

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: P531244

Luminaire Tested: **GALN-SA6C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35044 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

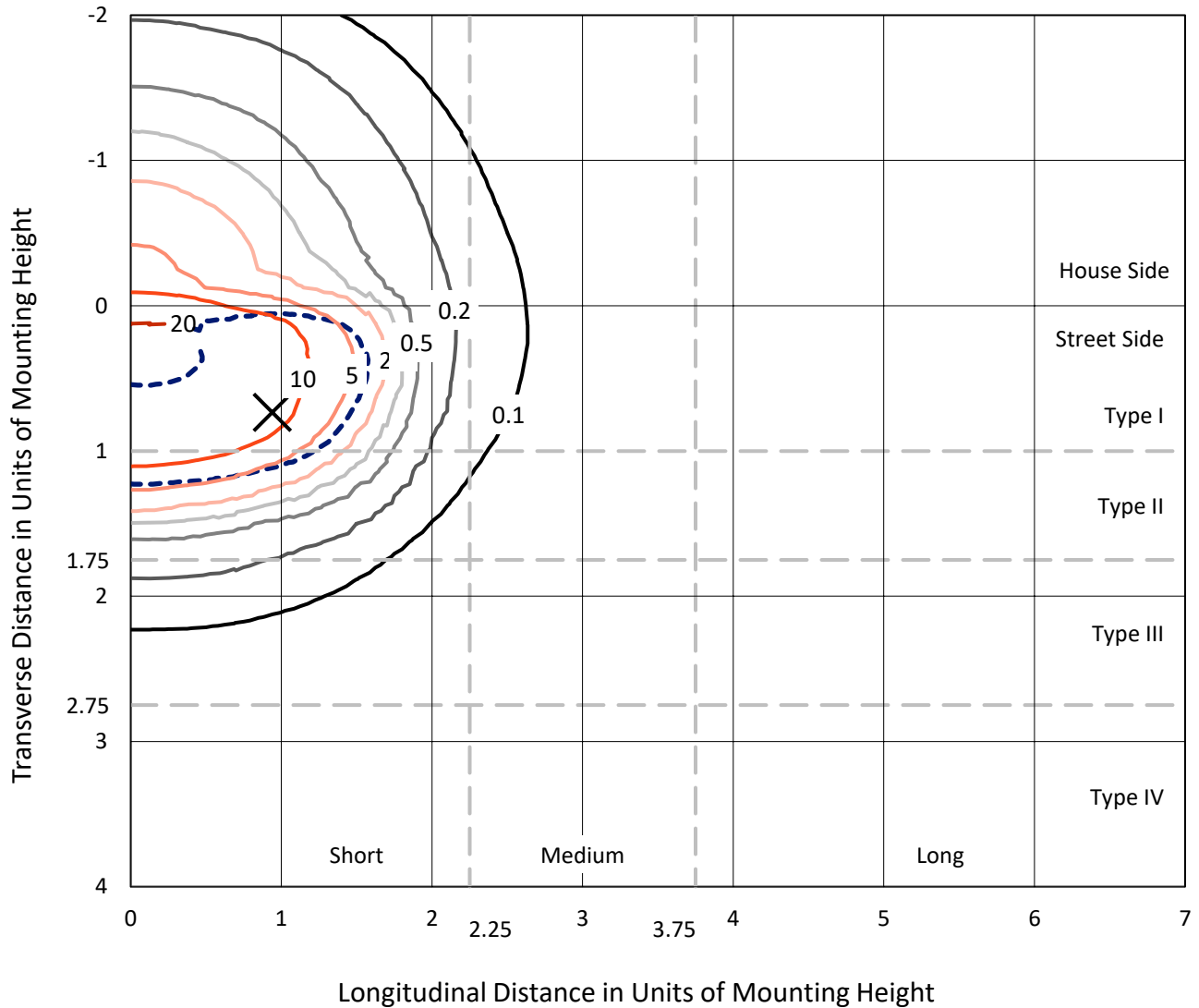
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

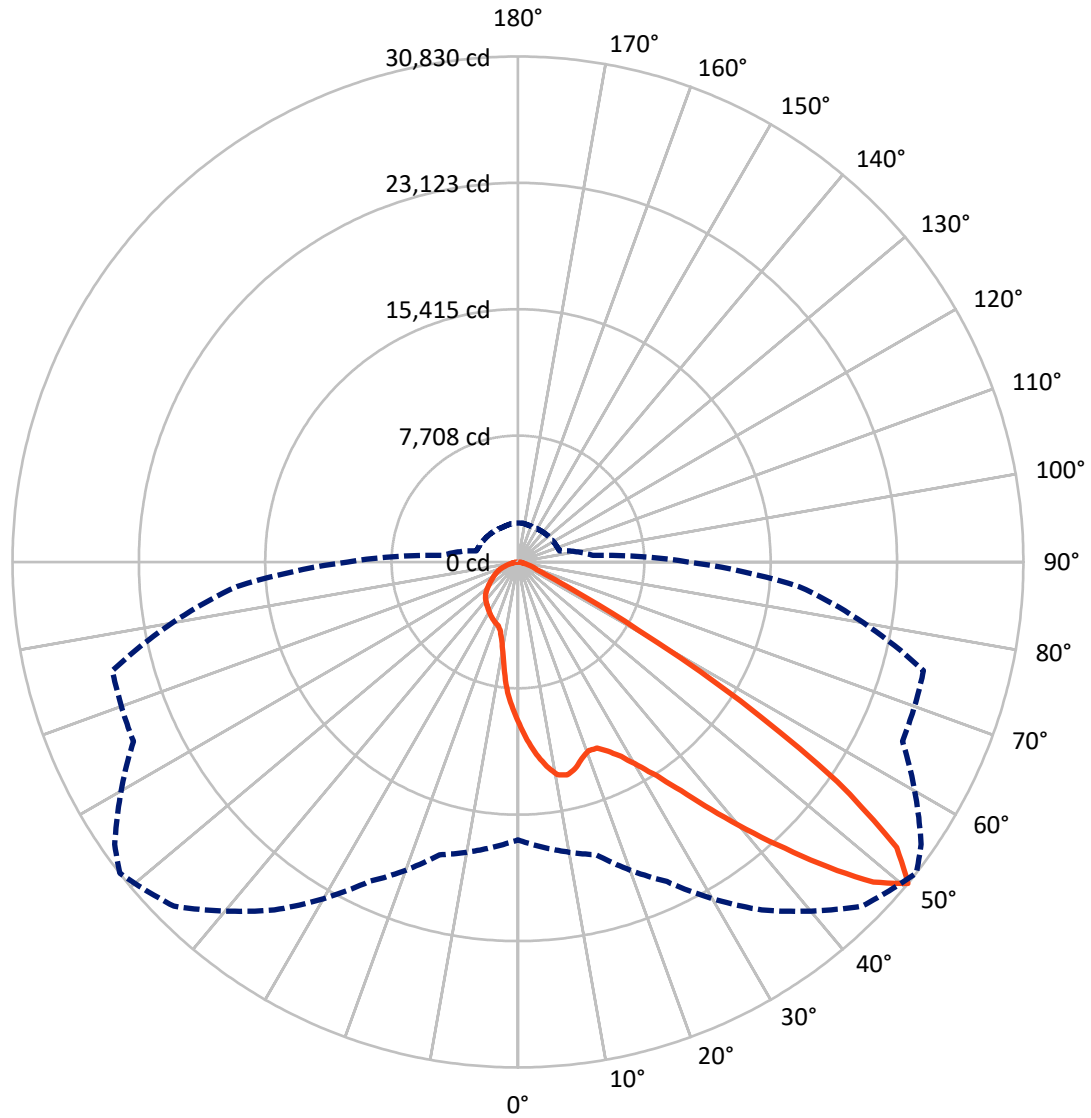
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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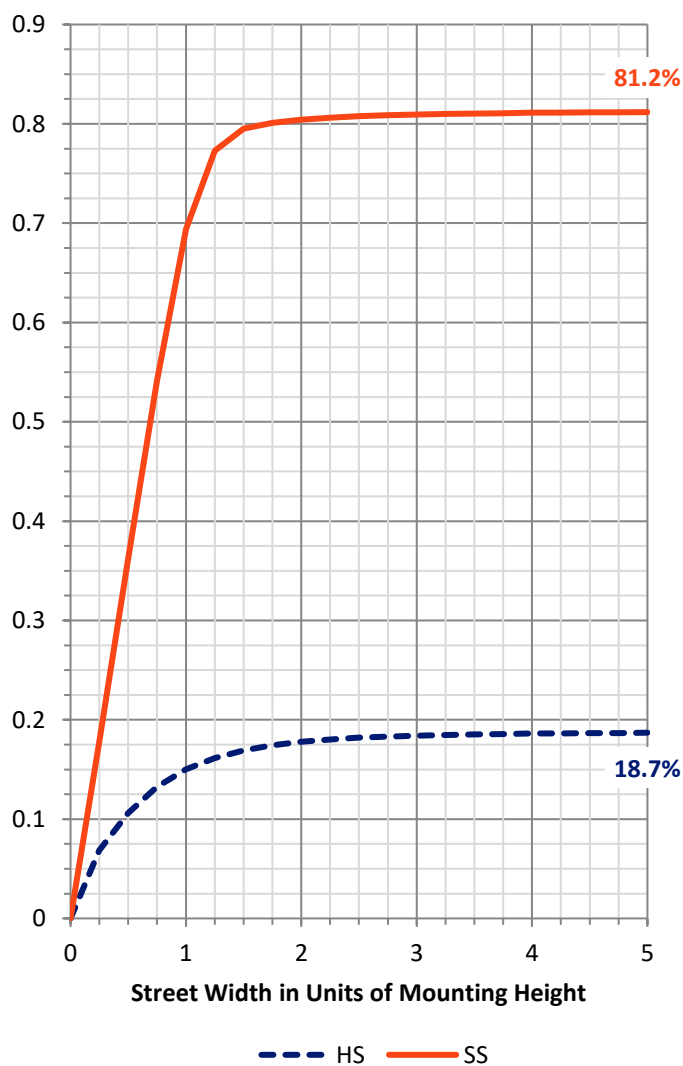
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6587.4 | 0.0 | 6587.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 28456.5 | 0.0 | 28456.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 35044.0 | 0.0 | 35044.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 910.5 | 2.6 |
| 10°-20° | 2440.3 | 7.0 |
| 20°-30° | 4110.6 | 11.7 |
| 30°-40° | 6898.0 | 19.7 |
| 40°-50° | 10552.2 | 30.1 |
| 50°-60° | 7693.4 | 22.0 |
| 60°-70° | 1712.2 | 4.9 |
| 70°-80° | 617.6 | 1.8 |
| 80°-90° | 109.3 | 0.3 |
| 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° | 35044.0 | 100.0 |
| 0°-180° | 35044.0 | 100.0 |

Coefficient of Utilization



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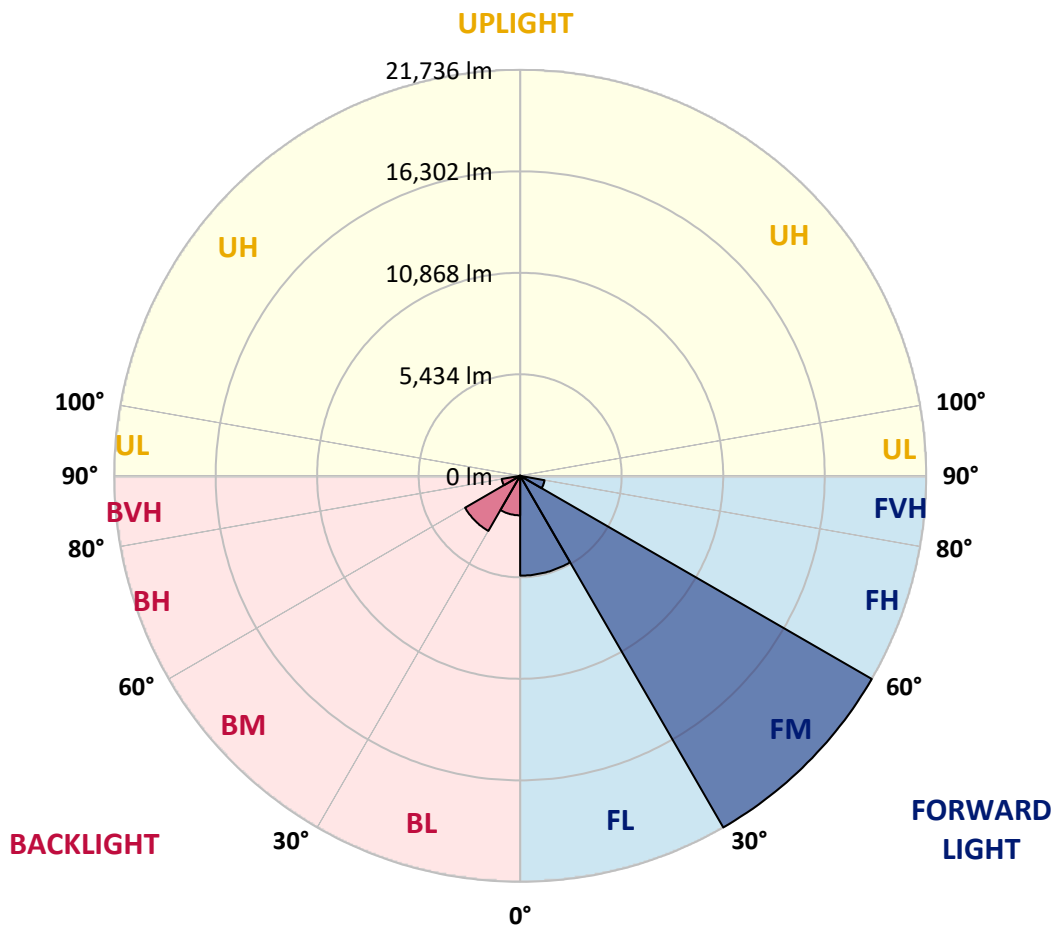
CATALOG NUMBER: GALN-SA6C-735-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5345.4 | 15.3 | | | |
| FM (30°-60°) | 21736.1 | 62.0 | | | |
