

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: P530157

Luminaire Tested: **GALN-SA5B-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-760-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16664 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

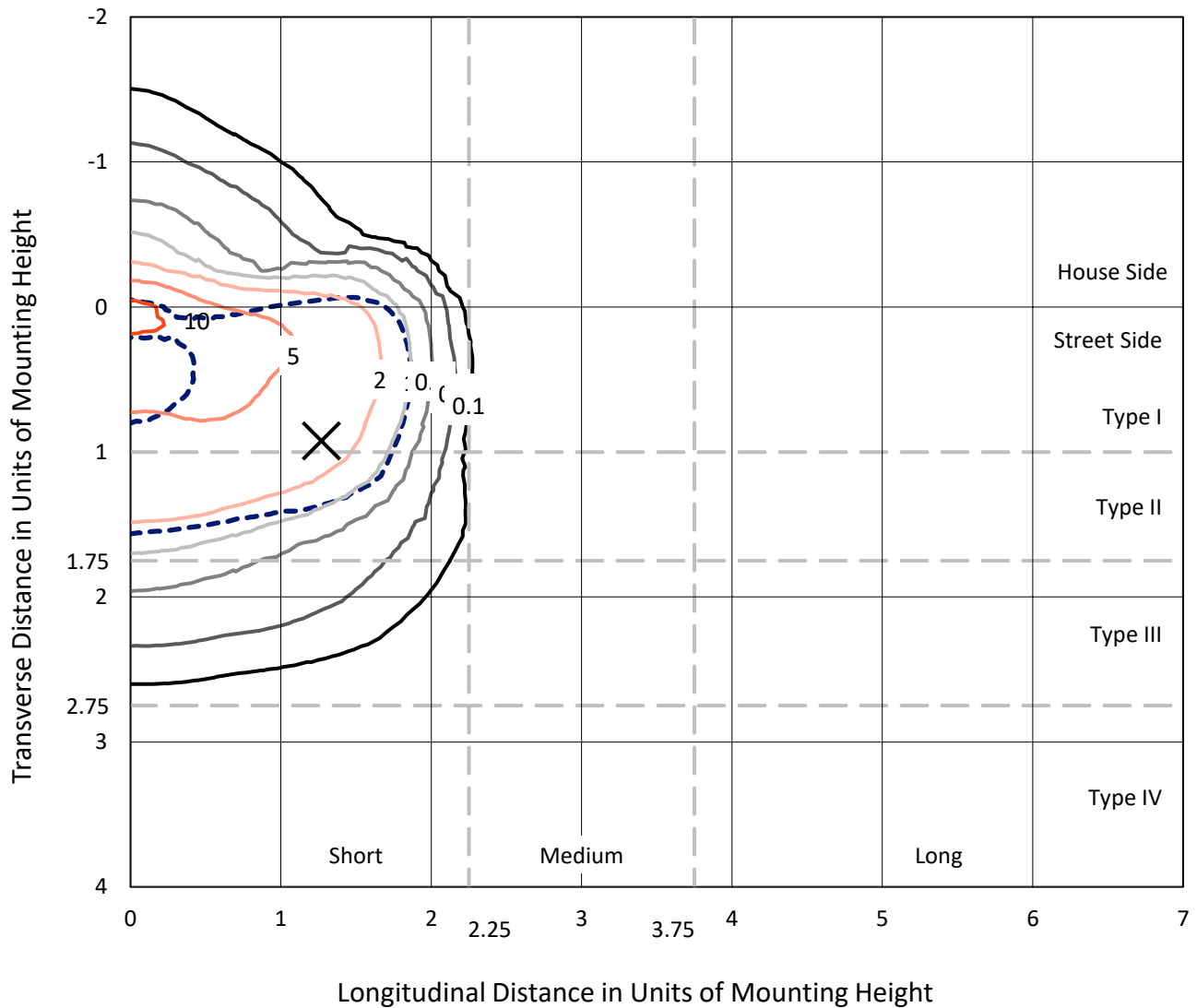
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

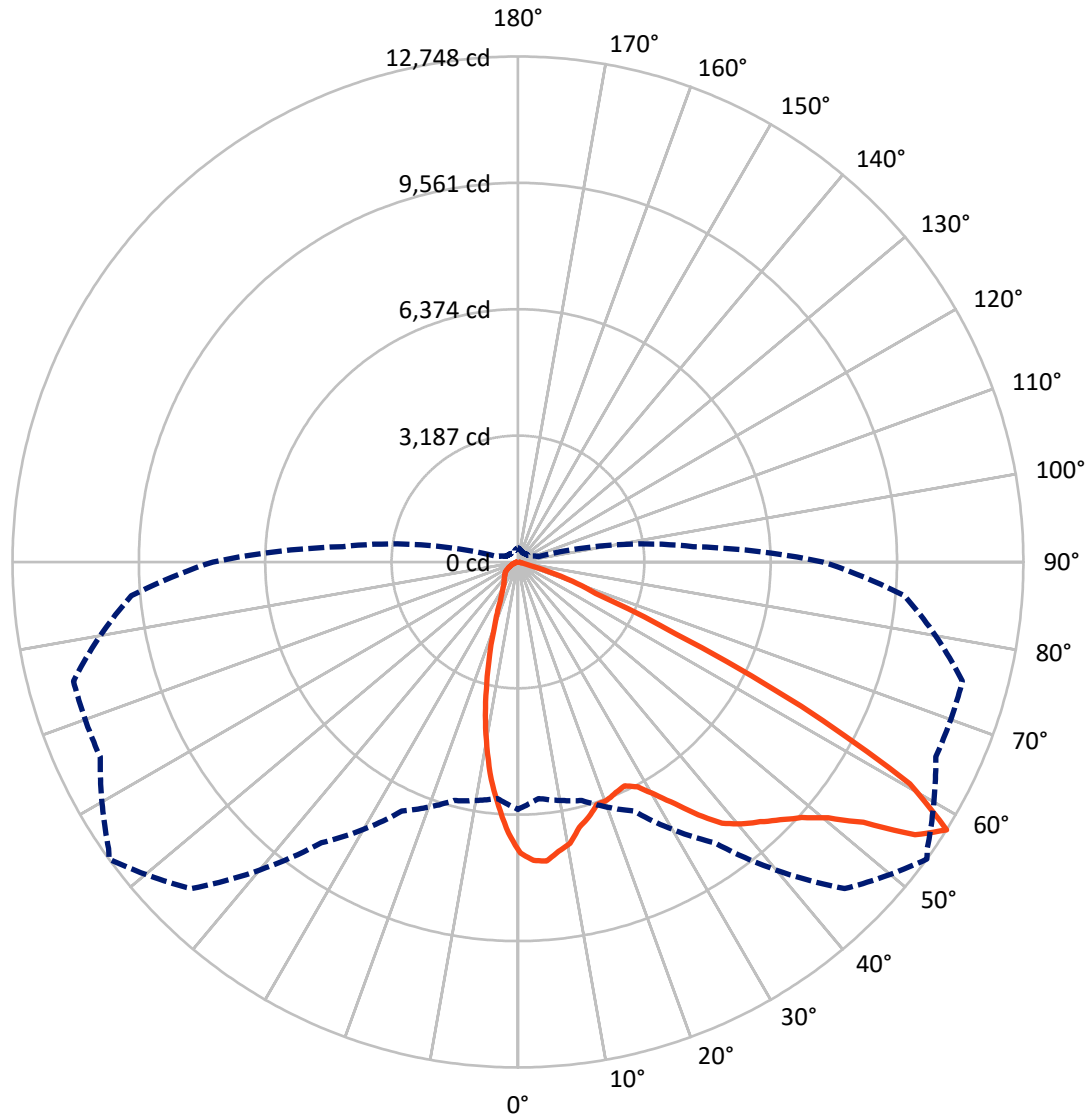
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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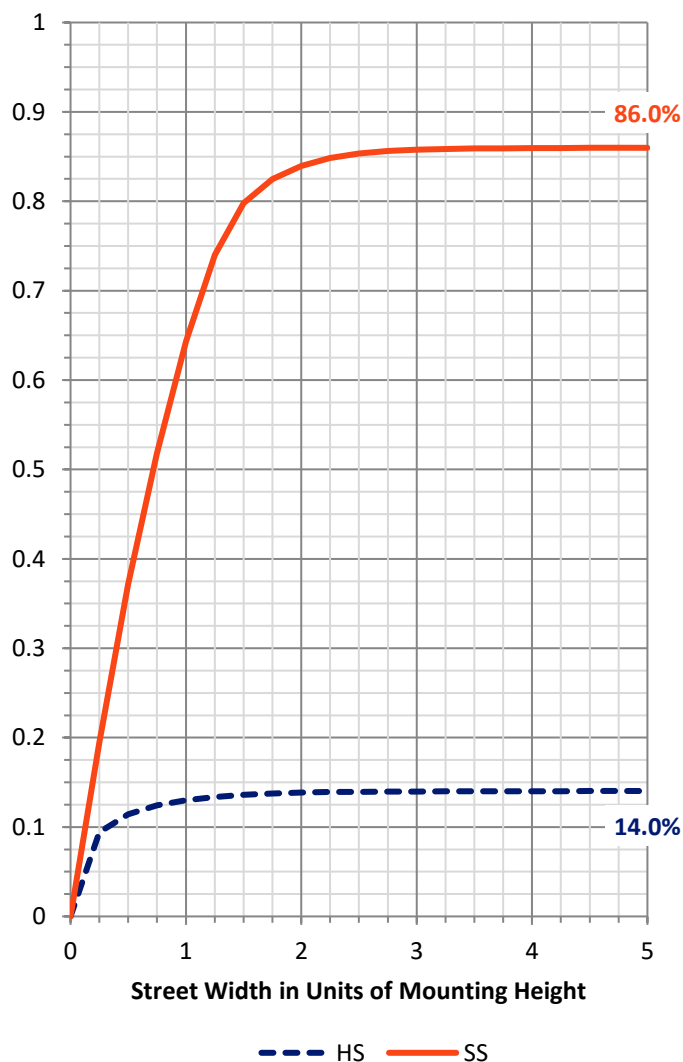
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2354.9 | 0.0 | 2354.9 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 14309.1 | 0.0 | 14309.1 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 16664.0 | 0.0 | 16664.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 614.3 | 3.7 |
| 10°-20° | 1311.5 | 7.9 |
| 20°-30° | 1738.0 | 10.4 |
| 30°-40° | 2525.8 | 15.2 |
| 40°-50° | 3745.4 | 22.5 |
| 50°-60° | 4683.4 | 28.1 |
| 60°-70° | 1847.4 | 11.1 |
| 70°-80° | 184.0 | 1.1 |
| 80°-90° | 14.3 | 0.1 |
| 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° | 16664.0 | 100.0 |
| 0°-180° | 16664.0 | 100.0 |

Coefficient of Utilization



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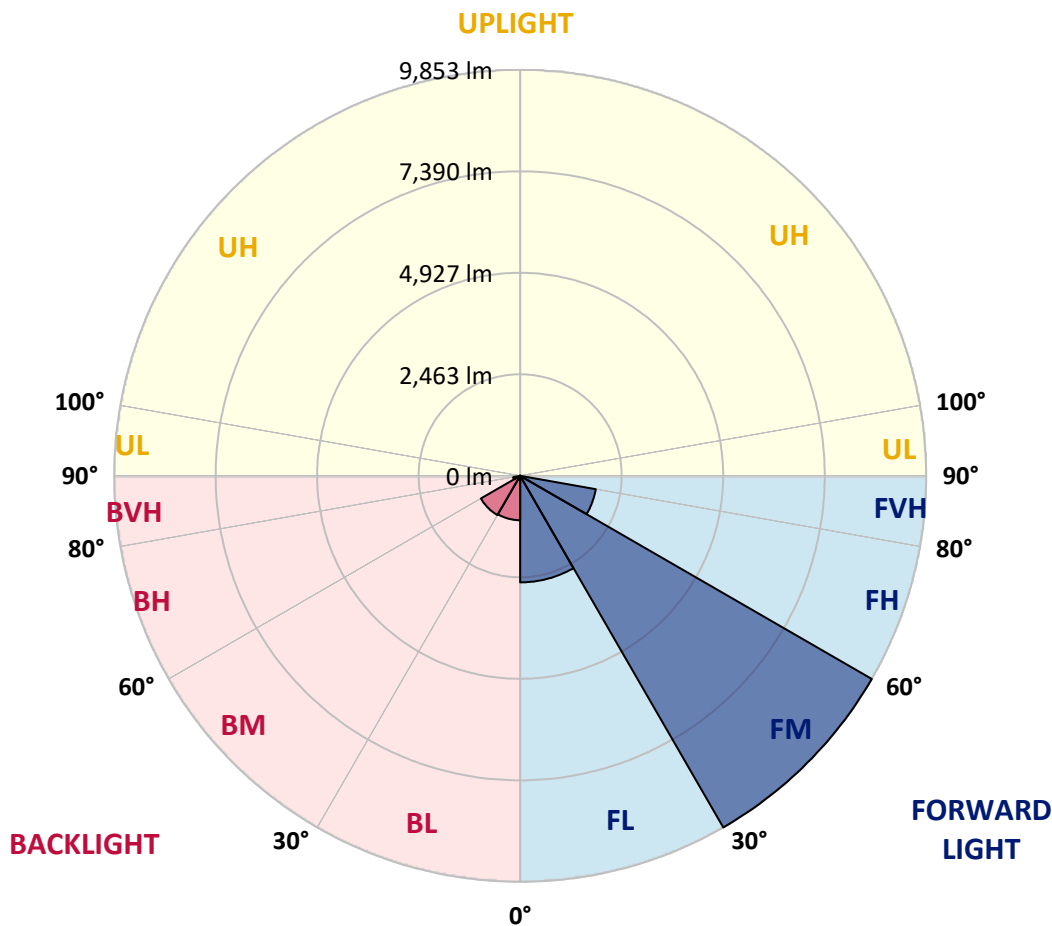
