

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: P529196

Luminaire Tested: **GALN-SA4B-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19043 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

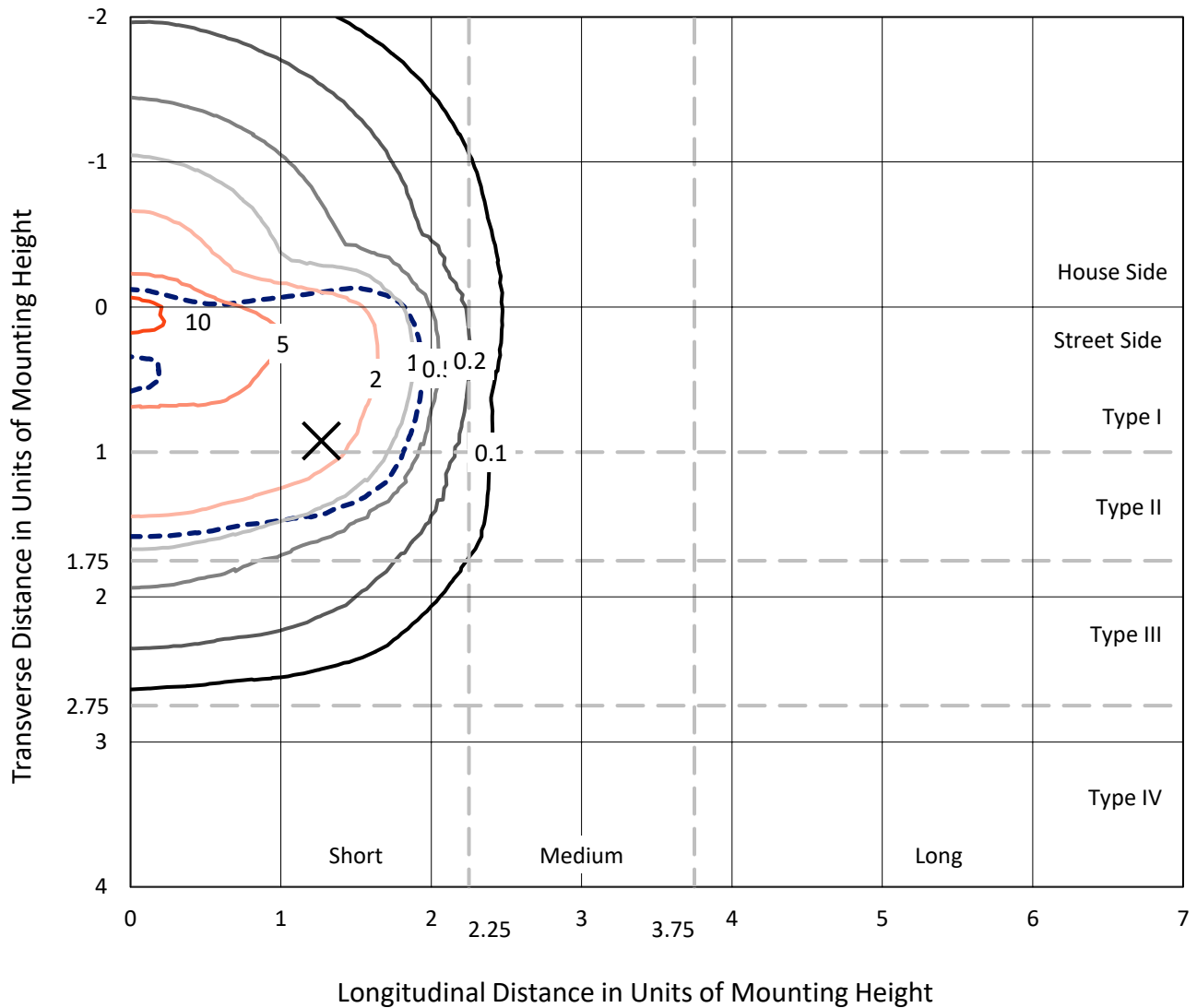
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

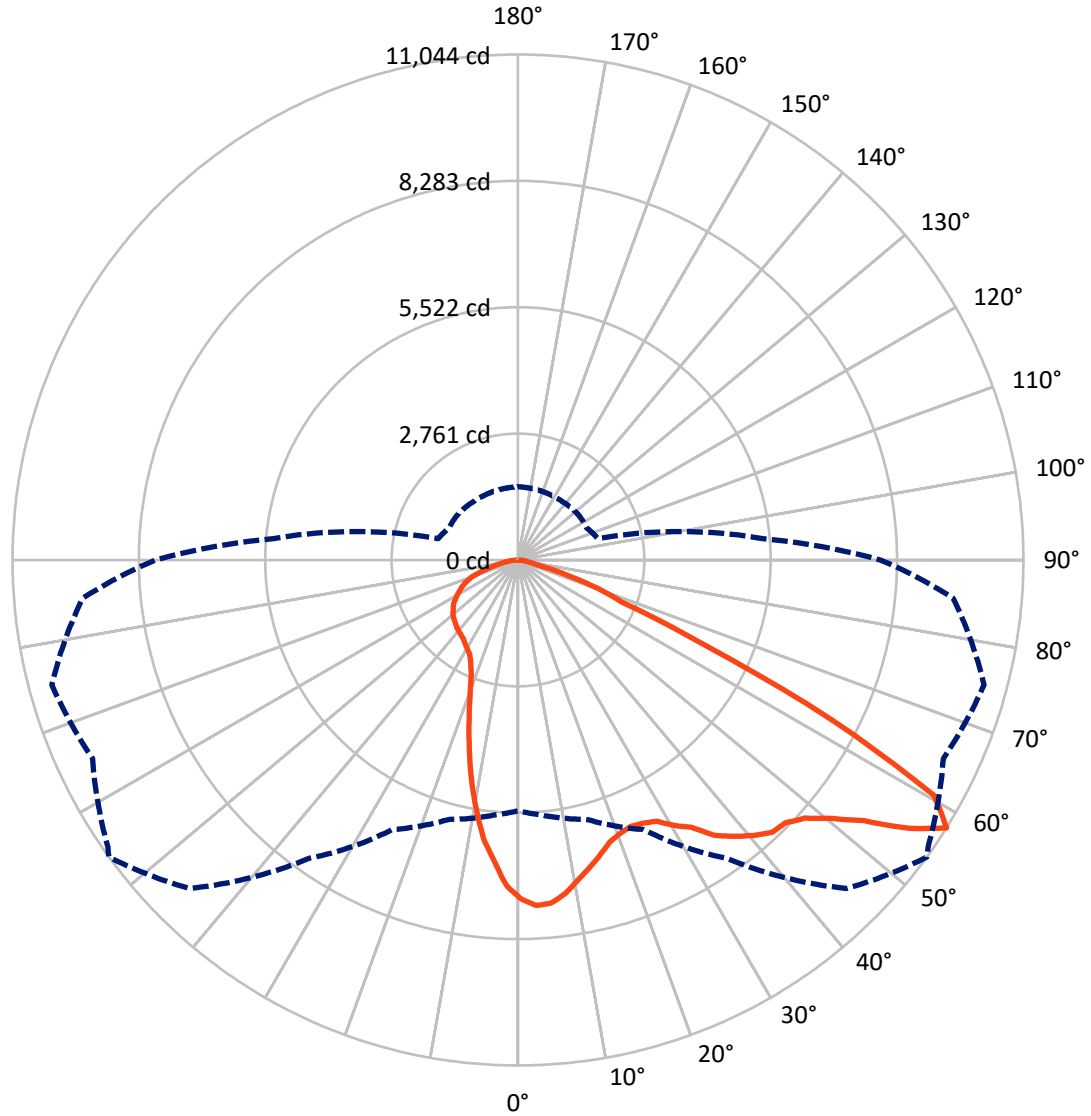
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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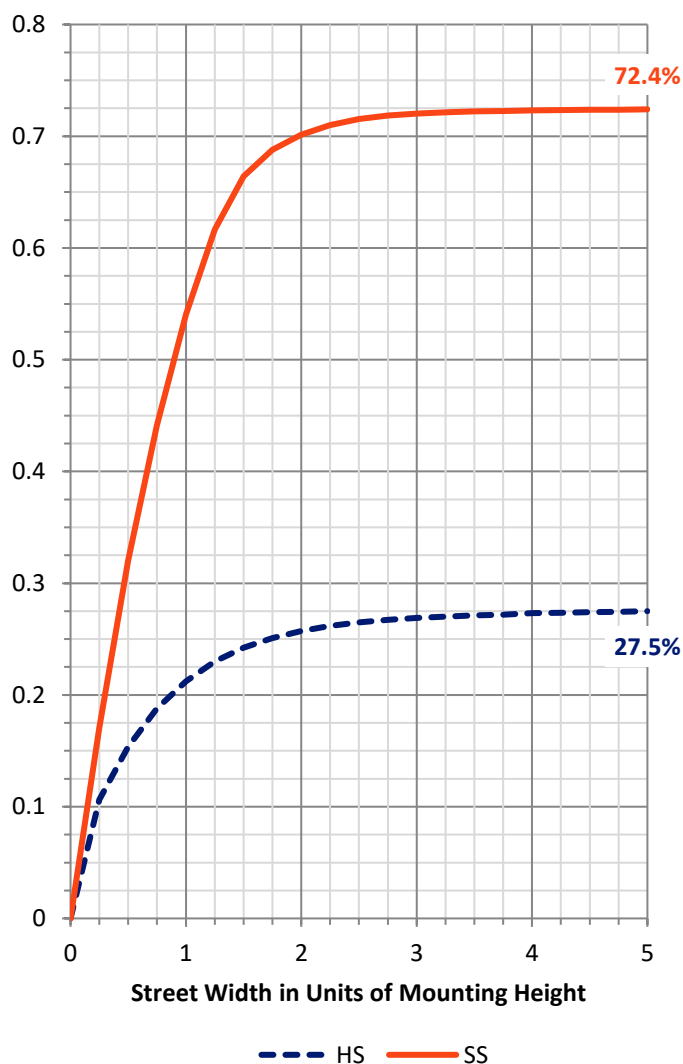
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5268.3 | 0.0 | 5268.3 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 13774.6 | 0.0 | 13774.6 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 19043.0 | 0.0 | 19043.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 638.3 | 3.4 |
| 10°-20° | 1478.0 | 7.8 |
| 20°-30° | 2076.6 | 10.9 |
| 30°-40° | 2903.1 | 15.2 |
| 40°-50° | 3930.2 | 20.6 |
| 50°-60° | 4787.1 | 25.1 |
| 60°-70° | 2493.4 | 13.1 |
| 70°-80° | 638.9 | 3.4 |
| 80°-90° | 97.5 | 0.5 |
| 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° | 19043.0 | 100.0 |
| 0°-180° | 19043.0 | 100.0 |

Coefficient of Utilization



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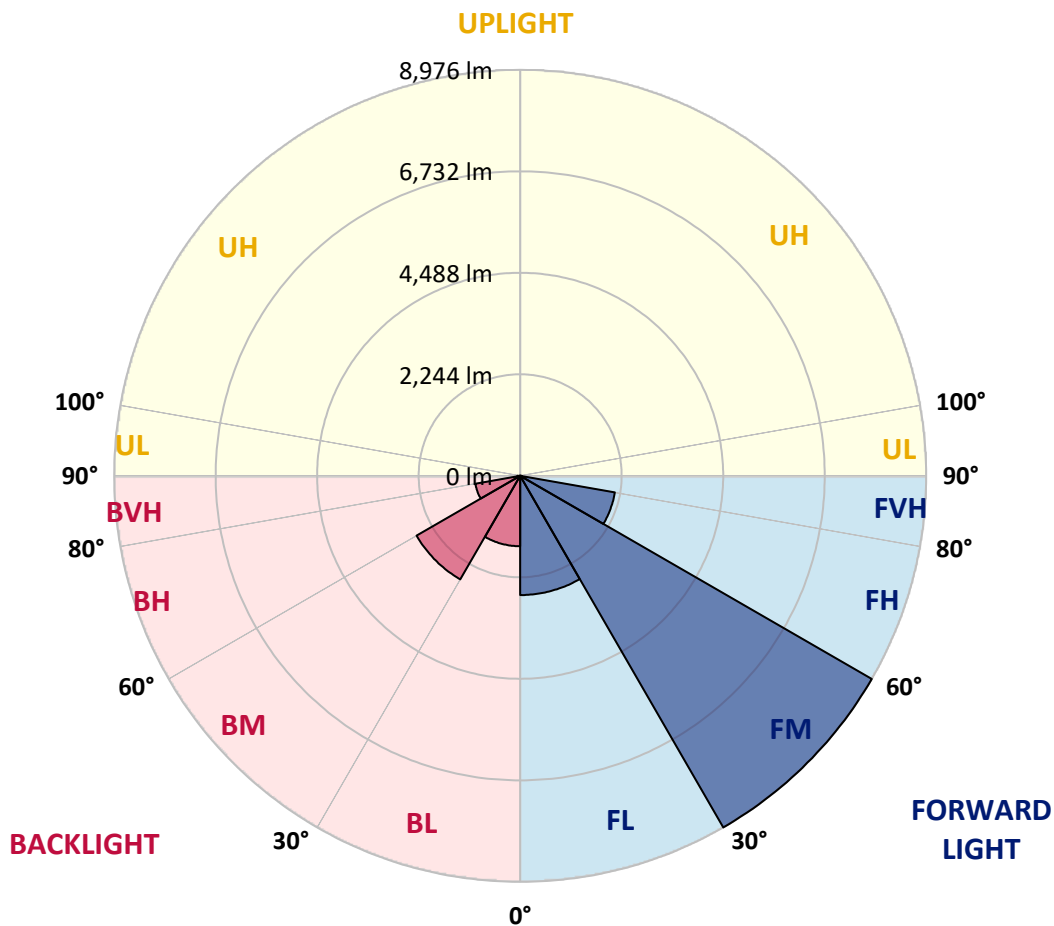
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2635.8 | 13.8 | | | |
