

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: P456342

Luminaire Tested: **GALN-SA7C-760-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49448 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

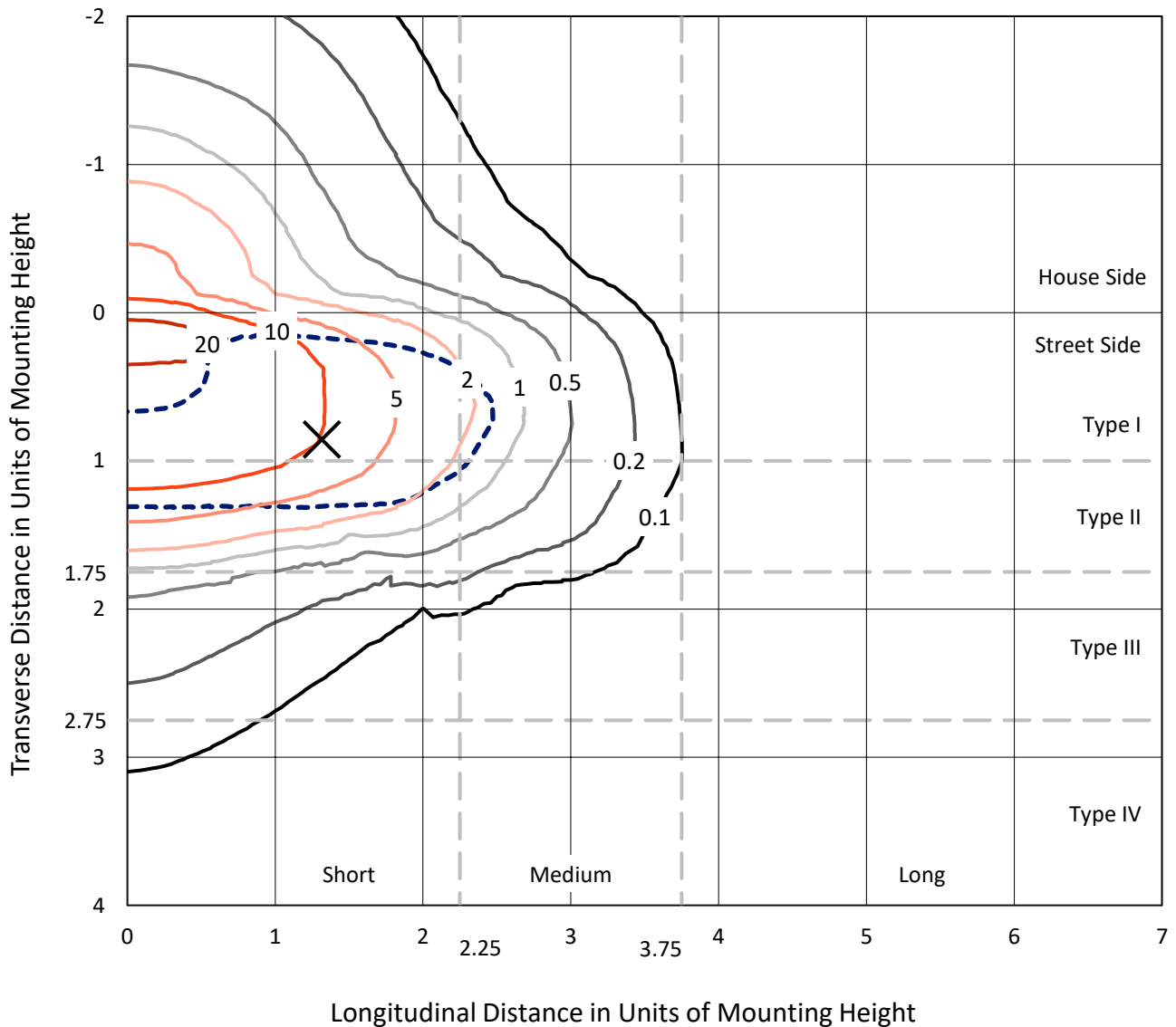
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456342
 CATALOG NUMBER: GALN-SA7C-760-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

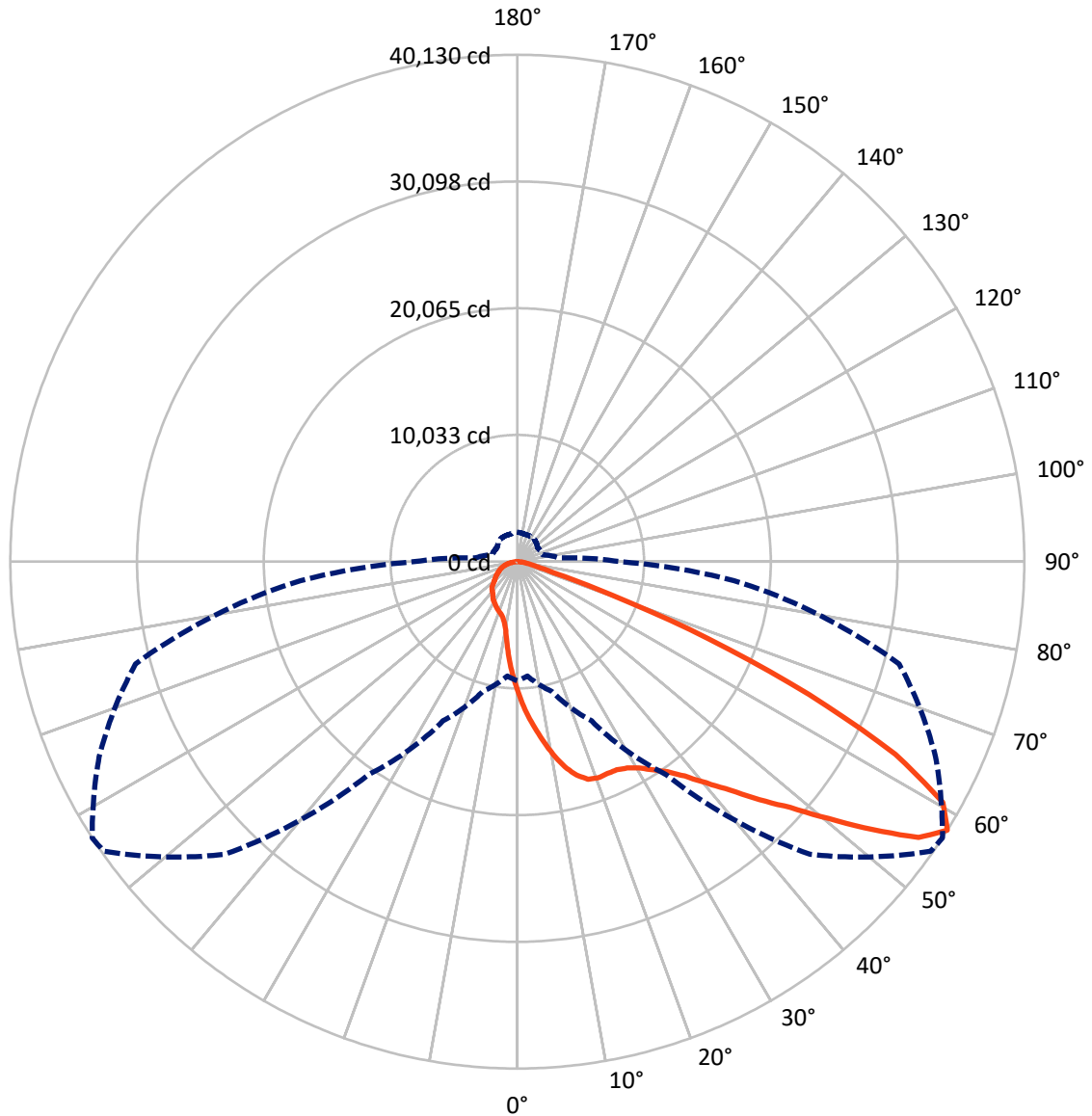
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

REPORT NUMBER: P456342
CATALOG NUMBER: GALN-SA7C-760-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P456342

CATALOG NUMBER: GALN-SA7C-760-U-AFL

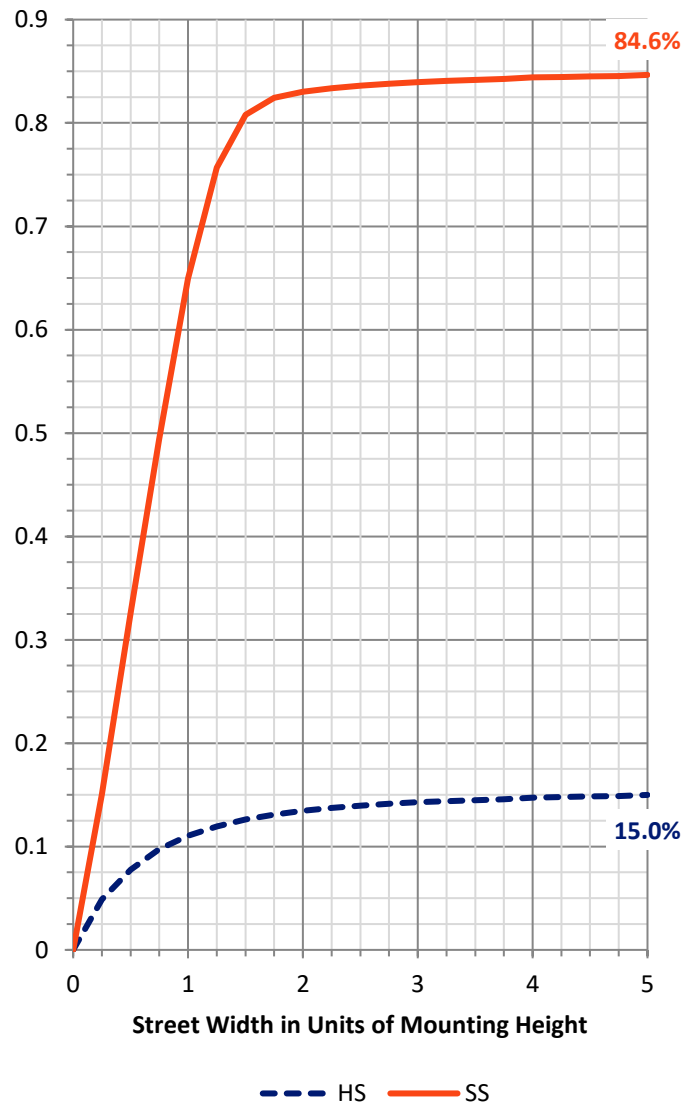
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7519.7 | 0.0 | 7519.7 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 41928.4 | 0.0 | 41928.4 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 49448.0 | 0.0 | 49448.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 998.4 | 2.0 |
| 10°-20° | 2942.4 | 6.0 |
| 20°-30° | 4886.0 | 9.9 |
| 30°-40° | 7359.7 | 14.9 |
| 40°-50° | 11049.9 | 22.3 |
| 50°-60° | 12385.5 | 25.0 |
| 60°-70° | 7248.6 | 14.7 |
| 70°-80° | 2144.1 | 4.3 |
| 80°-90° | 433.4 | 0.9 |
| 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° | 49448.0 | 100.0 |
| 0°-180° | 49448.0 | 100.0 |



REPORT NUMBER: P456342

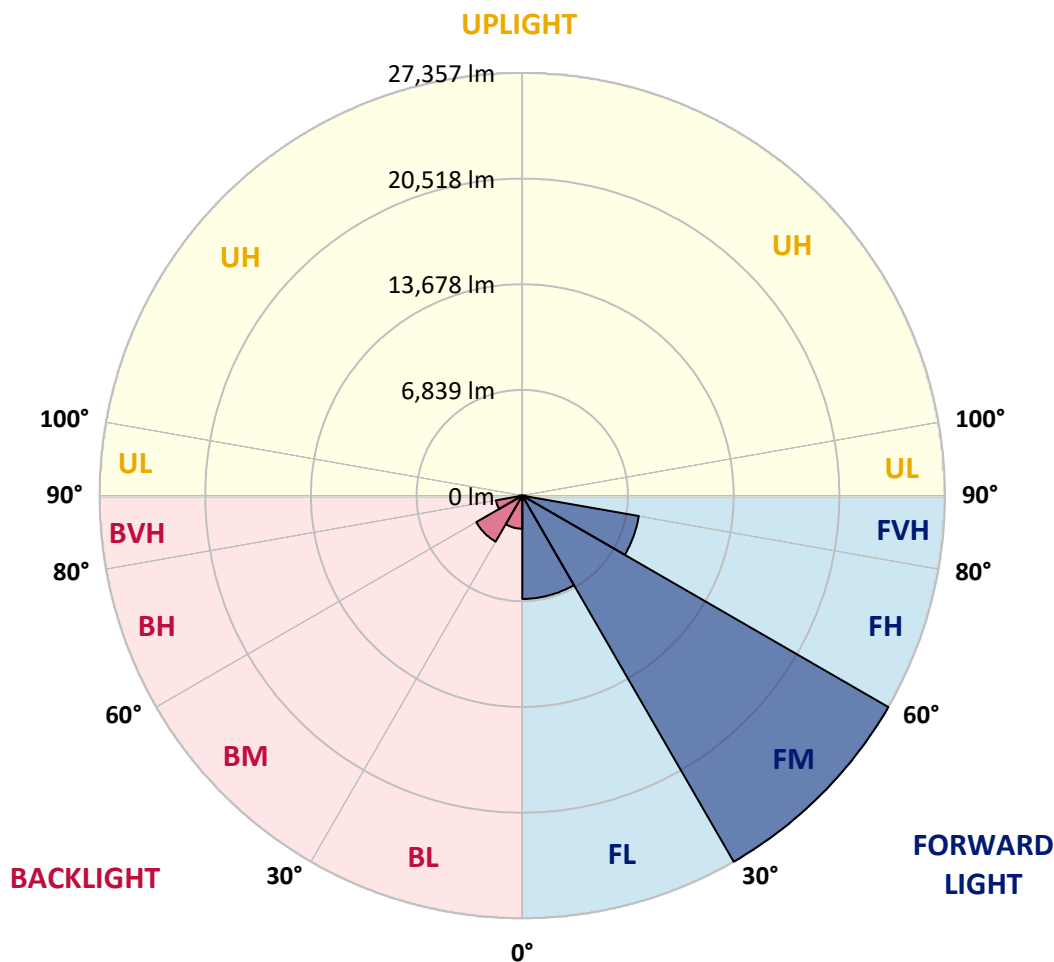
