

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: P528402

Luminaire Tested: **GALN-SA3C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15322 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

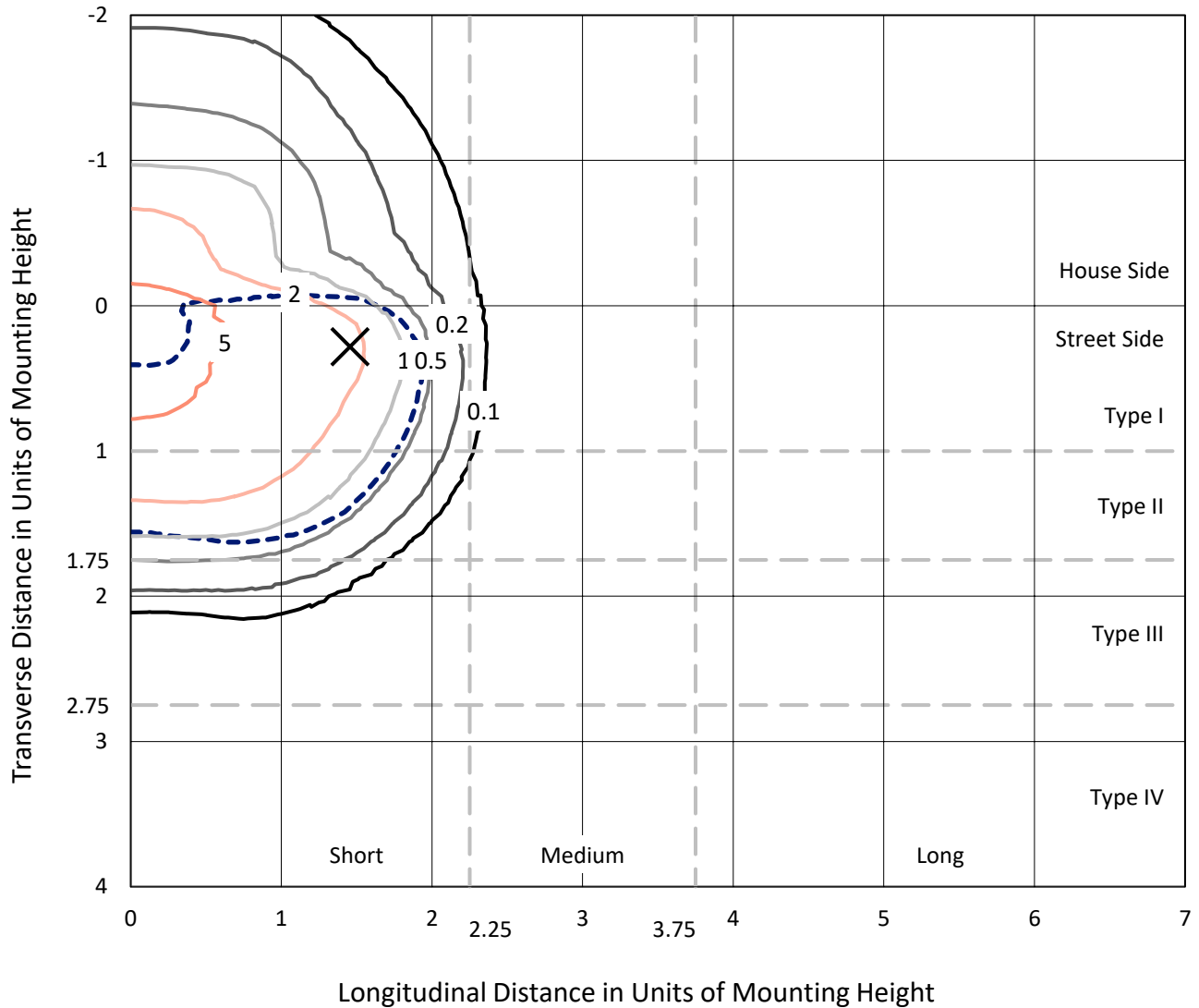
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528402
 CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

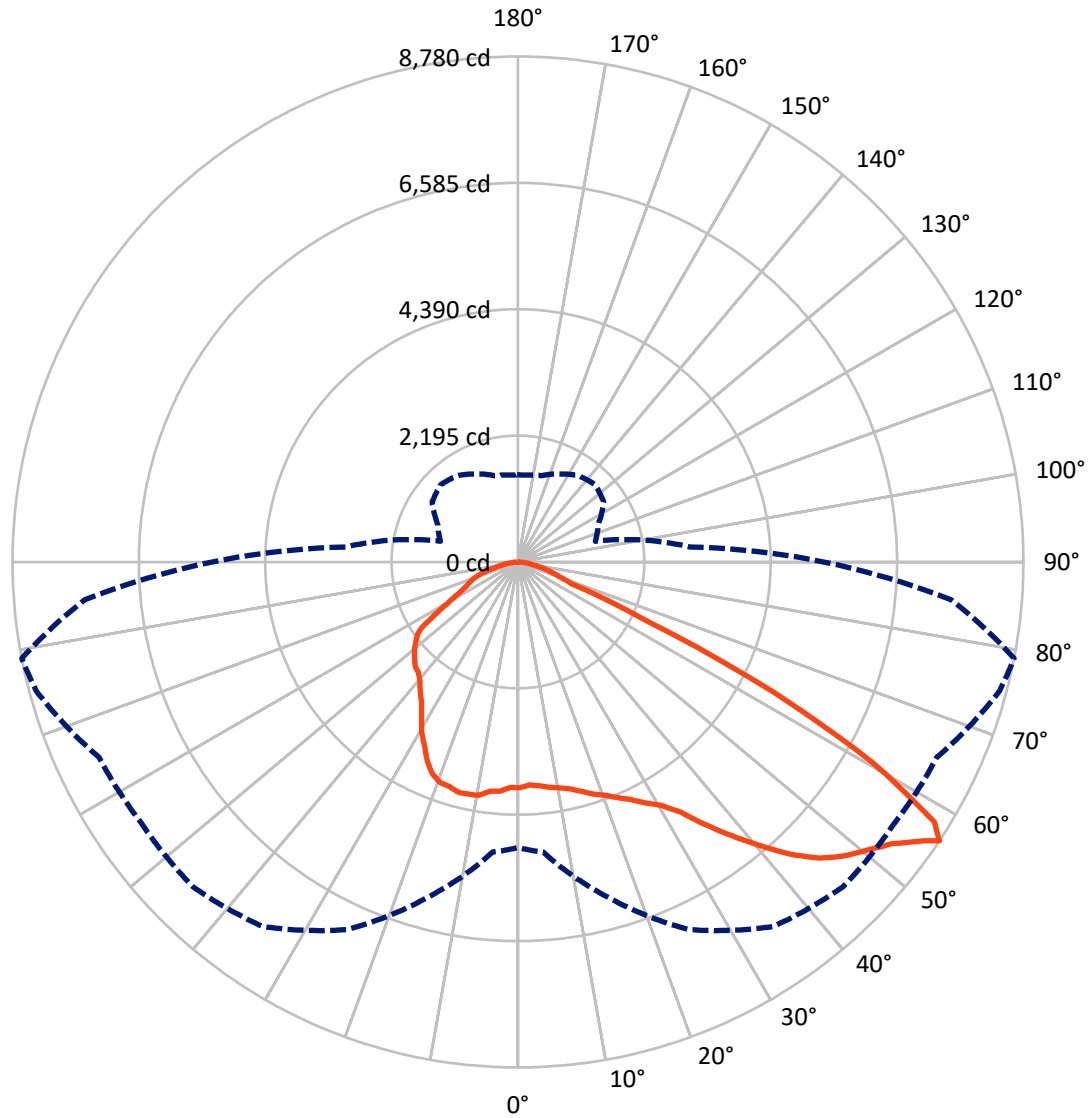
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P528402
CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528402
 CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

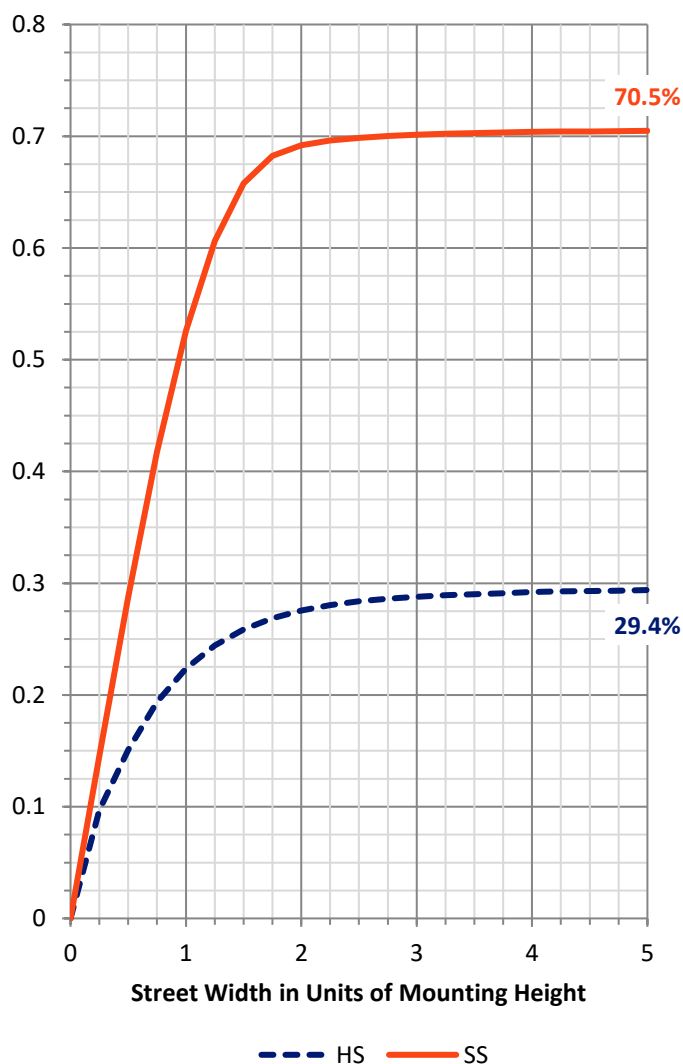
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4524.9 | 0.0 | 4524.9 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 10797.1 | 0.0 | 10797.1 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 15322.0 | 0.0 | 15322.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 356.4 | 2.3 |
| 10°-20° | 975.4 | 6.4 |
| 20°-30° | 1668.8 | 10.9 |
| 30°-40° | 2557.6 | 16.7 |
| 40°-50° | 3456.6 | 22.6 |
| 50°-60° | 3970.1 | 25.9 |
| 60°-70° | 1809.7 | 11.8 |
| 70°-80° | 446.2 | 2.9 |
| 80°-90° | 81.1 | 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° | 15322.0 | 100.0 |
| 0°-180° | 15322.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P528402

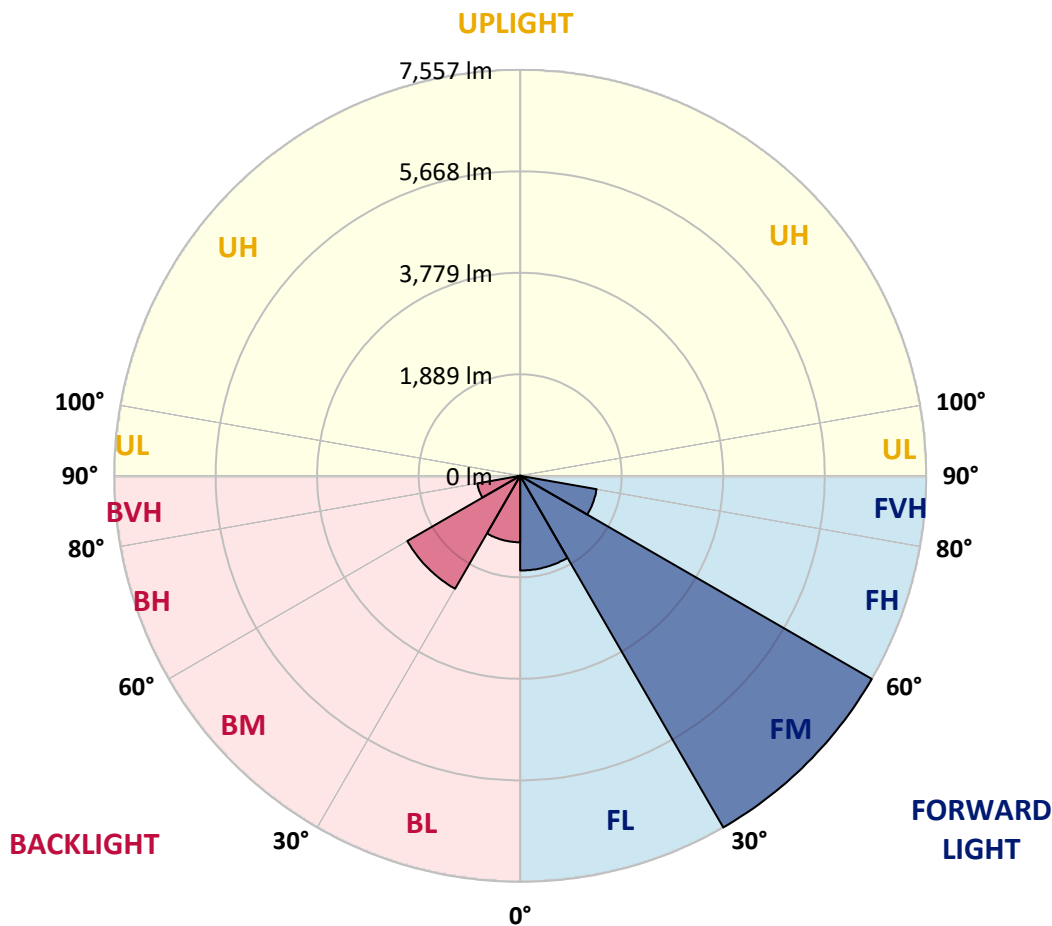
CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1762.9 | 11.5 | | | |
