

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: P452419

Luminaire Tested: **GALN-SA3B-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12232 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

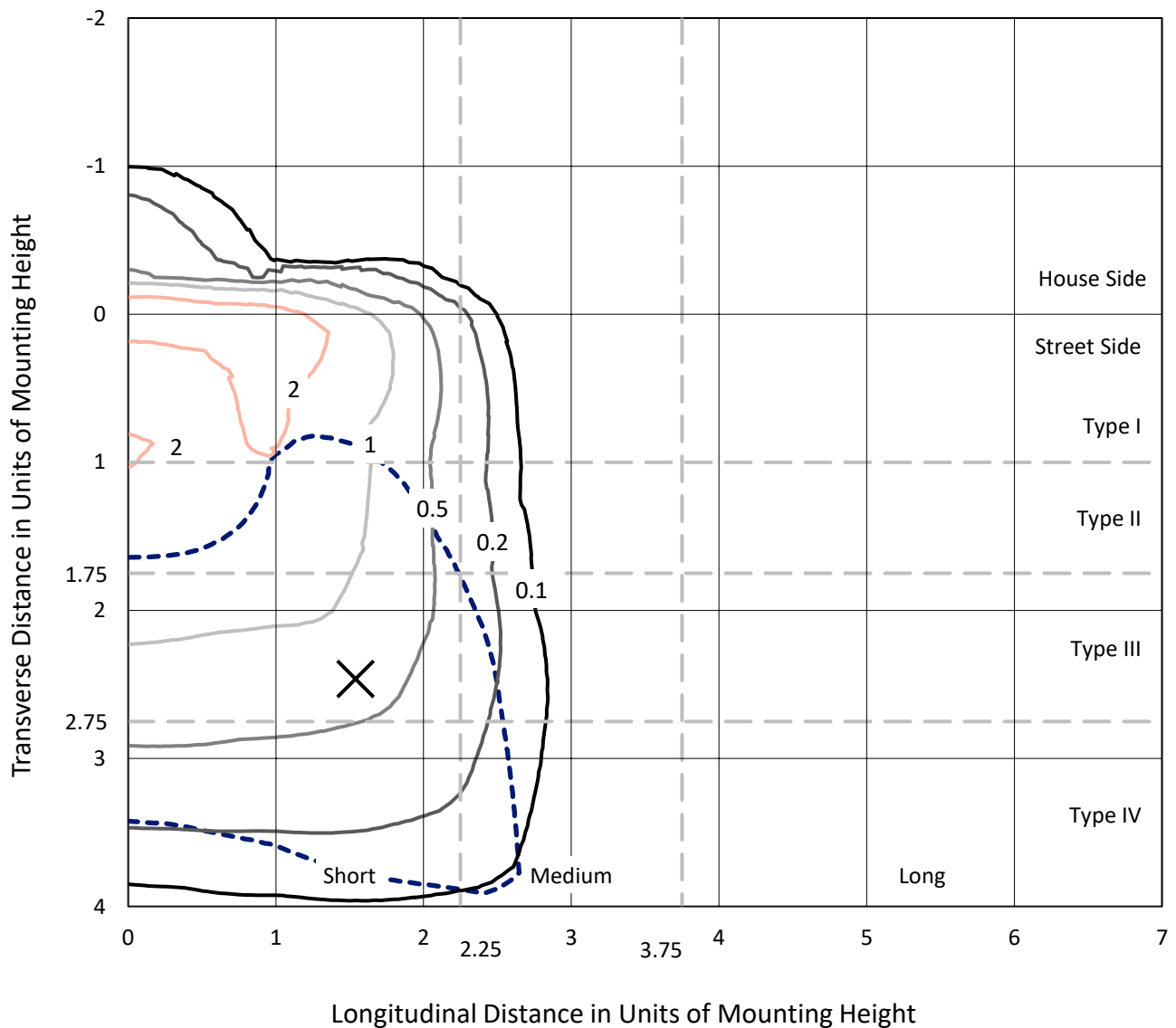
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452419
 CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

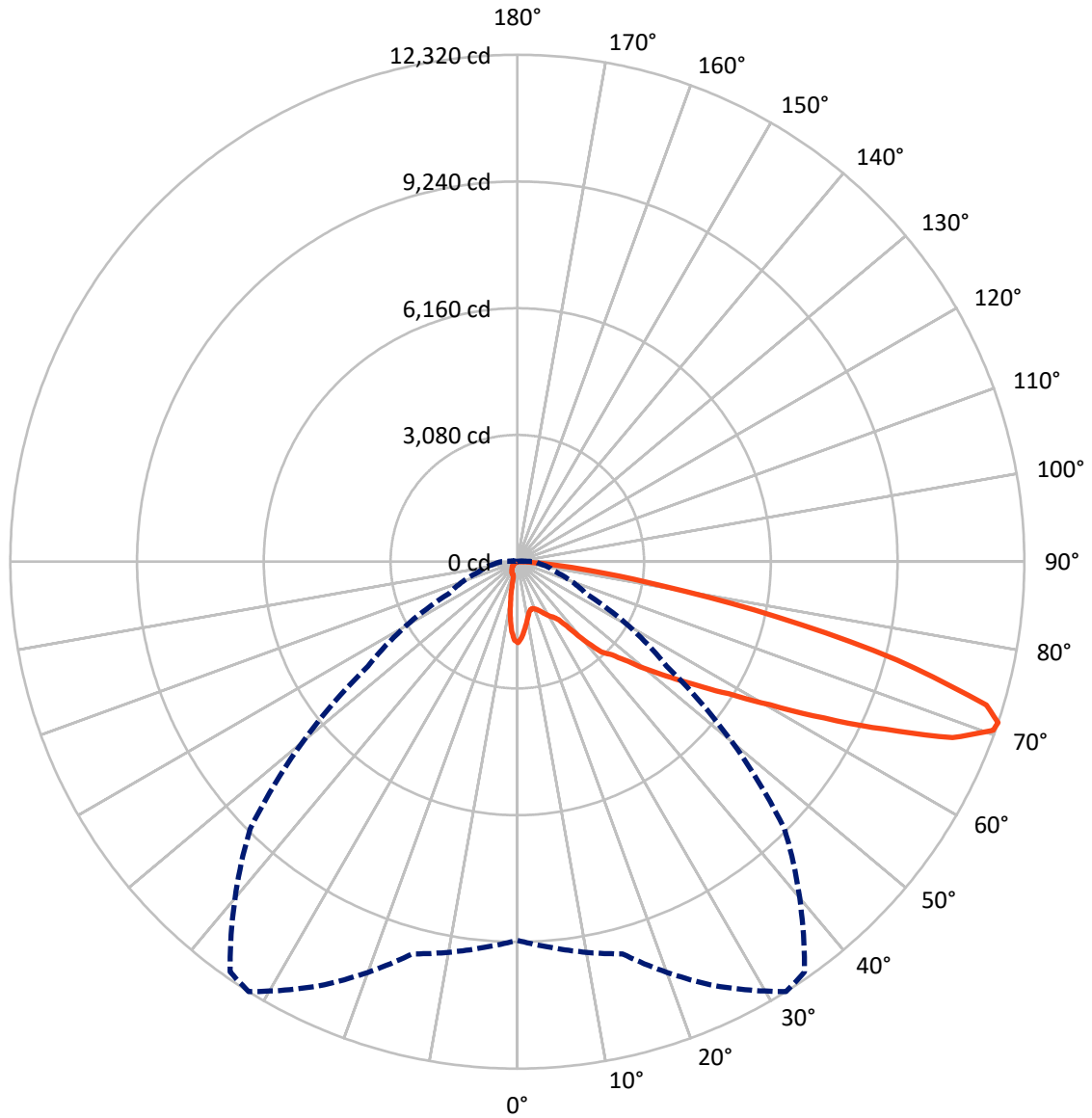
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P452419
CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452419
 CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1024.6 | 0.0 | 1024.6 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 11207.4 | 0.0 | 11207.4 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 12232.0 | 0.0 | 12232.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.0 | 1.3 |
| 10°-20° | 347.1 | 2.8 |
| 20°-30° | 540.0 | 4.4 |
| 30°-40° | 899.7 | 7.4 |
| 40°-50° | 1673.6 | 13.7 |
| 50°-60° | 2687.1 | 22.0 |
| 60°-70° | 3614.3 | 29.5 |
| 70°-80° | 2144.4 | 17.5 |
| 80°-90° | 165.7 | 1.4 |
| 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° | 12232.0 | 100.0 |
| 0°-180° | 12232.0 | 100.0 |



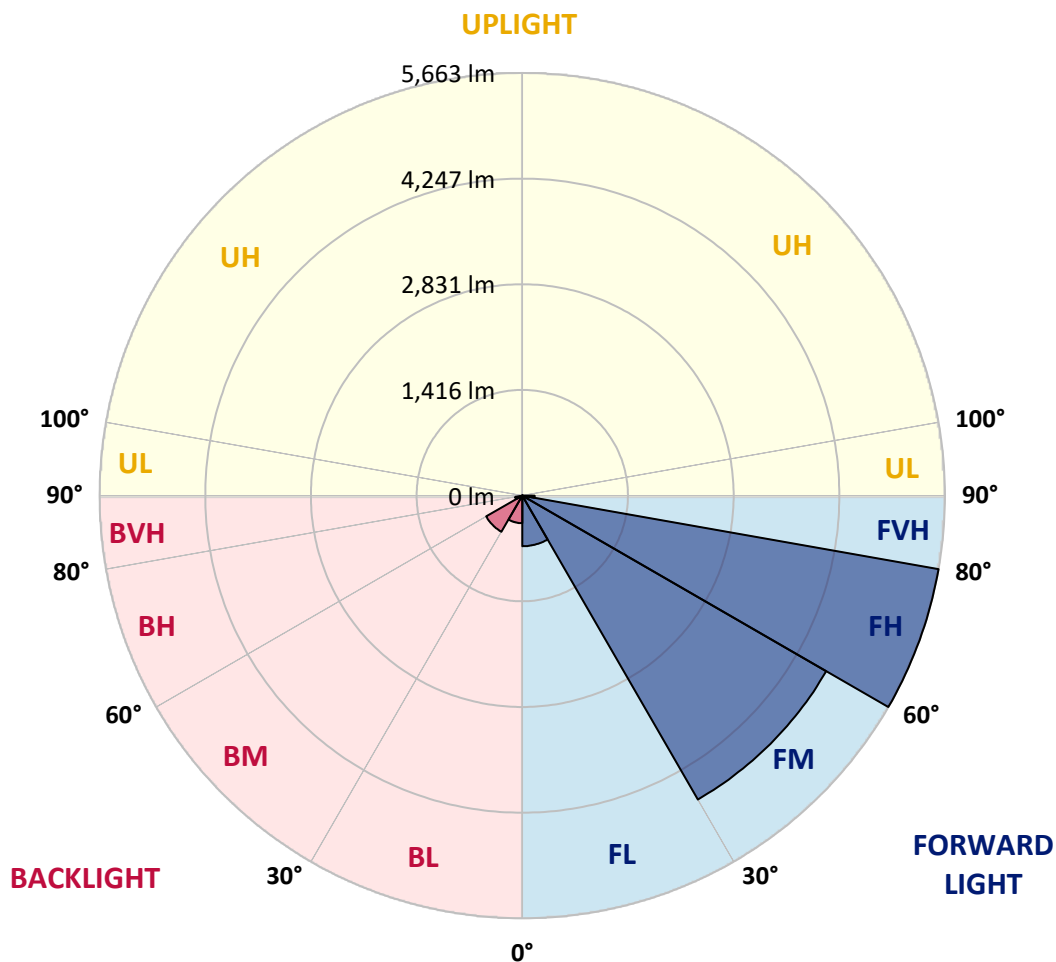
REPORT NUMBER: P452419
 CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 678.0 | 5.5 | | | |
| FM (30°-60°) | 4701.5 | 38.4 | | | |
| FH (60°-80°) | 5662.8 | 46.3 | | | G3/7500 |
| FVH (80°-90°) | 165.1 | 1.3 | | | G2/225 |
