

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: P454262

Luminaire Tested: **GALN-SA5B-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20464 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

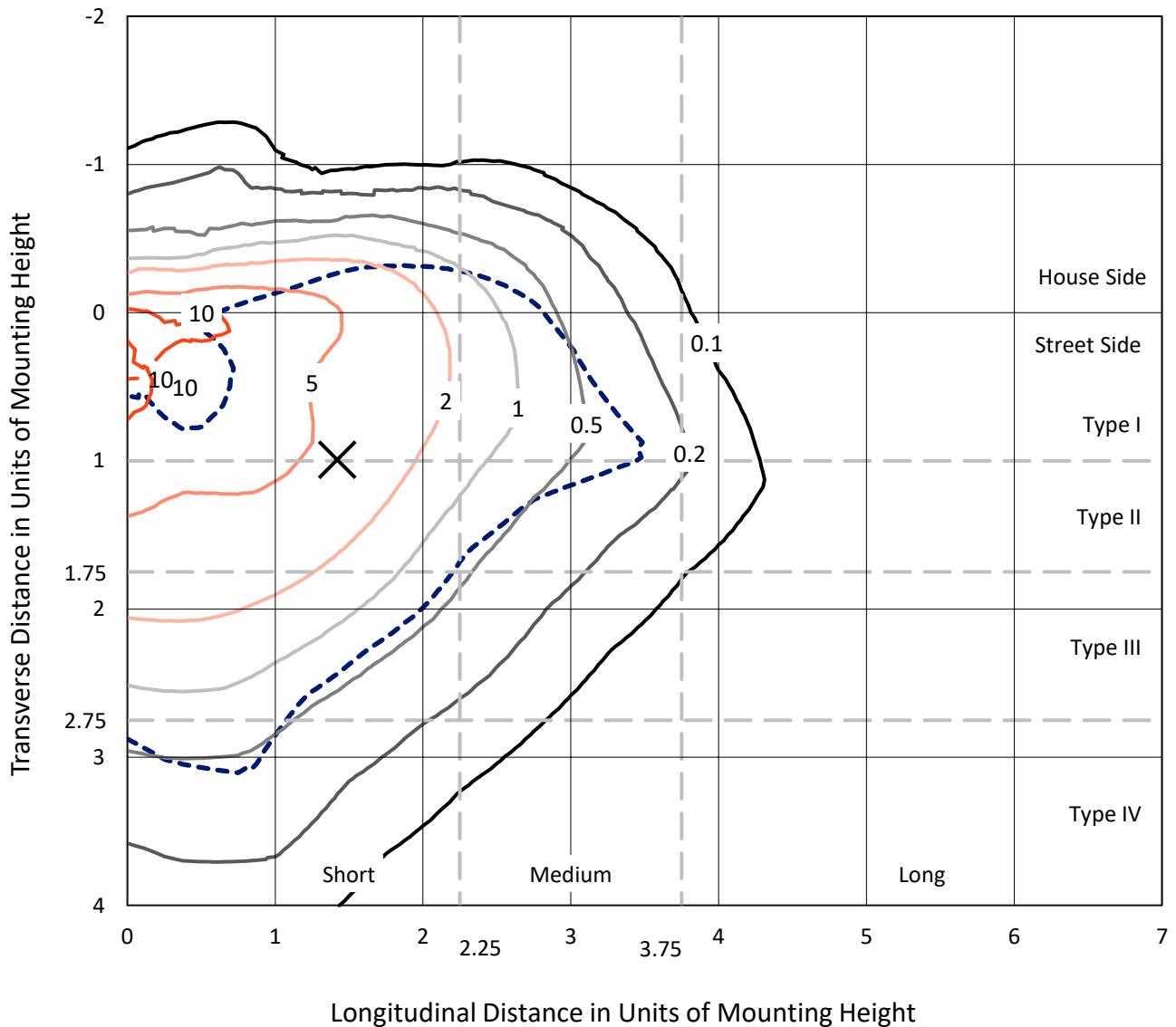
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454262
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Iso-Footcandle Lines of Horizontal Illumination

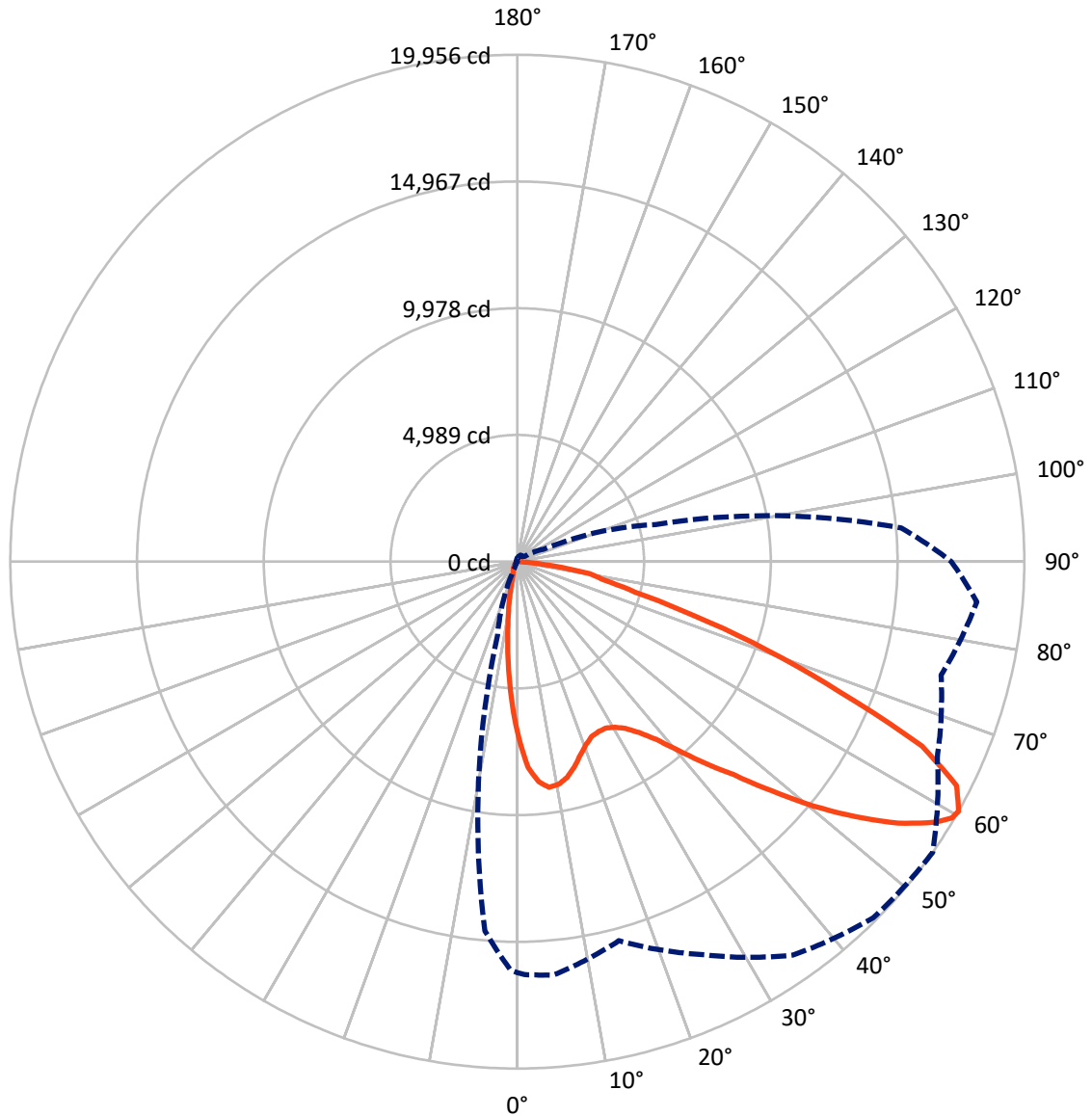
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3037.0 | 0.0 | 3037.0 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 17427.0 | 0.0 | 17427.0 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 20464.0 | 0.0 | 20464.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 513.1 | 2.5 |
| 10°-20° | 1010.4 | 4.9 |
| 20°-30° | 1495.6 | 7.3 |
| 30°-40° | 2229.4 | 10.9 |
| 40°-50° | 3264.9 | 16.0 |
| 50°-60° | 4713.5 | 23.0 |
| 60°-70° | 4958.4 | 24.2 |
| 70°-80° | 2039.7 | 10.0 |
| 80°-90° | 238.9 | 1.2 |
| 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° | 20464.0 | 100.0 |
| 0°-180° | 20464.0 | 100.0 |

Coefficient of Utilization



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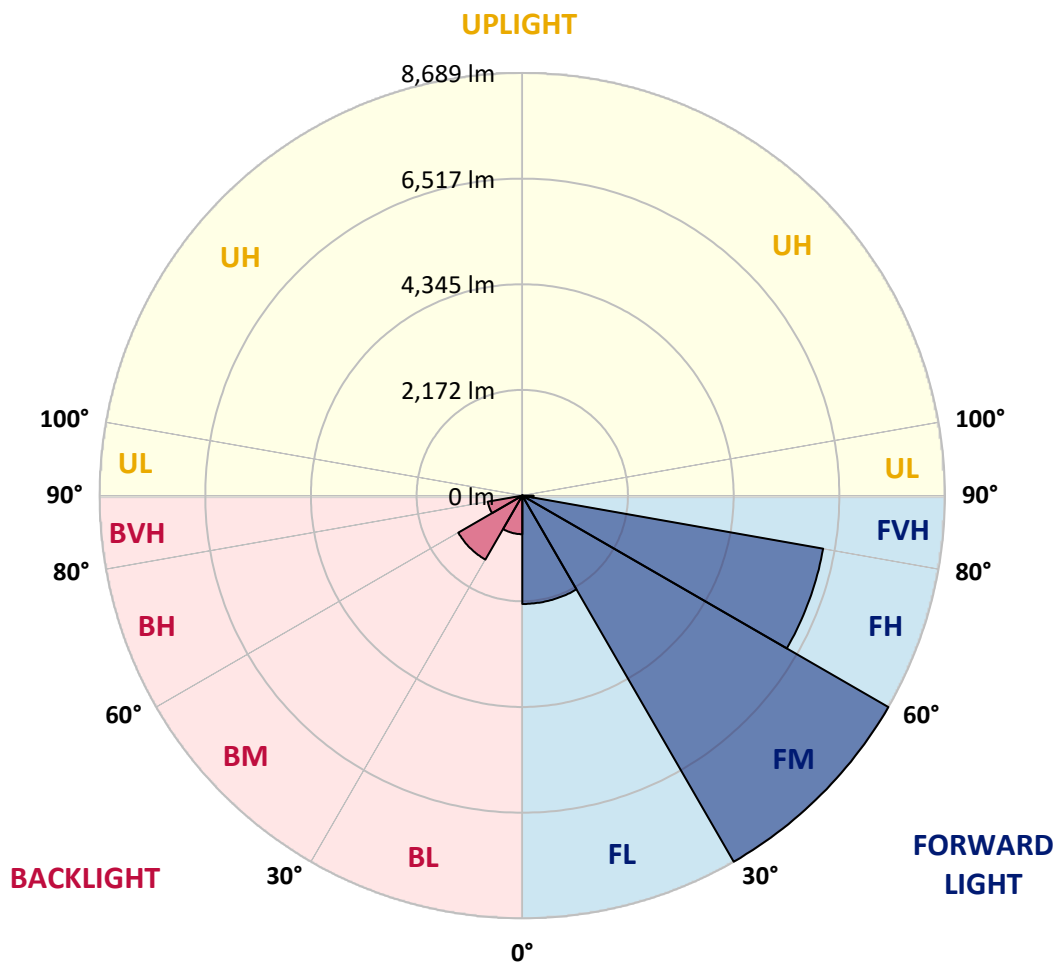
CATALOG NUMBER: GALN-SA5B-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2226.8 | 10.9 | | | |
| FM | (30°-60°) | 8689.0 | 42.5 | | | |
| FH | (60°-80°) | 6279.3 | 30.7 | | | G3/7500 |
| FVH | (80°-90°) | 231.9 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 792.4 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1518.8 | 7.4 | B2/2500 | | |
| BH | (60°-80°) | 718.8 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CATALOG NUMBER: GALN-SA5B-760-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 |
| 2.5° | 7570.1 | 7557.5 | 7669.4 | 7852.1 | 8036.4 | 8132.5 | 8113.6 | 8105.7 | 7952.9 | 7841.1 | 7606.4 |
| 5° | 7554.4 | 7619.0 | 7819.0 | 8313.6 | 8688.5 | 8869.6 | 8923.2 | 8697.9 | 8400.2 | 7968.6 | 7436.2 |
