

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: P531362

Luminaire Tested: **GALN-SA6C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26931 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

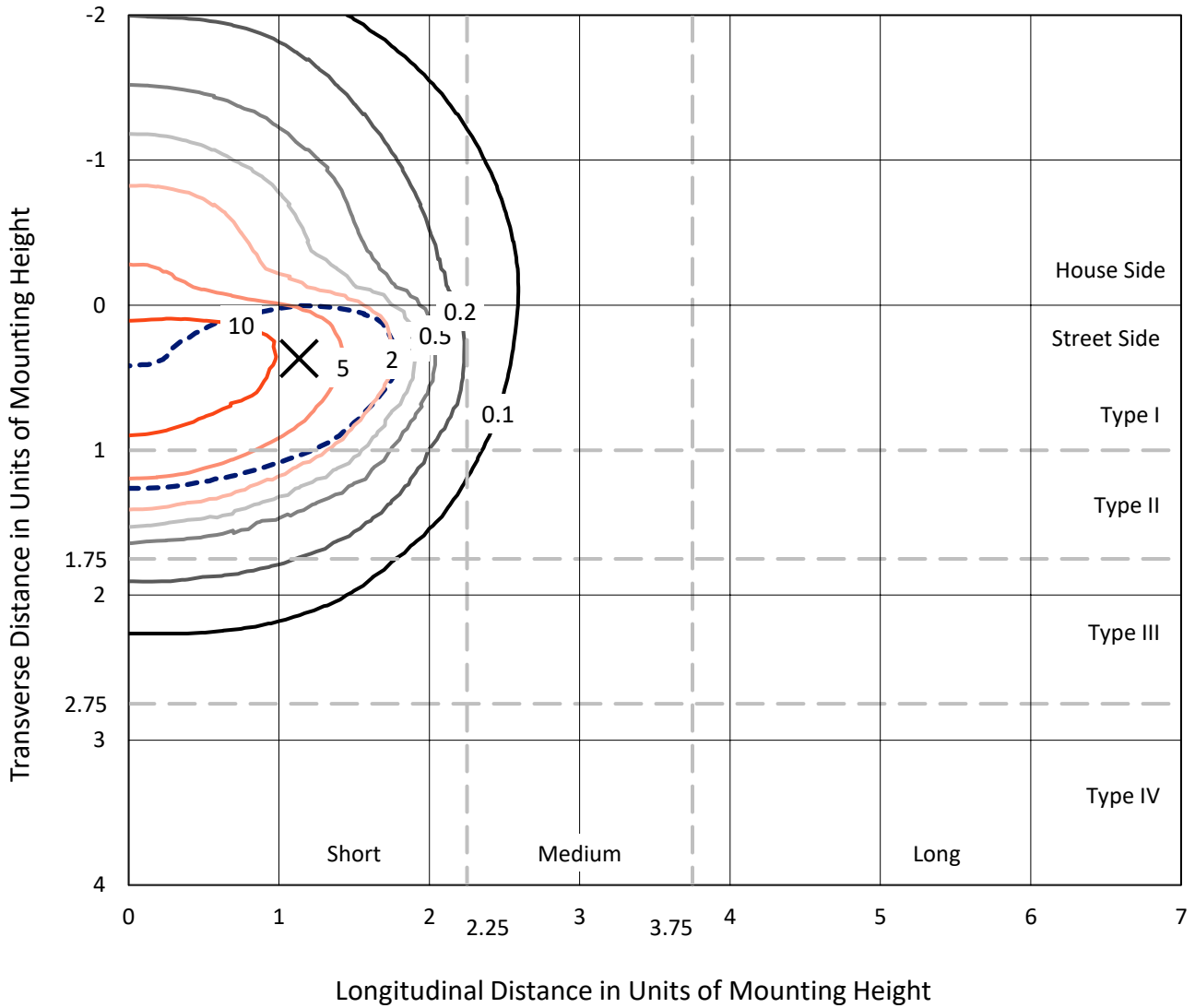
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531362
 CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

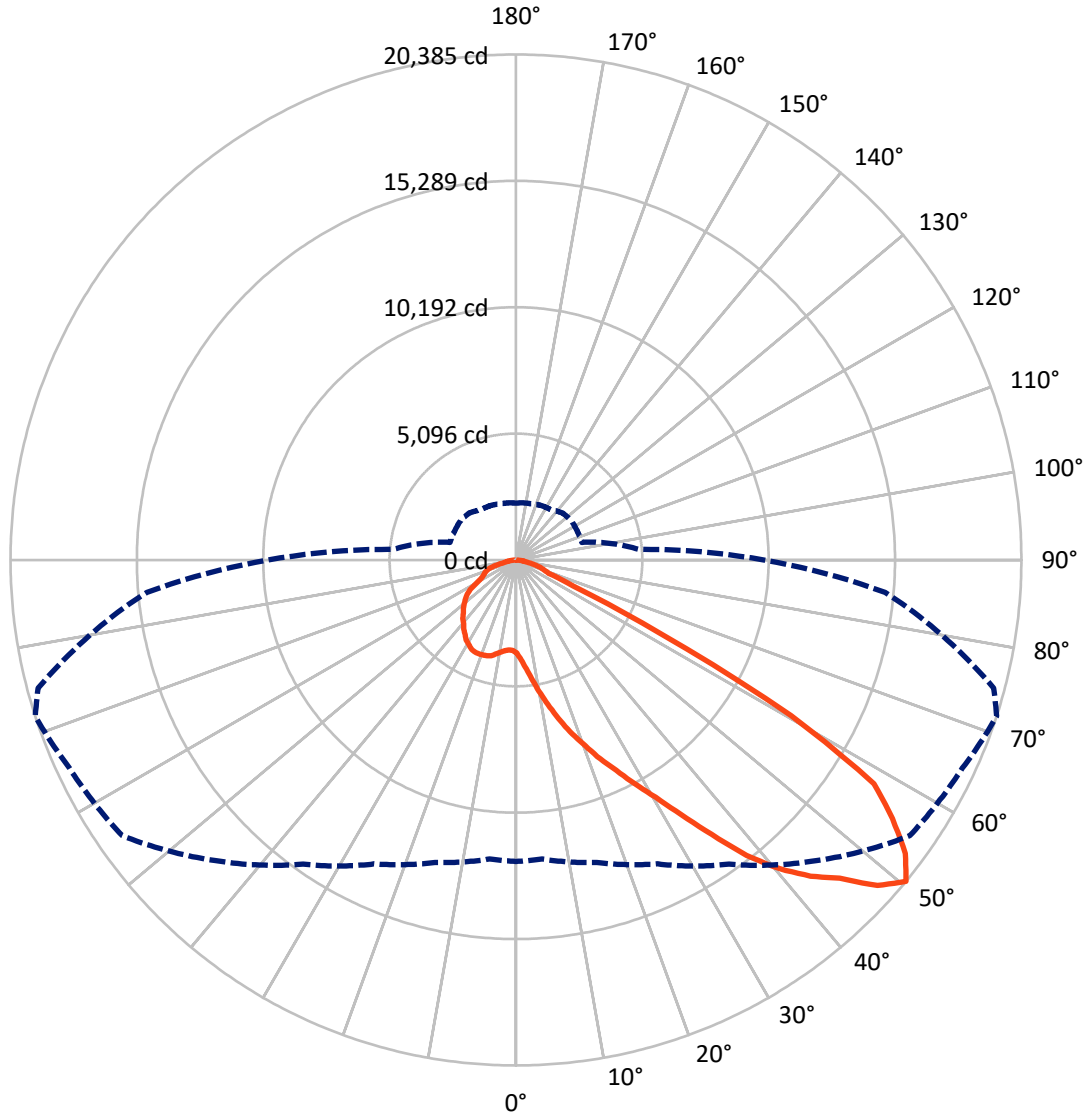
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P531362
CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P531362
 CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

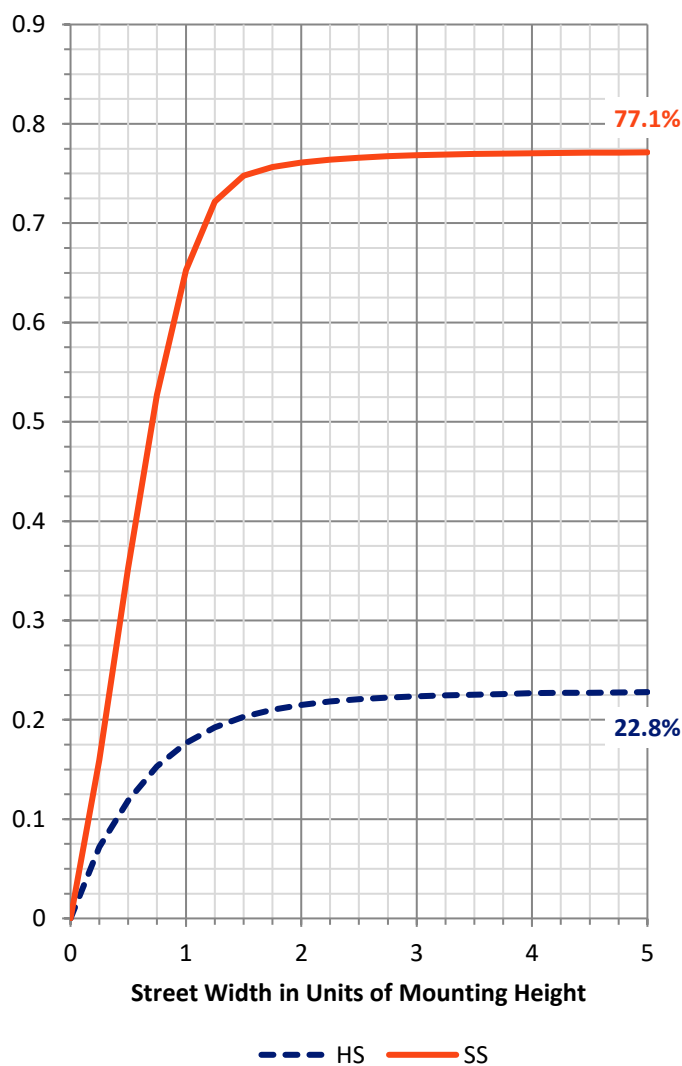
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6170.1 | 0.0 | 6170.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 20760.9 | 0.0 | 20760.9 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 26931.0 | 0.0 | 26931.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 441.0 | 1.6 |
| 10°-20° | 1648.5 | 6.1 |
| 20°-30° | 3196.4 | 11.9 |
| 30°-40° | 5295.3 | 19.7 |
| 40°-50° | 7409.3 | 27.5 |
| 50°-60° | 6250.7 | 23.2 |
| 60°-70° | 1905.2 | 7.1 |
| 70°-80° | 668.4 | 2.5 |
| 80°-90° | 116.2 | 0.4 |
| 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° | 26931.0 | 100.0 |
| 0°-180° | 26931.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P531362

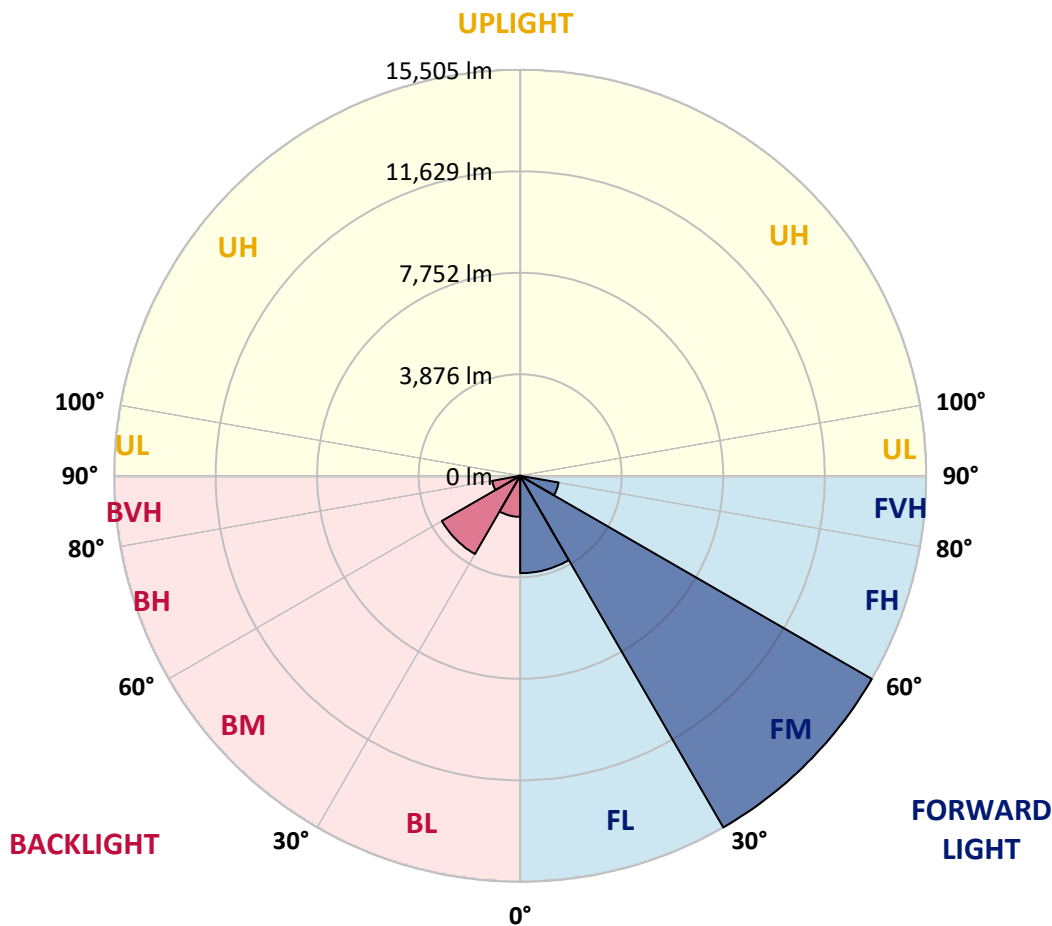
CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3717.4 | 13.8 | | | |
| FM (30°-60°) | 15504.9 | 57.6 | | | |
| FH (60°-80°) | 1486.5 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 52.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1568.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3450.4 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 1087.1 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 64.2 | 0.2 | | | 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





REPORT NUMBER: P531362

CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 |
| 2.5° | 4822.1 | 4792.1 | 4702.1 | 4672.1 | 4565.5 | 4372.2 | 4305.5 | 4108.9 | 4025.6 | 3949.0 | 3859.0 |
| 5° | 6098.4 | 5958.5 | 5948.5 | 5778.5 | 5531.9 | 5388.6 | 4962.0 | 4675.5 | 4412.2 | 4278.9 | 4032.3 |
| 7.5° | 6911.5 | 6914.9 | 6914.9 | 6774.9 | 6578.3 | 6215.1 | 5831.8 | 5315.3 | 4918.7 | 4722.1 | 4302.2 |
| 10° | 7684.7 | 7618.0 | 7581.4 | 7568.0 | 7434.7 | 7081.5 | 6671.6 | 6031.8 | 5488.6 | 5258.6 | 4505.5 |
| 12.5° | 8231.2 | 8174.5 | 8257.9 | 8214.5 | 8117.9 | 7887.9 | 7501.4 | 6771.6 | 6091.7 | 5781.8 | 4832.1 |
| 15° | 8491.1 | 8531.1 | 8597.8 | 8717.7 | 8674.4 | 8587.8 | 8161.2 | 7531.4 | 6741.6 | 6391.7 | 5122.0 |
| 17.5° | 8891.0 | 8781.0 | 8861.0 | 9011.0 | 9131.0 | 9091.0 | 8847.7 | 8081.2 | 7384.7 | 6954.9 | 5511.9 |
| 20° | 9170.9 | 9107.6 | 9147.6 | 9320.9 | 9410.9 | 9637.5 | 9510.9 | 8801.0 | 8001.3 | 7548.0 | 5971.8 |