| BL (0°-30°) | 369.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 558.9 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 95.8 | 0.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P452419

CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 |
| 2.5° | 1824.4 | 1843.2 | 1840.3 | 1846.9 | 1862.9 | 1869.4 | 1887.3 | 1907.0 | 1934.2 | 1953.0 | 1965.2 |
| 5° | 1633.8 | 1647.9 | 1649.7 | 1682.6 | 1698.6 | 1716.4 | 1769.0 | 1826.3 | 1890.1 | 1940.8 | 1974.6 |
| 7.5° | 1430.0 | 1437.5 | 1452.6 | 1495.7 | 1536.1 | 1554.0 | 1633.8 | 1733.3 | 1833.8 | 1928.6 | 1989.6 |
| 10° | 1261.9 | 1270.4 | 1297.6 | 1343.6 | 1381.2 | 1404.7 | 1515.5 | 1640.3 | 1781.2 | 1922.0 | 2011.2 |
| 12.5° | 1166.2 | 1170.9 | 1181.2 | 1222.5 | 1270.4 | 1295.7 | 1415.0 | 1557.7 | 1738.9 | 1924.8 | 2047.8 |
| 15° | 1159.6 | 1157.7 | 1145.5 | 1162.4 | 1205.6 | 1231.9 | 1348.3 | 1501.4 | 1701.4 | 1934.2 | 2091.0 |
| 17.5° | 1194.3 | 1189.6 | 1160.5 | 1160.5 | 1196.2 | 1217.8 | 1320.2 | 1471.3 | 1682.6 | 1955.8 | 2152.1 |
| 20° | 1247.9 | 1240.4 | 1192.5 | 1188.7 | 1223.4 | 1246.0 | 1337.1 | 1473.2 | 1686.4 | 1996.2 | 2233.8 |
| 22.5° | 1315.5 | 1307.0 | 1234.7 | 1236.6 | 1274.2 | 1296.7 | 1385.9 | 1507.0 | 1709.8 | 2046.0 | 2321.1 |
| 25° | 1403.7 | 1394.3 | 1308.9 | 1305.1 | 1344.6 | 1364.3 | 1458.2 | 1567.1 | 1742.7 | 2107.9 | 2435.6 |
| 27.5° | 1521.1 | 1501.4 | 1399.0 | 1393.4 | 1435.7 | 1461.0 | 1545.5 | 1647.9 | 1800.9 | 2193.4 | 2589.6 |
| 30° | 1617.8 | 1596.2 | 1498.6 | 1483.5 | 1528.6 | 1548.3 | 1635.6 | 1756.8 | 1915.5 | 2342.7 | 2802.8 |