| 7.5° | 7102.3 | 7182.7 | 7508.7 | 8282.1 | 8948.4 | 9342.2 | 9328.0 | 8967.3 | 8353.0 | 7685.1 | 6925.9 |
| 10° | 6541.6 | 6636.1 | 7018.8 | 7957.6 | 8822.4 | 9342.2 | 9370.5 | 8913.7 | 8149.8 | 7292.9 | 6494.3 |
| 12.5° | 6146.2 | 6258.0 | 6681.8 | 7655.2 | 8497.9 | 9009.8 | 9042.9 | 8712.1 | 7997.0 | 7141.7 | 6259.6 |
| 15° | 6012.3 | 6117.9 | 6547.9 | 7502.4 | 8152.9 | 8428.6 | 8420.7 | 8386.1 | 7937.1 | 7177.9 | 6272.2 |
| 17.5° | 6242.3 | 6328.9 | 6814.1 | 7571.7 | 7830.0 | 7801.7 | 7842.6 | 8009.6 | 7949.7 | 7481.9 | 6669.2 |
| 20° | 6836.1 | 6924.3 | 7445.7 | 7784.4 | 7582.7 | 7403.2 | 7422.1 | 7700.9 | 8066.3 | 8053.7 | 7289.8 |
| 22.5° | 7653.6 | 7803.3 | 8275.8 | 8197.0 | 7549.7 | 7155.9 | 7116.5 | 7478.8 | 8264.8 | 8712.1 | 8127.7 |
| 25° | 8688.5 | 8839.7 | 9208.3 | 8855.5 | 7711.9 | 7097.6 | 7061.4 | 7411.0 | 8505.8 | 9354.8 | 9071.2 |
| 27.5° | 9558.0 | 9673.0 | 10040.0 | 9496.5 | 7951.3 | 7122.8 | 7062.9 | 7420.5 | 8701.1 | 9901.3 | 9866.7 |
| 30° | 10254.2 | 10339.2 | 10555.0 | 9795.8 | 8157.7 | 7233.1 | 7163.8 | 7559.1 | 8787.7 | 10167.5 | 10510.9 |
| 32.5° | 10814.9 | 10958.3 | 11026.0 | 10115.6 | 8453.8 | 7441.0 | 7322.8 | 7825.3 | 8998.8 | 10496.8 | 11186.7 |
| 35° | 11456.0 | 11621.4 | 11534.8 | 10421.1 | 8844.4 | 7765.5 | 7620.5 | 8256.9 | 9318.5 | 10800.8 | 11971.1 |
| 37.5° | 12268.8 | 12459.4 | 12120.7 | 10742.5 | 9257.1 | 8253.7 | 8186.0 | 8863.3 | 9803.7 | 11235.5 | 12812.2 |
| 40° | 13109.9 | 13220.2 | 12689.4 | 11133.1 | 9764.3 | 8964.1 | 9028.7 | 9764.3 | 10438.5 | 11756.9 | 13706.9 |
| 42.5° | 13766.7 | 13870.7 | 13273.7 | 11460.7 | 10282.5 | 9806.8 | 10076.2 | 10851.2 | 11166.2 | 12290.8 | 14374.8 |
| 45° | 14269.2 | 14357.4 | 13678.5 | 11818.3 | 10981.9 | 11027.6 | 11536.3 | 11971.1 | 11895.5 | 12616.9 | 14889.8 |
| 47.5° | 14659.9 | 14735.5 | 13990.4 | 12202.6 | 12029.4 | 12520.8 | 13298.9 | 13483.2 | 12651.5 | 12969.7 | 15356.1 |
| 50° | 14820.5 | 14842.6 | 14088.1 | 12692.5 | 13218.6 | 14423.6 | 15234.8 | 15122.9 | 13517.9 | 13361.9 | 15852.2 |