| FM (30°-60°) | 7557.3 | 49.3 | | | |
| FH (60°-80°) | 1444.5 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 32.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1237.8 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 2427.1 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 811.3 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 48.7 | 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-G2

Type II Short





REPORT NUMBER: P528402

CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 |
| 2.5° | 3729.4 | 3719.9 | 3742.8 | 3760.0 | 3781.0 | 3807.7 | 3821.0 | 3828.7 | 3895.5 | 3878.3 | 3929.8 |
| 5° | 3649.3 | 3624.5 | 3641.6 | 3655.0 | 3691.3 | 3723.7 | 3760.0 | 3817.2 | 3878.3 | 3905.0 | 3968.0 |
| 7.5° | 3578.7 | 3565.3 | 3561.5 | 3571.0 | 3620.6 | 3662.6 | 3725.6 | 3809.6 | 3908.8 | 3952.7 | 3989.0 |
| 10° | 3462.2 | 3443.1 | 3471.8 | 3534.8 | 3548.1 | 3635.9 | 3708.4 | 3828.7 | 3914.6 | 3990.9 | 4097.8 |
| 12.5° | 3410.7 | 3391.6 | 3397.3 | 3433.6 | 3527.1 | 3611.1 | 3697.0 | 3832.5 | 4013.8 | 4044.4 | 4187.5 |
| 15° | 3492.8 | 3473.7 | 3479.4 | 3469.9 | 3559.6 | 3603.5 | 3739.0 | 3908.8 | 4082.5 | 4134.1 | 4286.7 |
| 17.5° | 3679.8 | 3681.7 | 3656.9 | 3635.9 | 3614.9 | 3708.4 | 3802.0 | 3954.6 | 4109.2 | 4239.0 | 4353.5 |
| 20° | 4036.7 | 3973.7 | 3924.1 | 3805.8 | 3773.3 | 3813.4 | 3931.7 | 4078.7 | 4218.0 | 4324.9 | 4454.7 |