CATALOG NUMBER: GALN-SA7C-760-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 6684.2 | 13.5 | | | |
| FM | (30°-60°) | 27356.8 | 55.3 | | | |
| FH | (60°-80°) | 7662.5 | 15.5 | | | G4/12000 |
| FVH | (80°-90°) | 224.9 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 2142.6 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 3438.3 | 7.0 | B3/5000 | | |
| BH | (60°-80°) | 1730.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 208.5 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P456342
 CATALOG NUMBER: GALN-SA7C-760-U-AFL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 |
| 2.5° | 12908.4 | 12767.7 | 12656.7 | 12559.3 | 12432.0 | 12088.3 | 11744.5 | 11739.1 | 11465.7 | 11043.5 | 10610.4 |
| 5° | 15011.6 | 14822.1 | 14846.5 | 14543.3 | 14240.1 | 13742.1 | 13014.0 | 12976.1 | 12394.2 | 11603.8 | 10799.9 |
| 7.5° | 16381.2 | 16383.9 | 16308.1 | 16134.9 | 15807.3 | 15241.6 | 14416.1 | 14229.3 | 13420.0 | 12220.9 | 11016.4 |
| 10° | 16310.8 | 16383.9 | 16511.1 | 16660.0 | 16760.1 | 16481.3 | 15728.9 | 15501.5 | 14448.6 | 12968.0 | 11257.3 |
| 12.5° | 15374.3 | 15488.0 | 15669.3 | 16042.8 | 16646.4 | 17106.6 | 16849.4 | 16665.4 | 15639.5 | 13712.3 | 11522.6 |
| 15° | 14789.6 | 14857.3 | 14957.4 | 15209.2 | 15858.8 | 16960.4 | 17626.3 | 17528.8 | 16762.8 | 14554.1 | 11820.3 |
| 17.5° | 14611.0 | 14678.6 | 14711.1 | 14865.4 | 15328.3 | 16457.0 | 17932.1 | 18105.4 | 17758.9 | 15328.3 | 12120.8 |