| 52.5° | 15030.0 | 15025.3 | 14366.9 | 13158.7 | 14337.0 | 16124.7 | 16934.4 | 16680.8 | 14497.6 | 13949.5 | 16409.8 |
| 55° | 15579.7 | 15586.0 | 14963.9 | 13820.3 | 15289.9 | 17498.3 | 18364.6 | 18180.3 | 15530.9 | 14941.8 | 17060.4 |
| 57.5° | 16247.6 | 16271.2 | 15812.9 | 14593.7 | 16200.3 | 18493.8 | 19432.5 | 19361.7 | 16928.1 | 16046.0 | 17674.7 |
| 59° | 16334.2 | 16381.5 | 16214.5 | 15138.7 | 16740.6 | 18799.3 | 19798.0 | 19867.3 | 17676.3 | 16773.7 | 18007.0 |
| 60° | 16176.7 | 16255.5 | 16331.1 | 15447.4 | 17057.2 | 18909.6 | 19820.0 | 19955.5 | 18238.6 | 17268.3 | 18158.2 |
| 62.5° | 15490.0 | 15614.4 | 15994.0 | 16397.2 | 17452.6 | 18566.2 | 19115.9 | 19399.5 | 18934.8 | 18567.8 | 18172.4 |
| 65° | 14590.5 | 14655.1 | 15203.3 | 16565.8 | 16685.5 | 16962.7 | 17132.8 | 17496.7 | 18098.4 | 19068.7 | 17521.9 |
| 67.5° | 13116.2 | 13306.8 | 13977.8 | 15587.6 | 14422.0 | 14094.4 | 14051.9 | 13689.6 | 15252.1 | 17874.7 | 15918.4 |
| 70° | 10835.4 | 10920.5 | 11747.4 | 12779.1 | 10884.2 | 10380.2 | 10581.8 | 10446.3 | 11823.0 | 15387.6 | 12812.2 |
| 72.5° | 8193.9 | 8386.1 | 9194.1 | 10186.4 | 7406.3 | 6752.6 | 7308.7 | 7258.3 | 8880.7 | 12366.4 | 8801.9 |
| 75° | 5829.6 | 5954.0 | 6984.2 | 7971.8 | 5186.9 | 4394.6 | 4594.7 | 4782.1 | 6199.8 | 9764.3 | 5201.1 |
| 77.5° | 4005.6 | 4112.7 | 4886.1 | 5272.0 | 3783.5 | 3624.4 | 3315.7 | 3496.8 | 4062.3 | 5793.4 | 2830.5 |
| 80° | 2416.3 | 2411.5 | 2920.3 | 3014.8 | 2635.2 | 3060.5 | 2567.5 | 2882.5 | 2455.6 | 2479.3 | 1096.3 |
| 82.5° | 1568.8 | 1553.1 | 1786.2 | 1946.9 | 1466.5 | 1542.1 | 1034.9 | 1491.7 | 1600.3 | 691.5 | 346.5 |
| 85° | 702.5 | 732.4 | 858.5 | 1132.5 | 642.7 | 341.8 | 211.1 | 458.4 | 682.0 | 348.1 | 0.0 |
| 87.5° | 72.5 | 56.7 | 151.2 | 275.7 | 88.2 | 9.5 | 31.5 | 15.8 | 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-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 |
