

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: P531998

Luminaire Tested: **GALN-SA7B-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531998
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-SA7B-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 35763 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

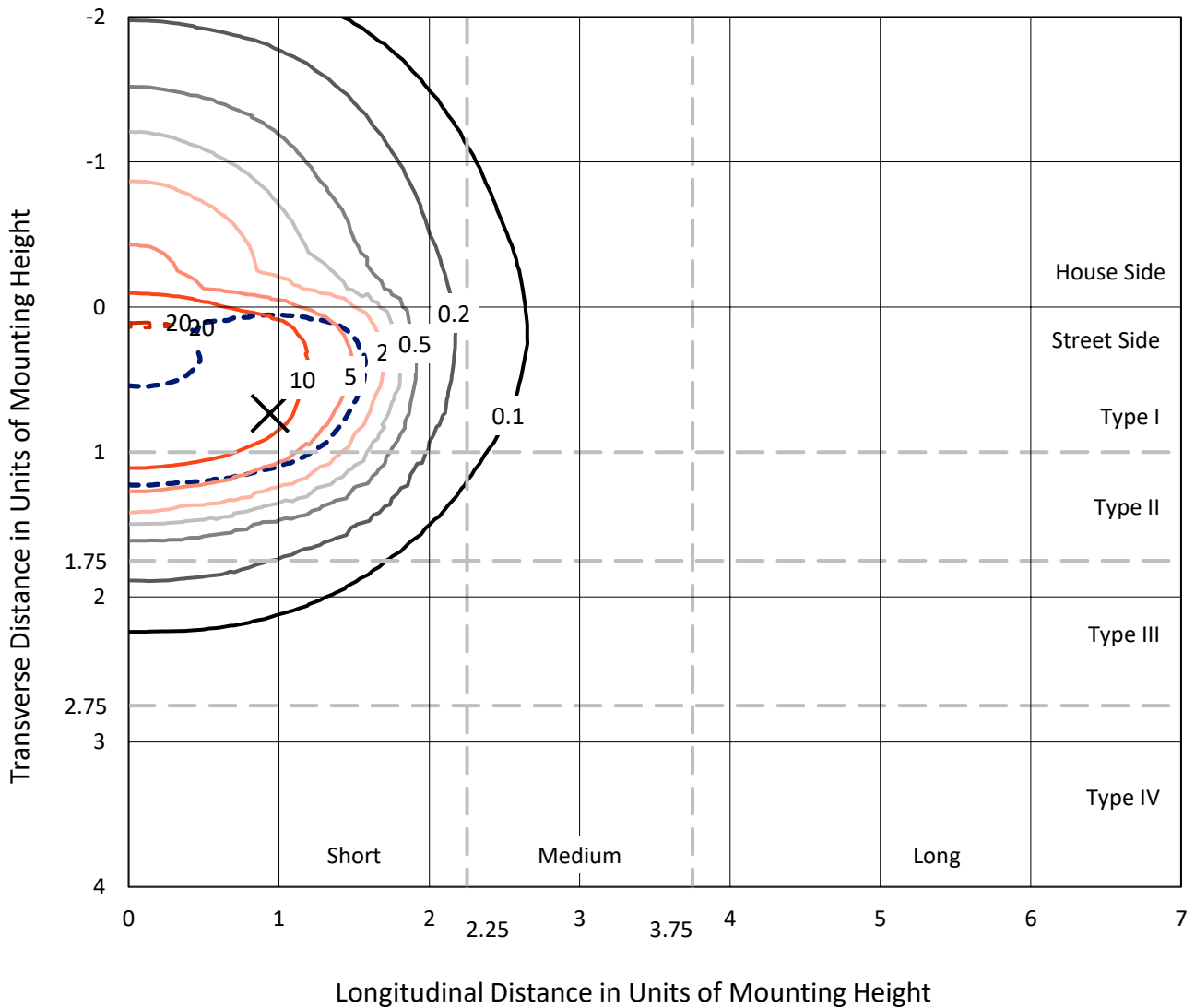
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

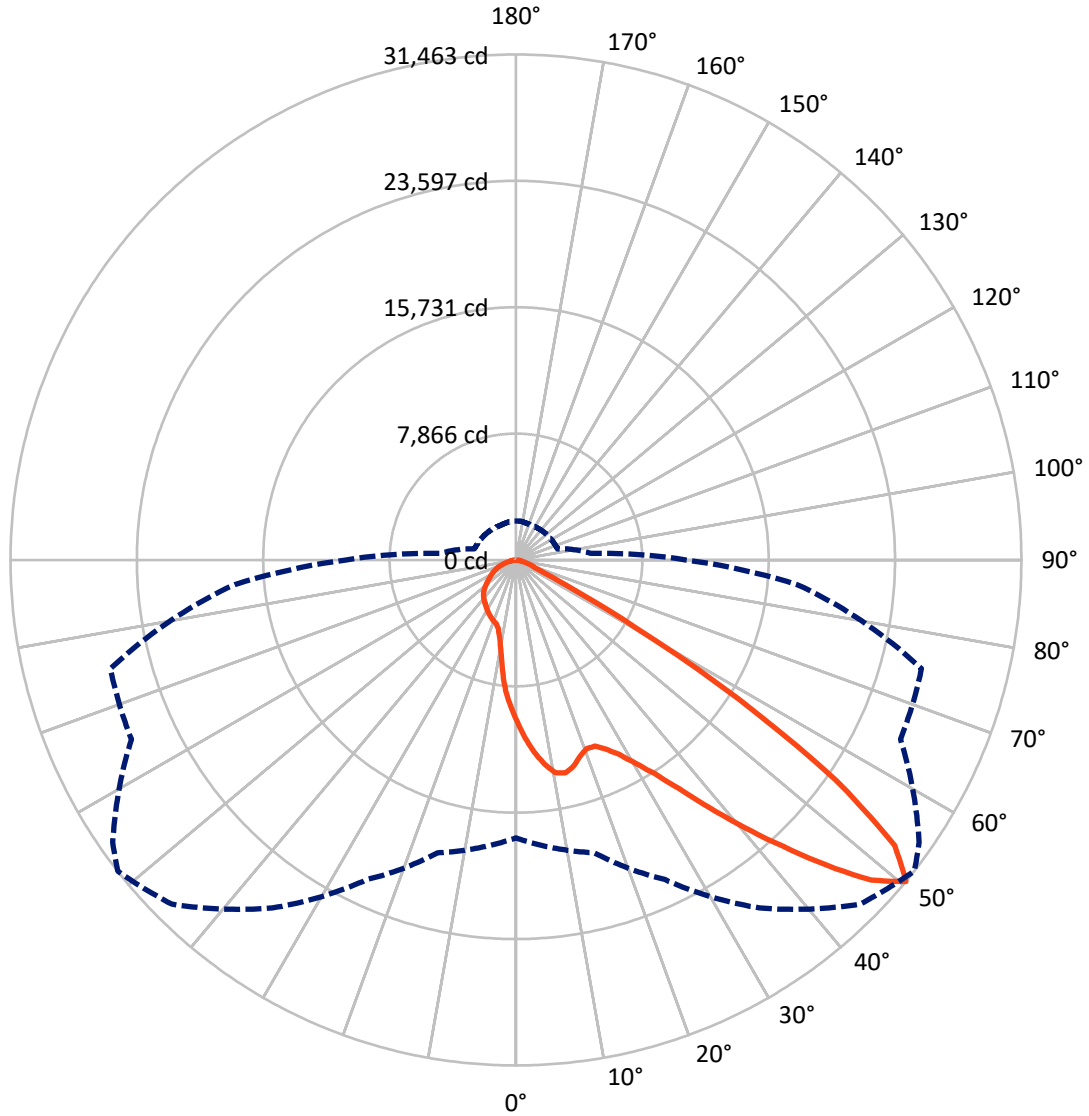
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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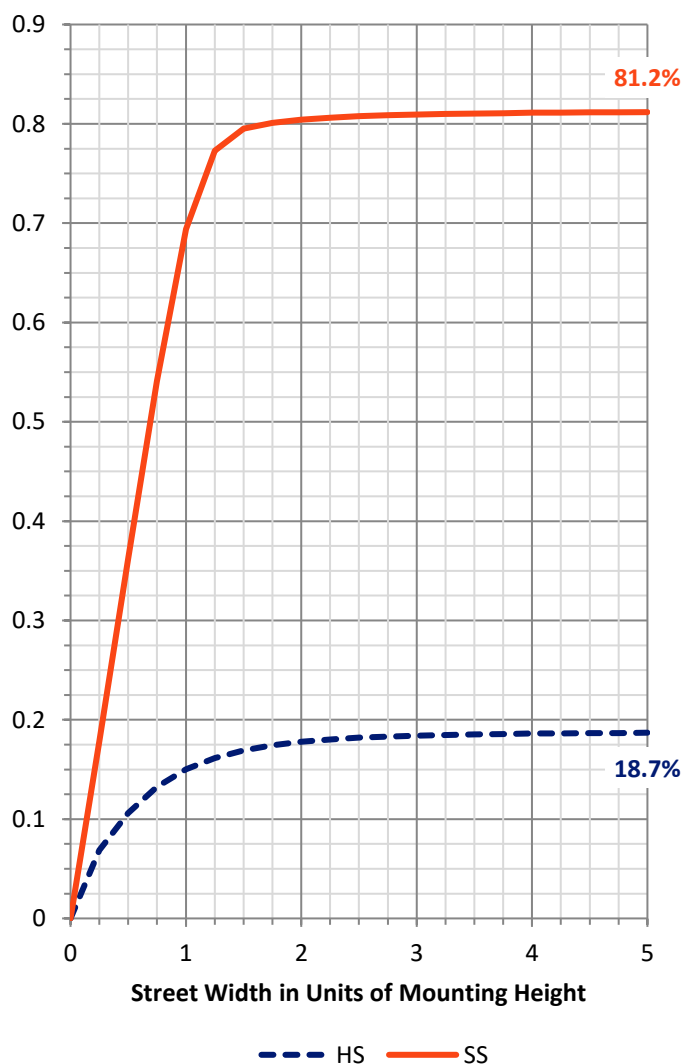
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6722.6 | 0.0 | 6722.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 29040.4 | 0.0 | 29040.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 35763.0 | 0.0 | 35763.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 929.2 | 2.6 |
| 10°-20° | 2490.4 | 7.0 |
| 20°-30° | 4195.0 | 11.7 |
| 30°-40° | 7039.5 | 19.7 |
| 40°-50° | 10768.7 | 30.1 |
| 50°-60° | 7851.2 | 22.0 |
| 60°-70° | 1747.3 | 4.9 |
| 70°-80° | 630.2 | 1.8 |
| 80°-90° | 111.5 | 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° | 35763.0 | 100.0 |
| 0°-180° | 35763.0 | 100.0 |

Coefficient of Utilization



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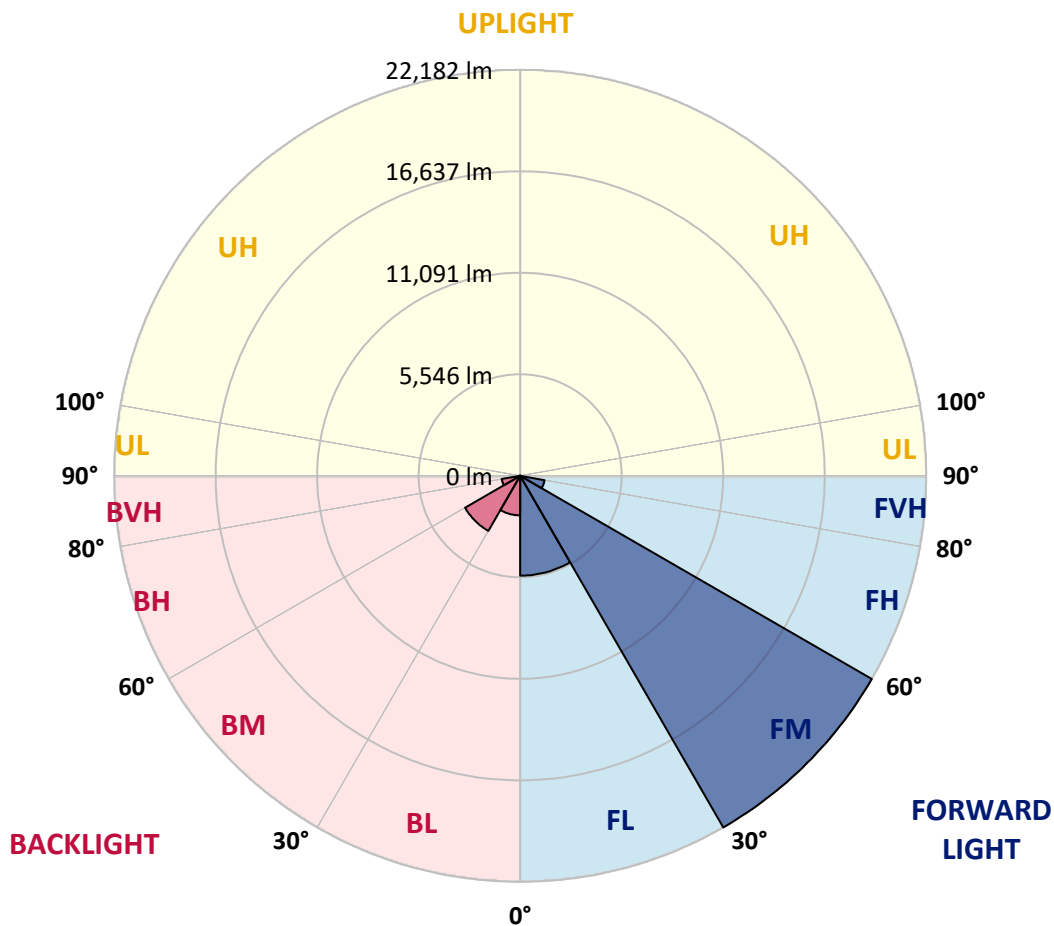