| 22.5° | 9970.7 | 9877.4 | 9747.5 | 9774.1 | 9807.4 | 9967.4 | 9997.4 | 9590.8 | 8717.7 | 8237.9 | 6408.3 |
| 25° | 10957.1 | 10870.5 | 10717.2 | 10560.6 | 10463.9 | 10434.0 | 10537.3 | 10210.7 | 9404.2 | 8907.7 | 6878.2 |
| 27.5° | 12043.5 | 11896.9 | 11800.3 | 11477.0 | 11217.1 | 11177.1 | 11127.1 | 10950.5 | 10217.3 | 9680.8 | 7408.1 |
| 30° | 13099.9 | 12983.3 | 12853.3 | 12336.8 | 12066.9 | 12023.5 | 11776.9 | 11826.9 | 11100.4 | 10503.9 | 8007.9 |
| 32.5° | 13899.7 | 13909.7 | 13613.1 | 13223.2 | 12970.0 | 12740.0 | 12650.0 | 12793.3 | 12233.5 | 11753.6 | 8677.7 |
| 35° | 14546.2 | 14576.2 | 14292.9 | 13939.7 | 13666.4 | 13826.4 | 13786.4 | 13853.1 | 13586.5 | 13000.0 | 9457.5 |
| 37.5° | 15176.1 | 15026.1 | 14722.8 | 14552.9 | 14409.6 | 14672.9 | 15012.8 | 15069.4 | 15119.4 | 14429.6 | 10364.0 |
| 40° | 15279.4 | 15292.7 | 15116.1 | 15236.0 | 15056.1 | 15452.6 | 16242.4 | 16169.1 | 16372.4 | 15769.2 | 11347.0 |
| 42.5° | 15132.7 | 15162.7 | 15232.7 | 15402.7 | 15835.9 | 16312.4 | 17485.5 | 17185.5 | 17432.1 | 16895.6 | 12303.5 |
| 45° | 14892.8 | 14769.5 | 14856.1 | 15502.6 | 16252.4 | 17312.2 | 18621.8 | 18388.6 | 18308.6 | 17858.7 | 13443.2 |
| 47.5° | 13746.4 | 13873.1 | 14143.0 | 14939.4 | 16065.8 | 17485.5 | 19428.3 | 19375.0 | 19614.9 | 19298.3 | 14479.6 |