| 22.5° | 4311.6 | 4317.3 | 4246.7 | 4052.0 | 3981.4 | 3998.5 | 4099.7 | 4219.9 | 4372.6 | 4449.0 | 4597.9 |
| 25° | 4710.5 | 4670.4 | 4594.0 | 4439.4 | 4281.0 | 4294.4 | 4368.8 | 4477.6 | 4519.6 | 4573.0 | 4735.3 |
| 27.5° | 5075.0 | 5086.5 | 4935.7 | 4790.6 | 4594.0 | 4555.9 | 4689.5 | 4708.6 | 4637.9 | 4739.1 | 4794.4 |
| 30° | 5445.3 | 5435.7 | 5336.5 | 5166.6 | 4973.8 | 4981.5 | 5040.6 | 4947.1 | 4849.8 | 4905.1 | 4943.3 |
| 32.5° | 5828.9 | 5720.1 | 5716.3 | 5563.6 | 5416.6 | 5346.0 | 5273.5 | 5319.3 | 5168.5 | 5180.0 | 5143.7 |
| 35° | 6136.2 | 6151.5 | 6063.7 | 5954.9 | 5882.3 | 5758.3 | 5559.8 | 5641.9 | 5613.2 | 5599.9 | 5443.4 |
| 37.5° | 6359.5 | 6300.3 | 6344.2 | 6308.0 | 6239.3 | 6084.7 | 5878.5 | 5956.8 | 5970.1 | 6035.0 | 5853.7 |
| 40° | 6542.7 | 6517.9 | 6634.3 | 6653.4 | 6605.7 | 6271.7 | 5901.4 | 6134.3 | 6334.7 | 6475.9 | 6260.3 |
| 42.5° | 6630.5 | 6684.0 | 6806.1 | 6953.1 | 6846.2 | 6489.3 | 6019.8 | 6269.8 | 6716.4 | 6939.7 | 6645.8 |
| 45° | 6748.9 | 6680.1 | 6861.5 | 7130.6 | 7132.5 | 6672.5 | 6134.3 | 6453.0 | 7014.2 | 7338.6 | 6909.2 |
| 47.5° | 6628.6 | 6663.0 | 6850.0 | 7191.7 | 7279.5 | 6865.3 | 6443.5 | 6712.6 | 7342.4 | 7630.6 | 7153.5 |
| 50° | 6359.5 | 6428.2 | 6769.9 | 7124.9 | 7390.2 | 7069.5 | 6798.5 | 6993.2 | 7645.9 | 7865.4 | 7193.6 |
