

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: P531103

Luminaire Tested: **GALN-SA6B-760-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-760-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20150 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

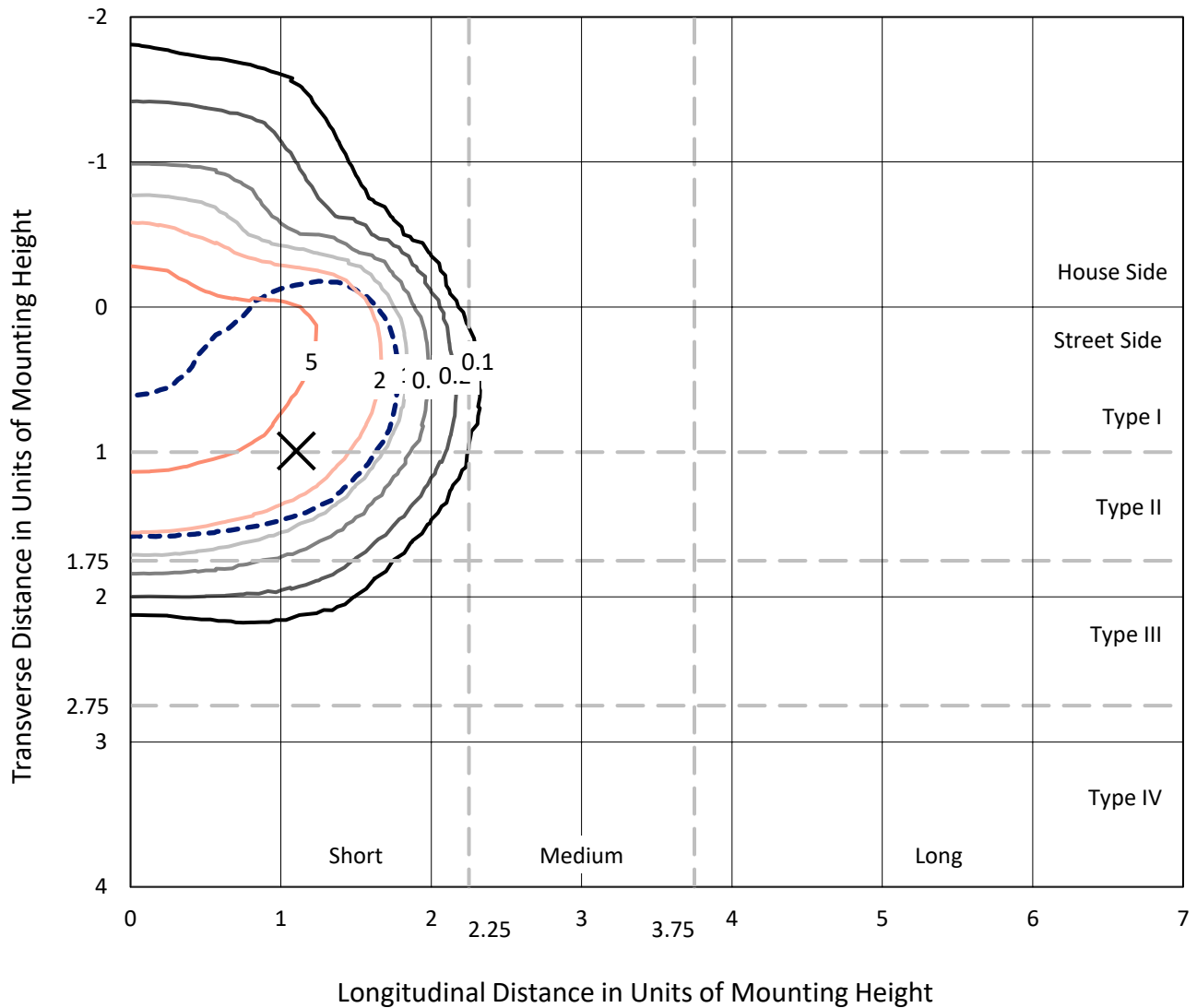
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

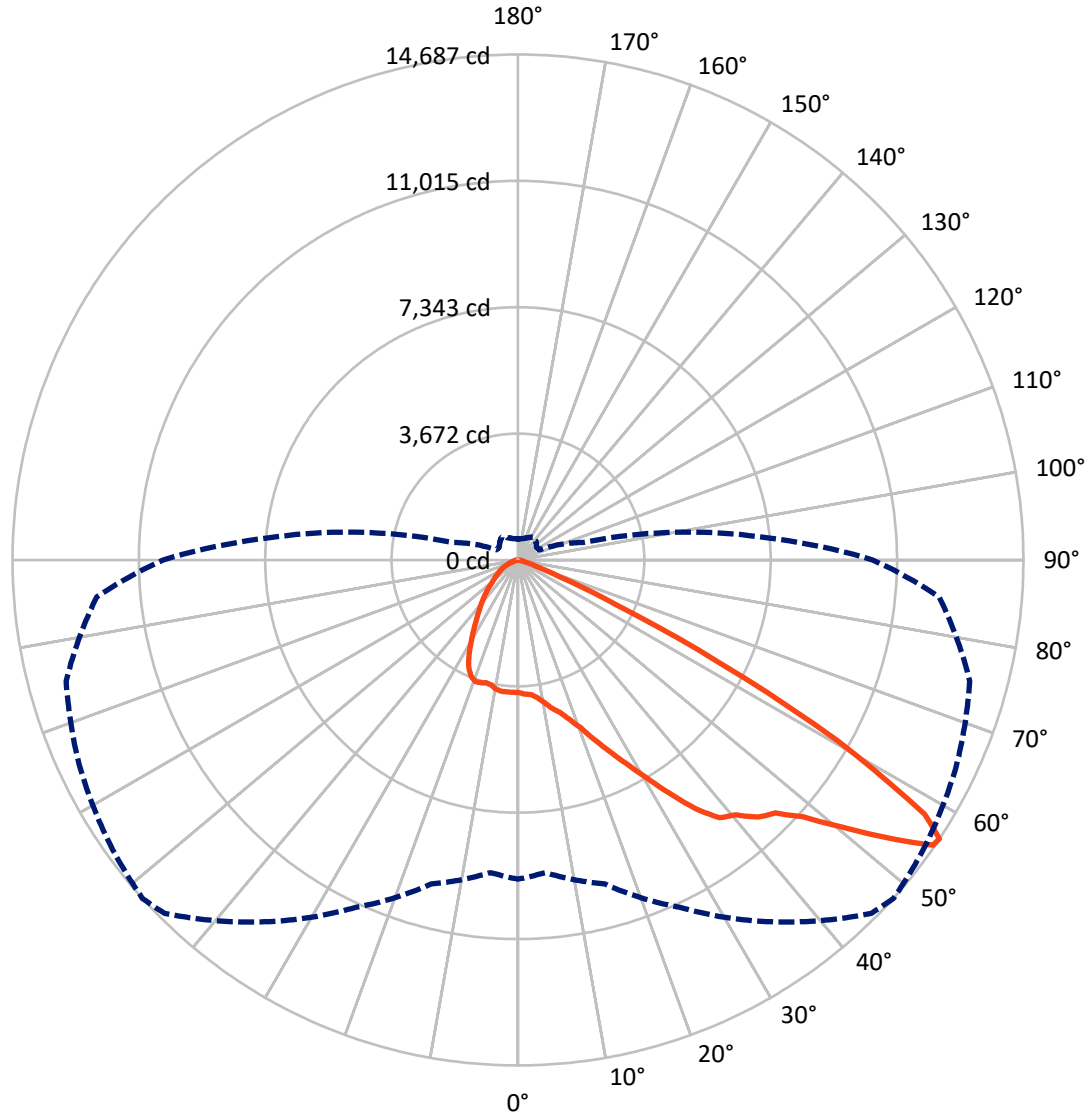
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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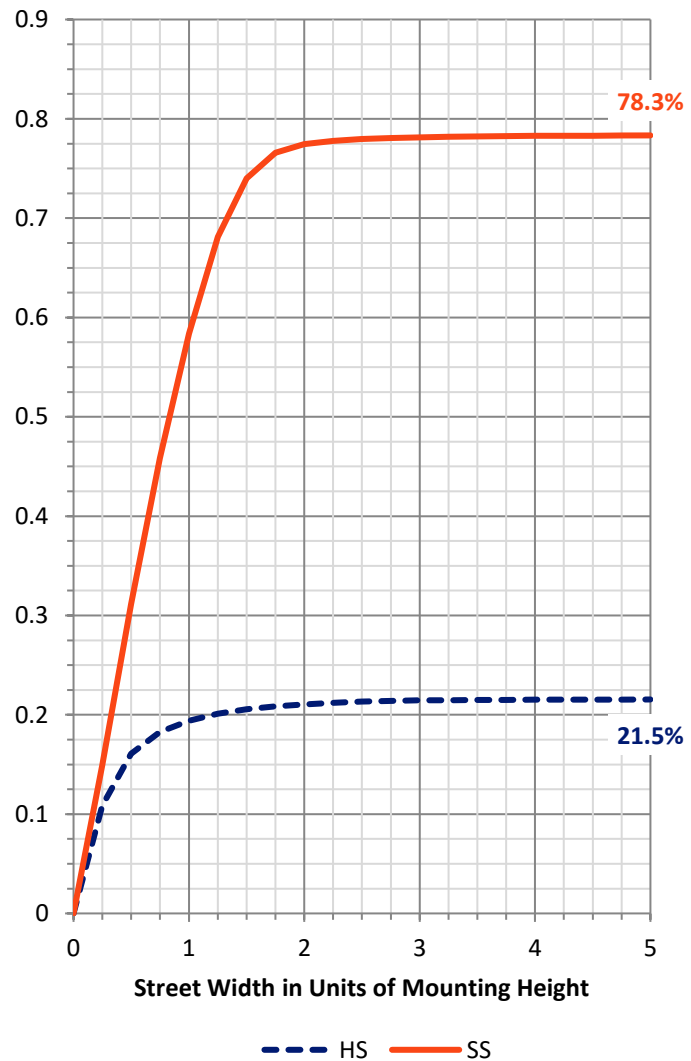
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4382.2 | 0.0 | 4382.2 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 15767.8 | 0.0 | 15767.8 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 20150.0 | 0.0 | 20150.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.9 | 1.9 |
| 10°-20° | 1198.1 | 5.9 |
| 20°-30° | 2173.2 | 10.8 |
| 30°-40° | 3413.6 | 16.9 |
| 40°-50° | 4979.8 | 24.7 |
| 50°-60° | 5999.7 | 29.8 |
| 60°-70° | 1756.7 | 8.7 |
| 70°-80° | 222.8 | 1.1 |
| 80°-90° | 31.3 | 0.2 |
| 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° | 20150.0 | 100.0 |
| 0°-180° | 20150.0 | 100.0 |



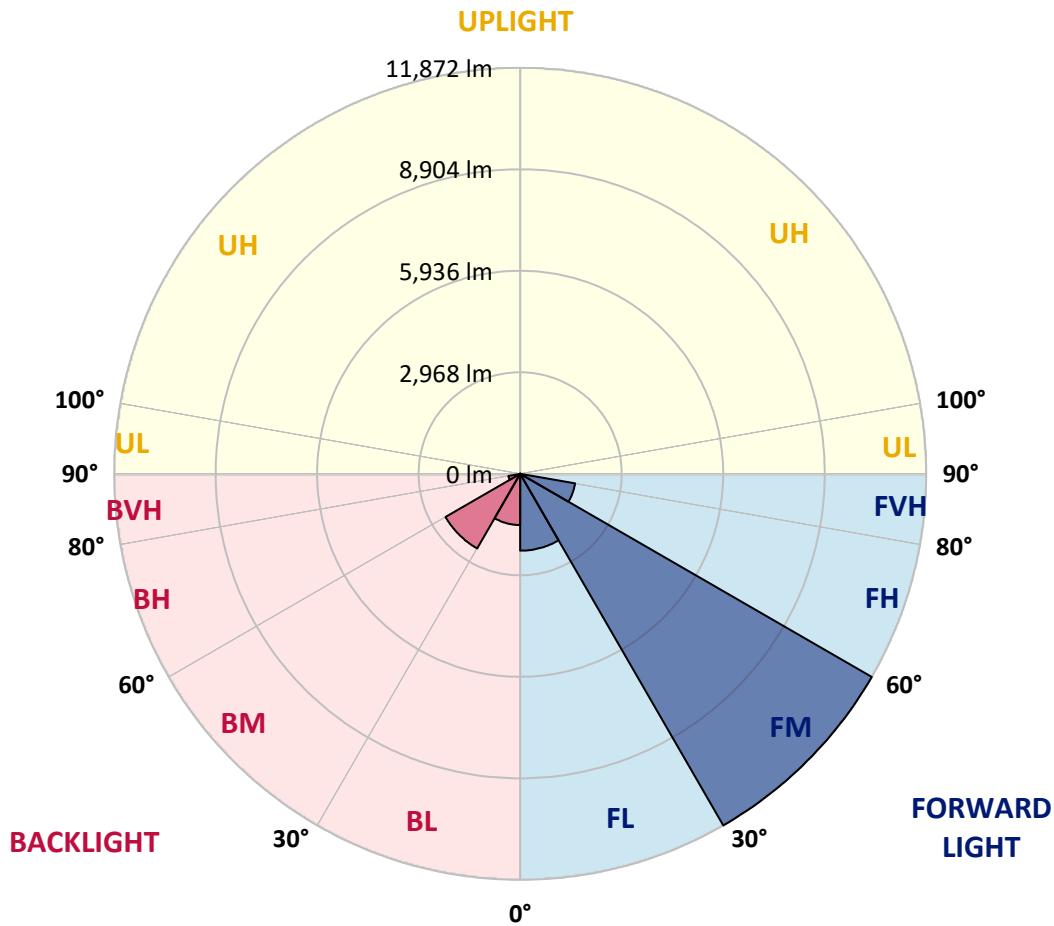
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2248.3 | 11.2 | | | |
| FM (30°-60°) | 11872.4 | 58.9 | | | |