CATALOG NUMBER: GALN-SA7B-750-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5455.1 | 15.3 | | | |
| FM (30°-60°) | 22182.0 | 62.0 | | | |
| FH (60°-80°) | 1353.3 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 50.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2159.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3477.4 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 1024.2 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.6 | 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° | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 |
| 2.5° | 11869.6 | 11641.2 | 11667.1 | 11503.3 | 11326.6 | 11274.9 | 11093.8 | 10921.4 | 10792.1 | 10516.3 | 10262.0 |
| 5° | 12973.0 | 12904.0 | 12800.6 | 12671.3 | 12537.7 | 12210.1 | 12024.8 | 11809.3 | 11335.2 | 10908.5 | 10486.1 |
| 7.5° | 13132.4 | 13119.5 | 13175.5 | 13175.5 | 13223.0 | 13098.0 | 12835.1 | 12684.2 | 12179.9 | 11486.0 | 10701.6 |
| 10° | 12011.9 | 12050.6 | 12322.2 | 12675.6 | 13166.9 | 13507.4 | 13464.3 | 13425.5 | 12873.9 | 11925.7 | 10955.9 |
| 12.5° | 11119.7 | 11033.5 | 11193.0 | 11494.7 | 12231.7 | 13054.9 | 13610.9 | 13615.2 | 13472.9 | 12628.2 | 11141.2 |
| 15° | 10615.4 | 10675.8 | 10718.9 | 10861.1 | 11417.1 | 12369.6 | 13347.9 | 13636.7 | 14261.7 | 13123.8 | 11434.3 |
| 17.5° | 10938.7 | 10736.1 | 10727.5 | 10762.0 | 11046.4 | 11761.9 | 12860.9 | 13356.6 | 14692.7 | 13761.7 | 11796.4 |
