

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: P455675

Luminaire Tested: **GALN-SA6D-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34053 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

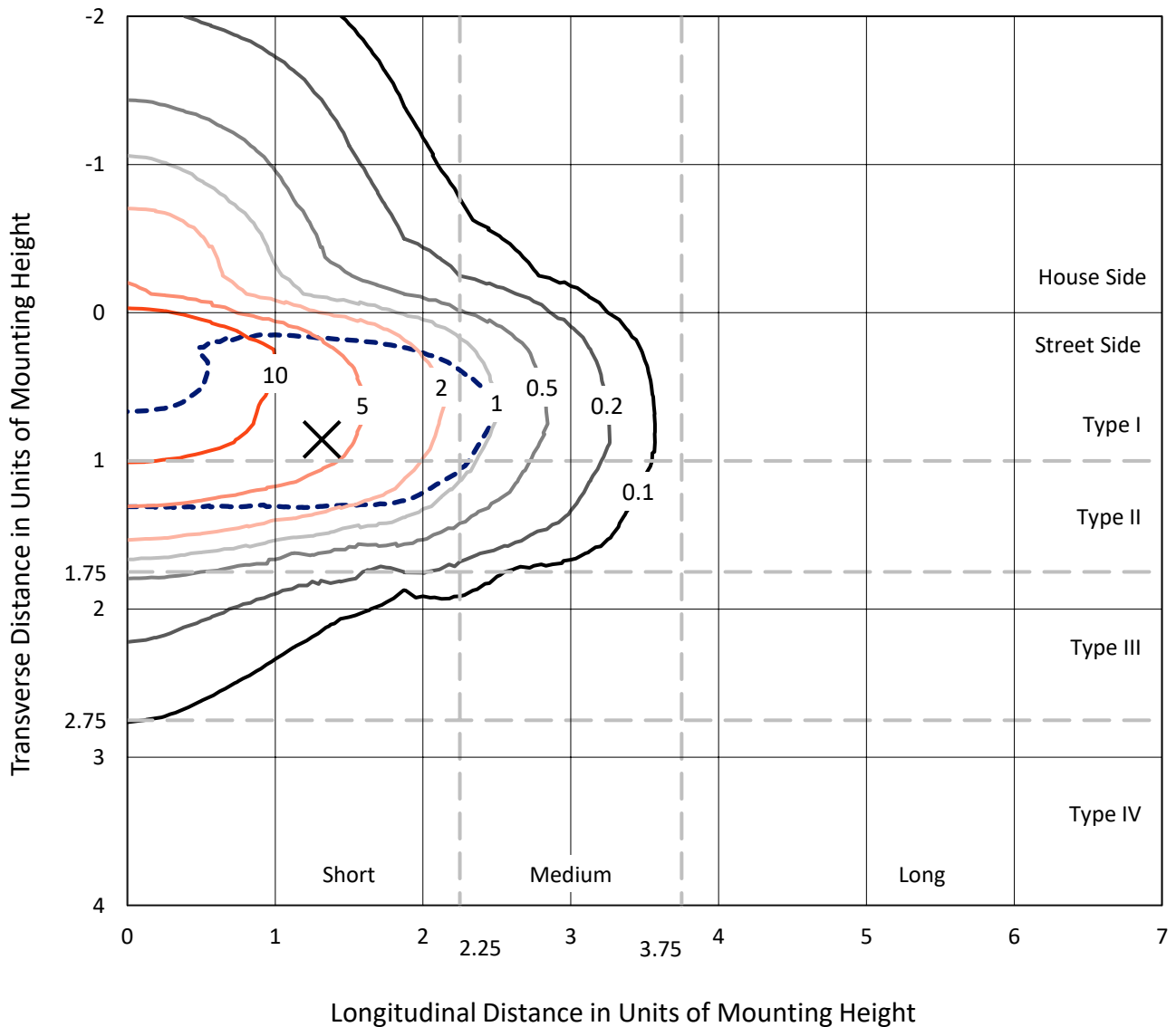
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455675
 CATALOG NUMBER: GALN-SA6D-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

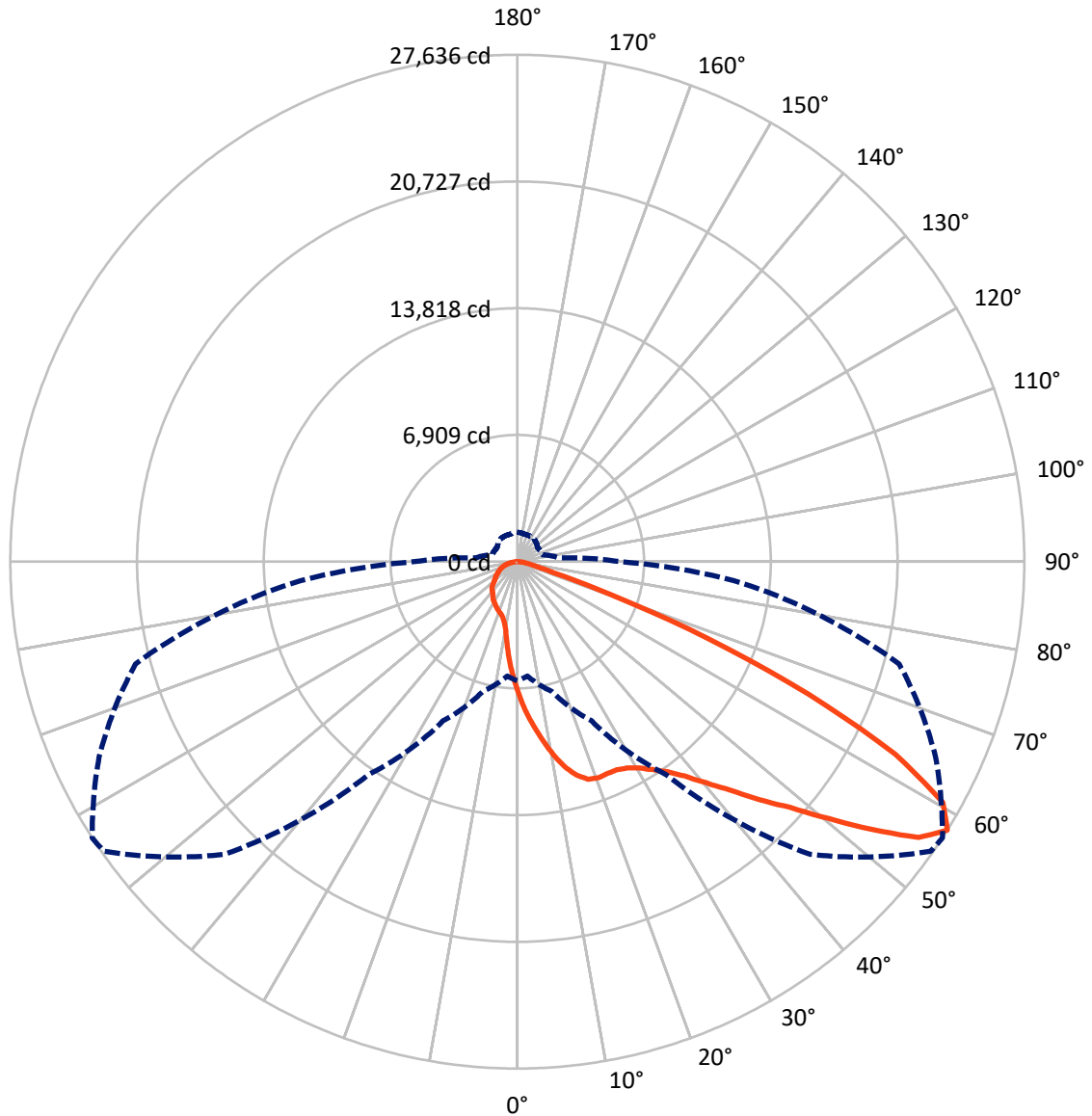
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

REPORT NUMBER: P455675
CATALOG NUMBER: GALN-SA6D-827-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P455675

CATALOG NUMBER: GALN-SA6D-827-U-AFL

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5178.5 | 0.0 | 5178.5 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 28874.5 | 0.0 | 28874.5 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 34053.0 | 0.0 | 34053.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 687.6 | 2.0 |
| 10°-20° | 2026.4 | 6.0 |
| 20°-30° | 3364.8 | 9.9 |
| 30°-40° | 5068.3 | 14.9 |
| 40°-50° | 7609.6 | 22.3 |
| 50°-60° | 8529.5 | 25.0 |
| 60°-70° | 4991.8 | 14.7 |
| 70°-80° | 1476.6 | 4.3 |
| 80°-90° | 298.4 | 0.9 |
| 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° | 34053.0 | 100.0 |
| 0°-180° | 34053.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P455675

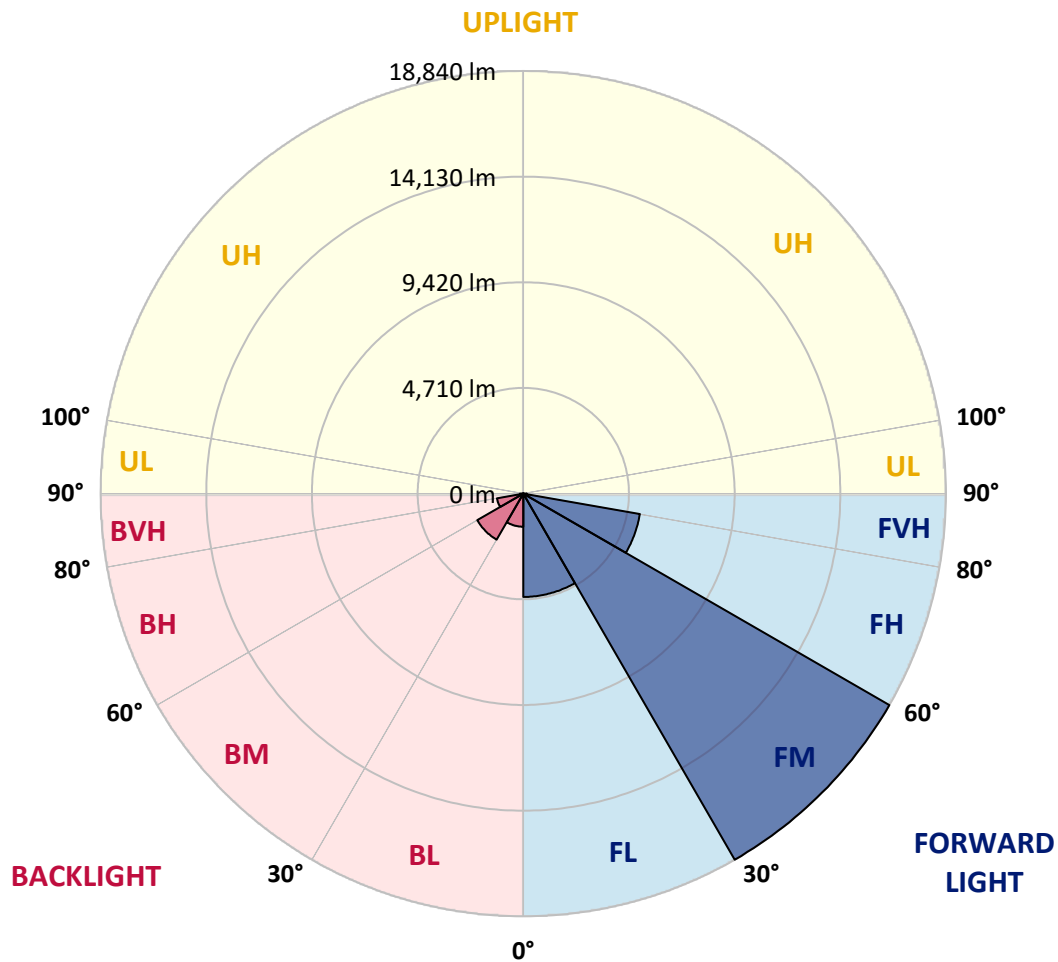
CATALOG NUMBER: GALN-SA6D-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4603.2 | 13.5 | | | |
