

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: P452651

Luminaire Tested: **GALN-SA3C-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452651
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-SA3C-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA 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: 15113 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

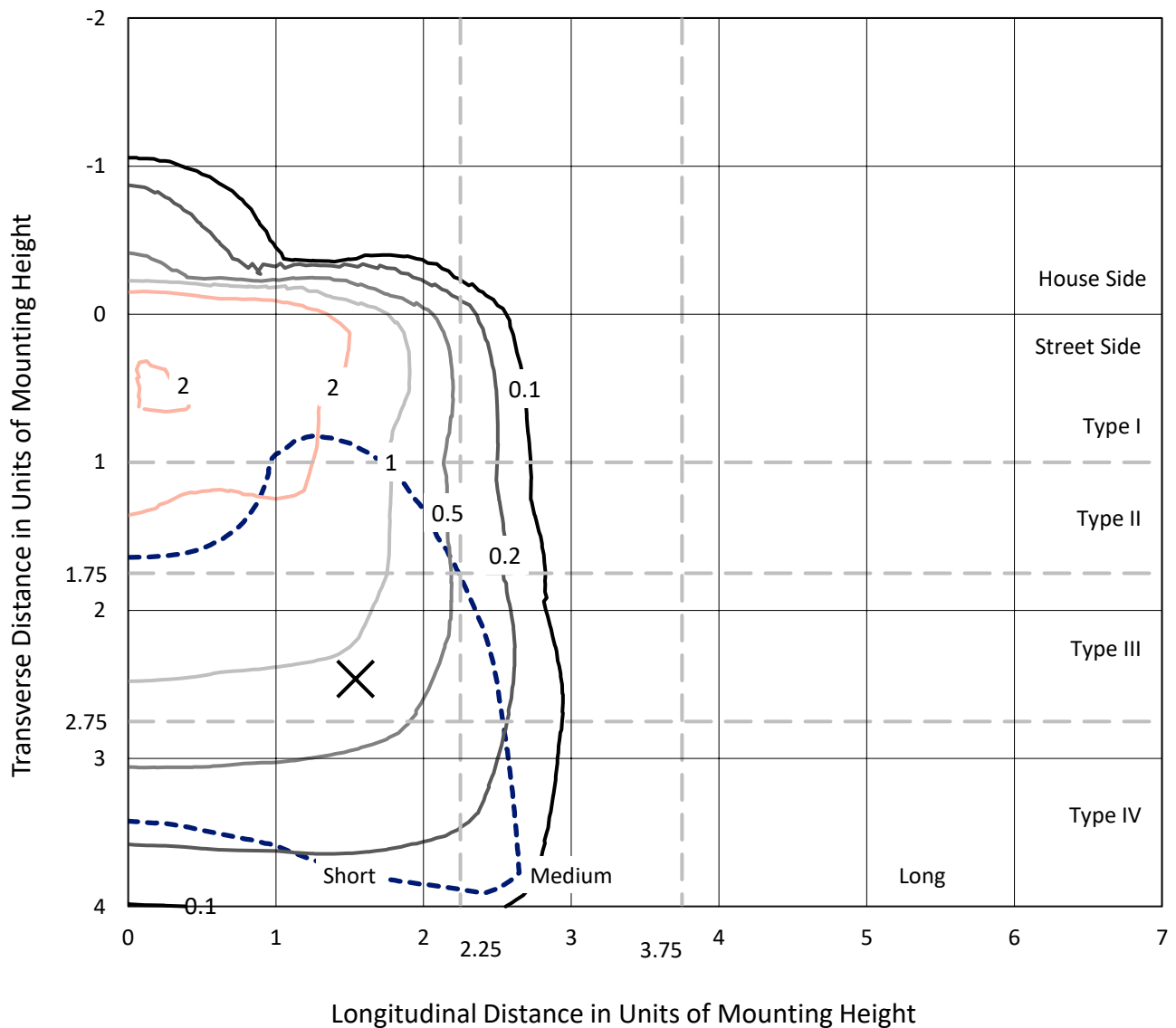
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452651
 CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

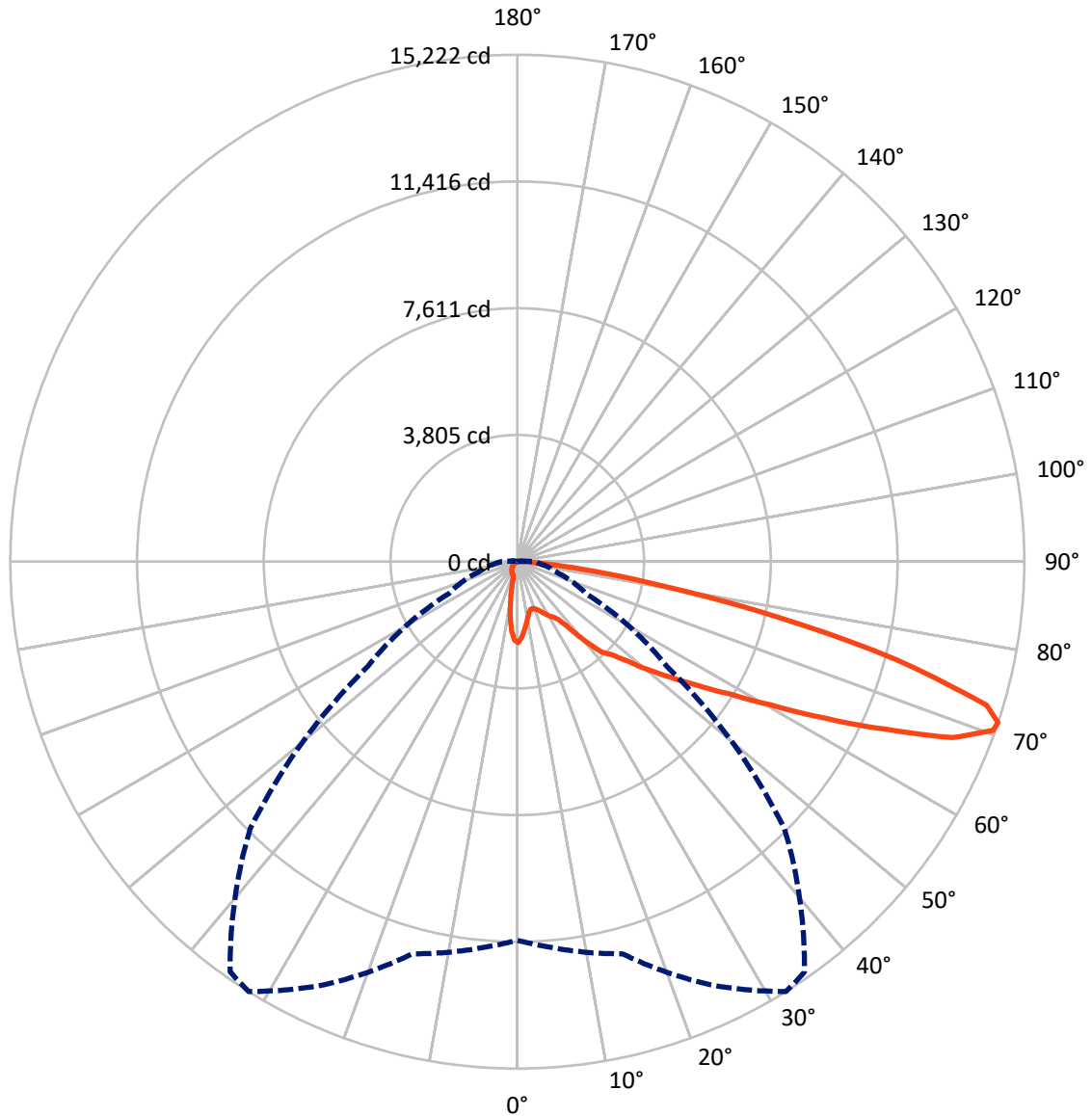
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P452651
CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452651
 CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1265.9 | 0.0 | 1265.9 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 13847.1 | 0.0 | 13847.1 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 15113.0 | 0.0 | 15113.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 197.6 | 1.3 |
| 10°-20° | 428.9 | 2.8 |
| 20°-30° | 667.2 | 4.4 |
| 30°-40° | 1111.6 | 7.4 |
| 40°-50° | 2067.8 | 13.7 |
| 50°-60° | 3320.0 | 22.0 |
| 60°-70° | 4465.5 | 29.5 |
| 70°-80° | 2649.5 | 17.5 |
| 80°-90° | 204.8 | 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° | 15113.0 | 100.0 |
| 0°-180° | 15113.0 | 100.0 |



REPORT NUMBER: P452651

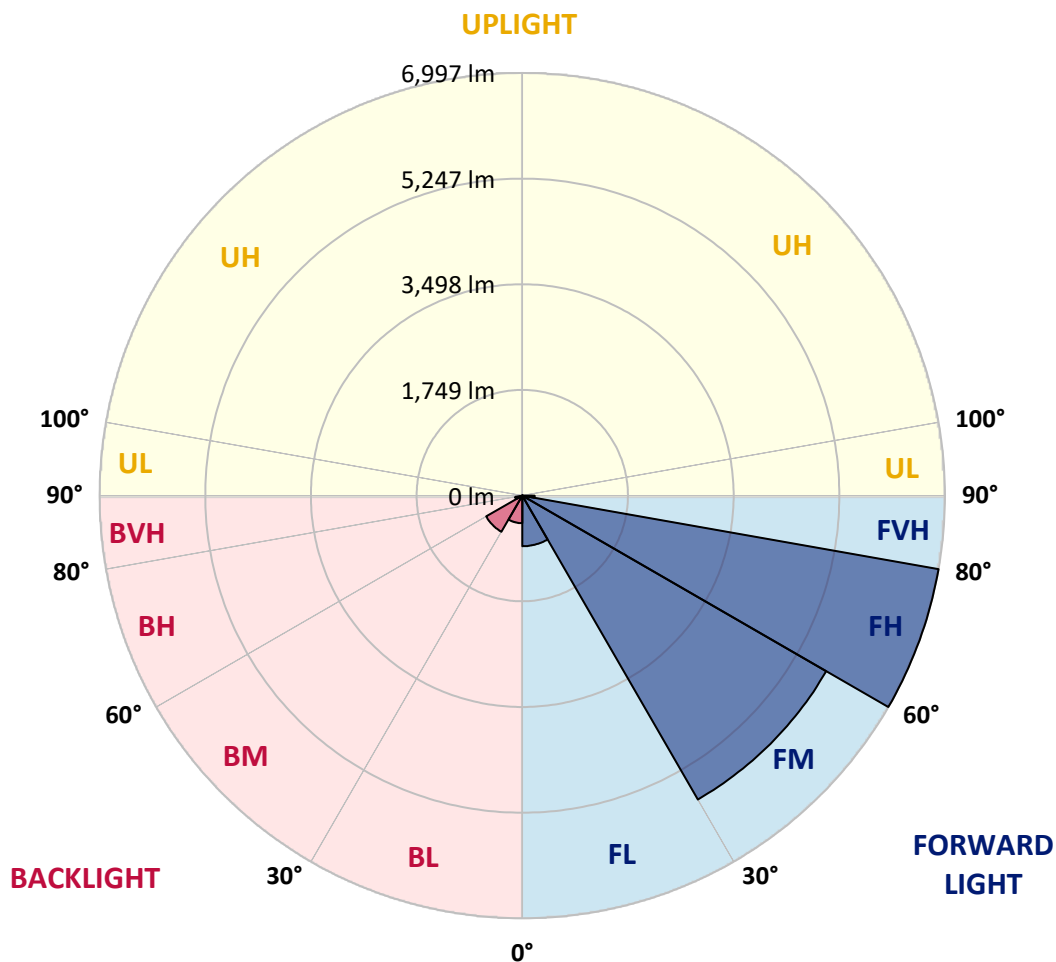
CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 837.7 | 5.5 | | | |
| FM | (30°-60°) | 5808.9 | 38.4 | | | |
| FH | (60°-80°) | 6996.6 | 46.3 | | | G3/7500 |
