

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: P956186

Luminaire Tested: **GALN-SB8D-930-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-930-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58009 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

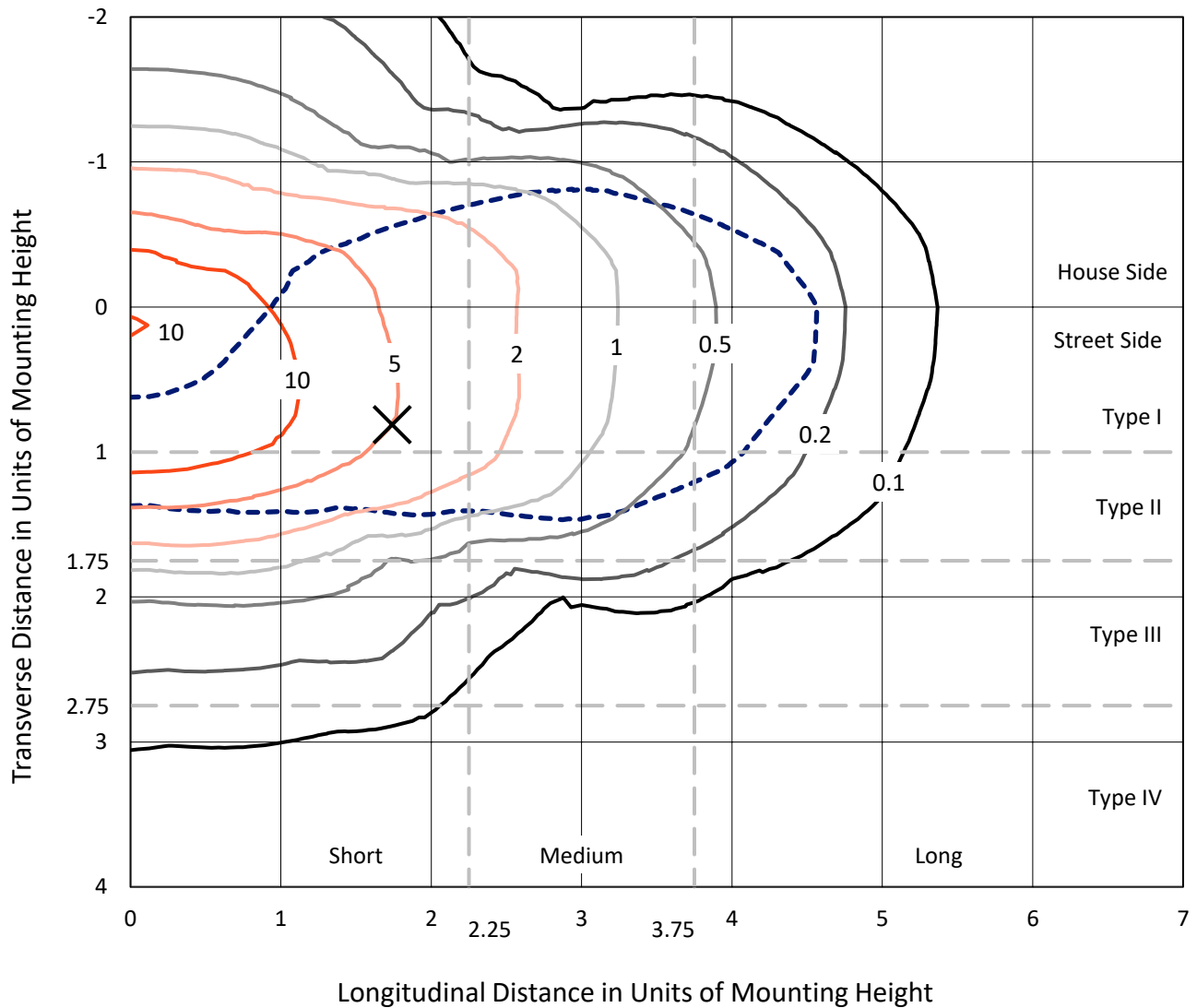
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956186
 CATALOG NUMBER: GALN-SB8D-930-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