| 20° | 11361.1 | 11356.7 | 11236.1 | 11193.0 | 11188.7 | 11826.5 | 12542.0 | 13214.3 | 14921.1 | 14589.2 | 12162.7 |
| 22.5° | 12102.4 | 12102.4 | 11904.1 | 11809.3 | 11606.7 | 12128.2 | 12585.1 | 13041.9 | 15300.4 | 15158.1 | 12339.4 |
| 25° | 13343.6 | 13141.1 | 12800.6 | 12567.8 | 12451.5 | 12636.8 | 13041.9 | 13451.4 | 15632.2 | 15761.5 | 12705.8 |
| 27.5° | 14490.1 | 14171.1 | 14003.1 | 13602.2 | 13447.1 | 13339.3 | 13710.0 | 14123.7 | 16020.1 | 16701.1 | 12904.0 |
| 30° | 15791.7 | 15735.7 | 15434.0 | 14916.8 | 14533.2 | 14334.9 | 14675.4 | 15084.9 | 16731.3 | 17662.2 | 13360.9 |
| 32.5° | 18119.1 | 17610.5 | 17201.1 | 16567.5 | 15942.5 | 15520.2 | 15856.3 | 16127.9 | 17912.2 | 18666.4 | 13860.8 |
| 35° | 20631.8 | 20468.0 | 19761.2 | 18619.0 | 17662.2 | 17282.9 | 17481.2 | 17683.8 | 19287.1 | 20200.8 | 14701.3 |
| 37.5° | 23101.4 | 22877.3 | 22295.4 | 21334.3 | 20170.6 | 19399.1 | 19541.4 | 19778.4 | 20830.0 | 22269.6 | 15727.0 |
| 40° | 24877.1 | 24601.3 | 24308.2 | 24165.9 | 23010.9 | 21954.9 | 21873.0 | 21933.4 | 22916.1 | 24209.0 | 16864.9 |
| 42.5° | 25006.4 | 25346.9 | 25437.4 | 26010.6 | 25739.1 | 24872.8 | 24368.5 | 24381.4 | 24907.3 | 26127.0 | 18015.6 |
| 45° | 24734.9 | 24420.2 | 25088.3 | 26652.8 | 27549.3 | 27954.4 | 27105.3 | 26997.6 | 26139.9 | 27238.9 | 18588.9 |
| 47.5° | 21886.0 | 21972.2 | 23101.4 | 25575.3 | 28165.6 | 29975.8 | 29777.5 | 29419.8 | 26799.3 | 27200.2 | 18498.3 |