| FVH | (80°-90°) | 204.0 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 456.1 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 690.6 | 4.6 | B1/1000 | | |
| BH | (60°-80°) | 118.4 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P452651

CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 |
| 2.5° | 2254.1 | 2277.3 | 2273.8 | 2281.9 | 2301.6 | 2309.8 | 2331.8 | 2356.2 | 2389.8 | 2413.0 | 2428.1 |
| 5° | 2018.6 | 2036.0 | 2038.3 | 2078.9 | 2098.6 | 2120.7 | 2185.6 | 2256.4 | 2335.3 | 2397.9 | 2439.7 |
| 7.5° | 1766.8 | 1776.1 | 1794.7 | 1848.0 | 1897.9 | 1920.0 | 2018.6 | 2141.5 | 2265.7 | 2382.8 | 2458.2 |
| 10° | 1559.2 | 1569.6 | 1603.3 | 1660.1 | 1706.5 | 1735.5 | 1872.4 | 2026.7 | 2200.7 | 2374.7 | 2484.9 |
| 12.5° | 1440.8 | 1446.6 | 1459.4 | 1510.4 | 1569.6 | 1600.9 | 1748.3 | 1924.6 | 2148.5 | 2378.2 | 2530.2 |
| 15° | 1432.7 | 1430.4 | 1415.3 | 1436.2 | 1489.6 | 1522.0 | 1665.9 | 1855.0 | 2102.1 | 2389.8 | 2583.5 |
| 17.5° | 1475.6 | 1469.8 | 1433.9 | 1433.9 | 1478.0 | 1504.6 | 1631.1 | 1817.9 | 2078.9 | 2416.5 | 2658.9 |
| 20° | 1541.8 | 1532.5 | 1473.3 | 1468.7 | 1511.6 | 1539.5 | 1652.0 | 1820.2 | 2083.5 | 2466.4 | 2759.9 |
| 22.5° | 1625.3 | 1614.9 | 1525.5 | 1527.8 | 1574.3 | 1602.1 | 1712.3 | 1862.0 | 2112.5 | 2527.9 | 2867.8 |
| 25° | 1734.3 | 1722.7 | 1617.2 | 1612.5 | 1661.3 | 1685.6 | 1801.6 | 1936.2 | 2153.1 | 2604.4 | 3009.3 |
| 27.5° | 1879.4 | 1855.0 | 1728.5 | 1721.6 | 1773.8 | 1805.1 | 1909.5 | 2036.0 | 2225.1 | 2710.0 | 3199.6 |
