

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: P944248

Luminaire Tested: **GALN-SB9A-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28694 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

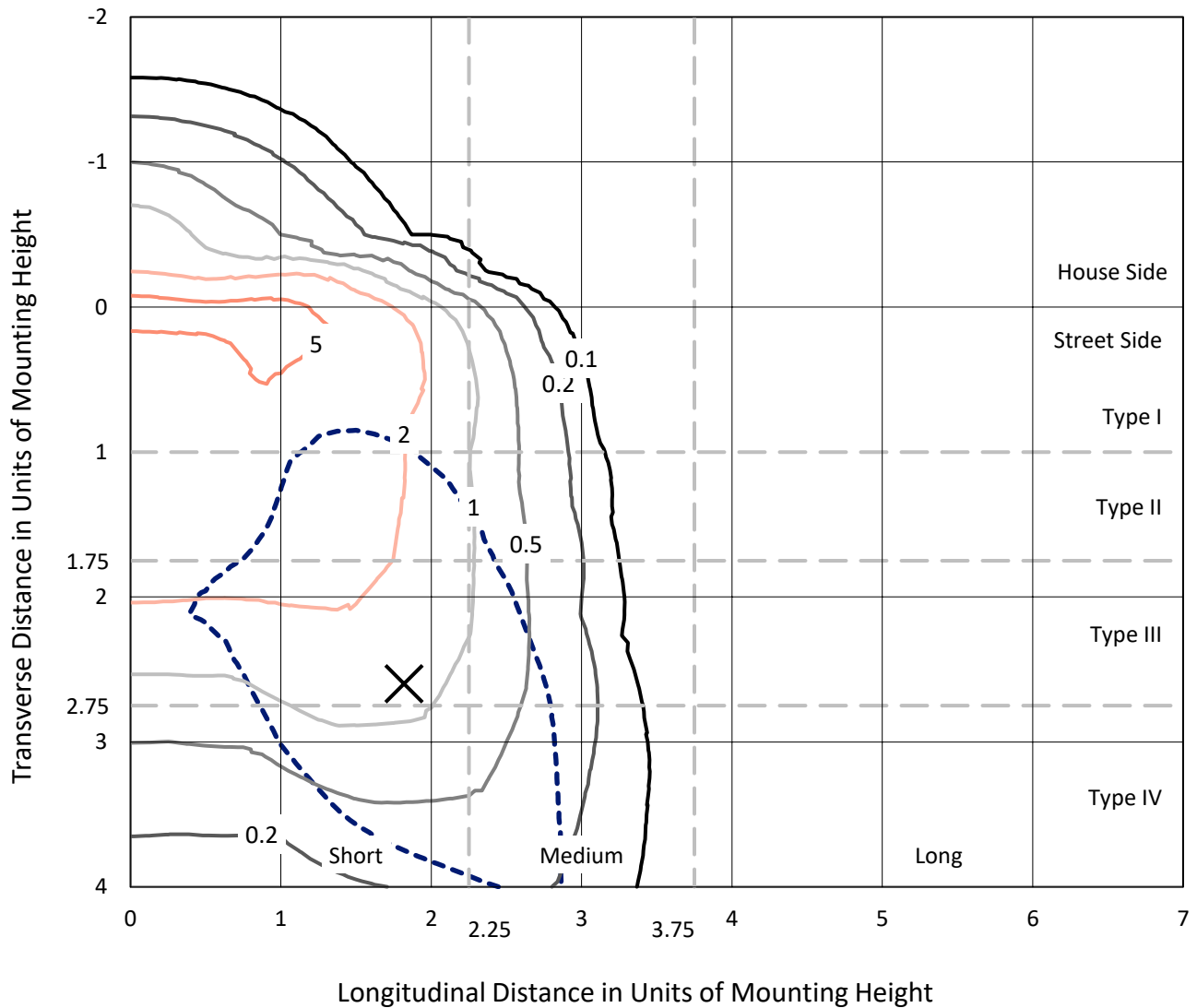
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944248
 CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

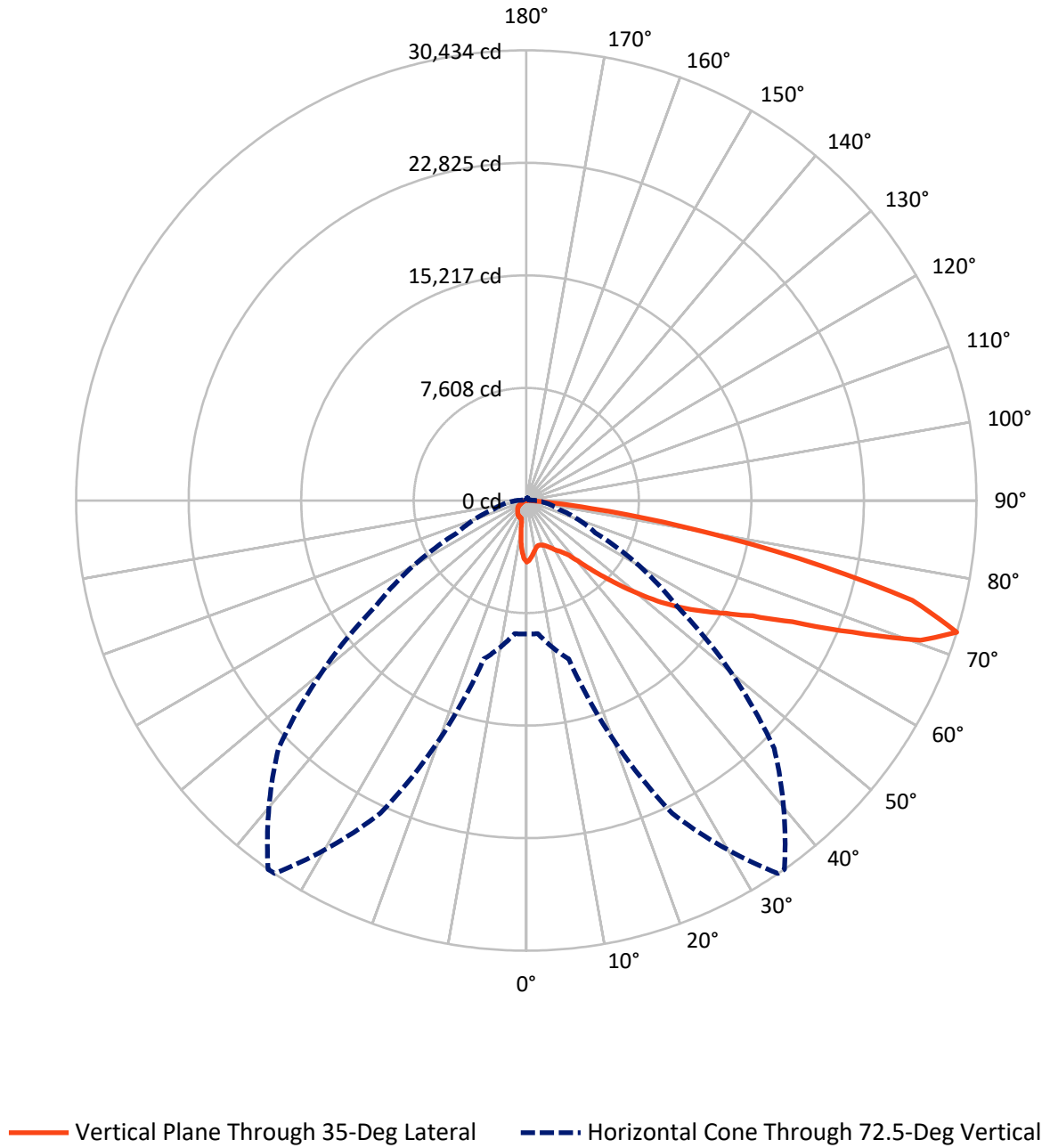
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P944248
CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944248
 CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3229.4 | 0.0 | 3229.4 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 25464.6 | 0.0 | 25464.6 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 28694.0 | 0.0 | 28694.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 341.7 | 1.2 |
| 10°-20° | 799.5 | 2.8 |
| 20°-30° | 1298.7 | 4.5 |
| 30°-40° | 2166.8 | 7.6 |
| 40°-50° | 4099.7 | 14.3 |
| 50°-60° | 6514.4 | 22.7 |
| 60°-70° | 8058.8 | 28.1 |
| 70°-80° | 5009.4 | 17.5 |
| 80°-90° | 404.8 | 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° | 28694.0 | 100.0 |
| 0°-180° | 28694.0 | 100.0 |

Coefficient of Utilization



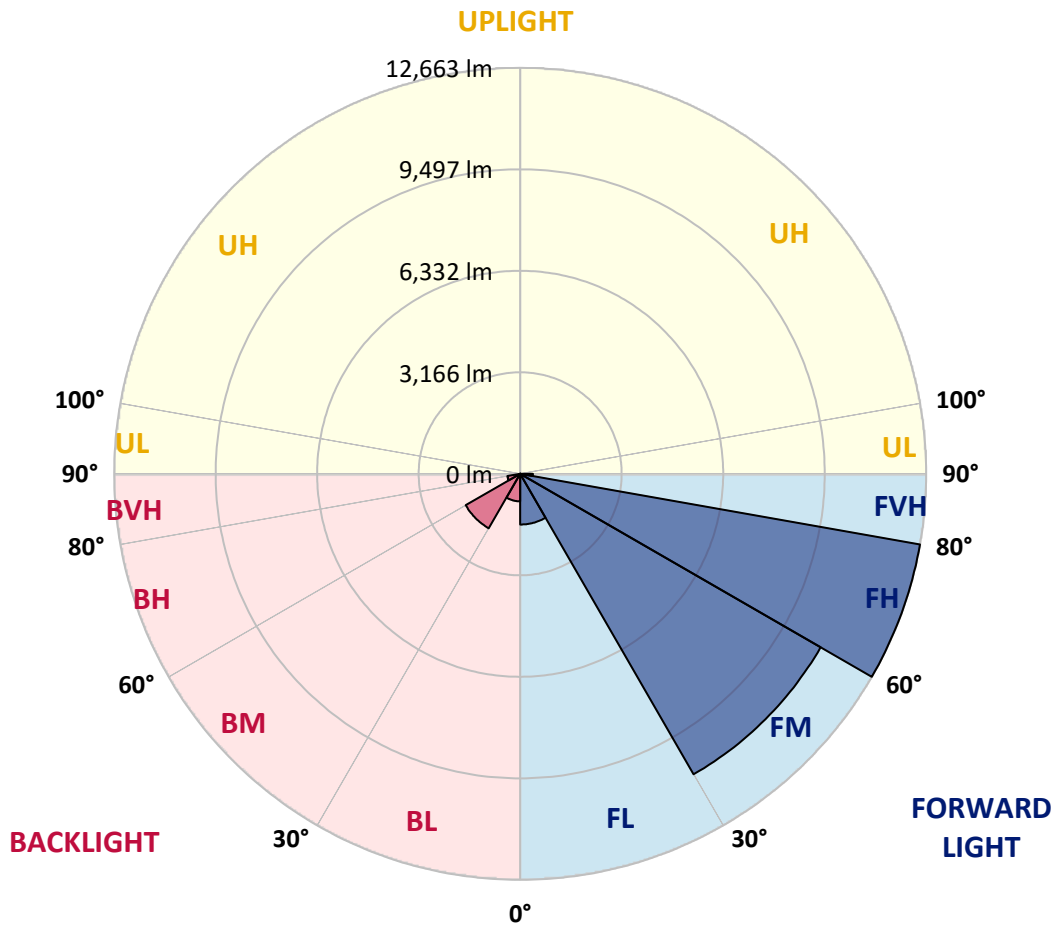
REPORT NUMBER: P944248
 CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1581.8 | 5.5 | | | |
| FM (30°-60°) | 10820.5 | 37.7 | | | |
| FH (60°-80°) | 12663.0 | 44.1 | | | G5 |
| FVH (80°-90°) | 399.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 858.1 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1960.5 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 405.2 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P944248
 CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 |
| 2.5° | 3973.7 | 4007.3 | 4013.7 | 4024.2 | 4024.2 | 4036.8 | 4057.8 | 4087.2 | 4135.6 | 4160.8 |
| 5° | 3662.5 | 3687.8 | 3719.3 | 3744.5 | 3792.9 | 3799.2 | 3881.2 | 3961.1 | 4072.5 | 4156.6 |
| 7.5° | 3349.3 | 3378.7 | 3420.7 | 3481.7 | 3544.8 | 3563.7 | 3687.8 | 3822.3 | 3998.9 | 4156.6 |
| 10° | 3128.5 | 3130.6 | 3168.5 | 3229.4 | 3330.3 | 3353.5 | 3504.8 | 3696.2 | 3916.9 | 4131.4 |
| 12.5° | 3004.5 | 3019.2 | 3036.0 | 3082.2 | 3179.0 | 3193.7 | 3355.6 | 3580.5 | 3834.9 | 4116.7 |
| 15° | 3004.5 | 3015.0 | 3025.5 | 3048.6 | 3126.4 | 3139.0 | 3282.0 | 3507.0 | 3792.9 | 4123.0 |
| 17.5° | 3036.0 | 3052.8 | 3044.4 | 3071.7 | 3153.7 | 3162.1 | 3288.3 | 3485.9 | 3790.8 | 4162.9 |
| 20° | 3111.7 | 3124.3 | 3107.5 | 3124.3 | 3206.3 | 3223.1 | 3353.5 | 3525.9 | 3826.5 | 4232.3 |
| 22.5° | 3231.5 | 3237.8 | 3197.9 | 3210.5 | 3294.6 | 3315.6 | 3467.0 | 3639.4 | 3912.7 | 4343.7 |
| 25° | 3382.9 | 3395.5 | 3334.5 | 3349.3 | 3429.2 | 3454.4 | 3628.9 | 3809.7 | 4049.4 | 4497.2 |
| 27.5° | 3557.4 | 3563.7 | 3511.2 | 3509.1 | 3612.1 | 3647.8 | 3824.4 | 4020.0 | 4232.3 | 4690.7 |
| 30° | 3757.1 | 3776.1 | 3725.6 | 3717.2 | 3847.6 | 3877.0 | 4051.5 | 4278.6 | 4501.4 | 4980.8 |
| 32.5° | 3914.8 | 3929.6 | 3900.1 | 3921.1 | 4053.6 | 4076.7 | 4326.9 | 4644.4 | 4924.0 | 5392.9 |
| 35° | 4141.9 | 4150.3 | 4083.0 | 4120.9 | 4272.3 | 4331.1 | 4703.3 | 5157.4 | 5456.0 | 5910.1 |