| 20° | 14789.6 | 14822.1 | 14822.1 | 14914.1 | 15276.8 | 16161.9 | 17918.6 | 18267.8 | 18576.3 | 16256.7 | 12402.3 |
| 22.5° | 15257.9 | 15271.4 | 15252.5 | 15284.9 | 15555.6 | 16243.1 | 17791.4 | 18224.5 | 19236.8 | 17044.3 | 12621.5 |
| 25° | 16018.5 | 16040.1 | 15915.6 | 15839.8 | 16037.4 | 16600.4 | 17861.8 | 18259.7 | 19753.8 | 17796.8 | 12767.7 |
| 27.5° | 16881.9 | 16909.0 | 16757.4 | 16581.5 | 16673.5 | 17041.6 | 18137.8 | 18495.1 | 20140.8 | 18538.4 | 12859.7 |
| 30° | 17940.3 | 17951.1 | 17696.7 | 17485.5 | 17426.0 | 17699.4 | 18608.8 | 18941.7 | 20622.6 | 19412.7 | 12997.8 |
| 32.5° | 19023.0 | 19104.2 | 18776.6 | 18478.9 | 18378.7 | 18462.7 | 19304.5 | 19626.6 | 21196.5 | 20352.0 | 13219.7 |
| 35° | 20495.4 | 20509.0 | 20116.5 | 19753.8 | 19423.5 | 19531.8 | 20195.0 | 20427.7 | 21989.5 | 21437.4 | 13533.7 |
| 37.5° | 22333.3 | 22457.8 | 21916.5 | 21239.8 | 20833.8 | 20676.8 | 21272.3 | 21526.7 | 23102.0 | 22769.1 | 14007.4 |
| 40° | 24374.2 | 24420.2 | 23957.3 | 23535.1 | 22793.4 | 22338.7 | 22750.1 | 23026.2 | 24474.3 | 24357.9 | 14556.8 |
| 42.5° | 25657.2 | 25757.3 | 25792.5 | 25749.2 | 25191.6 | 24428.3 | 24585.3 | 24715.2 | 26098.4 | 25849.3 | 15119.8 |
| 45° | 26090.2 | 26239.1 | 26742.6 | 27809.0 | 27868.6 | 27116.1 | 26750.7 | 26875.2 | 27868.6 | 27354.3 | 15658.5 |
| 47.5° | 25373.0 | 25627.4 | 26555.8 | 28742.8 | 30380.4 | 30437.3 | 29335.6 | 29062.2 | 29481.8 | 28602.1 | 16048.2 |