| 30° | 1998.8 | 1972.2 | 1851.5 | 1833.0 | 1888.6 | 1913.0 | 2020.9 | 2170.5 | 2366.6 | 2894.4 | 3462.9 |
| 32.5° | 2155.5 | 2116.0 | 1974.5 | 1925.8 | 1984.9 | 2016.3 | 2182.1 | 2421.1 | 2576.6 | 3089.3 | 3776.1 |
| 35° | 2508.1 | 2483.8 | 2310.9 | 2140.4 | 2136.9 | 2176.3 | 2420.0 | 2674.0 | 2792.4 | 3393.3 | 4203.0 |
| 37.5° | 3012.8 | 2995.4 | 2812.1 | 2583.5 | 2517.4 | 2498.9 | 2708.8 | 2952.5 | 3136.9 | 3810.9 | 4699.6 |
| 40° | 3598.6 | 3558.0 | 3389.8 | 3196.1 | 3110.2 | 3055.7 | 3049.9 | 3366.6 | 3587.0 | 4378.2 | 5217.0 |
| 42.5° | 4018.6 | 3944.3 | 3740.2 | 3726.2 | 3707.7 | 3650.8 | 3486.1 | 3972.2 | 4168.2 | 4988.4 | 5770.3 |
| 45° | 4459.4 | 4346.9 | 4042.9 | 3990.7 | 3983.8 | 3980.3 | 4145.0 | 4689.1 | 4801.6 | 5649.7 | 6338.8 |
| 47.5° | 4801.6 | 4712.3 | 4462.9 | 4439.7 | 4468.7 | 4547.6 | 5016.3 | 5450.1 | 5426.9 | 6239.0 | 6815.6 |
| 50° | 5257.6 | 5190.3 | 4913.0 | 4957.1 | 5106.8 | 5235.5 | 5998.9 | 6279.6 | 5940.9 | 6703.0 | 7162.4 |
| 52.5° | 5795.9 | 5671.7 | 5414.2 | 5533.7 | 5763.4 | 5978.0 | 7041.8 | 7005.8 | 6301.7 | 7052.2 | 7421.2 |
| 55° | 6262.2 | 6174.0 | 6085.9 | 6210.0 | 6553.4 | 6821.4 | 7983.8 | 7549.9 | 6563.8 | 7333.0 | 7534.8 |
| 57.5° | 7051.1 | 7030.2 | 6939.7 | 7066.2 | 7482.6 | 7761.1 | 8827.2 | 7972.2 | 6732.1 | 7479.2 | 7401.4 |
| 60° | 8218.1 | 8184.5 | 8016.3 | 8177.5 | 8720.5 | 9157.8 | 9604.5 | 8351.5 | 6770.3 | 7422.3 | 7017.4 |
| 62.5° | 9621.9 | 9507.0 | 9363.2 | 9601.0 | 10345.8 | 10538.3 | 10336.5 | 8576.6 | 6627.6 | 6969.9 | 6091.7 |
| 65° | 10932.8 | 10814.4 | 10817.9 | 11319.1 | 12130.0 | 12261.1 | 11190.3 | 8543.0 | 6210.0 | 5836.5 | 4493.1 |