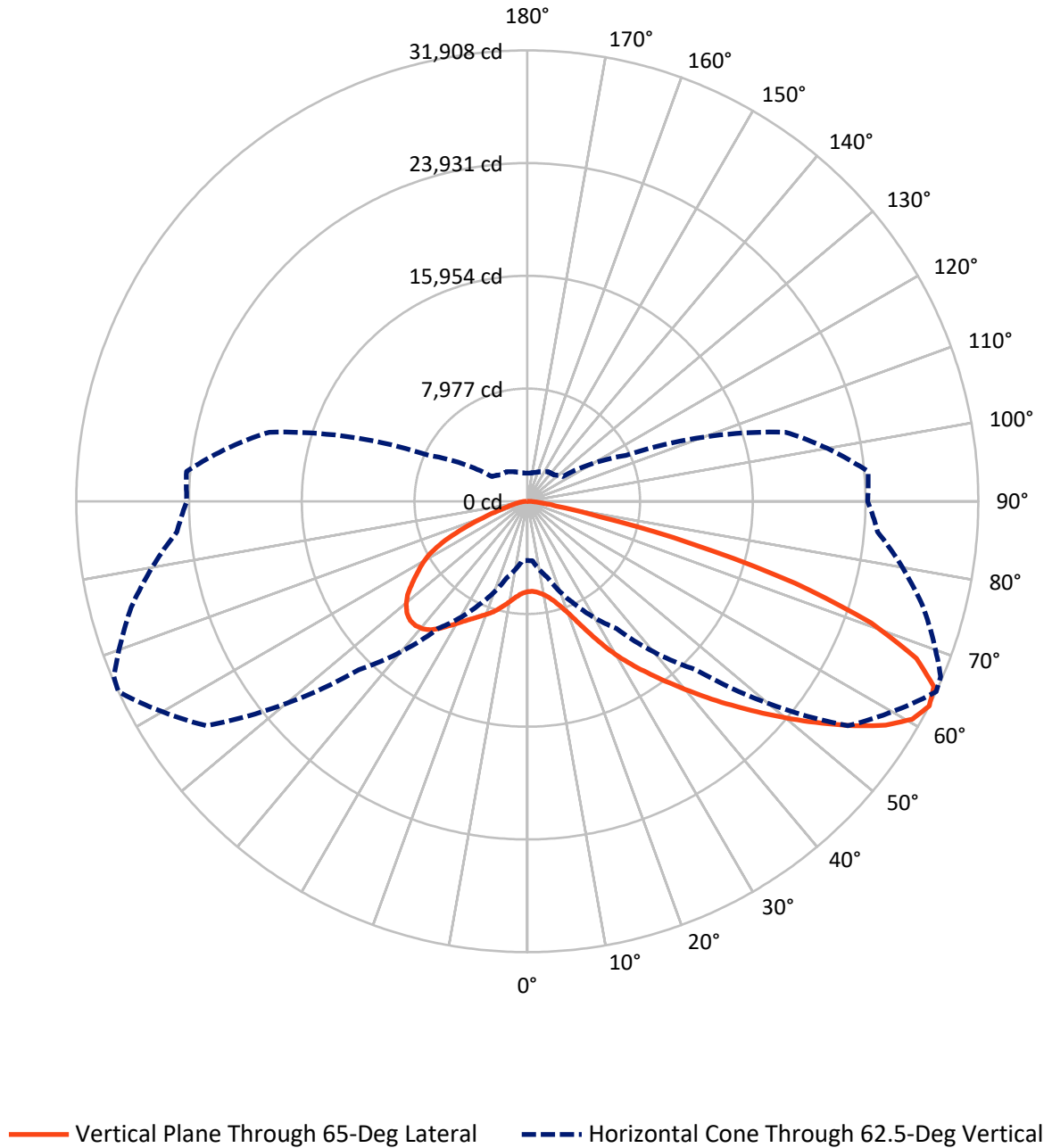
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

REPORT NUMBER: P956186
CATALOG NUMBER: GALN-SB8D-930-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P956186
 CATALOG NUMBER: GALN-SB8D-930-U-T2U

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18305.1 | 0.0 | 18305.1 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 39703.9 | 0.0 | 39703.9 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 58009.0 | 0.0 | 58009.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 637.3 | 1.1 |
| 10°-20° | 2161.2 | 3.7 |
| 20°-30° | 4382.0 | 7.6 |
| 30°-40° | 7583.0 | 13.1 |
| 40°-50° | 11475.4 | 19.8 |
| 50°-60° | 13454.2 | 23.2 |
| 60°-70° | 11279.7 | 19.4 |
| 70°-80° | 6227.3 | 10.7 |
| 80°-90° | 808.9 | 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° | 58009.0 | 100.0 |
| 0°-180° | 58009.0 | 100.0 |