| 52.5° | 6078.9 | 6117.1 | 6651.5 | 7176.4 | 7439.8 | 7332.9 | 7273.7 | 7380.6 | 8016.2 | 8130.7 | 7243.2 |
| 55° | 5315.5 | 5496.8 | 6260.3 | 7153.5 | 7682.2 | 7808.1 | 7762.3 | 7918.8 | 8436.1 | 8550.6 | 7514.2 |
| 56° | 4962.4 | 5057.8 | 6025.5 | 7046.6 | 7729.9 | 7981.8 | 7958.9 | 8029.5 | 8659.4 | 8779.6 | 7556.2 |
| 57.5° | 4309.7 | 4317.3 | 5138.0 | 6573.3 | 7550.5 | 8033.4 | 8010.5 | 8065.8 | 8615.5 | 8533.4 | 7187.8 |
| 60° | 2696.9 | 2815.2 | 3496.6 | 5055.9 | 6420.6 | 7453.1 | 7582.9 | 7138.2 | 7264.2 | 7090.5 | 5592.2 |
| 62.5° | 1397.1 | 1379.9 | 1832.3 | 2956.4 | 4261.9 | 5336.5 | 5456.7 | 5435.7 | 5241.1 | 4987.2 | 3653.1 |
| 65° | 696.6 | 700.5 | 958.1 | 1463.9 | 2183.5 | 2794.2 | 3130.1 | 3166.4 | 2649.2 | 2437.3 | 1733.0 |
| 67.5° | 505.8 | 524.9 | 689.0 | 895.1 | 1028.7 | 1150.9 | 1410.5 | 1383.7 | 1047.8 | 996.3 | 923.8 |
| 70° | 393.2 | 410.4 | 559.2 | 683.3 | 620.3 | 620.3 | 675.6 | 698.6 | 746.3 | 767.3 | 792.1 |
| 72.5° | 286.3 | 299.7 | 427.5 | 471.4 | 406.5 | 437.1 | 505.8 | 559.2 | 608.8 | 616.5 | 645.1 |
| 75° | 196.6 | 208.0 | 280.6 | 259.6 | 244.3 | 301.6 | 370.3 | 419.9 | 456.2 | 475.2 | 492.4 |
| 77.5° | 127.9 | 131.7 | 160.3 | 135.5 | 156.5 | 194.7 | 240.5 | 282.5 | 318.7 | 334.0 | 337.8 |
| 80° | 57.3 | 63.0 | 68.7 | 85.9 | 108.8 | 139.3 | 171.8 | 206.1 | 229.0 | 234.8 | 246.2 |
| 82.5° | 32.4 | 32.4 | 42.0 | 61.1 | 80.2 | 101.2 | 124.1 | 148.9 | 175.6 | 181.3 | 179.4 |