| FH (60°-80°) | 1326.1 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 49.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2116.0 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3407.5 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 1003.6 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 60.3 | 0.2 | | | 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° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 |
| 2.5° | 11631.0 | 11407.2 | 11432.5 | 11272.0 | 11098.9 | 11048.2 | 10870.8 | 10701.9 | 10575.2 | 10304.9 | 10055.7 |
| 5° | 12712.2 | 12644.6 | 12543.2 | 12416.5 | 12285.6 | 11964.6 | 11783.0 | 11571.9 | 11107.3 | 10689.2 | 10275.3 |
| 7.5° | 12868.4 | 12855.8 | 12910.7 | 12910.7 | 12957.1 | 12834.6 | 12577.0 | 12429.2 | 11935.1 | 11255.1 | 10486.5 |
| 10° | 11770.4 | 11808.4 | 12074.4 | 12420.8 | 12902.2 | 13235.9 | 13193.6 | 13155.6 | 12615.0 | 11685.9 | 10735.7 |
| 12.5° | 10896.1 | 10811.7 | 10967.9 | 11263.6 | 11985.8 | 12792.4 | 13337.2 | 13341.4 | 13202.1 | 12374.3 | 10917.3 |
| 15° | 10402.0 | 10461.1 | 10503.4 | 10642.7 | 11187.5 | 12120.9 | 13079.6 | 13362.6 | 13974.9 | 12860.0 | 11204.4 |
| 17.5° | 10718.8 | 10520.3 | 10511.8 | 10545.6 | 10824.3 | 11525.4 | 12602.4 | 13088.0 | 14397.3 | 13485.0 | 11559.2 |
| 20° | 11132.6 | 11128.4 | 11010.2 | 10967.9 | 10963.7 | 11588.8 | 12289.8 | 12948.7 | 14621.1 | 14295.9 | 11918.2 |