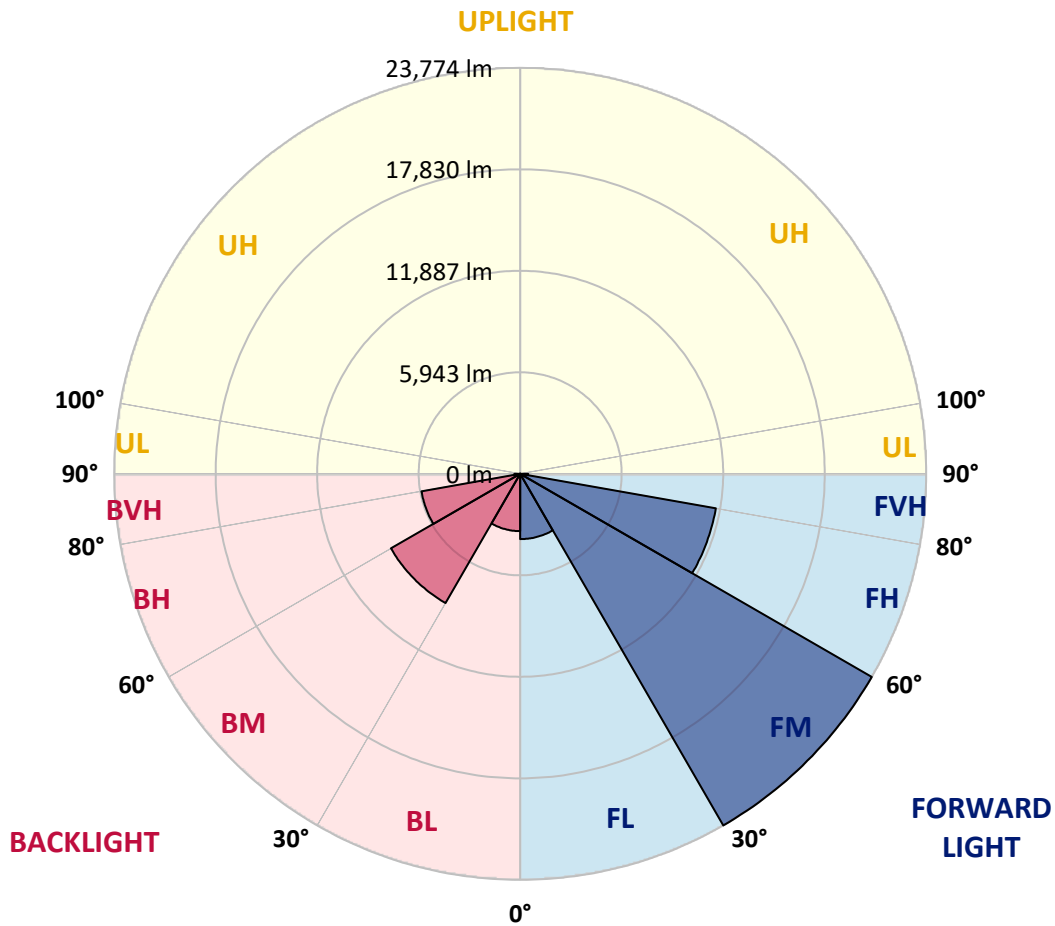


REPORT NUMBER: P956186
 CATALOG NUMBER: GALN-SB8D-930-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3823.6 | 6.6 | | | |
| FM (30°-60°) | 23774.0 | 41.0 | | | |
| FH (60°-80°) | 11634.9 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 471.4 | 0.8 | | | G3/500 |
| BL (0°-30°) | 3356.9 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 8738.6 | 15.1 | B5 | | |
| BH (60°-80°) | 5872.1 | 10.1 | B5 | | G5 |
| BVH (80°-90°) | 337.4 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short