| FH (60°-80°) | 1631.3 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 15.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1497.8 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2520.6 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 348.2 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 |
| 2.5° | 3918.4 | 3900.0 | 3900.0 | 3870.7 | 3903.7 | 3889.0 | 3900.0 | 3863.3 | 3900.0 | 3845.0 | 3889.0 |
| 5° | 3936.7 | 3940.4 | 3925.7 | 3944.0 | 3944.0 | 3966.1 | 3929.4 | 3962.4 | 3980.7 | 3940.4 | 3922.0 |
| 7.5° | 4032.1 | 4039.4 | 4035.8 | 4021.1 | 4050.4 | 4046.8 | 4043.1 | 4017.4 | 4024.8 | 4010.1 | 3988.1 |
| 10° | 4219.2 | 4215.5 | 4233.9 | 4197.2 | 4175.2 | 4200.9 | 4208.2 | 4167.9 | 4138.5 | 4127.5 | 4057.8 |
| 12.5° | 4490.7 | 4446.7 | 4421.0 | 4384.3 | 4395.3 | 4358.6 | 4424.7 | 4355.0 | 4340.3 | 4274.2 | 4204.5 |
| 15° | 4710.8 | 4703.5 | 4707.2 | 4648.5 | 4582.4 | 4597.1 | 4597.1 | 4560.4 | 4538.4 | 4457.7 | 4358.6 |
| 17.5° | 5162.1 | 5008.0 | 5041.0 | 4967.7 | 4912.6 | 4909.0 | 4875.9 | 4883.3 | 4824.6 | 4655.8 | 4505.4 |
| 20° | 5514.3 | 5448.3 | 5396.9 | 5272.2 | 5187.8 | 5213.5 | 5198.8 | 5162.1 | 5143.8 | 4923.6 | 4710.8 |
| 22.5° | 5829.9 | 5851.9 | 5767.5 | 5734.5 | 5617.1 | 5628.1 | 5657.4 | 5624.4 | 5485.0 | 5257.5 | 4942.0 |