| 22.5° | 11859.1 | 11859.1 | 11664.8 | 11571.9 | 11373.4 | 11884.4 | 12332.1 | 12779.7 | 14992.8 | 14853.4 | 12091.3 |
| 25° | 13075.4 | 12876.9 | 12543.2 | 12315.2 | 12201.1 | 12382.7 | 12779.7 | 13181.0 | 15317.9 | 15444.6 | 12450.3 |
| 27.5° | 14198.8 | 13886.2 | 13721.5 | 13328.8 | 13176.7 | 13071.1 | 13434.3 | 13839.8 | 15698.0 | 16365.3 | 12644.6 |
| 30° | 15474.2 | 15419.3 | 15123.7 | 14616.9 | 14241.0 | 14046.7 | 14380.4 | 14781.6 | 16394.9 | 17307.1 | 13092.3 |
| 32.5° | 17754.8 | 17256.4 | 16855.2 | 16234.4 | 15622.0 | 15208.1 | 15537.6 | 15803.6 | 17552.1 | 18291.2 | 13582.2 |
| 35° | 20217.0 | 20056.5 | 19363.9 | 18244.7 | 17307.1 | 16935.5 | 17129.7 | 17328.2 | 18899.3 | 19794.7 | 14405.7 |
| 37.5° | 22636.9 | 22417.3 | 21847.2 | 20905.4 | 19765.1 | 19009.1 | 19148.5 | 19380.8 | 20411.3 | 21821.8 | 15410.9 |
| 40° | 24376.9 | 24106.7 | 23819.5 | 23680.1 | 22548.3 | 21513.5 | 21433.3 | 21492.4 | 22455.3 | 23722.3 | 16525.8 |
| 42.5° | 24503.6 | 24837.3 | 24926.0 | 25487.7 | 25221.6 | 24372.7 | 23878.6 | 23891.3 | 24406.5 | 25601.7 | 17653.4 |
| 45° | 24237.6 | 23929.3 | 24583.9 | 26117.0 | 26995.4 | 27392.4 | 26560.4 | 26454.8 | 25614.4 | 26691.3 | 18215.1 |
| 47.5° | 21446.0 | 21530.4 | 22636.9 | 25061.1 | 27599.3 | 29373.1 | 29178.9 | 28828.3 | 26260.5 | 26653.3 | 18126.4 |