| 50° | 23518.8 | 23573.0 | 24994.0 | 28160.9 | 31557.9 | 33612.3 | 32472.7 | 31963.9 | 31013.8 | 29525.1 | 16316.2 |
| 52.5° | 20649.7 | 20712.0 | 21902.9 | 25456.9 | 30832.4 | 35831.8 | 36143.1 | 35233.6 | 32570.2 | 30242.4 | 16492.2 |
| 55° | 15328.3 | 15688.3 | 16998.3 | 20433.2 | 27394.9 | 35623.4 | 39060.9 | 38543.9 | 34451.4 | 30810.8 | 16768.2 |
| 57.5° | 9424.9 | 9094.6 | 10648.3 | 13901.8 | 20603.7 | 32759.6 | 39962.3 | 40130.1 | 36522.0 | 31287.2 | 17231.1 |
| 60° | 4336.2 | 4401.2 | 5042.7 | 7170.1 | 12559.3 | 25627.4 | 37639.9 | 38700.9 | 37667.0 | 31270.9 | 17347.5 |
| 62.5° | 2988.2 | 2928.7 | 2766.3 | 3147.9 | 5727.5 | 16207.9 | 31793.3 | 33590.6 | 35371.6 | 30299.2 | 16884.6 |
| 65° | 2671.5 | 2612.0 | 2298.0 | 2192.5 | 2630.9 | 7064.6 | 23112.8 | 25381.1 | 29782.2 | 27846.9 | 15731.6 |
| 67.5° | 2495.6 | 2414.4 | 2089.6 | 1883.9 | 1878.5 | 2812.3 | 13628.4 | 16359.5 | 22089.7 | 23543.2 | 13631.1 |
| 70° | 2311.6 | 2246.6 | 1924.5 | 1697.1 | 1599.7 | 1767.5 | 5990.0 | 7841.4 | 14343.0 | 16965.8 | 10618.5 |
| 72.5° | 2127.5 | 2051.7 | 1762.1 | 1518.5 | 1391.3 | 1323.6 | 2295.3 | 2985.5 | 8104.0 | 10171.9 | 6509.7 |
| 75° | 1859.5 | 1821.6 | 1575.3 | 1375.0 | 1237.0 | 1069.2 | 1456.2 | 1661.9 | 3876.0 | 4671.8 | 3267.0 |
| 77.5° | 1626.7 | 1586.1 | 1399.4 | 1201.8 | 1101.6 | 868.9 | 1034.0 | 1128.7 | 1634.9 | 1894.7 | 1475.2 |
| 80° | 1191.0 | 1231.6 | 1180.1 | 1061.0 | 982.5 | 682.1 | 695.6 | 774.1 | 971.7 | 1074.6 | 901.3 |