| 50° | 12156.8 | 12106.9 | 12626.7 | 13523.1 | 14976.1 | 17145.5 | 19385.0 | 19868.2 | 20384.7 | 19944.8 | 14942.8 |
| 52.5° | 9104.3 | 9370.9 | 9817.4 | 10930.5 | 13003.3 | 15292.7 | 18438.5 | 19245.0 | 19664.9 | 19571.6 | 14569.5 |
| 55° | 5755.2 | 5835.1 | 6105.1 | 7428.1 | 9294.2 | 12273.5 | 15805.9 | 17675.4 | 18425.2 | 18775.1 | 14226.3 |
| 57.5° | 2795.9 | 2646.0 | 2975.9 | 4038.9 | 5368.6 | 8254.5 | 12190.2 | 15396.0 | 17025.6 | 17658.7 | 13479.8 |
| 60° | 1459.6 | 1516.3 | 1646.2 | 2026.1 | 2775.9 | 4285.6 | 7598.0 | 10260.7 | 12750.0 | 13723.1 | 10217.3 |
| 62.5° | 1209.7 | 1229.7 | 1316.3 | 1506.3 | 1846.2 | 2466.0 | 3879.0 | 5002.0 | 6501.6 | 7378.1 | 5811.8 |
| 65° | 1026.4 | 1036.4 | 1129.7 | 1256.3 | 1473.0 | 1736.2 | 1996.1 | 2089.5 | 2529.3 | 2596.0 | 2066.1 |
| 67.5° | 856.4 | 866.4 | 966.4 | 1086.4 | 1226.3 | 1296.3 | 1363.0 | 1356.3 | 1406.3 | 1386.3 | 1383.0 |
| 70° | 659.8 | 669.8 | 773.1 | 899.8 | 969.7 | 929.8 | 1136.4 | 1183.0 | 1203.0 | 1219.7 | 1246.3 |
| 72.5° | 476.5 | 496.5 | 576.5 | 666.5 | 629.8 | 723.1 | 936.4 | 1006.4 | 1033.1 | 1043.1 | 1076.4 |
| 75° | 346.6 | 353.2 | 373.2 | 346.6 | 399.9 | 503.2 | 659.8 | 746.5 | 779.8 | 789.8 | 839.8 |
| 77.5° | 153.3 | 156.6 | 160.0 | 199.9 | 256.6 | 313.3 | 393.2 | 463.2 | 509.9 | 523.2 | 536.5 |
| 80° | 80.0 | 83.3 | 103.3 | 136.6 | 183.3 | 229.9 | 286.6 | 326.6 | 356.6 | 359.9 | 373.2 |