| 25° | 6273.8 | 6248.1 | 6134.4 | 6094.0 | 5983.9 | 6024.3 | 6138.0 | 6112.4 | 6024.3 | 5613.4 | 5121.8 |
| 27.5° | 6798.4 | 6710.4 | 6732.4 | 6549.0 | 6442.6 | 6556.3 | 6692.0 | 6820.5 | 6571.0 | 6031.6 | 5334.6 |
| 30° | 7169.0 | 7077.3 | 7069.9 | 7062.6 | 7036.9 | 7169.0 | 7326.8 | 7444.2 | 7242.4 | 6449.9 | 5686.8 |
| 32.5° | 7352.4 | 7374.5 | 7436.8 | 7414.8 | 7638.6 | 7910.1 | 8075.2 | 8244.0 | 7990.8 | 7132.3 | 6152.7 |
| 35° | 7840.4 | 7701.0 | 7840.4 | 7855.1 | 8086.2 | 8662.2 | 8871.4 | 9274.9 | 9212.6 | 8097.2 | 6721.4 |
| 37.5° | 8126.6 | 8115.6 | 8133.9 | 8273.3 | 8497.1 | 9208.9 | 9506.1 | 9817.9 | 9700.5 | 8676.9 | 7429.5 |
| 40° | 8599.9 | 8629.2 | 8625.5 | 8731.9 | 8977.8 | 9619.8 | 9740.9 | 9994.0 | 10005.0 | 9480.4 | 8471.5 |
| 42.5° | 9359.3 | 9241.9 | 9164.9 | 9274.9 | 9619.8 | 9975.7 | 10217.8 | 10166.5 | 10529.7 | 10456.3 | 9810.6 |
| 45° | 10041.7 | 10111.4 | 9997.7 | 10181.2 | 10305.9 | 10496.7 | 10489.3 | 10599.4 | 11061.7 | 11410.2 | 10819.5 |
| 47.5° | 10680.1 | 10724.1 | 10779.2 | 10903.9 | 11175.4 | 11204.8 | 11142.4 | 11094.7 | 11733.1 | 12092.6 | 11601.0 |
| 50° | 11061.7 | 11102.0 | 11358.9 | 11582.7 | 12089.0 | 12155.0 | 12191.7 | 12070.6 | 12503.6 | 12543.9 | 12338.5 |
| 52.5° | 10959.0 | 11003.0 | 11362.5 | 12100.0 | 12907.1 | 13512.5 | 13402.4 | 13197.0 | 13171.3 | 13329.1 | 13020.9 |