| 37.5° | 4964.0 | 4964.0 | 4678.0 | 4490.9 | 4636.0 | 4688.5 | 5218.4 | 5802.9 | 6111.9 | 6603.9 |
| 40° | 6101.4 | 6082.5 | 5664.1 | 5281.5 | 5262.5 | 5365.6 | 5952.1 | 6616.5 | 6959.2 | 7436.5 |
| 42.5° | 7314.6 | 7285.1 | 6715.3 | 6336.9 | 6273.8 | 6309.6 | 6799.4 | 7619.4 | 7968.4 | 8452.0 |
| 45° | 8391.0 | 8382.6 | 7861.2 | 7352.4 | 7238.9 | 7352.4 | 7857.0 | 8792.6 | 9042.8 | 9551.6 |
| 47.5° | 9293.0 | 9293.0 | 8912.4 | 8580.3 | 8521.4 | 8588.7 | 9288.8 | 10094.0 | 10070.9 | 10722.7 |
| 50° | 10331.6 | 10323.2 | 9961.6 | 9818.6 | 9879.6 | 9974.2 | 10937.1 | 11464.9 | 11134.8 | 11872.8 |
| 52.5° | 11059.1 | 11109.6 | 10985.5 | 10962.4 | 11273.5 | 11437.5 | 12610.7 | 12806.3 | 12087.2 | 12963.9 |
| 55° | 11635.2 | 11694.0 | 11837.0 | 11998.9 | 12598.1 | 12812.6 | 14231.7 | 14078.3 | 12884.1 | 13910.1 |
| 57.5° | 12450.9 | 12366.8 | 12587.6 | 12907.2 | 13876.4 | 14135.0 | 15802.3 | 15278.8 | 13525.3 | 14677.5 |
| 60° | 13441.2 | 13453.8 | 13491.7 | 13895.3 | 15152.6 | 15484.8 | 17349.7 | 16414.1 | 13937.4 | 15148.4 |
| 62.5° | 14631.2 | 14650.1 | 14727.9 | 15348.2 | 16866.2 | 17179.4 | 18998.1 | 17343.4 | 14126.6 | 15016.0 |
| 65° | 14549.2 | 14629.1 | 15497.4 | 17618.9 | 19471.1 | 19780.2 | 20921.9 | 17995.2 | 13840.7 | 13804.9 |
| 67.5° | 13254.1 | 13384.4 | 14837.3 | 20331.1 | 23398.6 | 23743.4 | 23247.2 | 18123.5 | 12606.5 | 10735.3 |
| 70° | 11555.3 | 11601.5 | 13348.7 | 22770.0 | 27946.3 | 28295.3 | 25328.7 | 16712.7 | 9566.3 | 5987.9 |
| 72.5° | 9023.9 | 9034.4 | 11084.3 | 23335.5 | 30414.6 | 30433.5 | 23695.0 | 12406.8 | 5144.8 | 2300.1 |