| 50° | 17300.2 | 17821.7 | 18869.0 | 21950.6 | 26441.6 | 30294.7 | 31462.7 | 30635.2 | 26407.1 | 26131.3 | 17576.0 |
| 52.5° | 11520.5 | 11736.0 | 12425.6 | 16403.7 | 21261.0 | 27079.5 | 29523.2 | 29712.9 | 26045.1 | 24730.6 | 16408.0 |
| 55° | 5128.9 | 5111.6 | 6081.4 | 8568.2 | 13339.3 | 20605.9 | 24122.8 | 25277.9 | 24653.0 | 23304.0 | 15270.2 |
| 57.5° | 2172.2 | 2245.5 | 2642.0 | 3702.3 | 6559.8 | 12434.2 | 16343.4 | 17356.2 | 18959.5 | 19136.2 | 11714.5 |
| 60° | 1469.7 | 1478.3 | 1586.1 | 1853.3 | 2745.4 | 5840.0 | 8572.5 | 9787.9 | 10934.4 | 10856.8 | 6215.0 |
| 62.5° | 1155.1 | 1185.2 | 1267.1 | 1374.9 | 1629.2 | 2650.6 | 3835.9 | 4512.5 | 4585.8 | 3857.4 | 2357.5 |
| 65° | 987.0 | 991.3 | 1073.2 | 1163.7 | 1275.7 | 1543.0 | 1849.0 | 1883.5 | 1905.0 | 1836.0 | 1732.6 |
| 67.5° | 814.6 | 823.2 | 887.9 | 991.3 | 1094.7 | 1180.9 | 1267.1 | 1310.2 | 1409.4 | 1603.3 | 1577.4 |
| 70° | 646.5 | 659.4 | 715.5 | 801.7 | 896.5 | 948.2 | 1055.9 | 1094.7 | 1185.2 | 1336.1 | 1396.4 |
| 72.5° | 491.3 | 495.6 | 543.1 | 603.4 | 689.6 | 741.3 | 831.8 | 874.9 | 935.3 | 1064.6 | 1120.6 |
| 75° | 353.4 | 366.3 | 400.8 | 431.0 | 443.9 | 478.4 | 564.6 | 612.0 | 698.2 | 754.2 | 758.6 |
| 77.5° | 185.3 | 193.9 | 202.6 | 202.6 | 245.7 | 310.3 | 366.3 | 392.2 | 452.5 | 495.6 | 474.1 |
| 80° | 73.3 | 77.6 | 99.1 | 133.6 | 172.4 | 224.1 | 262.9 | 275.8 | 327.6 | 353.4 | 366.3 |