| FM (30°-60°) | 8976.3 | 47.1 | | | |
| FH (60°-80°) | 2125.7 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 36.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1557.1 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 2644.1 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1006.5 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 60.6 | 0.3 | | | 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° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 |
| 2.5° | 7612.3 | 7582.9 | 7587.8 | 7627.0 | 7578.0 | 7558.4 | 7558.4 | 7463.0 | 7470.3 | 7404.2 | 7387.1 |
| 5° | 7436.1 | 7367.5 | 7414.0 | 7472.8 | 7482.6 | 7502.2 | 7534.0 | 7509.5 | 7441.0 | 7370.0 | 7254.9 |
| 7.5° | 6975.9 | 7037.1 | 7054.2 | 7095.8 | 7184.0 | 7264.7 | 7365.1 | 7296.5 | 7294.1 | 7223.1 | 7154.6 |
| 10° | 6572.0 | 6535.3 | 6628.3 | 6689.5 | 6836.4 | 6971.0 | 7125.2 | 7117.9 | 7154.6 | 7073.8 | 6956.3 |
| 12.5° | 6170.6 | 6141.2 | 6185.3 | 6324.8 | 6530.4 | 6726.2 | 6909.8 | 6841.3 | 7037.1 | 7022.4 | 6770.3 |
| 15° | 5744.7 | 5766.7 | 5830.4 | 5960.1 | 6229.4 | 6464.3 | 6696.9 | 6699.3 | 6873.1 | 6931.8 | 6594.1 |
| 17.5° | 5446.1 | 5421.6 | 5502.4 | 5695.8 | 5935.6 | 6217.1 | 6481.5 | 6535.3 | 6802.1 | 6836.4 | 6540.2 |
| 20° | 5223.4 | 5257.6 | 5362.9 | 5460.8 | 5737.4 | 6077.6 | 6376.2 | 6395.8 | 6787.4 | 6880.4 | 6454.5 |