| FM | (30°-60°) | 18839.6 | 55.3 | | | |
| FH | (60°-80°) | 5276.8 | 15.5 | | | G3/7500 |
| FVH | (80°-90°) | 154.8 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1475.5 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 2367.8 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 1191.6 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 143.6 | 0.4 | | | G2/225 |
| 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





REPORT NUMBER: P455675

CATALOG NUMBER: GALN-SA6D-827-U-AFL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 |
| 2.5° | 8889.6 | 8792.6 | 8716.2 | 8649.1 | 8561.5 | 8324.8 | 8088.0 | 8084.3 | 7896.0 | 7605.2 | 7307.0 |
| 5° | 10337.9 | 10207.4 | 10224.2 | 10015.4 | 9806.7 | 9463.7 | 8962.3 | 8936.2 | 8535.4 | 7991.1 | 7437.5 |
| 7.5° | 11281.1 | 11283.0 | 11230.8 | 11111.5 | 10885.9 | 10496.4 | 9927.8 | 9799.2 | 9241.9 | 8416.1 | 7586.6 |
| 10° | 11232.6 | 11283.0 | 11370.6 | 11473.1 | 11542.1 | 11350.1 | 10831.9 | 10675.3 | 9950.2 | 8930.6 | 7752.5 |
| 12.5° | 10587.7 | 10666.0 | 10790.9 | 11048.1 | 11463.8 | 11780.7 | 11603.6 | 11476.8 | 10770.4 | 9443.2 | 7935.2 |
| 15° | 10185.1 | 10231.7 | 10300.6 | 10474.0 | 10921.3 | 11680.0 | 12138.6 | 12071.5 | 11543.9 | 10022.9 | 8140.2 |
| 17.5° | 10062.0 | 10108.6 | 10131.0 | 10237.3 | 10556.0 | 11333.3 | 12349.2 | 12468.5 | 12229.9 | 10556.0 | 8347.1 |