REPORT NUMBER: P956186
 CATALOG NUMBER: GALN-SB8D-930-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 |
| 2.5° | 6350.2 | 6332.1 | 6347.2 | 6347.2 | 6353.2 | 6350.2 | 6371.3 | 6377.3 | 6386.3 | 6404.4 |
| 5° | 6287.0 | 6284.0 | 6311.1 | 6335.2 | 6359.2 | 6380.3 | 6407.4 | 6446.5 | 6452.5 | 6473.6 |
| 7.5° | 6265.9 | 6247.9 | 6290.0 | 6320.1 | 6377.3 | 6428.5 | 6500.7 | 6566.9 | 6594.0 | 6603.0 |
| 10° | 6428.5 | 6398.4 | 6437.5 | 6455.5 | 6503.7 | 6554.9 | 6639.1 | 6744.5 | 6774.6 | 6810.7 |
| 12.5° | 6705.3 | 6672.2 | 6729.4 | 6756.5 | 6801.6 | 6846.8 | 6904.0 | 7006.3 | 7021.3 | 7087.6 |
| 15° | 7084.5 | 7045.4 | 7081.5 | 7114.6 | 7189.9 | 7232.0 | 7289.2 | 7388.5 | 7388.5 | 7439.7 |
| 17.5° | 7599.2 | 7548.0 | 7575.1 | 7587.1 | 7635.3 | 7698.5 | 7794.8 | 7882.1 | 7927.2 | 7909.2 |
| 20° | 8366.6 | 8303.4 | 8303.4 | 8243.2 | 8225.2 | 8276.3 | 8402.7 | 8523.1 | 8571.3 | 8478.0 |
| 22.5° | 9519.3 | 9429.0 | 9377.8 | 9173.2 | 9091.9 | 9097.9 | 9224.4 | 9371.8 | 9410.9 | 9245.4 |
| 25° | 10985.0 | 10843.5 | 10774.3 | 10473.3 | 10289.7 | 10130.2 | 10229.6 | 10419.2 | 10473.3 | 10268.7 |
| 27.5° | 12450.6 | 12459.6 | 12393.4 | 12032.3 | 11728.3 | 11436.4 | 11385.2 | 11583.9 | 11641.0 | 11409.3 |
| 30° | 14506.2 | 14292.5 | 14166.1 | 13732.7 | 13299.3 | 12890.0 | 12679.3 | 12760.6 | 12775.7 | 12498.8 |
| 32.5° | 16278.8 | 16224.6 | 15953.8 | 15574.6 | 15017.8 | 14376.7 | 14024.6 | 13895.2 | 13871.1 | 13476.9 |
| 35° | 18298.2 | 18268.1 | 17982.2 | 17530.8 | 16928.9 | 16038.0 | 15403.0 | 15032.8 | 15002.7 | 14449.0 |
| 37.5° | 20350.8 | 20350.8 | 20070.9 | 19577.3 | 18954.3 | 17840.8 | 16874.7 | 16287.8 | 16191.5 | 15469.2 |
| 40° | 21988.0 | 21888.6 | 21939.8 | 21732.2 | 21018.9 | 19836.1 | 18508.9 | 17657.2 | 17527.8 | 16661.0 |
| 42.5° | 22917.9 | 22884.8 | 23191.8 | 23423.5 | 23131.6 | 22186.6 | 20308.6 | 19140.9 | 18960.3 | 17973.2 |
| 45° | 23125.6 | 23089.5 | 23637.2 | 24485.9 | 24895.2 | 24507.0 | 22264.8 | 20702.9 | 20483.2 | 19345.6 |
| 47.5° | 22647.1 | 22574.8 | 23378.4 | 24717.7 | 26029.8 | 26713.0 | 24383.6 | 22397.3 | 22078.3 | 20681.8 |
| 50° | 21208.5 | 21139.3 | 22355.1 | 24133.8 | 26412.0 | 28211.8 | 26682.9 | 24194.0 | 23706.4 | 22114.4 |
| 52.5° | 18081.5 | 18114.6 | 20019.7 | 22463.5 | 25909.4 | 29144.7 | 28663.2 | 26087.0 | 25500.1 | 23580.0 |
| 55° | 14084.8 | 14157.0 | 16498.5 | 19189.1 | 23899.0 | 29003.3 | 30014.5 | 28037.2 | 27453.4 | 24958.4 |
| 57.5° | 10085.1 | 10404.1 | 12598.1 | 15261.6 | 20037.8 | 26761.2 | 30309.4 | 29891.1 | 29325.3 | 26463.2 |
| 60° | 6536.8 | 6594.0 | 8851.2 | 11535.7 | 15258.6 | 22776.5 | 29710.5 | 31296.6 | 30854.2 | 27998.1 |
| 62.5° | 4189.3 | 4228.5 | 5603.8 | 8068.7 | 10981.9 | 16850.6 | 27694.1 | 31907.5 | 31772.1 | 29012.3 |
| 65° | 3078.8 | 3048.7 | 3765.0 | 5333.0 | 7397.5 | 10392.1 | 23778.7 | 31612.6 | 31880.4 | 29647.3 |
| 67.5° | 2570.2 | 2528.0 | 2880.2 | 3692.8 | 5450.3 | 5901.8 | 17594.0 | 29695.5 | 30676.6 | 29575.1 |
| 70° | 2341.5 | 2305.3 | 2519.0 | 2741.7 | 4252.5 | 3951.6 | 8869.2 | 25816.1 | 27327.0 | 28753.5 |
| 72.5° | 1983.3 | 1920.1 | 2212.0 | 2434.7 | 3307.5 | 3030.6 | 3665.7 | 19830.1 | 21672.0 | 26120.1 |
| 75° | 1537.9 | 1495.8 | 1745.6 | 2142.8 | 2485.9 | 2365.5 | 2317.4 | 12041.3 | 14051.7 | 20200.3 |
| 77.5° | 1218.9 | 1161.7 | 1390.4 | 1670.3 | 2236.1 | 1784.7 | 1688.4 | 5185.5 | 7177.8 | 12896.0 |
| 80° | 917.9 | 866.8 | 1056.4 | 1321.2 | 1718.5 | 1345.3 | 1092.5 | 2115.7 | 2705.6 | 6533.8 |
| 82.5° | 653.1 | 607.9 | 737.3 | 969.1 | 1155.7 | 1206.8 | 671.1 | 1185.8 | 1333.2 | 2519.0 |
| 85° | 418.3 | 391.2 | 493.6 | 607.9 | 734.3 | 776.5 | 409.3 | 620.0 | 680.2 | 1038.3 |
| 87.5° | 228.7 | 186.6 | 264.8 | 282.9 | 340.1 | 310.0 | 195.6 | 225.7 | 243.8 | 376.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P956186
 CATALOG NUMBER: GALN-SB8D-930-U-T2U