CATALOG NUMBER: GALN-SA5B-760-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2586.7 | 15.5 | | | |
| FM (30°-60°) | 9853.4 | 59.1 | | | |
| FH (60°-80°) | 1862.5 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 6.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1077.0 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1101.2 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 168.9 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 |
| 2.5° | 7768.3 | 7687.8 | 7694.0 | 7666.1 | 7628.9 | 7656.8 | 7535.9 | 7563.8 | 7560.7 | 7396.5 | 7288.0 |
| 5° | 7573.1 | 7659.9 | 7570.0 | 7644.4 | 7573.1 | 7650.6 | 7576.2 | 7520.4 | 7430.6 | 7309.7 | 7108.3 |
| 7.5° | 7241.6 | 7157.9 | 7182.7 | 7275.6 | 7291.1 | 7464.7 | 7371.7 | 7443.0 | 7405.8 | 7167.2 | 6891.4 |
| 10° | 6575.3 | 6556.8 | 6680.7 | 6804.6 | 6956.5 | 7142.4 | 7213.7 | 7173.4 | 7145.5 | 7055.6 | 6686.9 |
| 12.5° | 6064.1 | 6116.7 | 6113.6 | 6318.2 | 6575.3 | 6680.7 | 6866.6 | 6860.4 | 7015.4 | 6848.0 | 6494.8 |
| 15° | 5577.6 | 5605.5 | 5735.6 | 5862.7 | 6147.7 | 6448.3 | 6677.6 | 6708.6 | 6894.5 | 6776.8 | 6346.0 |
| 17.5° | 5280.1 | 5239.8 | 5342.1 | 5493.9 | 5785.2 | 6178.7 | 6432.8 | 6507.2 | 6761.3 | 6736.5 | 6175.6 |