| 82.5° | 50.0 | 53.3 | 73.3 | 96.6 | 130.0 | 170.0 | 209.9 | 243.3 | 266.6 | 269.9 | 273.3 |
| 85° | 23.3 | 30.0 | 43.3 | 60.0 | 86.6 | 110.0 | 113.3 | 96.6 | 103.3 | 106.6 | 100.0 |
| 87.5° | 6.7 | 10.0 | 13.3 | 10.0 | 13.3 | 13.3 | 16.7 | 20.0 | 20.0 | 20.0 | 23.3 |
| 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: P531362

CATALOG NUMBER: GALN-SA6C-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 | 3749.0 |
| 2.5° | 3809.0 | 3779.0 | 3662.4 | 3619.1 | 3505.8 | 3525.7 | 3465.8 | 3462.4 | 3449.1 | 3445.8 | 3442.4 |
| 5° | 3902.3 | 3809.0 | 3669.0 | 3562.4 | 3499.1 | 3492.4 | 3449.1 | 3449.1 | 3462.4 | 3472.4 | 3449.1 |
| 7.5° | 4055.6 | 3949.0 | 3712.4 | 3612.4 | 3555.7 | 3545.7 | 3515.8 | 3492.4 | 3522.4 | 3512.4 | 3485.8 |
| 10° | 4232.2 | 4045.6 | 3795.7 | 3709.0 | 3615.7 | 3592.4 | 3592.4 | 3602.4 | 3552.4 | 3569.1 | 3542.4 |
| 12.5° | 4428.8 | 4178.9 | 3902.3 | 3802.3 | 3692.4 | 3679.0 | 3672.4 | 3599.1 | 3625.7 | 3612.4 | 3545.7 |
| 15° | 4678.8 | 4332.2 | 4038.9 | 3869.0 | 3775.7 | 3715.7 | 3629.1 | 3615.7 | 3599.1 | 3565.7 | 3535.7 |
| 17.5° | 4948.7 | 4498.8 | 4102.3 | 3889.0 | 3749.0 | 3705.7 | 3639.1 | 3569.1 | 3519.1 | 3525.7 | 3502.4 |
| 20° | 5178.7 | 4652.1 | 4125.6 | 3909.0 | 3729.0 | 3645.7 | 3542.4 | 3499.1 | 3445.8 | 3442.4 | 3439.1 |
| 22.5° | 5451.9 | 4858.7 | 4158.9 | 3855.7 | 3669.0 | 3582.4 | 3512.4 | 3435.8 | 3399.1 | 3352.5 | 3375.8 |