| 82.5° | 755.2 | 831.0 | 909.5 | 817.4 | 744.4 | 538.6 | 481.8 | 511.6 | 663.2 | 703.8 | 400.6 |
| 85° | 316.7 | 322.1 | 527.8 | 498.0 | 425.0 | 319.4 | 289.6 | 305.9 | 354.6 | 370.8 | 186.8 |
| 87.5° | 121.8 | 119.1 | 186.8 | 173.2 | 132.6 | 92.0 | 92.0 | 102.9 | 140.8 | 129.9 | 59.5 |
| 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: P456342

CATALOG NUMBER: GALN-SA7C-760-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 | 10388.5 |
| 2.5° | 10423.6 | 10231.5 | 9849.8 | 9376.1 | 9029.7 | 8639.9 | 8296.2 | 8049.8 | 7957.8 | 7914.5 | 7833.3 |
| 5° | 10415.5 | 10036.6 | 9246.2 | 8418.0 | 7752.1 | 7070.0 | 6493.5 | 6119.9 | 6087.5 | 5838.4 | 5814.1 |
| 7.5° | 10418.2 | 9839.0 | 8580.4 | 7362.3 | 6347.3 | 5649.0 | 5172.6 | 5048.1 | 4899.2 | 4861.3 | 4880.2 |
| 10° | 10426.4 | 9587.3 | 7865.8 | 6317.5 | 5335.0 | 4877.5 | 4698.9 | 4650.2 | 4655.6 | 4671.8 | 4674.5 |
| 12.5° | 10437.2 | 9343.7 | 7124.1 | 5524.5 | 4766.6 | 4577.1 | 4558.1 | 4601.5 | 4647.5 | 4682.7 | 4690.8 |
| 15° | 10450.7 | 9064.9 | 6401.4 | 4885.7 | 4482.4 | 4466.1 | 4528.4 | 4601.5 | 4666.4 | 4717.8 | 4726.0 |
| 17.5° | 10434.5 | 8740.1 | 5795.1 | 4493.2 | 4325.4 | 4403.9 | 4506.7 | 4598.7 | 4658.3 | 4707.0 | 4712.4 |
| 20° | 10396.6 | 8377.4 | 5210.5 | 4217.1 | 4227.9 | 4355.1 | 4466.1 | 4552.7 | 4617.7 | 4642.1 | 4661.0 |
| 22.5° | 10250.4 | 7944.3 | 4701.6 | 4003.3 | 4111.5 | 4287.5 | 4420.1 | 4471.5 | 4398.4 | 4347.0 | 4360.6 |