| 20° | 10185.1 | 10207.4 | 10207.4 | 10270.8 | 10520.6 | 11130.1 | 12339.9 | 12580.3 | 12792.8 | 11195.4 | 8541.0 |
| 22.5° | 10507.5 | 10516.9 | 10503.8 | 10526.2 | 10712.6 | 11186.0 | 12252.3 | 12550.5 | 13247.7 | 11737.8 | 8692.0 |
| 25° | 11031.3 | 11046.2 | 10960.5 | 10908.3 | 11044.4 | 11432.1 | 12300.7 | 12574.7 | 13603.7 | 12256.0 | 8792.6 |
| 27.5° | 11626.0 | 11644.6 | 11540.2 | 11419.0 | 11482.4 | 11735.9 | 12490.9 | 12736.9 | 13870.2 | 12766.7 | 8856.0 |
| 30° | 12354.8 | 12362.2 | 12187.0 | 12041.6 | 12000.6 | 12188.9 | 12815.2 | 13044.5 | 14202.0 | 13368.8 | 8951.1 |
| 32.5° | 13100.4 | 13156.3 | 12930.8 | 12725.7 | 12656.8 | 12714.5 | 13294.3 | 13516.1 | 14597.2 | 14015.6 | 9103.9 |
| 35° | 14114.4 | 14123.8 | 13853.5 | 13603.7 | 13376.3 | 13450.8 | 13907.5 | 14067.8 | 15143.4 | 14763.1 | 9320.1 |
| 37.5° | 15380.1 | 15465.9 | 15093.0 | 14627.0 | 14347.4 | 14239.3 | 14649.4 | 14824.6 | 15909.5 | 15680.2 | 9646.4 |
| 40° | 16785.6 | 16817.3 | 16498.5 | 16207.7 | 15697.0 | 15383.8 | 15667.2 | 15857.3 | 16854.6 | 16774.4 | 10024.8 |
| 42.5° | 17669.1 | 17738.1 | 17762.3 | 17732.5 | 17348.5 | 16822.9 | 16931.0 | 17020.5 | 17973.0 | 17801.5 | 10412.5 |
| 45° | 17967.4 | 18069.9 | 18416.6 | 19151.0 | 19192.0 | 18673.8 | 18422.2 | 18507.9 | 19192.0 | 18837.9 | 10783.4 |
| 47.5° | 17473.4 | 17648.6 | 18288.0 | 19794.1 | 20921.9 | 20961.0 | 20202.4 | 20014.1 | 20303.0 | 19697.2 | 11051.8 |