| 22.5° | 5169.5 | 5149.9 | 5184.2 | 5343.3 | 5570.9 | 5940.5 | 6319.9 | 6393.4 | 6785.0 | 6865.8 | 6293.0 |
| 25° | 5113.2 | 5176.9 | 5174.4 | 5333.5 | 5499.9 | 5830.4 | 6366.4 | 6447.2 | 6914.7 | 6941.6 | 6315.0 |
| 27.5° | 5240.5 | 5233.1 | 5301.7 | 5313.9 | 5519.5 | 5859.8 | 6464.3 | 6525.5 | 7130.1 | 7108.1 | 6332.2 |
| 30° | 5367.8 | 5331.1 | 5372.7 | 5517.1 | 5612.5 | 6028.6 | 6733.6 | 6728.7 | 7409.1 | 7394.5 | 6386.0 |
| 32.5° | 5524.4 | 5507.3 | 5534.2 | 5661.5 | 5823.0 | 6253.8 | 6961.2 | 7105.6 | 7693.1 | 7786.1 | 6572.0 |
| 35° | 5553.8 | 5624.8 | 5688.4 | 5859.8 | 6089.8 | 6618.5 | 7389.6 | 7509.5 | 8021.1 | 8312.3 | 6926.9 |
| 37.5° | 5739.8 | 5766.7 | 5916.1 | 6219.6 | 6430.1 | 7105.6 | 7661.3 | 7737.1 | 8319.7 | 8650.1 | 7301.4 |
| 40° | 5938.1 | 5969.9 | 6195.1 | 6513.3 | 6802.1 | 7423.8 | 7915.8 | 7940.3 | 8415.1 | 8909.6 | 7546.2 |
| 42.5° | 6207.3 | 6236.7 | 6459.4 | 6858.4 | 7245.1 | 7695.5 | 8141.0 | 8167.9 | 8407.8 | 9208.2 | 7935.4 |
| 45° | 6486.4 | 6557.3 | 6819.2 | 7272.1 | 7619.6 | 8013.7 | 8192.4 | 8302.5 | 8476.3 | 9475.0 | 8251.1 |
| 47.5° | 6878.0 | 6944.1 | 7159.5 | 7602.5 | 8008.8 | 8292.8 | 8429.8 | 8537.5 | 8640.3 | 9707.5 | 8454.3 |
| 50° | 7294.1 | 7306.3 | 7568.2 | 7969.7 | 8268.3 | 8608.5 | 8872.9 | 8909.6 | 8855.7 | 9976.8 | 8799.4 |