| 2.5° | 7497.7 | 7406.3 | 7133.8 | 6878.6 | 6659.7 | 6391.9 | 6218.7 | 5946.2 | 5780.8 | 5730.4 | 5738.2 |
| 5° | 7196.8 | 6933.8 | 6415.6 | 6001.3 | 5539.8 | 5276.7 | 4876.6 | 4492.3 | 4284.4 | 4207.2 | 4172.6 |
| 7.5° | 6566.8 | 6284.8 | 5659.5 | 5009.0 | 4514.4 | 4052.8 | 3755.1 | 3416.5 | 3184.9 | 2994.3 | 2961.3 |
| 10° | 6099.0 | 5728.8 | 4953.8 | 4254.5 | 3863.8 | 3517.3 | 3219.6 | 2880.9 | 2608.4 | 2391.1 | 2331.2 |
| 12.5° | 5818.6 | 5404.3 | 4539.6 | 3953.6 | 3583.5 | 3227.5 | 2840.0 | 2447.8 | 2169.0 | 1934.3 | 1825.6 |
| 15° | 5768.2 | 5287.8 | 4423.0 | 3737.8 | 3281.0 | 2851.0 | 2335.9 | 1912.2 | 1625.5 | 1403.5 | 1335.7 |
| 17.5° | 6072.2 | 5497.2 | 4405.7 | 3512.6 | 2885.7 | 2276.1 | 1740.5 | 1389.3 | 1066.4 | 941.9 | 893.1 |
| 20° | 6614.0 | 5867.4 | 4404.1 | 3251.1 | 2479.3 | 1753.1 | 1222.3 | 905.7 | 775.0 | 715.1 | 686.8 |
| 22.5° | 7352.8 | 6371.5 | 4487.6 | 3025.8 | 2057.1 | 1293.2 | 872.6 | 721.4 | 645.8 | 597.0 | 586.0 |
| 25° | 8255.3 | 7118.1 | 4692.4 | 2873.1 | 1734.2 | 1014.4 | 719.8 | 617.5 | 554.5 | 532.4 | 522.9 |
| 27.5° | 9057.1 | 7833.2 | 4917.6 | 2715.5 | 1502.7 | 897.8 | 667.9 | 565.5 | 515.1 | 497.7 | 483.6 |
| 30° | 9748.6 | 8482.1 | 5026.3 | 2507.6 | 1316.8 | 822.2 | 677.3 | 604.9 | 538.7 | 486.7 | 463.1 |
| 32.5° | 10325.1 | 8979.9 | 5097.2 | 2318.6 | 1159.3 | 672.6 | 535.5 | 467.8 | 437.9 | 419.0 | 403.2 |
| 35° | 11046.5 | 9518.6 | 5054.6 | 2211.5 | 1079.0 | 612.7 | 488.3 | 403.2 | 352.8 | 315.0 | 299.3 |
| 37.5° | 11802.5 | 10057.3 | 4980.6 | 2123.3 | 1042.7 | 568.6 | 464.7 | 382.8 | 327.6 | 288.3 | 267.8 |
| 40° | 12585.4 | 10556.6 | 4894.0 | 2041.4 | 1009.7 | 540.3 | 450.5 | 365.4 | 310.3 | 267.8 | 245.7 |
| 42.5° | 13302.1 | 11043.3 | 4859.3 | 1987.8 | 956.1 | 545.0 | 439.5 | 357.6 | 293.0 | 248.9 | 230.0 |
| 45° | 13881.7 | 11504.8 | 4906.6 | 1959.5 | 897.8 | 537.1 | 442.6 | 348.1 | 278.8 | 236.3 | 217.4 |
| 47.5° | 14500.8 | 12157.0 | 5059.4 | 1931.1 | 841.1 | 499.3 | 466.2 | 346.5 | 272.5 | 228.4 | 207.9 |