| 50° | 16196.6 | 16233.8 | 17212.4 | 19393.4 | 21732.7 | 23147.5 | 22362.8 | 22012.3 | 21358.1 | 20332.8 | 11236.4 |
| 52.5° | 14220.7 | 14263.6 | 15083.7 | 17531.2 | 21233.2 | 24676.0 | 24890.4 | 24264.1 | 22429.9 | 20826.8 | 11357.5 |
| 55° | 10556.0 | 10803.9 | 11706.1 | 14071.6 | 18865.8 | 24532.5 | 26899.8 | 26543.8 | 23725.4 | 21218.2 | 11547.7 |
| 57.5° | 6490.6 | 6263.1 | 7333.1 | 9573.7 | 14189.0 | 22560.4 | 27520.5 | 27636.1 | 25151.4 | 21546.3 | 11866.4 |
| 60° | 2986.2 | 3030.9 | 3472.7 | 4937.8 | 8649.1 | 17648.6 | 25921.2 | 26651.9 | 25939.8 | 21535.1 | 11946.6 |
| 62.5° | 2057.9 | 2016.9 | 1905.0 | 2167.9 | 3944.3 | 11161.8 | 21894.9 | 23132.6 | 24359.1 | 20865.9 | 11627.8 |
| 65° | 1839.8 | 1798.8 | 1582.6 | 1509.9 | 1811.8 | 4865.1 | 15916.9 | 17479.0 | 20509.9 | 19177.1 | 10833.7 |
| 67.5° | 1718.6 | 1662.7 | 1439.0 | 1297.4 | 1293.6 | 1936.7 | 9385.4 | 11266.2 | 15212.3 | 16213.3 | 9387.3 |
| 70° | 1591.9 | 1547.1 | 1325.3 | 1168.7 | 1101.6 | 1217.2 | 4125.1 | 5400.1 | 9877.5 | 11683.7 | 7312.6 |
| 72.5° | 1465.1 | 1412.9 | 1213.5 | 1045.7 | 958.1 | 911.5 | 1580.7 | 2056.0 | 5580.9 | 7005.0 | 4483.0 |
| 75° | 1280.6 | 1254.5 | 1084.9 | 946.9 | 851.9 | 736.3 | 1002.8 | 1144.5 | 2669.3 | 3217.3 | 2249.9 |
| 77.5° | 1120.3 | 1092.3 | 963.7 | 827.6 | 758.7 | 598.4 | 712.1 | 777.3 | 1125.9 | 1304.8 | 1015.9 |
| 80° | 820.2 | 848.1 | 812.7 | 730.7 | 676.6 | 469.7 | 479.1 | 533.1 | 669.2 | 740.0 | 620.7 |