| 52.5° | 7600.1 | 7639.2 | 7842.4 | 8234.0 | 8679.5 | 9098.0 | 9460.3 | 9499.5 | 9394.2 | 10077.1 | 8916.9 |
| 55° | 7093.4 | 7071.4 | 7401.8 | 7923.2 | 8956.1 | 9827.5 | 10353.7 | 10383.1 | 9785.8 | 10388.0 | 9301.2 |
| 57.5° | 5482.8 | 5588.1 | 5869.5 | 6498.6 | 7957.4 | 10150.5 | 11043.9 | 10938.7 | 10255.8 | 10544.6 | 9546.0 |
| 60° | 3984.8 | 3960.4 | 4148.8 | 4569.8 | 5996.8 | 8748.0 | 10441.8 | 10549.5 | 9871.5 | 9504.4 | 7871.8 |
| 62.5° | 3245.6 | 3211.4 | 3226.0 | 3240.7 | 3869.8 | 5805.9 | 7729.8 | 7727.3 | 7602.5 | 6831.5 | 5309.0 |
| 65° | 2594.5 | 2675.3 | 2682.7 | 2792.8 | 2873.6 | 3468.4 | 4479.3 | 4719.1 | 4109.7 | 3370.5 | 2445.2 |
| 67.5° | 1955.7 | 1926.3 | 2024.2 | 2415.9 | 2567.6 | 2504.0 | 2445.2 | 2472.2 | 1757.4 | 1267.9 | 1194.5 |
| 70° | 1152.9 | 1140.6 | 1258.1 | 1684.0 | 2114.8 | 1990.0 | 1843.1 | 1845.6 | 1206.7 | 886.1 | 986.4 |
| 72.5° | 631.5 | 629.1 | 653.5 | 854.2 | 1201.8 | 1248.3 | 1106.4 | 1140.6 | 719.6 | 717.2 | 771.0 |
| 75° | 352.5 | 345.1 | 337.8 | 376.9 | 433.2 | 457.7 | 467.5 | 472.4 | 494.4 | 553.2 | 575.2 |
| 77.5° | 129.7 | 124.8 | 124.8 | 144.4 | 183.6 | 230.1 | 291.3 | 296.2 | 350.0 | 401.4 | 423.4 |
| 80° | 44.1 | 49.0 | 66.1 | 90.6 | 122.4 | 164.0 | 198.3 | 203.2 | 247.2 | 281.5 | 288.8 |
| 82.5° | 26.9 | 29.4 | 44.1 | 63.6 | 88.1 | 115.0 | 146.9 | 149.3 | 183.6 | 205.6 | 215.4 |