| 75° | 6446.2 | 6383.2 | 7423.9 | 18924.5 | 26758.4 | 26972.8 | 17763.9 | 5819.7 | 1965.8 | 1087.0 |
| 77.5° | 3456.5 | 3525.9 | 4200.8 | 11223.1 | 18485.1 | 18850.9 | 9692.5 | 1677.8 | 1000.8 | 740.1 |
| 80° | 1068.1 | 1126.9 | 1721.9 | 5138.5 | 10470.4 | 10691.2 | 3593.2 | 746.4 | 698.0 | 527.7 |
| 82.5° | 336.4 | 349.0 | 803.2 | 2159.3 | 4345.8 | 4446.8 | 1040.7 | 422.6 | 477.3 | 349.0 |
| 85° | 96.7 | 98.8 | 357.4 | 805.3 | 1074.4 | 1095.4 | 292.2 | 164.0 | 273.3 | 216.6 |
| 87.5° | 10.5 | 33.6 | 134.6 | 134.6 | 94.6 | 92.5 | 31.5 | 35.7 | 77.8 | 27.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P944248
 CATALOG NUMBER: GALN-SB9A-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4158.7 | 0° | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 | 4158.7 |
| 4177.6 | 2.5° | 4167.1 | 4169.2 | 4141.9 | 4095.6 | 4045.2 | 4003.1 | 3950.6 | 3908.5 | 3879.1 | 3870.7 |
| 4215.5 | 5° | 4196.6 | 4181.9 | 4104.1 | 3963.2 | 3795.0 | 3649.9 | 3488.0 | 3359.8 | 3275.7 | 3239.9 |
| 4255.4 | 7.5° | 4240.7 | 4198.7 | 4028.4 | 3750.8 | 3429.2 | 3143.2 | 2853.1 | 2628.1 | 2485.1 | 2413.7 |
| 4293.3 | 10° | 4278.6 | 4194.5 | 3902.2 | 3443.9 | 2951.9 | 2518.8 | 2127.7 | 1856.5 | 1705.1 | 1633.6 |
| 4337.4 | 12.5° | 4314.3 | 4192.4 | 3738.2 | 3080.1 | 2413.7 | 1883.8 | 1520.1 | 1385.5 | 1343.5 | 1328.8 |
| 4408.9 | 15° | 4381.6 | 4198.7 | 3532.2 | 2663.9 | 1877.5 | 1423.4 | 1290.9 | 1288.8 | 1297.2 | 1293.0 |
| 4518.2 | 17.5° | 4474.1 | 4205.0 | 3298.8 | 2222.3 | 1448.6 | 1255.2 | 1248.9 | 1267.8 | 1280.4 | 1274.1 |
| 4654.9 | 20° | 4593.9 | 4230.2 | 3050.7 | 1785.0 | 1244.7 | 1213.1 | 1227.9 | 1244.7 | 1255.2 | 1244.7 |