| 55° | 10049.1 | 10008.7 | 10504.0 | 11652.4 | 13164.0 | 14616.8 | 14631.5 | 14415.0 | 14000.5 | 13894.1 | 12918.1 |
| 56° | 9274.9 | 9117.2 | 9748.2 | 11135.1 | 12833.8 | 14521.4 | 14686.5 | 14455.4 | 14066.5 | 13589.5 | 12283.4 |
| 57.5° | 7598.3 | 7748.7 | 8376.1 | 9524.4 | 11692.7 | 13835.4 | 13930.8 | 13875.7 | 13582.2 | 12782.4 | 10808.5 |
| 60° | 4189.9 | 4454.0 | 5008.0 | 6413.2 | 8324.7 | 10617.7 | 10694.8 | 11142.4 | 11197.4 | 9788.6 | 7436.8 |
| 62.5° | 1779.4 | 1750.1 | 2326.1 | 3360.7 | 4740.2 | 6409.5 | 6552.6 | 7011.2 | 7095.6 | 5642.7 | 3731.3 |
| 65° | 722.8 | 763.1 | 1053.0 | 1691.4 | 2505.8 | 2920.4 | 3122.2 | 3272.6 | 3551.5 | 2329.7 | 1375.8 |
| 67.5° | 477.0 | 473.3 | 620.0 | 964.9 | 1350.1 | 1302.5 | 1302.5 | 1375.8 | 1273.1 | 950.2 | 594.4 |
| 70° | 341.2 | 352.2 | 443.9 | 667.7 | 840.2 | 623.7 | 598.0 | 572.3 | 649.4 | 627.4 | 480.6 |
| 72.5° | 223.8 | 238.5 | 297.2 | 399.9 | 436.6 | 341.2 | 341.2 | 410.9 | 535.7 | 506.3 | 392.6 |
| 75° | 146.8 | 150.4 | 183.4 | 231.1 | 216.5 | 176.1 | 194.5 | 275.2 | 388.9 | 374.2 | 278.8 |
| 77.5° | 99.1 | 102.7 | 124.7 | 150.4 | 121.1 | 99.1 | 106.4 | 139.4 | 190.8 | 190.8 | 146.8 |
| 80° | 36.7 | 40.4 | 51.4 | 47.7 | 55.0 | 69.7 | 77.0 | 95.4 | 113.7 | 113.7 | 99.1 |
| 82.5° | 0.0 | 3.7 | 11.0 | 25.7 | 40.4 | 55.0 | 62.4 | 73.4 | 84.4 | 95.4 | 91.7 |