| 25° | 10001.4 | 7381.3 | 4227.9 | 3830.0 | 4006.0 | 4192.7 | 4328.1 | 4203.6 | 4144.0 | 4122.4 | 4133.2 |
| 27.5° | 9690.1 | 6764.1 | 3870.6 | 3648.7 | 3870.6 | 4087.2 | 4049.3 | 4027.6 | 4000.6 | 3965.4 | 3973.5 |
| 30° | 9354.5 | 6160.5 | 3567.5 | 3507.9 | 3724.5 | 3849.0 | 3865.2 | 3900.4 | 3870.6 | 3816.5 | 3838.2 |
| 32.5° | 9043.2 | 5592.1 | 3337.4 | 3388.8 | 3621.6 | 3602.7 | 3724.5 | 3765.1 | 3627.0 | 3445.7 | 3453.8 |
| 35° | 8777.9 | 5064.3 | 3164.2 | 3272.4 | 3445.7 | 3453.8 | 3575.6 | 3434.8 | 3286.0 | 3199.4 | 3204.8 |
| 37.5° | 8577.7 | 4652.9 | 3050.5 | 3172.3 | 3221.0 | 3323.9 | 3258.9 | 3185.8 | 3166.9 | 3107.3 | 3110.0 |
| 40° | 8458.6 | 4292.9 | 2977.4 | 3093.8 | 3085.7 | 3156.1 | 2947.6 | 3020.7 | 3047.8 | 3028.8 | 3031.5 |
| 42.5° | 8339.5 | 4038.5 | 2901.6 | 2985.5 | 2982.8 | 2844.8 | 2798.8 | 2861.0 | 2931.4 | 2939.5 | 2934.1 |
| 45° | 8244.7 | 3840.9 | 2823.1 | 2820.4 | 2874.6 | 2658.0 | 2644.5 | 2682.4 | 2782.5 | 2831.2 | 2828.5 |
| 47.5° | 8139.2 | 3675.7 | 2704.0 | 2628.2 | 2644.5 | 2541.6 | 2520.0 | 2536.2 | 2658.0 | 2736.5 | 2758.2 |
| 50° | 8006.5 | 3510.6 | 2555.2 | 2452.3 | 2384.6 | 2433.4 | 2438.8 | 2441.5 | 2563.3 | 2652.6 | 2671.5 |
| 52.5° | 7901.0 | 3386.1 | 2384.6 | 2308.8 | 2227.6 | 2335.9 | 2376.5 | 2381.9 | 2455.0 | 2528.1 | 2541.6 |
| 55° | 7963.2 | 3315.8 | 2216.8 | 2162.7 | 2089.6 | 2235.8 | 2314.3 | 2325.1 | 2341.3 | 2395.5 | 2403.6 |