| 50° | 15220.6 | 12991.8 | 5409.0 | 1861.8 | 771.8 | 458.4 | 496.2 | 345.0 | 264.6 | 218.9 | 198.5 |
| 52.5° | 16179.9 | 13940.0 | 5769.7 | 1740.5 | 671.0 | 419.0 | 474.1 | 340.2 | 248.9 | 207.9 | 187.4 |
| 55° | 17041.5 | 14938.7 | 6075.3 | 1597.2 | 543.4 | 362.3 | 426.9 | 319.8 | 222.1 | 189.0 | 170.1 |
| 57.5° | 17397.5 | 15502.6 | 6065.9 | 1398.7 | 434.7 | 318.2 | 351.3 | 293.0 | 193.7 | 167.0 | 151.2 |
| 59° | 17266.7 | 15431.7 | 5862.7 | 1252.2 | 396.9 | 294.6 | 291.4 | 289.8 | 181.1 | 151.2 | 138.6 |
| 60° | 17082.4 | 15173.4 | 5643.7 | 1179.8 | 373.3 | 278.8 | 267.8 | 286.7 | 170.1 | 141.8 | 129.2 |
| 62.5° | 16376.8 | 14102.3 | 4917.6 | 1056.9 | 341.8 | 236.3 | 214.2 | 242.6 | 151.2 | 122.9 | 111.8 |
| 65° | 15354.5 | 12456.2 | 4163.1 | 1022.3 | 332.4 | 195.3 | 178.0 | 173.3 | 129.2 | 104.0 | 94.5 |
| 67.5° | 13360.4 | 10540.9 | 3372.4 | 998.6 | 335.5 | 163.8 | 155.9 | 130.7 | 107.1 | 86.6 | 80.3 |
| 70° | 10696.8 | 8219.1 | 2761.2 | 971.9 | 338.7 | 133.9 | 130.7 | 104.0 | 86.6 | 72.5 | 66.2 |
| 72.5° | 6499.0 | 4871.9 | 2173.7 | 844.3 | 329.2 | 107.1 | 116.6 | 78.8 | 63.0 | 52.0 | 48.8 |
| 75° | 4018.2 | 3334.6 | 1348.3 | 656.8 | 217.4 | 78.8 | 81.9 | 48.8 | 42.5 | 33.1 | 33.1 |
| 77.5° | 2328.1 | 2106.0 | 482.0 | 236.3 | 96.1 | 47.3 | 36.2 | 25.2 | 23.6 | 14.2 | 14.2 |
| 80° | 965.6 | 773.4 | 167.0 | 80.3 | 52.0 | 22.1 | 7.9 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 282.0 | 250.4 | 45.7 | 36.2 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GALN-SA5B-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 |
| 2.5° | 5604.4 | 5552.4 | 5528.8 | 5609.1 | 5535.1 | 5629.6 | 5557.1 | 5588.6 | 5681.5 | 5722.5 | 5828.0 |
| 5° | 4194.6 | 4141.1 | 4115.8 | 4237.1 | 4230.8 | 4290.7 | 4284.4 | 4339.5 | 4386.8 | 4281.2 | 4389.9 |
| 7.5° | 2921.9 | 2885.7 | 2945.5 | 3040.0 | 3140.8 | 3107.8 | 3107.8 | 3033.7 | 3058.9 | 3043.2 | 3038.5 |
| 10° | 2222.5 | 2098.1 | 2066.6 | 2063.4 | 2101.2 | 2109.1 | 2066.6 | 1964.2 | 2002.0 | 2013.0 | 2079.2 |