| 85° | 12.2 | 14.7 | 24.5 | 39.2 | 56.3 | 75.9 | 78.3 | 78.3 | 75.9 | 78.3 | 73.4 |
| 87.5° | 0.0 | 0.0 | 4.9 | 4.9 | 4.9 | 7.3 | 9.8 | 7.3 | 12.2 | 14.7 | 14.7 |
| 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-SA4B-750-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 | 7401.8 |
| 2.5° | 7335.7 | 7308.8 | 7225.6 | 7152.1 | 7130.1 | 7032.2 | 6887.8 | 6904.9 | 6799.7 | 6848.6 | 6797.2 |
| 5° | 7235.4 | 7144.8 | 6931.8 | 6841.3 | 6603.9 | 6496.2 | 6422.7 | 6239.1 | 6153.5 | 6136.3 | 6062.9 |
| 7.5° | 6978.3 | 6922.0 | 6655.3 | 6410.5 | 6158.4 | 5943.0 | 5666.4 | 5477.9 | 5343.3 | 5306.6 | 5198.9 |
| 10° | 6775.2 | 6650.4 | 6280.8 | 5908.7 | 5548.9 | 5174.4 | 4814.6 | 4533.1 | 4396.0 | 4236.9 | 4183.1 |
| 12.5° | 6574.5 | 6386.0 | 5886.7 | 5409.4 | 4944.3 | 4471.9 | 4036.2 | 3693.6 | 3394.9 | 3324.0 | 3299.5 |
| 15° | 6449.6 | 6121.7 | 5534.2 | 4959.0 | 4298.1 | 3681.3 | 3245.6 | 3020.4 | 2836.9 | 2761.0 | 2814.8 |
| 17.5° | 6285.7 | 5903.8 | 5196.4 | 4430.3 | 3703.3 | 3135.5 | 2770.8 | 2631.3 | 2565.2 | 2572.5 | 2550.5 |
| 20° | 6080.0 | 5698.2 | 4753.4 | 3950.6 | 3172.2 | 2719.4 | 2511.3 | 2459.9 | 2469.7 | 2486.8 | 2479.5 |
| 22.5° | 5933.2 | 5448.5 | 4432.8 | 3461.0 | 2741.4 | 2489.3 | 2403.6 | 2366.9 | 2398.7 | 2413.4 | 2401.2 |
| 25° | 5820.6 | 5235.6 | 4043.6 | 3027.8 | 2491.7 | 2359.6 | 2320.4 | 2318.0 | 2366.9 | 2386.5 | 2374.3 |