| 82.5° | 43.1 | 47.4 | 64.6 | 94.8 | 125.0 | 159.5 | 189.6 | 202.6 | 237.0 | 267.2 | 275.8 |
| 85° | 21.5 | 25.9 | 38.8 | 60.3 | 81.9 | 99.1 | 94.8 | 90.5 | 90.5 | 86.2 | 90.5 |
| 87.5° | 8.6 | 8.6 | 12.9 | 12.9 | 12.9 | 17.2 | 21.5 | 21.5 | 21.5 | 25.9 | 25.9 |
| 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-SA7B-750-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 | 10081.0 |
| 2.5° | 10093.9 | 9921.5 | 9762.1 | 9469.0 | 9150.0 | 9059.5 | 8688.9 | 8555.3 | 8460.5 | 8348.4 | 8313.9 |
| 5° | 10145.6 | 9917.2 | 9404.3 | 8813.9 | 8344.1 | 7740.7 | 7344.2 | 6917.5 | 6607.2 | 6529.6 | 6508.0 |
| 7.5° | 10253.4 | 9861.2 | 8977.6 | 8085.5 | 7124.4 | 6305.5 | 5680.5 | 5344.4 | 5047.0 | 5029.7 | 4999.6 |
| 10° | 10374.1 | 9693.1 | 8512.2 | 7111.4 | 5883.1 | 5124.5 | 4749.6 | 4603.0 | 4529.8 | 4512.5 | 4503.9 |
| 12.5° | 10473.2 | 9658.6 | 7990.7 | 6163.2 | 5003.9 | 4547.0 | 4434.9 | 4422.0 | 4452.2 | 4460.8 | 4478.0 |
| 15° | 10516.3 | 9520.7 | 7361.4 | 5314.2 | 4456.5 | 4288.4 | 4335.8 | 4387.5 | 4409.1 | 4465.1 | 4422.0 |
| 17.5° | 10598.2 | 9344.0 | 6585.6 | 4641.8 | 4150.5 | 4180.7 | 4262.6 | 4322.9 | 4357.4 | 4396.2 | 4340.1 |
| 20° | 10641.3 | 9184.5 | 5857.2 | 4241.0 | 4042.7 | 4098.8 | 4210.8 | 4258.2 | 4301.3 | 4318.6 | 4253.9 |
| 22.5° | 10602.5 | 8857.0 | 5215.1 | 3917.8 | 3939.3 | 4012.6 | 4111.7 | 4163.4 | 4137.6 | 4068.6 | 4029.8 |