| 85° | 17.2 | 17.2 | 24.8 | 36.3 | 49.6 | 59.2 | 57.3 | 59.2 | 63.0 | 72.5 | 70.6 |
| 87.5° | 5.7 | 5.7 | 7.6 | 7.6 | 9.5 | 11.5 | 9.5 | 13.4 | 17.2 | 17.2 | 17.2 |
| 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: P528402

CATALOG NUMBER: GALN-SA3C-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 | 3920.3 |
| 2.5° | 3914.6 | 3931.7 | 3908.8 | 3958.5 | 3958.5 | 3948.9 | 3901.2 | 3916.5 | 3927.9 | 3927.9 | 3937.5 |
| 5° | 3989.0 | 3983.3 | 3998.5 | 3939.4 | 3903.1 | 3889.8 | 3811.5 | 3773.3 | 3740.9 | 3739.0 | 3710.3 |
| 7.5° | 4031.0 | 4015.7 | 4010.0 | 3966.1 | 3805.8 | 3708.4 | 3540.5 | 3443.1 | 3422.1 | 3347.7 | 3376.3 |
| 10° | 4097.8 | 4126.4 | 4097.8 | 3859.2 | 3635.9 | 3412.6 | 3248.5 | 3097.7 | 3038.5 | 2990.8 | 2962.2 |
| 12.5° | 4235.2 | 4221.9 | 4055.8 | 3733.2 | 3420.2 | 3154.9 | 2910.6 | 2752.2 | 2693.1 | 2651.1 | 2647.2 |
| 15° | 4351.6 | 4284.8 | 4031.0 | 3534.8 | 3084.3 | 2801.8 | 2601.4 | 2488.8 | 2462.1 | 2465.9 | 2483.1 |
| 17.5° | 4391.7 | 4345.9 | 3901.2 | 3328.6 | 2834.3 | 2502.2 | 2408.7 | 2391.5 | 2416.3 | 2444.9 | 2452.6 |
| 20° | 4454.7 | 4382.2 | 3847.8 | 3048.1 | 2525.1 | 2315.1 | 2309.4 | 2370.5 | 2416.3 | 2458.3 | 2464.0 |
| 22.5° | 4586.4 | 4403.2 | 3674.1 | 2782.8 | 2313.2 | 2259.8 | 2315.1 | 2366.7 | 2437.3 | 2471.7 | 2441.1 |
| 25° | 4624.6 | 4357.4 | 3429.8 | 2464.0 | 2179.6 | 2225.4 | 2284.6 | 2355.2 | 2404.9 | 2423.9 | 2437.3 |