| 50° | 16952.4 | 17463.4 | 18489.7 | 21509.3 | 25910.0 | 29685.6 | 30830.2 | 30019.3 | 25876.2 | 25605.9 | 17222.7 |
| 52.5° | 11288.9 | 11500.1 | 12175.8 | 16073.9 | 20833.6 | 26535.1 | 28929.7 | 29115.5 | 25521.5 | 24233.4 | 16078.1 |
| 55° | 5025.7 | 5008.8 | 5959.1 | 8395.9 | 13071.1 | 20191.6 | 23637.9 | 24769.7 | 24157.3 | 22835.4 | 14963.2 |
| 57.5° | 2128.5 | 2200.3 | 2588.9 | 3627.8 | 6427.9 | 12184.3 | 16014.8 | 17007.3 | 18578.3 | 18751.5 | 11479.0 |
| 60° | 1440.1 | 1448.6 | 1554.2 | 1816.0 | 2690.2 | 5722.6 | 8400.2 | 9591.1 | 10714.5 | 10638.5 | 6090.0 |
| 62.5° | 1131.8 | 1161.4 | 1241.7 | 1347.2 | 1596.4 | 2597.3 | 3758.7 | 4421.8 | 4493.6 | 3779.9 | 2310.2 |
| 65° | 967.1 | 971.4 | 1051.6 | 1140.3 | 1250.1 | 1511.9 | 1811.8 | 1845.6 | 1866.7 | 1799.1 | 1697.8 |
| 67.5° | 798.2 | 806.7 | 870.0 | 971.4 | 1072.7 | 1157.2 | 1241.7 | 1283.9 | 1381.0 | 1571.1 | 1545.7 |
| 70° | 633.5 | 646.2 | 701.1 | 785.5 | 878.4 | 929.1 | 1034.7 | 1072.7 | 1161.4 | 1309.2 | 1368.4 |
| 72.5° | 481.5 | 485.7 | 532.1 | 591.3 | 675.7 | 726.4 | 815.1 | 857.3 | 916.5 | 1043.2 | 1098.1 |
| 75° | 346.3 | 359.0 | 392.8 | 422.3 | 435.0 | 468.8 | 553.3 | 599.7 | 684.2 | 739.1 | 743.3 |
| 77.5° | 181.6 | 190.0 | 198.5 | 198.5 | 240.7 | 304.1 | 359.0 | 384.3 | 443.4 | 485.7 | 464.6 |
| 80° | 71.8 | 76.0 | 97.1 | 130.9 | 168.9 | 219.6 | 257.6 | 270.3 | 321.0 | 346.3 | 359.0 |