| 32.5° | 1744.6 | 1712.6 | 1598.1 | 1558.7 | 1606.5 | 1631.9 | 1766.2 | 1959.6 | 2085.4 | 2500.4 | 3056.3 |
| 35° | 2030.0 | 2010.3 | 1870.4 | 1732.4 | 1729.5 | 1761.5 | 1958.6 | 2164.3 | 2260.0 | 2746.4 | 3401.8 |
| 37.5° | 2438.4 | 2424.4 | 2276.0 | 2091.0 | 2037.5 | 2022.5 | 2192.4 | 2389.6 | 2538.9 | 3084.4 | 3803.7 |
| 40° | 2912.6 | 2879.8 | 2743.6 | 2586.8 | 2517.3 | 2473.2 | 2468.5 | 2724.8 | 2903.2 | 3543.6 | 4222.5 |
| 42.5° | 3252.5 | 3192.4 | 3027.2 | 3015.9 | 3000.9 | 2954.9 | 2821.5 | 3215.0 | 3373.6 | 4037.5 | 4670.3 |
| 45° | 3609.3 | 3518.2 | 3272.2 | 3230.0 | 3224.3 | 3221.5 | 3354.9 | 3795.2 | 3886.3 | 4572.7 | 5130.4 |
| 47.5° | 3886.3 | 3814.0 | 3612.1 | 3593.4 | 3616.8 | 3680.7 | 4060.0 | 4411.2 | 4392.4 | 5049.7 | 5516.3 |
| 50° | 4255.3 | 4200.9 | 3976.4 | 4012.1 | 4133.3 | 4237.5 | 4855.3 | 5082.5 | 4808.4 | 5425.2 | 5797.1 |
| 52.5° | 4691.0 | 4590.5 | 4382.1 | 4478.8 | 4664.7 | 4838.4 | 5699.4 | 5670.3 | 5100.4 | 5707.9 | 6006.5 |
| 55° | 5068.4 | 4997.1 | 4925.7 | 5026.2 | 5304.1 | 5521.0 | 6461.8 | 6110.7 | 5312.6 | 5935.1 | 6098.5 |
| 57.5° | 5706.9 | 5690.0 | 5616.8 | 5719.1 | 6056.2 | 6281.6 | 7144.5 | 6452.5 | 5448.7 | 6053.4 | 5990.5 |
| 60° | 6651.5 | 6624.3 | 6488.1 | 6618.6 | 7058.1 | 7412.1 | 7773.6 | 6759.5 | 5479.7 | 6007.4 | 5679.7 |
| 62.5° | 7787.6 | 7694.7 | 7578.3 | 7770.7 | 8373.5 | 8529.4 | 8366.0 | 6941.6 | 5364.2 | 5641.2 | 4930.4 |
| 65° | 8848.6 | 8752.9 | 8755.7 | 9161.3 | 9817.6 | 9923.7 | 9057.1 | 6914.4 | 5026.2 | 4723.8 | 3636.5 |