| 27.5° | 4657.0 | 4286.7 | 3099.6 | 2252.2 | 2137.6 | 2223.5 | 2284.6 | 2343.8 | 2370.5 | 2387.7 | 2402.9 |
| 30° | 4748.6 | 4265.8 | 2813.3 | 2110.9 | 2110.9 | 2185.4 | 2263.6 | 2278.9 | 2315.1 | 2336.1 | 2362.9 |
| 32.5° | 4794.4 | 4120.7 | 2519.4 | 2021.2 | 2084.2 | 2204.4 | 2210.2 | 2238.8 | 2240.7 | 2257.9 | 2229.3 |
| 35° | 4914.7 | 4017.6 | 2246.4 | 1956.3 | 2095.7 | 2185.4 | 2214.0 | 2196.8 | 2103.3 | 2057.5 | 2067.0 |
| 37.5° | 5002.5 | 3966.1 | 2049.9 | 1948.7 | 2097.6 | 2206.4 | 2221.6 | 2091.8 | 1994.5 | 1918.2 | 1937.2 |
| 40° | 5239.1 | 3838.2 | 1901.0 | 1935.3 | 2114.7 | 2229.3 | 2187.3 | 2046.0 | 1870.4 | 1792.2 | 1778.8 |
| 42.5° | 5420.5 | 3746.6 | 1807.5 | 1920.1 | 2128.1 | 2261.7 | 2170.1 | 1954.4 | 1775.0 | 1702.5 | 1721.6 |
| 45° | 5630.4 | 3725.6 | 1757.8 | 1923.9 | 2151.0 | 2278.9 | 2149.1 | 1883.8 | 1692.9 | 1664.3 | 1658.6 |
| 47.5° | 5704.8 | 3574.8 | 1704.4 | 1891.4 | 2145.3 | 2273.2 | 2078.5 | 1830.4 | 1662.4 | 1666.2 | 1681.5 |
| 50° | 5580.8 | 3420.2 | 1664.3 | 1824.6 | 2107.1 | 2221.6 | 1967.8 | 1759.7 | 1645.2 | 1692.9 | 1719.7 |
| 52.5° | 5422.4 | 3261.8 | 1582.2 | 1734.9 | 2028.9 | 2141.5 | 1916.2 | 1755.9 | 1628.0 | 1612.8 | 1618.5 |
| 55° | 5470.1 | 3132.0 | 1467.7 | 1612.8 | 1902.9 | 1992.6 | 1859.0 | 1719.7 | 1586.1 | 1528.8 | 1547.9 |
| 56° | 5315.5 | 2998.4 | 1393.3 | 1536.4 | 1817.0 | 1897.2 | 1830.4 | 1687.2 | 1551.7 | 1513.5 | 1513.5 |