| 67.5° | 11936.3 | 11916.5 | 12058.1 | 13036.0 | 14096.4 | 14005.9 | 11953.7 | 8039.5 | 4972.2 | 3783.1 | 2387.5 |
| 70° | 11987.3 | 12025.6 | 12431.6 | 14082.4 | 15159.0 | 15015.2 | 11888.7 | 6534.8 | 3099.8 | 1740.1 | 940.8 |
| 71° | 11370.1 | 11627.7 | 12189.2 | 14050.0 | 15221.7 | 15034.9 | 11341.1 | 5473.3 | 2273.8 | 1213.5 | 678.7 |
| 72.5° | 9689.1 | 9824.9 | 11038.3 | 13222.8 | 14726.3 | 14327.2 | 9952.5 | 3836.4 | 1455.9 | 742.5 | 389.8 |
| 75° | 5336.5 | 5670.6 | 7392.1 | 10373.6 | 11778.5 | 11428.1 | 6486.1 | 1822.5 | 726.2 | 406.0 | 161.3 |
| 77.5° | 2540.6 | 2475.7 | 3606.7 | 6169.4 | 7986.1 | 7967.6 | 3268.0 | 809.7 | 423.4 | 274.9 | 81.2 |
| 80° | 726.2 | 816.7 | 1380.5 | 2932.7 | 4433.9 | 4482.6 | 1255.2 | 391.0 | 293.5 | 214.6 | 41.8 |
| 82.5° | 219.3 | 223.9 | 507.0 | 1297.0 | 2205.3 | 2078.9 | 471.0 | 199.5 | 211.1 | 170.5 | 24.4 |
| 85° | 38.3 | 47.6 | 149.7 | 457.1 | 841.1 | 638.1 | 118.3 | 95.1 | 139.2 | 112.5 | 13.9 |
| 87.5° | 2.3 | 3.5 | 49.9 | 52.2 | 74.2 | 42.9 | 20.9 | 13.9 | 30.2 | 30.2 | 8.1 |
| 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: P452651

CATALOG NUMBER: GALN-SA3C-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 | 2430.4 |
| 2.5° | 2438.5 | 2445.5 | 2440.8 | 2430.4 | 2413.0 | 2392.1 | 2364.3 | 2341.1 | 2321.4 | 2310.9 | 2323.7 |
| 5° | 2453.6 | 2462.9 | 2439.7 | 2387.5 | 2308.6 | 2222.7 | 2125.3 | 2049.9 | 1990.7 | 1972.2 | 1965.2 |
| 7.5° | 2476.8 | 2482.6 | 2420.0 | 2304.0 | 2136.9 | 1933.9 | 1756.4 | 1606.7 | 1490.7 | 1455.9 | 1404.9 |