| 20° | 4985.7 | 4985.7 | 5069.4 | 5249.1 | 5515.6 | 5958.7 | 6411.1 | 6389.4 | 6761.3 | 6690.0 | 5992.8 |
| 22.5° | 4886.6 | 4936.2 | 4957.8 | 5094.2 | 5410.3 | 5791.4 | 6318.2 | 6358.4 | 6813.9 | 6668.3 | 5912.2 |
| 25° | 5022.9 | 4957.8 | 4964.0 | 5072.5 | 5370.0 | 5710.8 | 6250.0 | 6339.9 | 6910.0 | 6776.8 | 5847.2 |
| 27.5° | 5044.6 | 5109.7 | 5128.3 | 5202.6 | 5401.0 | 5735.6 | 6420.4 | 6603.2 | 7148.6 | 7030.9 | 5865.8 |
| 30° | 5233.6 | 5298.7 | 5295.6 | 5422.6 | 5559.0 | 5937.0 | 6801.6 | 6838.7 | 7641.3 | 7350.0 | 5980.4 |
| 32.5° | 5462.9 | 5531.1 | 5552.8 | 5701.5 | 5810.0 | 6305.8 | 7266.3 | 7362.4 | 8115.4 | 7852.0 | 6281.0 |
| 35° | 5748.0 | 5723.2 | 5822.4 | 5971.1 | 6203.5 | 6844.9 | 7833.4 | 7994.5 | 8626.7 | 8502.7 | 6590.8 |
| 37.5° | 6104.4 | 6073.4 | 6169.4 | 6411.1 | 6727.2 | 7483.3 | 8357.1 | 8462.4 | 8998.5 | 9107.0 | 7164.1 |
| 40° | 6355.3 | 6367.7 | 6659.0 | 6984.4 | 7319.0 | 8090.6 | 8688.6 | 8790.9 | 9258.8 | 9670.9 | 7597.9 |
| 42.5° | 6773.7 | 6851.1 | 7201.3 | 7597.9 | 7948.1 | 8546.1 | 8958.2 | 9057.4 | 9379.6 | 10123.3 | 8183.6 |
| 45° | 7381.0 | 7346.9 | 7734.2 | 8177.4 | 8564.7 | 9020.2 | 9277.4 | 9243.3 | 9450.9 | 10572.6 | 8552.3 |
| 47.5° | 8161.9 | 8168.1 | 8425.2 | 8803.3 | 9206.1 | 9432.3 | 9633.7 | 9512.9 | 9599.6 | 11046.7 | 9045.0 |