| 25° | 5778.5 | 4938.7 | 4165.6 | 3825.7 | 3625.7 | 3472.4 | 3435.8 | 3352.5 | 3339.1 | 3272.5 | 3285.8 |
| 27.5° | 6015.1 | 4982.0 | 4112.3 | 3732.4 | 3525.7 | 3409.1 | 3342.5 | 3282.5 | 3259.2 | 3209.2 | 3195.8 |
| 30° | 6331.7 | 5048.7 | 3999.0 | 3615.7 | 3425.8 | 3295.8 | 3255.8 | 3242.5 | 3175.8 | 3122.5 | 3115.9 |
| 32.5° | 6691.6 | 5092.0 | 3925.6 | 3495.8 | 3322.5 | 3222.5 | 3242.5 | 3179.2 | 3095.9 | 3049.2 | 3035.9 |
| 35° | 6978.2 | 5108.7 | 3742.4 | 3359.1 | 3252.5 | 3189.2 | 3165.8 | 3152.5 | 3032.5 | 2989.2 | 2955.9 |
| 37.5° | 7414.7 | 5072.0 | 3589.1 | 3262.5 | 3175.8 | 3152.5 | 3132.5 | 3042.5 | 2905.9 | 2842.6 | 2795.9 |
| 40° | 7924.6 | 5062.0 | 3392.5 | 3125.9 | 3102.5 | 3129.2 | 3069.2 | 2929.2 | 2739.3 | 2669.3 | 2636.0 |
| 42.5° | 8414.5 | 5132.0 | 3269.1 | 3052.5 | 3022.5 | 3032.5 | 2949.2 | 2739.3 | 2646.0 | 2606.0 | 2552.7 |
| 45° | 9234.3 | 5278.6 | 3065.9 | 2939.2 | 2925.9 | 2919.2 | 2819.3 | 2599.3 | 2546.0 | 2496.0 | 2486.0 |
| 47.5° | 9974.1 | 5182.0 | 2935.9 | 2822.6 | 2835.9 | 2799.3 | 2586.0 | 2516.0 | 2456.0 | 2406.0 | 2389.4 |
| 50° | 10017.4 | 4952.0 | 2752.6 | 2732.6 | 2736.0 | 2672.6 | 2469.4 | 2422.7 | 2346.1 | 2312.7 | 2289.4 |
| 52.5° | 9790.8 | 4575.5 | 2582.7 | 2589.3 | 2599.3 | 2496.0 | 2326.1 | 2292.7 | 2229.4 | 2182.8 | 2169.4 |
| 55° | 9154.3 | 3989.0 | 2416.0 | 2442.7 | 2469.4 | 2272.7 | 2219.4 | 2136.1 | 2086.1 | 2019.5 | 2022.8 |