| 67.5° | 9660.8 | 9644.9 | 9759.4 | 10551.0 | 11409.2 | 11335.9 | 9674.9 | 6506.9 | 4024.3 | 3061.9 | 1932.4 |
| 70° | 9702.2 | 9733.1 | 10061.8 | 11397.9 | 12269.2 | 12152.8 | 9622.3 | 5289.1 | 2508.9 | 1408.4 | 761.5 |
| 71° | 9202.6 | 9411.1 | 9865.5 | 11371.6 | 12319.9 | 12168.8 | 9179.2 | 4430.0 | 1840.3 | 982.1 | 549.3 |
| 72.5° | 7842.1 | 7952.0 | 8934.1 | 10702.1 | 11919.0 | 11596.0 | 8055.2 | 3105.1 | 1178.4 | 600.9 | 315.5 |
| 75° | 4319.2 | 4589.6 | 5983.0 | 8396.1 | 9533.1 | 9249.6 | 5249.7 | 1475.1 | 587.8 | 328.6 | 130.5 |
| 77.5° | 2056.3 | 2003.7 | 2919.2 | 4993.3 | 6463.7 | 6448.7 | 2645.0 | 655.4 | 342.7 | 222.5 | 65.7 |
| 80° | 587.8 | 661.0 | 1117.3 | 2373.7 | 3588.7 | 3628.1 | 1015.9 | 316.4 | 237.6 | 173.7 | 33.8 |
| 82.5° | 177.5 | 181.2 | 410.3 | 1049.7 | 1784.9 | 1682.6 | 381.2 | 161.5 | 170.9 | 138.0 | 19.7 |
| 85° | 31.0 | 38.5 | 121.1 | 369.9 | 680.7 | 516.4 | 95.8 | 77.0 | 112.7 | 91.1 | 11.3 |
| 87.5° | 1.9 | 2.8 | 40.4 | 42.3 | 60.1 | 34.7 | 16.9 | 11.3 | 24.4 | 24.4 | 6.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P452419

CATALOG NUMBER: GALN-SA3B-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 | 1967.1 |
| 2.5° | 1973.7 | 1979.3 | 1975.5 | 1967.1 | 1953.0 | 1936.1 | 1913.6 | 1894.8 | 1878.8 | 1870.4 | 1880.7 |
| 5° | 1985.9 | 1993.4 | 1974.6 | 1932.4 | 1868.5 | 1799.0 | 1720.2 | 1659.1 | 1611.2 | 1596.2 | 1590.6 |
| 7.5° | 2004.7 | 2009.3 | 1958.6 | 1864.8 | 1729.5 | 1565.2 | 1421.6 | 1300.4 | 1206.5 | 1178.4 | 1137.1 |