| 82.5° | 520.1 | 572.3 | 626.3 | 562.9 | 512.6 | 370.9 | 331.8 | 352.3 | 456.7 | 484.6 | 275.9 |
| 85° | 218.1 | 221.8 | 363.5 | 343.0 | 292.7 | 220.0 | 199.5 | 210.6 | 244.2 | 255.4 | 128.6 |
| 87.5° | 83.9 | 82.0 | 128.6 | 119.3 | 91.3 | 63.4 | 63.4 | 70.8 | 96.9 | 89.5 | 41.0 |
| 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: P455675

CATALOG NUMBER: GALN-SA6D-827-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 | 7154.1 |
| 2.5° | 7178.4 | 7046.0 | 6783.2 | 6457.0 | 6218.4 | 5950.0 | 5713.3 | 5543.6 | 5480.2 | 5450.4 | 5394.5 |
| 5° | 7172.8 | 6911.8 | 6367.5 | 5797.1 | 5338.6 | 4868.8 | 4471.8 | 4214.6 | 4192.2 | 4020.7 | 4003.9 |
| 7.5° | 7174.6 | 6775.7 | 5909.0 | 5070.2 | 4371.1 | 3890.2 | 3562.2 | 3476.4 | 3373.9 | 3347.8 | 3360.8 |
| 10° | 7180.2 | 6602.4 | 5416.9 | 4350.6 | 3674.0 | 3359.0 | 3236.0 | 3202.4 | 3206.1 | 3217.3 | 3219.2 |
| 12.5° | 7187.7 | 6434.6 | 4906.1 | 3804.5 | 3282.6 | 3152.1 | 3139.0 | 3168.9 | 3200.5 | 3224.8 | 3230.4 |
| 15° | 7197.0 | 6242.6 | 4408.4 | 3364.6 | 3086.8 | 3075.6 | 3118.5 | 3168.9 | 3213.6 | 3249.0 | 3254.6 |
| 17.5° | 7185.8 | 6019.0 | 3990.9 | 3094.3 | 2978.7 | 3032.8 | 3103.6 | 3167.0 | 3208.0 | 3241.5 | 3245.3 |
| 20° | 7159.7 | 5769.2 | 3588.3 | 2904.2 | 2911.6 | 2999.2 | 3075.6 | 3135.3 | 3180.0 | 3196.8 | 3209.9 |
| 22.5° | 7059.1 | 5470.9 | 3237.8 | 2756.9 | 2831.5 | 2952.6 | 3044.0 | 3079.4 | 3029.0 | 2993.6 | 3003.0 |