| 10° | 2507.0 | 2503.5 | 2385.2 | 2169.4 | 1875.9 | 1570.8 | 1295.8 | 1091.7 | 937.4 | 881.7 | 877.0 |
| 12.5° | 2553.4 | 2534.8 | 2341.1 | 1986.1 | 1565.0 | 1165.9 | 826.0 | 646.2 | 548.7 | 516.2 | 509.3 |
| 15° | 2611.4 | 2567.3 | 2271.5 | 1771.5 | 1198.4 | 752.9 | 509.3 | 454.8 | 442.0 | 439.7 | 437.4 |
| 17.5° | 2679.8 | 2610.2 | 2179.8 | 1508.1 | 842.2 | 488.4 | 425.8 | 424.6 | 425.8 | 423.4 | 422.3 |
| 20° | 2772.6 | 2655.5 | 2070.8 | 1196.1 | 556.8 | 411.8 | 406.0 | 406.0 | 407.2 | 406.0 | 406.0 |
| 22.5° | 2871.2 | 2708.8 | 1936.2 | 913.0 | 420.0 | 391.0 | 389.8 | 392.1 | 394.4 | 393.3 | 393.3 |
| 25° | 2993.1 | 2778.4 | 1758.7 | 625.3 | 375.9 | 373.6 | 374.7 | 379.4 | 384.0 | 385.2 | 384.0 |
| 27.5° | 3169.4 | 2864.3 | 1568.5 | 430.4 | 344.5 | 346.9 | 358.5 | 370.1 | 377.0 | 378.2 | 378.2 |
| 30° | 3367.8 | 2959.4 | 1320.2 | 349.2 | 319.0 | 319.0 | 332.9 | 355.0 | 370.1 | 372.4 | 373.6 |
| 32.5° | 3623.0 | 3069.6 | 1045.2 | 314.4 | 294.7 | 292.3 | 305.1 | 331.8 | 359.6 | 367.8 | 367.8 |
| 35° | 3938.5 | 3199.6 | 777.3 | 292.3 | 277.3 | 271.5 | 278.4 | 300.5 | 336.4 | 359.6 | 362.0 |
| 37.5° | 4308.6 | 3322.5 | 568.4 | 272.6 | 261.0 | 252.9 | 257.5 | 274.9 | 303.9 | 338.7 | 348.0 |
| 40° | 4650.8 | 3431.6 | 424.6 | 256.4 | 244.8 | 239.0 | 242.5 | 250.6 | 274.9 | 307.4 | 313.2 |
| 42.5° | 5024.4 | 3516.3 | 337.6 | 239.0 | 228.5 | 226.2 | 226.2 | 229.7 | 245.9 | 264.5 | 265.7 |
| 45° | 5396.8 | 3546.4 | 283.1 | 218.1 | 211.1 | 213.5 | 212.3 | 210.0 | 216.9 | 214.6 | 214.6 |