| 4837.8 | 22.5° | 4762.1 | 4274.4 | 2779.5 | 1433.9 | 1179.5 | 1187.9 | 1200.5 | 1219.4 | 1230.0 | 1215.2 |
| 5071.2 | 25° | 4968.2 | 4343.7 | 2512.5 | 1246.8 | 1148.0 | 1158.5 | 1177.4 | 1198.4 | 1211.0 | 1196.3 |
| 5365.6 | 27.5° | 5235.2 | 4455.2 | 2266.5 | 1204.7 | 1116.4 | 1122.7 | 1150.1 | 1181.6 | 1198.4 | 1179.5 |
| 5783.9 | 30° | 5622.1 | 4638.1 | 2054.1 | 1223.6 | 1097.5 | 1082.8 | 1120.6 | 1164.8 | 1183.7 | 1166.9 |
| 6353.7 | 32.5° | 6135.1 | 4896.7 | 1923.8 | 1253.1 | 1089.1 | 1036.5 | 1072.3 | 1129.0 | 1160.6 | 1150.1 |
| 7098.0 | 35° | 6807.9 | 5289.9 | 1873.3 | 1286.7 | 1082.8 | 988.2 | 1013.4 | 1074.4 | 1129.0 | 1139.5 |
| 8035.7 | 37.5° | 7623.6 | 5836.5 | 1888.0 | 1301.4 | 1063.9 | 948.2 | 960.8 | 1013.4 | 1084.9 | 1118.5 |
| 9091.2 | 40° | 8550.8 | 6473.6 | 1972.1 | 1286.7 | 1042.8 | 914.6 | 916.7 | 956.6 | 1019.7 | 1070.2 |
| 10226.5 | 42.5° | 9507.5 | 7217.8 | 2127.7 | 1232.1 | 1023.9 | 885.1 | 878.8 | 906.2 | 948.2 | 984.0 |
| 11359.7 | 45° | 10417.8 | 7983.1 | 2281.2 | 1156.4 | 1000.8 | 855.7 | 841.0 | 851.5 | 859.9 | 874.6 |
| 12463.6 | 47.5° | 11212.6 | 8521.4 | 2237.0 | 1087.0 | 969.2 | 822.1 | 796.8 | 792.6 | 767.4 | 765.3 |
| 13449.6 | 50° | 11761.3 | 8639.1 | 1986.9 | 1017.6 | 923.0 | 784.2 | 744.3 | 719.1 | 674.9 | 653.9 |
| 14187.6 | 52.5° | 11935.8 | 8174.5 | 1623.1 | 948.2 | 847.3 | 733.8 | 677.0 | 637.1 | 582.4 | 563.5 |
| 14612.3 | 55° | 11704.6 | 7264.1 | 1297.2 | 864.1 | 742.2 | 666.5 | 603.4 | 550.9 | 506.7 | 483.6 |