| 25° | 6887.6 | 5083.2 | 2911.6 | 2637.6 | 2758.8 | 2887.4 | 2980.6 | 2894.8 | 2853.8 | 2838.9 | 2846.4 |
| 27.5° | 6673.2 | 4658.2 | 2665.6 | 2512.7 | 2665.6 | 2814.7 | 2788.6 | 2773.7 | 2755.0 | 2730.8 | 2736.4 |
| 30° | 6442.1 | 4242.5 | 2456.8 | 2415.8 | 2564.9 | 2650.7 | 2661.8 | 2686.1 | 2665.6 | 2628.3 | 2643.2 |
| 32.5° | 6227.7 | 3851.1 | 2298.3 | 2333.8 | 2494.1 | 2481.0 | 2564.9 | 2592.9 | 2497.8 | 2372.9 | 2378.5 |
| 35° | 6045.0 | 3487.6 | 2179.1 | 2253.6 | 2372.9 | 2378.5 | 2462.4 | 2365.5 | 2262.9 | 2203.3 | 2207.0 |
| 37.5° | 5907.1 | 3204.3 | 2100.8 | 2184.6 | 2218.2 | 2289.0 | 2244.3 | 2194.0 | 2180.9 | 2139.9 | 2141.8 |
| 40° | 5825.1 | 2956.4 | 2050.4 | 2130.6 | 2125.0 | 2173.5 | 2029.9 | 2080.3 | 2098.9 | 2085.8 | 2087.7 |
| 42.5° | 5743.1 | 2781.1 | 1998.2 | 2056.0 | 2054.2 | 1959.1 | 1927.4 | 1970.3 | 2018.7 | 2024.3 | 2020.6 |
| 45° | 5677.8 | 2645.1 | 1944.2 | 1942.3 | 1979.6 | 1830.5 | 1821.2 | 1847.3 | 1916.2 | 1949.8 | 1947.9 |
| 47.5° | 5605.1 | 2531.4 | 1862.2 | 1810.0 | 1821.2 | 1750.3 | 1735.4 | 1746.6 | 1830.5 | 1884.5 | 1899.4 |
| 50° | 5513.8 | 2417.6 | 1759.6 | 1688.8 | 1642.2 | 1675.8 | 1679.5 | 1681.4 | 1765.2 | 1826.7 | 1839.8 |
| 52.5° | 5441.1 | 2331.9 | 1642.2 | 1590.0 | 1534.1 | 1608.7 | 1636.6 | 1640.3 | 1690.7 | 1741.0 | 1750.3 |
| 55° | 5484.0 | 2283.4 | 1526.6 | 1489.4 | 1439.0 | 1539.7 | 1593.7 | 1601.2 | 1612.4 | 1649.7 | 1655.3 |