| 82.5° | 42.2 | 46.5 | 63.3 | 92.9 | 122.5 | 156.3 | 185.8 | 198.5 | 232.3 | 261.8 | 270.3 |
| 85° | 21.1 | 25.3 | 38.0 | 59.1 | 80.2 | 97.1 | 92.9 | 88.7 | 88.7 | 84.5 | 88.7 |
| 87.5° | 8.4 | 8.4 | 12.7 | 12.7 | 12.7 | 16.9 | 21.1 | 21.1 | 21.1 | 25.3 | 25.3 |
| 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-SA6C-735-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 | 9878.3 |
| 2.5° | 9891.0 | 9722.1 | 9565.8 | 9278.6 | 8966.1 | 8877.4 | 8514.2 | 8383.3 | 8290.4 | 8180.6 | 8146.8 |
| 5° | 9941.7 | 9717.8 | 9215.3 | 8636.7 | 8176.3 | 7585.1 | 7196.5 | 6778.4 | 6474.3 | 6398.3 | 6377.2 |
| 7.5° | 10047.3 | 9662.9 | 8797.2 | 7922.9 | 6981.1 | 6178.7 | 5566.3 | 5236.9 | 4945.5 | 4928.6 | 4899.0 |
| 10° | 10165.5 | 9498.2 | 8341.0 | 6968.5 | 5764.8 | 5021.5 | 4654.1 | 4510.5 | 4438.7 | 4421.8 | 4413.4 |
| 12.5° | 10262.6 | 9464.4 | 7830.0 | 6039.3 | 4903.3 | 4455.6 | 4345.8 | 4333.1 | 4362.7 | 4371.1 | 4388.0 |
| 15° | 10304.9 | 9329.3 | 7213.4 | 5207.3 | 4366.9 | 4202.2 | 4248.7 | 4299.3 | 4320.4 | 4375.3 | 4333.1 |
| 17.5° | 10385.1 | 9156.1 | 6453.2 | 4548.5 | 4067.0 | 4096.6 | 4176.9 | 4236.0 | 4269.8 | 4307.8 | 4252.9 |
| 20° | 10427.4 | 8999.9 | 5739.5 | 4155.7 | 3961.5 | 4016.4 | 4126.2 | 4172.6 | 4214.9 | 4231.8 | 4168.4 |
| 22.5° | 10389.3 | 8678.9 | 5110.2 | 3839.0 | 3860.1 | 3931.9 | 4029.0 | 4079.7 | 4054.4 | 3986.8 | 3948.8 |