| 50° | 8694.8 | 8741.3 | 8948.9 | 9336.3 | 9537.7 | 9884.7 | 10141.9 | 10067.5 | 10039.6 | 11331.8 | 9354.8 |
| 52.5° | 8831.2 | 8970.6 | 9082.2 | 9565.6 | 10036.5 | 10585.0 | 10913.5 | 11071.5 | 10575.7 | 11427.8 | 9748.4 |
| 55° | 7802.4 | 7926.4 | 8319.9 | 8983.0 | 10225.6 | 11694.3 | 12146.7 | 12149.8 | 11276.0 | 11855.5 | 10024.2 |
| 57.5° | 6237.6 | 5986.6 | 6228.3 | 6931.7 | 8645.3 | 11647.8 | 12747.9 | 12602.2 | 11626.2 | 11604.5 | 9785.6 |
| 60° | 4313.3 | 4251.4 | 4266.8 | 4545.7 | 5983.5 | 9265.0 | 11359.7 | 11548.7 | 10705.9 | 10058.2 | 7746.6 |
| 62.5° | 3417.8 | 3365.1 | 3297.0 | 3266.0 | 3715.3 | 5772.8 | 8013.1 | 8279.6 | 7486.4 | 6522.7 | 4592.2 |
| 65° | 2677.2 | 2646.3 | 2655.5 | 2779.5 | 2776.4 | 3275.3 | 4381.5 | 4273.0 | 3420.9 | 2528.5 | 1444.0 |
| 67.5° | 1806.5 | 1853.0 | 1890.2 | 2265.1 | 2457.2 | 2280.6 | 2116.4 | 2054.4 | 1112.4 | 467.9 | 319.2 |
| 70° | 1016.4 | 1022.6 | 1062.8 | 1416.1 | 1865.4 | 1769.3 | 1459.5 | 1459.5 | 554.7 | 170.4 | 182.8 |
| 72.5° | 554.7 | 536.1 | 498.9 | 610.4 | 830.4 | 842.8 | 650.7 | 567.1 | 164.2 | 111.6 | 102.3 |
| 75° | 269.6 | 266.5 | 229.3 | 189.0 | 179.7 | 148.7 | 114.7 | 105.4 | 74.4 | 71.3 | 62.0 |
| 77.5° | 55.8 | 52.7 | 27.9 | 27.9 | 31.0 | 34.1 | 43.4 | 43.4 | 52.7 | 52.7 | 43.4 |
