16.9 |
| 80° | 69.6 | 61.8 | 51.4 | 39.7 | 29.9 | 22.8 | 16.9 | 12.4 | 11.1 | 11.1 |
| 82.5° | 54.7 | 50.7 | 42.3 | 32.5 | 24.7 | 18.2 | 12.4 | 8.5 | 7.1 | 7.1 |
| 85° | 20.9 | 20.9 | 30.6 | 26.7 | 18.8 | 13.0 | 8.5 | 4.5 | 3.9 | 3.9 |
| 87.5° | 5.2 | 5.2 | 5.2 | 5.2 | 4.5 | 3.9 | 3.9 | 1.9 | 1.3 | 1.3 |
| 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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