| 85° | 0.0 | 3.7 | 11.0 | 18.3 | 29.4 | 33.0 | 36.7 | 25.7 | 22.0 | 22.0 | 18.3 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.3 | 3.7 | 3.7 |
| 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-SA6B-760-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 | 3848.7 |
| 2.5° | 3848.7 | 3845.0 | 3845.0 | 3834.0 | 3856.0 | 3845.0 | 3852.3 | 3848.7 | 3801.0 | 3837.7 | 3812.0 |
| 5° | 3889.0 | 3914.7 | 3874.3 | 3867.0 | 3837.7 | 3848.7 | 3848.7 | 3812.0 | 3845.0 | 3841.3 | 3834.0 |
| 7.5° | 3991.7 | 3947.7 | 3903.7 | 3859.7 | 3852.3 | 3841.3 | 3801.0 | 3786.3 | 3812.0 | 3782.6 | 3826.6 |
| 10° | 4035.8 | 4043.1 | 3977.1 | 3918.4 | 3863.3 | 3786.3 | 3731.3 | 3698.2 | 3657.9 | 3701.9 | 3727.6 |
| 12.5° | 4237.6 | 4164.2 | 4050.4 | 3958.7 | 3771.6 | 3694.6 | 3639.5 | 3624.9 | 3694.6 | 3709.2 | 3683.6 |
| 15° | 4307.3 | 4296.3 | 4149.5 | 3944.0 | 3749.6 | 3657.9 | 3668.9 | 3639.5 | 3646.9 | 3610.2 | 3617.5 |
| 17.5° | 4450.4 | 4325.6 | 4153.2 | 3896.4 | 3745.9 | 3723.9 | 3657.9 | 3540.5 | 3474.4 | 3445.1 | 3470.8 |
| 20° | 4608.1 | 4487.0 | 4237.6 | 3914.7 | 3778.9 | 3720.2 | 3503.8 | 3360.7 | 3224.9 | 3151.6 | 3155.2 |
| 22.5° | 4747.5 | 4597.1 | 4200.9 | 3922.0 | 3808.3 | 3566.2 | 3305.7 | 3023.2 | 2854.4 | 2740.7 | 2744.3 |
| 25° | 4916.3 | 4703.5 | 4215.5 | 3936.7 | 3731.3 | 3320.3 | 2946.1 | 2670.9 | 2469.2 | 2392.1 | 2417.8 |