| 57.5° | 5612.6 | 2294.6 | 1433.4 | 1385.0 | 1347.7 | 1457.7 | 1549.0 | 1554.6 | 1547.1 | 1591.9 | 1599.3 |
| 60° | 5651.7 | 2289.0 | 1364.5 | 1269.4 | 1247.0 | 1370.1 | 1483.8 | 1495.0 | 1493.1 | 1558.3 | 1571.4 |
| 62.5° | 5487.7 | 2218.2 | 1295.5 | 1172.5 | 1157.6 | 1280.6 | 1392.4 | 1437.2 | 1446.5 | 1539.7 | 1556.5 |
| 65° | 5101.8 | 2072.8 | 1204.2 | 1070.0 | 1070.0 | 1185.5 | 1304.8 | 1366.3 | 1392.4 | 1517.3 | 1536.0 |
| 67.5° | 4593.0 | 1901.3 | 1111.0 | 982.3 | 978.6 | 1094.2 | 1211.6 | 1275.0 | 1316.0 | 1485.6 | 1496.8 |
| 70° | 3811.9 | 1670.2 | 995.4 | 887.3 | 887.3 | 991.7 | 1097.9 | 1174.3 | 1234.0 | 1426.0 | 1426.0 |
| 72.5° | 2611.5 | 1388.7 | 855.6 | 779.2 | 781.0 | 878.0 | 986.1 | 1071.8 | 1142.7 | 1306.7 | 1310.4 |
| 75° | 1651.5 | 1084.9 | 702.7 | 663.6 | 671.1 | 762.4 | 874.2 | 963.7 | 1105.4 | 1291.8 | 1297.4 |
| 77.5° | 878.0 | 762.4 | 559.2 | 549.9 | 559.2 | 643.1 | 768.0 | 891.0 | 1109.1 | 1120.3 | 1101.6 |
| 80° | 568.5 | 540.6 | 441.8 | 423.1 | 426.9 | 518.2 | 684.1 | 846.3 | 891.0 | 902.2 | 861.2 |
| 82.5° | 309.4 | 343.0 | 313.2 | 294.5 | 294.5 | 404.5 | 583.4 | 672.9 | 639.4 | 531.2 | 507.0 |
| 85° | 132.3 | 160.3 | 162.2 | 141.7 | 136.1 | 249.8 | 391.4 | 367.2 | 341.1 | 326.2 | 322.5 |
| 87.5° | 37.3 | 52.2 | 52.2 | 39.1 | 29.8 | 69.0 | 78.3 | 22.4 | 0.0 | 1.9 | 3.7 |
| 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)