| 10° | 2029.1 | 2026.3 | 1930.5 | 1755.8 | 1518.3 | 1271.3 | 1048.8 | 883.6 | 758.7 | 713.6 | 709.8 |
| 12.5° | 2066.6 | 2051.6 | 1894.8 | 1607.5 | 1266.6 | 943.6 | 668.5 | 523.0 | 444.1 | 417.8 | 412.2 |
| 15° | 2113.6 | 2077.9 | 1838.5 | 1433.8 | 969.9 | 609.4 | 412.2 | 368.1 | 357.7 | 355.9 | 354.0 |
| 17.5° | 2169.0 | 2112.6 | 1764.3 | 1220.6 | 681.7 | 395.3 | 344.6 | 343.7 | 344.6 | 342.7 | 341.8 |
| 20° | 2244.1 | 2149.3 | 1676.0 | 968.1 | 450.7 | 333.3 | 328.6 | 328.6 | 329.6 | 328.6 | 328.6 |
| 22.5° | 2323.9 | 2192.4 | 1567.1 | 739.0 | 339.9 | 316.4 | 315.5 | 317.4 | 319.2 | 318.3 | 318.3 |
| 25° | 2422.5 | 2248.8 | 1423.4 | 506.1 | 304.2 | 302.3 | 303.3 | 307.0 | 310.8 | 311.7 | 310.8 |
| 27.5° | 2565.2 | 2318.3 | 1269.5 | 348.3 | 278.9 | 280.7 | 290.1 | 299.5 | 305.2 | 306.1 | 306.1 |
| 30° | 2725.8 | 2395.3 | 1068.5 | 282.6 | 258.2 | 258.2 | 269.5 | 287.3 | 299.5 | 301.4 | 302.3 |
| 32.5° | 2932.3 | 2484.5 | 846.0 | 254.5 | 238.5 | 236.6 | 246.9 | 268.5 | 291.1 | 297.6 | 297.6 |
| 35° | 3187.7 | 2589.6 | 629.1 | 236.6 | 224.4 | 219.7 | 225.3 | 243.2 | 272.3 | 291.1 | 293.0 |
| 37.5° | 3487.3 | 2689.1 | 460.1 | 220.7 | 211.3 | 204.7 | 208.4 | 222.5 | 246.0 | 274.2 | 281.7 |
| 40° | 3764.2 | 2777.4 | 343.7 | 207.5 | 198.1 | 193.4 | 196.2 | 202.8 | 222.5 | 248.8 | 253.5 |
| 42.5° | 4066.6 | 2846.0 | 273.2 | 193.4 | 185.0 | 183.1 | 183.1 | 185.9 | 199.1 | 214.1 | 215.0 |
| 45° | 4368.0 | 2870.4 | 229.1 | 176.5 | 170.9 | 172.8 | 171.8 | 169.9 | 175.6 | 173.7 | 173.7 |