| 25° | 10288.0 | 8227.0 | 4455.6 | 3636.3 | 3716.5 | 3843.2 | 3919.2 | 3881.2 | 3834.8 | 3796.8 | 3784.1 |
| 27.5° | 10283.8 | 7673.8 | 3982.6 | 3450.4 | 3594.0 | 3767.2 | 3741.9 | 3708.1 | 3729.2 | 3699.6 | 3665.8 |
| 30° | 10304.9 | 7137.4 | 3594.0 | 3344.9 | 3505.3 | 3589.8 | 3619.4 | 3585.6 | 3610.9 | 3556.0 | 3572.9 |
| 32.5° | 10195.1 | 6613.7 | 3340.6 | 3222.4 | 3399.8 | 3395.5 | 3492.7 | 3518.0 | 3458.9 | 3344.9 | 3361.8 |
| 35° | 10241.5 | 6191.4 | 3125.2 | 3167.5 | 3281.5 | 3281.5 | 3357.5 | 3328.0 | 3171.7 | 3104.1 | 3121.0 |
| 37.5° | 10562.5 | 5777.5 | 3019.7 | 3091.5 | 3167.5 | 3201.3 | 3175.9 | 3049.2 | 3011.2 | 3011.2 | 3019.7 |
| 40° | 10866.6 | 5422.7 | 2956.3 | 3074.6 | 3061.9 | 3083.0 | 2897.2 | 2909.9 | 2909.9 | 2914.1 | 2893.0 |
| 42.5° | 11136.9 | 5182.0 | 2905.6 | 2973.2 | 2994.3 | 2884.5 | 2770.5 | 2757.8 | 2787.4 | 2783.2 | 2766.3 |
| 45° | 11234.0 | 4983.5 | 2833.8 | 2859.2 | 2876.1 | 2694.5 | 2639.6 | 2614.2 | 2648.0 | 2660.7 | 2677.6 |
| 47.5° | 10862.4 | 4818.8 | 2753.6 | 2702.9 | 2669.1 | 2550.9 | 2479.1 | 2432.6 | 2474.9 | 2546.7 | 2563.5 |
| 50° | 10385.1 | 4603.4 | 2626.9 | 2529.8 | 2458.0 | 2407.3 | 2356.6 | 2310.2 | 2339.7 | 2390.4 | 2377.7 |
| 52.5° | 9679.8 | 4265.5 | 2466.4 | 2365.1 | 2242.6 | 2255.2 | 2208.8 | 2183.5 | 2200.3 | 2200.3 | 2187.7 |
| 55° | 8674.7 | 3505.3 | 2196.1 | 2124.3 | 2023.0 | 2056.8 | 2065.2 | 2031.4 | 1997.6 | 2027.2 | 2001.8 |