| 80° | 0.0 | 0.0 | 3.1 | 12.4 | 21.7 | 31.0 | 37.2 | 37.2 | 43.4 | 43.4 | 34.1 |
| 82.5° | 0.0 | 0.0 | 3.1 | 9.3 | 18.6 | 27.9 | 34.1 | 37.2 | 43.4 | 46.5 | 37.2 |
| 85° | 0.0 | 0.0 | 0.0 | 6.2 | 15.5 | 21.7 | 18.6 | 18.6 | 15.5 | 12.4 | 6.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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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CATALOG NUMBER: GALN-SA5B-760-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 | 7340.7 |
| 2.5° | 7232.3 | 7226.1 | 7083.5 | 7003.0 | 6857.3 | 6730.3 | 6628.0 | 6553.7 | 6553.7 | 6507.2 | 6463.8 |
| 5° | 7027.8 | 6975.1 | 6671.4 | 6476.2 | 6200.4 | 5995.9 | 5856.5 | 5748.0 | 5577.6 | 5624.1 | 5441.2 |
| 7.5° | 6773.7 | 6640.4 | 6237.6 | 5940.1 | 5559.0 | 5267.7 | 4970.2 | 4706.9 | 4452.8 | 4338.1 | 4400.1 |
| 10° | 6501.0 | 6268.6 | 5726.3 | 5255.3 | 4781.2 | 4248.3 | 3901.2 | 3479.8 | 3219.5 | 3204.0 | 3135.8 |
| 12.5° | 6212.8 | 5949.4 | 5289.4 | 4638.7 | 4015.9 | 3374.4 | 2844.6 | 2451.0 | 2274.4 | 2079.2 | 2116.4 |
| 15° | 5995.9 | 5605.5 | 4802.9 | 4019.0 | 3191.6 | 2544.0 | 2011.0 | 1707.4 | 1540.0 | 1493.6 | 1478.1 |
| 17.5° | 5760.4 | 5342.1 | 4307.1 | 3358.9 | 2503.7 | 1831.3 | 1447.1 | 1301.4 | 1236.4 | 1236.4 | 1227.1 |
| 20° | 5515.6 | 5044.6 | 3814.4 | 2745.4 | 1877.8 | 1366.5 | 1158.9 | 1112.4 | 1109.3 | 1106.2 | 1106.2 |