| 27.5° | 5717.8 | 5037.3 | 3656.8 | 2697.3 | 2325.3 | 2259.2 | 2247.0 | 2276.3 | 2308.2 | 2327.7 | 2344.9 |
| 30° | 5656.6 | 4885.6 | 3294.6 | 2420.8 | 2242.1 | 2210.3 | 2188.2 | 2215.2 | 2232.3 | 2251.9 | 2242.1 |
| 32.5° | 5715.3 | 4777.9 | 2944.6 | 2264.1 | 2173.5 | 2141.7 | 2171.1 | 2154.0 | 2183.3 | 2200.5 | 2173.5 |
| 35° | 5898.9 | 4682.4 | 2694.9 | 2180.9 | 2095.2 | 2107.5 | 2112.4 | 2105.0 | 2117.2 | 2102.6 | 2134.4 |
| 37.5° | 6080.0 | 4648.2 | 2464.8 | 2109.9 | 2058.5 | 2058.5 | 2053.6 | 2038.9 | 2063.4 | 2058.5 | 2073.2 |
| 40° | 6310.1 | 4670.2 | 2269.0 | 2034.0 | 2024.2 | 2019.3 | 1999.8 | 1997.3 | 1987.5 | 1990.0 | 1994.9 |
| 42.5° | 6510.8 | 4719.1 | 2156.4 | 1985.1 | 1992.4 | 2002.2 | 1965.5 | 1936.1 | 1948.4 | 1923.9 | 1923.9 |
| 45° | 6723.8 | 4763.2 | 2056.1 | 1950.8 | 1943.5 | 1941.0 | 1911.6 | 1894.5 | 1884.7 | 1887.2 | 1909.2 |
| 47.5° | 7059.1 | 4826.8 | 1980.2 | 1904.3 | 1909.2 | 1872.5 | 1865.1 | 1843.1 | 1852.9 | 1867.6 | 1870.0 |
| 50° | 7296.5 | 4961.5 | 1921.4 | 1850.4 | 1867.6 | 1843.1 | 1799.0 | 1789.3 | 1789.3 | 1813.7 | 1808.8 |
| 52.5° | 7463.0 | 5149.9 | 1865.1 | 1791.7 | 1799.0 | 1779.5 | 1764.8 | 1742.8 | 1728.1 | 1762.3 | 1779.5 |
| 55° | 7972.1 | 5463.2 | 1850.4 | 1742.8 | 1740.3 | 1720.7 | 1693.8 | 1671.8 | 1664.4 | 1669.3 | 1703.6 |