| 57.5° | 5921.1 | 2474.9 | 1959.6 | 1959.6 | 1858.3 | 1904.7 | 1900.5 | 1820.2 | 1740.0 | 1748.5 | 1731.6 |
| 60° | 3425.1 | 1972.3 | 1807.6 | 1790.7 | 1685.1 | 1723.1 | 1731.6 | 1676.7 | 1554.2 | 1562.6 | 1545.7 |
| 62.5° | 1946.9 | 1685.1 | 1579.5 | 1554.2 | 1533.1 | 1566.8 | 1566.8 | 1495.1 | 1389.5 | 1397.9 | 1381.0 |
| 65° | 1655.5 | 1562.6 | 1410.6 | 1406.4 | 1397.9 | 1406.4 | 1372.6 | 1296.6 | 1203.6 | 1165.6 | 1169.9 |
| 67.5° | 1503.5 | 1444.4 | 1296.6 | 1258.5 | 1233.2 | 1229.0 | 1165.6 | 1093.8 | 1051.6 | 1017.8 | 1013.6 |
| 70° | 1317.7 | 1271.2 | 1161.4 | 1110.7 | 1085.4 | 1026.3 | 962.9 | 916.5 | 857.3 | 840.4 | 857.3 |
| 72.5° | 1043.2 | 1038.9 | 996.7 | 941.8 | 886.9 | 840.4 | 785.5 | 722.2 | 667.3 | 654.6 | 625.0 |
| 75° | 722.2 | 730.6 | 739.1 | 730.6 | 684.2 | 625.0 | 561.7 | 511.0 | 443.4 | 405.4 | 397.0 |
| 77.5° | 473.0 | 485.7 | 498.4 | 481.5 | 451.9 | 397.0 | 354.8 | 291.4 | 240.7 | 211.2 | 206.9 |
| 80° | 346.3 | 363.2 | 371.7 | 359.0 | 325.2 | 283.0 | 236.5 | 185.8 | 147.8 | 122.5 | 122.5 |
| 82.5° | 266.1 | 283.0 | 291.4 | 270.3 | 236.5 | 202.7 | 168.9 | 130.9 | 101.4 | 80.2 | 76.0 |
| 85° | 92.9 | 88.7 | 105.6 | 109.8 | 130.9 | 122.5 | 101.4 | 76.0 | 59.1 | 42.2 | 38.0 |
| 87.5° | 25.3 | 25.3 | 29.6 | 29.6 | 25.3 | 21.1 | 21.1 | 21.1 | 16.9 | 12.7 | 12.7 |
| 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)