| 22.5° | 5354.5 | 4703.8 | 3368.2 | 2181.5 | 1416.1 | 1093.8 | 1007.1 | 988.5 | 1000.9 | 1038.0 | 1038.0 |
| 25° | 5184.1 | 4375.3 | 2875.6 | 1682.6 | 1096.9 | 938.9 | 889.3 | 901.7 | 932.7 | 966.8 | 954.4 |
| 27.5° | 5010.5 | 4161.5 | 2410.8 | 1320.0 | 898.6 | 821.1 | 802.6 | 830.4 | 864.5 | 895.5 | 886.2 |
| 30° | 4970.2 | 3932.2 | 1970.7 | 1000.9 | 771.6 | 715.8 | 728.2 | 753.0 | 787.1 | 799.5 | 811.8 |
| 32.5° | 5032.2 | 3752.5 | 1614.4 | 821.1 | 672.4 | 656.9 | 656.9 | 669.3 | 691.0 | 718.9 | 709.6 |
| 35° | 5208.8 | 3650.2 | 1276.6 | 712.7 | 616.6 | 601.1 | 598.0 | 610.4 | 622.8 | 632.1 | 622.8 |
| 37.5° | 5478.4 | 3569.7 | 1044.2 | 632.1 | 579.4 | 554.7 | 548.5 | 545.4 | 557.8 | 560.9 | 567.1 |
| 40° | 5822.4 | 3613.0 | 886.2 | 582.5 | 542.3 | 514.4 | 495.8 | 495.8 | 495.8 | 505.1 | 508.2 |
| 42.5° | 6194.2 | 3671.9 | 765.4 | 554.7 | 508.2 | 474.1 | 455.5 | 449.3 | 455.5 | 467.9 | 464.8 |
| 45° | 6584.6 | 3786.6 | 687.9 | 511.3 | 477.2 | 433.8 | 409.0 | 402.8 | 418.3 | 443.1 | 440.0 |
| 47.5° | 6950.3 | 3950.8 | 629.0 | 483.4 | 446.2 | 405.9 | 374.9 | 368.7 | 396.6 | 430.7 | 433.8 |
| 50° | 7315.9 | 4235.9 | 607.3 | 461.7 | 424.5 | 378.0 | 350.1 | 344.0 | 374.9 | 418.3 | 427.6 |