| 14658.6 | 57.5° | 11139.0 | 6105.6 | 1026.0 | 765.3 | 630.7 | 590.8 | 527.7 | 475.2 | 437.3 | 414.2 |
| 14145.5 | 60° | 10201.3 | 4848.3 | 811.6 | 647.6 | 538.2 | 508.8 | 443.6 | 410.0 | 376.3 | 349.0 |
| 12821.0 | 62.5° | 8777.9 | 3460.7 | 637.1 | 513.0 | 449.9 | 416.3 | 378.4 | 353.2 | 313.3 | 275.4 |
| 10438.9 | 65° | 6849.9 | 2117.2 | 492.0 | 376.3 | 361.6 | 344.8 | 321.7 | 298.6 | 250.2 | 212.4 |
| 6810.0 | 67.5° | 4320.6 | 1002.9 | 351.1 | 283.8 | 285.9 | 277.5 | 267.0 | 248.1 | 212.4 | 178.7 |
| 3050.7 | 70° | 1902.8 | 485.7 | 231.3 | 216.6 | 212.4 | 212.4 | 220.8 | 214.5 | 180.8 | 149.3 |
| 1059.7 | 72.5° | 647.6 | 260.7 | 172.4 | 164.0 | 153.5 | 151.4 | 185.0 | 178.7 | 145.1 | 115.6 |
| 527.7 | 75° | 338.5 | 174.5 | 126.1 | 117.7 | 92.5 | 111.4 | 147.2 | 138.8 | 103.0 | 75.7 |
| 349.0 | 77.5° | 220.8 | 124.0 | 86.2 | 75.7 | 52.6 | 73.6 | 109.3 | 96.7 | 61.0 | 37.8 |
| 229.2 | 80° | 138.8 | 82.0 | 50.5 | 35.7 | 25.2 | 39.9 | 58.9 | 42.0 | 23.1 | 8.4 |
| 134.6 | 82.5° | 73.6 | 42.0 | 18.9 | 12.6 | 10.5 | 12.6 | 14.7 | 10.5 | 4.2 | 0.0 |
| 69.4 | 85° | 29.4 | 14.7 | 6.3 | 4.2 | 2.1 | 0.0 | 4.2 | 2.1 | 0.0 | 0.0 |
| 12.6 | 87.5° | 10.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 4158.7 |
| 3885.4 |
| 3252.6 |
| 2424.2 |
| 1635.7 |
| 1324.6 |
| 1290.9 |
| 1272.0 |
| 1242.6 |
| 1213.1 |
| 1194.2 |
| 1179.5 |
| 1164.8 |
| 1150.1 |
| 1139.5 |
| 1126.9 |
| 1087.0 |
| 998.7 |
| 883.0 |
| 763.2 |
| 656.0 |
| 561.4 |
| 483.6 |
| 410.0 |
| 342.7 |
| 269.1 |
| 206.0 |
| 174.5 |
| 143.0 |
| 109.3 |
| 69.4 |
| 33.6 |
| 6.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)