| 47.5° | 4583.0 | 2841.3 | 189.7 | 160.6 | 160.6 | 163.4 | 158.7 | 152.1 | 149.3 | 138.0 | 139.0 |
| 50° | 4730.4 | 2735.2 | 155.9 | 141.8 | 149.3 | 153.0 | 143.7 | 133.3 | 123.0 | 110.8 | 108.0 |
| 52.5° | 4791.5 | 2546.4 | 127.7 | 117.4 | 132.4 | 137.1 | 125.8 | 113.6 | 97.7 | 87.3 | 84.5 |
| 55° | 4752.0 | 2313.6 | 106.1 | 95.8 | 111.7 | 117.4 | 106.1 | 92.0 | 74.2 | 62.9 | 61.0 |
| 57.5° | 4578.3 | 2035.6 | 90.1 | 76.1 | 89.2 | 93.0 | 85.4 | 70.4 | 52.6 | 41.3 | 41.3 |
| 60° | 4277.8 | 1748.3 | 73.2 | 60.1 | 66.7 | 72.3 | 64.8 | 50.7 | 35.7 | 25.4 | 23.5 |
| 62.5° | 3668.5 | 1419.7 | 59.2 | 46.9 | 46.9 | 51.6 | 45.1 | 36.6 | 22.5 | 13.1 | 12.2 |
| 65° | 2648.8 | 973.7 | 46.9 | 34.7 | 33.8 | 33.8 | 28.2 | 24.4 | 13.1 | 5.6 | 3.8 |
| 67.5° | 1439.4 | 549.3 | 37.6 | 26.3 | 23.5 | 22.5 | 17.8 | 14.1 | 5.6 | 0.9 | 0.0 |
| 70° | 566.2 | 211.3 | 29.1 | 17.8 | 15.0 | 14.1 | 9.4 | 6.6 | 3.8 | 0.0 | 0.0 |
| 71° | 384.0 | 145.5 | 25.4 | 15.0 | 12.2 | 10.3 | 7.5 | 5.6 | 2.8 | 0.0 | 0.0 |
| 72.5° | 219.7 | 90.1 | 19.7 | 11.3 | 9.4 | 7.5 | 5.6 | 3.8 | 2.8 | 0.0 | 0.0 |
| 75° | 95.8 | 46.0 | 12.2 | 8.5 | 6.6 | 4.7 | 3.8 | 2.8 | 0.9 | 0.0 | 0.0 |
| 77.5° | 48.8 | 25.4 | 8.5 | 6.6 | 3.8 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 80° | 27.2 | 13.1 | 5.6 | 3.8 | 2.8 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 15.0 | 7.5 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.4 | 4.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 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)