| 57.5° | 4878.4 | 2549.9 | 1295.9 | 1414.3 | 1635.7 | 1731.1 | 1775.0 | 1668.1 | 1513.5 | 1446.7 | 1448.6 |
| 60° | 3597.7 | 1813.2 | 1162.3 | 1246.3 | 1355.1 | 1431.5 | 1635.7 | 1614.7 | 1418.1 | 1372.3 | 1355.1 |
| 62.5° | 2217.8 | 1324.6 | 1066.9 | 1099.4 | 1154.7 | 1217.7 | 1427.6 | 1462.0 | 1316.9 | 1267.3 | 1255.9 |
| 65° | 1242.5 | 1013.5 | 994.4 | 1007.7 | 1034.5 | 1066.9 | 1185.2 | 1261.6 | 1162.3 | 1086.0 | 1082.2 |
| 67.5° | 908.5 | 906.6 | 921.9 | 933.3 | 944.8 | 944.8 | 973.4 | 1003.9 | 990.6 | 929.5 | 923.8 |
| 70° | 807.3 | 813.1 | 824.5 | 826.4 | 830.2 | 816.9 | 794.0 | 784.4 | 799.7 | 761.5 | 753.9 |
| 72.5° | 666.1 | 685.2 | 698.6 | 700.5 | 679.5 | 662.3 | 631.8 | 599.3 | 587.9 | 580.2 | 578.3 |
| 75° | 511.5 | 524.9 | 530.6 | 528.7 | 521.1 | 496.2 | 460.0 | 427.5 | 406.5 | 383.6 | 395.1 |
| 77.5° | 345.5 | 364.5 | 374.1 | 374.1 | 362.6 | 324.5 | 307.3 | 282.5 | 261.5 | 236.7 | 240.5 |
| 80° | 242.4 | 255.8 | 271.0 | 269.1 | 250.0 | 230.9 | 206.1 | 183.2 | 166.0 | 147.0 | 145.1 |
| 82.5° | 181.3 | 189.0 | 196.6 | 192.8 | 179.4 | 160.3 | 143.1 | 122.2 | 103.1 | 89.7 | 89.7 |
| 85° | 64.9 | 70.6 | 85.9 | 89.7 | 97.3 | 97.3 | 82.1 | 68.7 | 55.3 | 45.8 | 45.8 |
| 87.5° | 19.1 | 19.1 | 21.0 | 21.0 | 19.1 | 21.0 | 17.2 | 19.1 | 21.0 | 13.4 | 13.4 |
| 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)