| 25° | 10499.1 | 8395.8 | 4547.0 | 3710.9 | 3792.8 | 3922.1 | 3999.6 | 3960.9 | 3913.4 | 3874.7 | 3861.7 |
| 27.5° | 10494.8 | 7831.2 | 4064.3 | 3521.2 | 3667.8 | 3844.5 | 3818.6 | 3784.1 | 3805.7 | 3775.5 | 3741.0 |
| 30° | 10516.3 | 7283.8 | 3667.8 | 3413.5 | 3577.3 | 3663.5 | 3693.6 | 3659.2 | 3685.0 | 3629.0 | 3646.2 |
| 32.5° | 10404.2 | 6749.4 | 3409.2 | 3288.5 | 3469.5 | 3465.2 | 3564.3 | 3590.2 | 3529.9 | 3413.5 | 3430.7 |
| 35° | 10451.7 | 6318.4 | 3189.4 | 3232.5 | 3348.8 | 3348.8 | 3426.4 | 3396.2 | 3236.8 | 3167.8 | 3185.1 |
| 37.5° | 10779.2 | 5896.0 | 3081.6 | 3154.9 | 3232.5 | 3266.9 | 3241.1 | 3111.8 | 3073.0 | 3073.0 | 3081.6 |
| 40° | 11089.5 | 5534.0 | 3017.0 | 3137.7 | 3124.7 | 3146.3 | 2956.6 | 2969.6 | 2969.6 | 2973.9 | 2952.3 |
| 42.5° | 11365.4 | 5288.3 | 2965.3 | 3034.2 | 3055.8 | 2943.7 | 2827.3 | 2814.4 | 2844.6 | 2840.3 | 2823.0 |
| 45° | 11464.5 | 5085.8 | 2892.0 | 2917.8 | 2935.1 | 2749.8 | 2693.7 | 2667.9 | 2702.3 | 2715.3 | 2732.5 |
| 47.5° | 11085.2 | 4917.7 | 2810.1 | 2758.4 | 2723.9 | 2603.2 | 2529.9 | 2482.5 | 2525.6 | 2598.9 | 2616.1 |
| 50° | 10598.2 | 4697.9 | 2680.8 | 2581.7 | 2508.4 | 2456.7 | 2405.0 | 2357.5 | 2387.7 | 2439.4 | 2426.5 |
| 52.5° | 9878.4 | 4353.1 | 2517.0 | 2413.6 | 2288.6 | 2301.5 | 2254.1 | 2228.2 | 2245.5 | 2245.5 | 2232.6 |
| 55° | 8852.7 | 3577.3 | 2241.2 | 2167.9 | 2064.5 | 2099.0 | 2107.6 | 2073.1 | 2038.6 | 2068.8 | 2042.9 |