| 12.5° | 1748.4 | 1652.3 | 1505.8 | 1439.7 | 1422.4 | 1436.5 | 1296.3 | 1206.6 | 1249.1 | 1223.9 | 1288.5 |
| 15° | 1253.8 | 1175.1 | 1088.4 | 1014.4 | 993.9 | 965.6 | 812.8 | 705.7 | 693.1 | 697.8 | 708.8 |
| 17.5° | 894.7 | 841.1 | 841.1 | 762.4 | 719.8 | 634.8 | 557.6 | 510.3 | 505.6 | 510.3 | 518.2 |
| 20° | 660.0 | 631.6 | 628.5 | 608.0 | 560.8 | 504.0 | 450.5 | 441.0 | 437.9 | 445.8 | 448.9 |
| 22.5° | 568.6 | 538.7 | 513.5 | 511.9 | 467.8 | 420.6 | 395.4 | 382.8 | 384.3 | 387.5 | 395.4 |
| 25° | 508.8 | 477.3 | 450.5 | 434.7 | 403.2 | 370.2 | 346.5 | 340.2 | 340.2 | 345.0 | 346.5 |
| 27.5° | 466.2 | 426.9 | 403.2 | 381.2 | 352.8 | 324.5 | 304.0 | 299.3 | 296.1 | 299.3 | 307.2 |
| 30° | 436.3 | 396.9 | 367.0 | 333.9 | 311.9 | 285.1 | 267.8 | 261.5 | 259.9 | 261.5 | 267.8 |
| 32.5° | 373.3 | 349.7 | 326.1 | 296.1 | 269.3 | 252.0 | 233.1 | 222.1 | 222.1 | 225.2 | 231.5 |
| 35° | 282.0 | 269.3 | 267.8 | 259.9 | 237.8 | 218.9 | 196.9 | 185.9 | 185.9 | 192.2 | 195.3 |
| 37.5° | 248.9 | 225.2 | 222.1 | 218.9 | 209.5 | 184.3 | 163.8 | 154.4 | 152.8 | 157.5 | 163.8 |
| 40° | 226.8 | 200.0 | 185.9 | 182.7 | 184.3 | 155.9 | 133.9 | 124.4 | 124.4 | 126.0 | 132.3 |
| 42.5° | 209.5 | 178.0 | 152.8 | 149.6 | 155.9 | 130.7 | 108.7 | 99.2 | 99.2 | 99.2 | 107.1 |
| 45° | 195.3 | 159.1 | 129.2 | 113.4 | 122.9 | 107.1 | 88.2 | 78.8 | 75.6 | 78.8 | 81.9 |
| 47.5° | 185.9 | 144.9 | 113.4 | 91.4 | 91.4 | 85.1 | 70.9 | 59.9 | 56.7 | 58.3 | 63.0 |
| 50° | 178.0 | 132.3 | 96.1 | 74.0 | 66.2 | 67.7 | 53.6 | 45.7 | 42.5 | 42.5 | 47.3 |
| 52.5° | 165.4 | 119.7 | 83.5 | 63.0 | 50.4 | 45.7 | 39.4 | 33.1 | 31.5 | 33.1 | 36.2 |
| 55° | 149.6 | 108.7 | 72.5 | 52.0 | 39.4 | 31.5 | 28.4 | 23.6 | 22.1 | 23.6 | 28.4 |
| 57.5° | 132.3 | 91.4 | 58.3 | 41.0 | 26.8 | 20.5 | 18.9 | 15.8 | 12.6 | 14.2 | 17.3 |
| 59° | 121.3 | 81.9 | 50.4 | 33.1 | 20.5 | 14.2 | 14.2 | 11.0 | 7.9 | 9.5 | 14.2 |
| 60° | 116.6 | 75.6 | 42.5 | 28.4 | 17.3 | 11.0 | 11.0 | 7.9 | 4.7 | 6.3 | 11.0 |