| 52.5° | 7737.3 | 4542.6 | 591.8 | 433.8 | 399.7 | 356.3 | 325.4 | 319.2 | 353.2 | 409.0 | 412.1 |
| 55° | 8013.1 | 4802.9 | 579.4 | 384.2 | 353.2 | 322.3 | 297.5 | 294.4 | 331.6 | 381.1 | 393.5 |
| 57.5° | 7690.9 | 4440.4 | 536.1 | 334.7 | 300.6 | 285.1 | 263.4 | 263.4 | 294.4 | 340.9 | 350.1 |
| 60° | 5831.7 | 2922.0 | 381.1 | 269.6 | 254.1 | 244.8 | 235.5 | 235.5 | 260.3 | 294.4 | 297.5 |
| 62.5° | 3414.7 | 1574.1 | 244.8 | 216.9 | 216.9 | 207.6 | 192.1 | 192.1 | 216.9 | 235.5 | 238.6 |
| 65° | 1013.3 | 505.1 | 198.3 | 185.9 | 182.8 | 167.3 | 151.8 | 148.7 | 167.3 | 176.6 | 173.5 |
| 67.5° | 291.3 | 232.4 | 164.2 | 154.9 | 151.8 | 127.0 | 117.7 | 114.7 | 117.7 | 111.6 | 108.5 |
| 70° | 173.5 | 158.0 | 127.0 | 130.1 | 114.7 | 93.0 | 83.7 | 80.6 | 74.4 | 65.1 | 58.9 |
| 72.5° | 96.1 | 96.1 | 93.0 | 99.2 | 80.6 | 62.0 | 52.7 | 43.4 | 34.1 | 27.9 | 24.8 |
| 75° | 58.9 | 62.0 | 65.1 | 68.2 | 52.7 | 40.3 | 34.1 | 21.7 | 12.4 | 6.2 | 6.2 |
| 77.5° | 40.3 | 43.4 | 46.5 | 49.6 | 43.4 | 37.2 | 27.9 | 15.5 | 3.1 | 0.0 | 0.0 |
| 80° | 31.0 | 34.1 | 40.3 | 43.4 | 46.5 | 49.6 | 37.2 | 15.5 | 3.1 | 0.0 | 0.0 |
| 82.5° | 34.1 | 37.2 | 46.5 | 43.4 | 43.4 | 43.4 | 34.1 | 15.5 | 3.1 | 0.0 | 0.0 |
| 85° | 6.2 | 9.3 | 15.5 | 15.5 | 21.7 | 27.9 | 21.7 | 6.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)