| 57.5° | 6042.6 | 2525.6 | 1999.8 | 1999.8 | 1896.4 | 1943.8 | 1939.5 | 1857.6 | 1775.7 | 1784.3 | 1767.1 |
| 60° | 3495.4 | 2012.8 | 1844.7 | 1827.4 | 1719.7 | 1758.5 | 1767.1 | 1711.1 | 1586.1 | 1594.7 | 1577.4 |
| 62.5° | 1986.9 | 1719.7 | 1611.9 | 1586.1 | 1564.5 | 1599.0 | 1599.0 | 1525.7 | 1418.0 | 1426.6 | 1409.4 |
| 65° | 1689.5 | 1594.7 | 1439.5 | 1435.2 | 1426.6 | 1435.2 | 1400.7 | 1323.2 | 1228.3 | 1189.5 | 1193.9 |
| 67.5° | 1534.3 | 1474.0 | 1323.2 | 1284.4 | 1258.5 | 1254.2 | 1189.5 | 1116.3 | 1073.2 | 1038.7 | 1034.4 |
| 70° | 1344.7 | 1297.3 | 1185.2 | 1133.5 | 1107.7 | 1047.3 | 982.7 | 935.3 | 874.9 | 857.7 | 874.9 |
| 72.5° | 1064.6 | 1060.3 | 1017.2 | 961.1 | 905.1 | 857.7 | 801.7 | 737.0 | 681.0 | 668.0 | 637.9 |
| 75° | 737.0 | 745.6 | 754.2 | 745.6 | 698.2 | 637.9 | 573.2 | 521.5 | 452.5 | 413.8 | 405.1 |
| 77.5° | 482.7 | 495.6 | 508.6 | 491.3 | 461.2 | 405.1 | 362.0 | 297.4 | 245.7 | 215.5 | 211.2 |
| 80° | 353.4 | 370.7 | 379.3 | 366.3 | 331.9 | 288.8 | 241.4 | 189.6 | 150.8 | 125.0 | 125.0 |
| 82.5° | 271.5 | 288.8 | 297.4 | 275.8 | 241.4 | 206.9 | 172.4 | 133.6 | 103.4 | 81.9 | 77.6 |
| 85° | 94.8 | 90.5 | 107.7 | 112.1 | 133.6 | 125.0 | 103.4 | 77.6 | 60.3 | 43.1 | 38.8 |
| 87.5° | 25.9 | 25.9 | 30.2 | 30.2 | 25.9 | 21.5 | 21.5 | 21.5 | 17.2 | 12.9 | 12.9 |
| 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)