| 57.5° | 8150.0 | 3332.0 | 2081.5 | 2011.1 | 1957.0 | 2116.7 | 2249.3 | 2257.4 | 2246.6 | 2311.6 | 2322.4 |
| 60° | 8206.8 | 3323.9 | 1981.3 | 1843.3 | 1810.8 | 1989.5 | 2154.6 | 2170.8 | 2168.1 | 2262.8 | 2281.8 |
| 62.5° | 7968.6 | 3221.0 | 1881.2 | 1702.5 | 1680.9 | 1859.5 | 2021.9 | 2086.9 | 2100.4 | 2235.8 | 2260.1 |
| 65° | 7408.3 | 3009.9 | 1748.6 | 1553.7 | 1553.7 | 1721.5 | 1894.7 | 1984.0 | 2021.9 | 2203.3 | 2230.4 |
| 67.5° | 6669.4 | 2760.9 | 1613.2 | 1426.5 | 1421.0 | 1588.9 | 1759.4 | 1851.4 | 1911.0 | 2157.3 | 2173.5 |
| 70° | 5535.3 | 2425.2 | 1445.4 | 1288.4 | 1288.4 | 1440.0 | 1594.3 | 1705.2 | 1791.9 | 2070.7 | 2070.7 |
| 72.5° | 3792.1 | 2016.5 | 1242.4 | 1131.4 | 1134.1 | 1274.9 | 1431.9 | 1556.4 | 1659.2 | 1897.4 | 1902.8 |
| 75° | 2398.2 | 1575.3 | 1020.4 | 963.6 | 974.4 | 1107.1 | 1269.5 | 1399.4 | 1605.1 | 1875.8 | 1883.9 |
| 77.5° | 1274.9 | 1107.1 | 812.0 | 798.5 | 812.0 | 933.8 | 1115.2 | 1293.8 | 1610.5 | 1626.7 | 1599.7 |
| 80° | 825.6 | 785.0 | 641.5 | 614.4 | 619.8 | 752.5 | 993.4 | 1228.9 | 1293.8 | 1310.1 | 1250.5 |
| 82.5° | 449.3 | 498.0 | 454.7 | 427.7 | 427.7 | 587.4 | 847.2 | 977.1 | 928.4 | 771.4 | 736.2 |
| 85° | 192.2 | 232.8 | 235.5 | 205.7 | 197.6 | 362.7 | 568.4 | 533.2 | 495.3 | 473.7 | 468.3 |
| 87.5° | 54.1 | 75.8 | 75.8 | 56.8 | 43.3 | 100.1 | 113.7 | 32.5 | 0.0 | 2.7 | 5.4 |
| 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)