| 27.5° | 5011.7 | 4769.5 | 4296.3 | 3969.7 | 3529.5 | 2971.8 | 2568.2 | 2311.4 | 2194.0 | 2157.3 | 2153.6 |
| 30° | 5297.9 | 4916.3 | 4395.3 | 3903.7 | 3191.9 | 2597.6 | 2223.3 | 2065.6 | 1951.8 | 1918.8 | 1926.2 |
| 32.5° | 5723.5 | 5184.1 | 4523.7 | 3731.3 | 2847.1 | 2263.7 | 1999.5 | 1882.1 | 1775.7 | 1713.4 | 1706.0 |
| 35° | 6079.3 | 5642.7 | 4659.5 | 3463.4 | 2447.1 | 2006.9 | 1841.8 | 1695.0 | 1533.6 | 1463.9 | 1445.5 |
| 37.5° | 6758.1 | 6160.1 | 4630.1 | 3059.8 | 2065.6 | 1816.1 | 1673.0 | 1493.2 | 1353.8 | 1258.4 | 1247.4 |
| 40° | 7660.6 | 6765.4 | 4487.0 | 2568.2 | 1783.1 | 1647.3 | 1493.2 | 1320.8 | 1148.4 | 1067.6 | 1060.3 |
| 42.5° | 8757.6 | 7506.5 | 4226.6 | 2069.3 | 1500.6 | 1478.6 | 1339.1 | 1141.0 | 986.9 | 928.2 | 931.9 |
| 45° | 9649.2 | 8141.3 | 3962.4 | 1662.0 | 1291.4 | 1313.5 | 1192.4 | 1005.3 | 898.9 | 851.2 | 851.2 |
| 47.5° | 10441.6 | 8570.5 | 3676.2 | 1372.2 | 1097.0 | 1148.4 | 1042.0 | 931.9 | 840.2 | 803.5 | 796.1 |
| 50° | 11204.8 | 9007.1 | 3390.0 | 1111.7 | 935.6 | 986.9 | 975.9 | 887.9 | 814.5 | 770.5 | 774.1 |
| 52.5° | 11681.7 | 9076.8 | 3026.8 | 909.9 | 818.2 | 876.9 | 913.6 | 832.8 | 752.1 | 726.4 | 719.1 |
| 55° | 11098.4 | 8177.9 | 2348.1 | 748.5 | 693.4 | 770.5 | 840.2 | 748.5 | 686.1 | 642.1 | 638.4 |