| 57.5° | 7923.2 | 5365.3 | 1803.9 | 1657.1 | 1652.2 | 1625.3 | 1598.3 | 1591.0 | 1588.5 | 1593.4 | 1603.2 |
| 60° | 6432.5 | 3962.8 | 1610.6 | 1559.2 | 1551.8 | 1546.9 | 1520.0 | 1490.6 | 1476.0 | 1490.6 | 1478.4 |
| 62.5° | 4256.5 | 2653.3 | 1419.7 | 1441.7 | 1446.6 | 1434.3 | 1390.3 | 1360.9 | 1365.8 | 1382.9 | 1356.0 |
| 65° | 2090.3 | 1559.2 | 1287.5 | 1346.2 | 1351.1 | 1316.9 | 1275.2 | 1241.0 | 1223.8 | 1238.5 | 1226.3 |
| 67.5° | 1194.5 | 1192.0 | 1179.8 | 1241.0 | 1238.5 | 1204.3 | 1138.2 | 1108.8 | 1079.4 | 1084.3 | 1077.0 |
| 70° | 1013.3 | 1032.9 | 1057.4 | 1094.1 | 1091.7 | 1052.5 | 974.2 | 952.1 | 910.5 | 905.6 | 893.4 |
| 72.5° | 797.9 | 832.2 | 886.1 | 913.0 | 891.0 | 842.0 | 790.6 | 753.9 | 717.2 | 695.1 | 702.5 |
| 75° | 592.3 | 641.3 | 670.7 | 687.8 | 653.5 | 626.6 | 585.0 | 540.9 | 496.9 | 477.3 | 470.0 |
| 77.5° | 430.8 | 445.5 | 472.4 | 484.6 | 462.6 | 435.7 | 411.2 | 367.2 | 325.5 | 298.6 | 291.3 |
| 80° | 301.1 | 310.9 | 330.4 | 330.4 | 330.4 | 318.2 | 286.4 | 242.3 | 215.4 | 190.9 | 186.0 |
| 82.5° | 210.5 | 220.3 | 239.9 | 230.1 | 227.6 | 212.9 | 193.4 | 159.1 | 129.7 | 112.6 | 107.7 |
| 85° | 73.4 | 80.8 | 97.9 | 117.5 | 124.8 | 122.4 | 110.1 | 88.1 | 68.5 | 56.3 | 51.4 |
| 87.5° | 17.1 | 17.1 | 19.6 | 17.1 | 17.1 | 19.6 | 17.1 | 17.1 | 17.1 | 12.2 | 9.8 |
| 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)