| 62.5° | 99.2 | 63.0 | 33.1 | 17.3 | 7.9 | 1.6 | 4.7 | 1.6 | 0.0 | 1.6 | 4.7 |
| 65° | 83.5 | 50.4 | 22.1 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| 67.5° | 69.3 | 37.8 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 55.1 | 25.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 37.8 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 23.6 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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| 0° | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 | 6929.1 |
| 2.5° | 5834.3 | 6059.6 | 6198.2 | 6459.7 | 6727.4 | 6933.8 | 7192.1 | 7423.6 | 7519.7 | 7570.1 |
| 5° | 4500.2 | 4813.6 | 5079.8 | 5478.3 | 5848.5 | 6299.0 | 6755.8 | 7294.5 | 7500.8 | 7554.4 |
| 7.5° | 3158.2 | 3477.9 | 3756.7 | 4218.2 | 4745.9 | 5349.2 | 6032.8 | 6716.4 | 7017.3 | 7102.3 |
| 10° | 2280.8 | 2622.6 | 2962.8 | 3424.4 | 3917.4 | 4571.1 | 5283.0 | 6128.9 | 6475.4 | 6541.6 |
| 12.5° | 1439.7 | 1806.7 | 2359.6 | 2929.8 | 3451.1 | 3977.2 | 4722.3 | 5642.2 | 6024.9 | 6146.2 |
| 15° | 834.8 | 1108.9 | 1526.3 | 2269.8 | 2932.9 | 3629.1 | 4441.9 | 5459.4 | 5887.9 | 6012.3 |
| 17.5° | 559.2 | 653.7 | 940.4 | 1509.0 | 2384.8 | 3307.8 | 4371.0 | 5609.1 | 6083.2 | 6242.3 |
| 20° | 471.0 | 513.5 | 614.3 | 919.9 | 1836.6 | 3021.1 | 4389.9 | 6015.5 | 6637.7 | 6836.1 |
| 22.5° | 414.3 | 453.6 | 518.2 | 661.6 | 1282.2 | 2665.1 | 4479.7 | 6596.7 | 7400.0 | 7653.6 |
| 25° | 365.4 | 404.8 | 461.5 | 548.1 | 861.6 | 2254.0 | 4676.6 | 7447.3 | 8409.7 | 8688.5 |
| 27.5° | 324.5 | 360.7 | 409.5 | 483.6 | 663.1 | 1795.7 | 4851.4 | 8275.8 | 9331.1 | 9558.0 |
| 30° | 286.7 | 316.6 | 363.9 | 420.6 | 551.3 | 1384.6 | 4939.6 | 9000.4 | 10002.2 | 10254.2 |
| 32.5° | 248.9 | 277.2 | 322.9 | 368.6 | 453.6 | 1055.3 | 4878.2 | 9532.8 | 10654.3 | 10814.9 |
| 35° | 212.6 | 242.6 | 280.4 | 322.9 | 392.2 | 852.2 | 4571.1 | 10131.3 | 11330.0 | 11456.0 |