| 57.5° | 8064.6 | 3212.5 | 2182.8 | 2226.1 | 2282.7 | 2066.1 | 2026.1 | 1922.8 | 1849.5 | 1796.2 | 1789.5 |
| 60° | 5405.3 | 2286.1 | 1832.9 | 1849.5 | 1976.2 | 1889.5 | 1886.2 | 1782.9 | 1682.9 | 1636.2 | 1609.6 |
| 62.5° | 3189.2 | 1746.2 | 1582.9 | 1566.3 | 1562.9 | 1612.9 | 1696.2 | 1659.6 | 1529.6 | 1439.6 | 1466.3 |
| 65° | 1669.6 | 1509.6 | 1473.0 | 1416.3 | 1383.0 | 1369.6 | 1433.0 | 1449.6 | 1363.0 | 1266.3 | 1259.7 |
| 67.5° | 1403.0 | 1403.0 | 1373.0 | 1353.0 | 1306.3 | 1249.7 | 1209.7 | 1156.4 | 1143.0 | 1116.4 | 1083.1 |
| 70° | 1276.3 | 1309.7 | 1299.7 | 1253.0 | 1213.0 | 1149.7 | 1046.4 | 959.8 | 876.4 | 846.4 | 866.4 |
| 72.5° | 1113.0 | 1146.4 | 1146.4 | 1123.0 | 1069.7 | 973.1 | 873.1 | 773.1 | 703.2 | 649.8 | 643.2 |
| 75° | 856.4 | 873.1 | 913.1 | 886.4 | 816.5 | 756.5 | 653.2 | 549.9 | 483.2 | 433.2 | 423.2 |
| 77.5° | 546.5 | 573.2 | 573.2 | 569.9 | 519.9 | 463.2 | 396.6 | 323.2 | 273.3 | 236.6 | 226.6 |
| 80° | 363.2 | 379.9 | 393.2 | 379.9 | 346.6 | 303.3 | 253.3 | 203.3 | 166.6 | 136.6 | 130.0 |
| 82.5° | 266.6 | 286.6 | 296.6 | 283.3 | 249.9 | 216.6 | 180.0 | 143.3 | 106.6 | 83.3 | 76.6 |
| 85° | 103.3 | 106.6 | 120.0 | 143.3 | 140.0 | 136.6 | 110.0 | 80.0 | 60.0 | 43.3 | 40.0 |
| 87.5° | 26.7 | 23.3 | 26.7 | 26.7 | 23.3 | 20.0 | 20.0 | 20.0 | 20.0 | 10.0 | 13.3 |
| 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)