| 56° | 10313.2 | 7312.1 | 1962.9 | 689.8 | 656.7 | 741.1 | 814.5 | 715.4 | 645.7 | 620.0 | 601.7 |
| 57.5° | 8731.9 | 5983.9 | 1449.2 | 612.7 | 609.0 | 689.8 | 774.1 | 682.4 | 601.7 | 579.7 | 579.7 |
| 60° | 5444.6 | 3368.0 | 876.9 | 513.6 | 528.3 | 612.7 | 697.1 | 609.0 | 535.7 | 535.7 | 546.7 |
| 62.5° | 2480.2 | 1401.5 | 532.0 | 436.6 | 454.9 | 528.3 | 620.0 | 550.3 | 510.0 | 550.3 | 557.7 |
| 65° | 843.8 | 605.4 | 385.2 | 348.5 | 359.6 | 436.6 | 532.0 | 557.7 | 554.0 | 579.7 | 594.4 |
| 67.5° | 473.3 | 388.9 | 322.9 | 289.8 | 282.5 | 322.9 | 436.6 | 557.7 | 535.7 | 524.7 | 532.0 |
| 70° | 399.9 | 330.2 | 286.2 | 256.8 | 245.8 | 260.5 | 337.5 | 421.9 | 377.9 | 366.9 | 359.6 |
| 72.5° | 322.9 | 275.2 | 249.5 | 231.1 | 198.1 | 168.8 | 154.1 | 161.4 | 179.8 | 190.8 | 209.1 |
| 75° | 227.5 | 209.1 | 209.1 | 187.1 | 143.1 | 106.4 | 84.4 | 69.7 | 47.7 | 33.0 | 36.7 |
| 77.5° | 128.4 | 128.4 | 132.1 | 113.7 | 91.7 | 69.7 | 51.4 | 36.7 | 18.3 | 7.3 | 3.7 |
| 80° | 88.1 | 95.4 | 102.7 | 91.7 | 77.0 | 62.4 | 44.0 | 25.7 | 11.0 | 0.0 | 0.0 |
| 82.5° | 88.1 | 99.1 | 106.4 | 91.7 | 77.0 | 58.7 | 44.0 | 25.7 | 11.0 | 3.7 | 0.0 |
| 85° | 18.3 | 22.0 | 25.7 | 29.4 | 44.0 | 44.0 | 33.0 | 22.0 | 11.0 | 3.7 | 0.0 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 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 |

(END OF REPORT)