| 37.5° | 182.7 | 207.9 | 247.3 | 280.4 | 354.4 | 682.0 | 4199.3 | 10670.0 | 12087.6 | 12268.8 |
| 40° | 154.4 | 179.6 | 218.9 | 248.9 | 326.1 | 537.1 | 3863.8 | 11268.6 | 12886.2 | 13109.9 |
| 42.5° | 126.0 | 155.9 | 190.6 | 239.4 | 280.4 | 409.5 | 3457.4 | 11753.7 | 13486.4 | 13766.7 |
| 45° | 100.8 | 133.9 | 171.7 | 237.8 | 244.1 | 311.9 | 3065.2 | 12131.8 | 14017.2 | 14269.2 |
| 47.5° | 80.3 | 113.4 | 165.4 | 222.1 | 200.0 | 247.3 | 2841.6 | 12527.1 | 14458.2 | 14659.9 |
| 50° | 64.6 | 94.5 | 173.3 | 195.3 | 167.0 | 209.5 | 2835.3 | 12968.2 | 14686.6 | 14820.5 |
| 52.5° | 52.0 | 77.2 | 146.5 | 149.6 | 141.8 | 184.3 | 3005.4 | 13464.3 | 14919.8 | 15030.0 |
| 55° | 44.1 | 64.6 | 96.1 | 110.3 | 127.6 | 167.0 | 3133.0 | 14228.3 | 15475.8 | 15579.7 |
| 57.5° | 34.7 | 55.1 | 74.0 | 88.2 | 113.4 | 152.8 | 3150.3 | 14817.4 | 16179.9 | 16247.6 |
| 59° | 29.9 | 47.3 | 66.2 | 78.8 | 104.0 | 143.3 | 3079.4 | 14853.6 | 16225.5 | 16334.2 |
| 60° | 25.2 | 42.5 | 58.3 | 74.0 | 96.1 | 135.5 | 3002.2 | 14590.5 | 16055.4 | 16176.7 |
| 62.5° | 18.9 | 33.1 | 42.5 | 59.9 | 78.8 | 116.6 | 2636.8 | 13672.2 | 15404.9 | 15490.0 |
| 65° | 12.6 | 23.6 | 31.5 | 44.1 | 61.4 | 100.8 | 2148.5 | 12481.4 | 14400.0 | 14590.5 |
| 67.5° | 7.9 | 17.3 | 25.2 | 33.1 | 50.4 | 85.1 | 1531.0 | 10703.1 | 12993.4 | 13116.2 |
| 70° | 4.7 | 11.0 | 18.9 | 26.8 | 39.4 | 67.7 | 908.9 | 8460.1 | 10810.2 | 10835.4 |
| 72.5° | 3.2 | 7.9 | 12.6 | 18.9 | 31.5 | 61.4 | 441.0 | 5514.6 | 7893.0 | 8193.9 |
| 75° | 1.6 | 4.7 | 7.9 | 14.2 | 25.2 | 50.4 | 211.1 | 3684.3 | 5743.0 | 5829.6 |
| 77.5° | 0.0 | 1.6 | 4.7 | 9.5 | 18.9 | 39.4 | 122.9 | 2419.4 | 3915.8 | 4005.6 |
| 80° | 0.0 | 0.0 | 3.2 | 7.9 | 14.2 | 25.2 | 74.0 | 1427.1 | 2372.2 | 2416.3 |
| 82.5° | 0.0 | 0.0 | 1.6 | 6.3 | 9.5 | 18.9 | 37.8 | 626.9 | 1553.1 | 1568.8 |
| 85° | 0.0 | 0.0 | 1.6 | 6.3 | 7.9 | 12.6 | 14.2 | 85.1 | 689.9 | 702.5 |
| 87.5° | 0.0 | 0.0 | 1.6 | 7.9 | 7.9 | 7.9 | 7.9 | 4.7 | 58.3 | 72.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)