| 47.5° | 5662.4 | 3510.5 | 234.3 | 198.4 | 198.4 | 201.9 | 196.1 | 187.9 | 184.5 | 170.5 | 171.7 |
| 50° | 5844.6 | 3379.4 | 192.6 | 175.2 | 184.5 | 189.1 | 177.5 | 164.7 | 152.0 | 136.9 | 133.4 |
| 52.5° | 5920.0 | 3146.2 | 157.8 | 145.0 | 163.6 | 169.4 | 155.5 | 140.4 | 120.7 | 107.9 | 104.4 |
| 55° | 5871.3 | 2858.5 | 131.1 | 118.3 | 138.1 | 145.0 | 131.1 | 113.7 | 91.6 | 77.7 | 75.4 |
| 57.5° | 5656.6 | 2515.1 | 111.4 | 94.0 | 110.2 | 114.8 | 105.6 | 87.0 | 65.0 | 51.0 | 51.0 |
| 60° | 5285.4 | 2160.1 | 90.5 | 74.2 | 82.4 | 89.3 | 80.0 | 62.6 | 44.1 | 31.3 | 29.0 |
| 62.5° | 4532.5 | 1754.1 | 73.1 | 58.0 | 58.0 | 63.8 | 55.7 | 45.2 | 27.8 | 16.2 | 15.1 |
| 65° | 3272.6 | 1203.0 | 58.0 | 42.9 | 41.8 | 41.8 | 34.8 | 30.2 | 16.2 | 7.0 | 4.6 |
| 67.5° | 1778.4 | 678.7 | 46.4 | 32.5 | 29.0 | 27.8 | 22.0 | 17.4 | 7.0 | 1.2 | 0.0 |
| 70° | 699.5 | 261.0 | 36.0 | 22.0 | 18.6 | 17.4 | 11.6 | 8.1 | 4.6 | 0.0 | 0.0 |
| 71° | 474.5 | 179.8 | 31.3 | 18.6 | 15.1 | 12.8 | 9.3 | 7.0 | 3.5 | 0.0 | 0.0 |
| 72.5° | 271.5 | 111.4 | 24.4 | 13.9 | 11.6 | 9.3 | 7.0 | 4.6 | 3.5 | 0.0 | 0.0 |
| 75° | 118.3 | 56.8 | 15.1 | 10.4 | 8.1 | 5.8 | 4.6 | 3.5 | 1.2 | 0.0 | 0.0 |
| 77.5° | 60.3 | 31.3 | 10.4 | 8.1 | 4.6 | 3.5 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 |
| 80° | 33.6 | 16.2 | 7.0 | 4.6 | 3.5 | 2.3 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 18.6 | 9.3 | 3.5 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 11.6 | 5.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 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)