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 6392.3 | 0° | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 | 6392.3 |
| 6404.4 | 2.5° | 6416.4 | 6425.4 | 6455.5 | 6464.6 | 6485.6 | 6512.7 | 6530.8 | 6548.8 | 6548.8 | 6566.9 |
| 6500.7 | 5° | 6503.7 | 6524.8 | 6588.0 | 6621.1 | 6675.2 | 6729.4 | 6762.5 | 6801.6 | 6825.7 | 6837.8 |
| 6654.2 | 7.5° | 6672.2 | 6705.3 | 6795.6 | 6852.8 | 6946.1 | 7021.3 | 7072.5 | 7126.7 | 7138.7 | 7171.8 |
| 6867.9 | 10° | 6901.0 | 6940.1 | 7042.4 | 7150.8 | 7262.1 | 7355.4 | 7403.6 | 7442.7 | 7457.7 | 7463.7 |
| 7141.7 | 12.5° | 7162.8 | 7220.0 | 7352.4 | 7484.8 | 7602.2 | 7683.4 | 7695.5 | 7686.5 | 7644.3 | 7608.2 |
| 7478.8 | 15° | 7484.8 | 7536.0 | 7683.4 | 7827.9 | 7942.3 | 7957.3 | 7882.1 | 7833.9 | 7782.8 | 7773.7 |
| 7855.0 | 17.5° | 7870.0 | 7897.1 | 8032.6 | 8174.0 | 8183.0 | 8131.9 | 8020.5 | 7975.4 | 7927.2 | 7894.1 |
| 8345.6 | 20° | 8318.5 | 8309.4 | 8405.7 | 8465.9 | 8402.7 | 8246.2 | 8077.7 | 8002.5 | 7954.3 | 7915.2 |
| 8947.5 | 22.5° | 8854.2 | 8785.0 | 8772.9 | 8757.9 | 8589.3 | 8261.3 | 8032.6 | 7936.3 | 7861.0 | 7806.8 |
| 9787.1 | 25° | 9633.7 | 9368.8 | 9185.2 | 9082.9 | 8703.7 | 8180.0 | 7888.1 | 7674.4 | 7533.0 | 7439.7 |
| 10813.4 | 27.5° | 10608.8 | 10163.3 | 9699.9 | 9450.1 | 8703.7 | 8014.5 | 7539.0 | 7192.9 | 6961.2 | 6864.8 |
| 11806.6 | 30° | 11538.7 | 11072.2 | 10389.1 | 9892.5 | 8682.6 | 7743.6 | 6976.2 | 6494.7 | 6223.8 | 6127.5 |
| 12655.3 | 32.5° | 12333.2 | 11824.6 | 11120.4 | 10377.0 | 8631.5 | 7304.2 | 6278.0 | 5745.3 | 5483.4 | 5369.1 |
| 13494.9 | 35° | 13070.6 | 12528.9 | 11854.7 | 10909.7 | 8496.0 | 6660.2 | 5510.5 | 5104.2 | 4812.3 | 4628.7 |
| 14349.7 | 37.5° | 13826.0 | 13181.9 | 12549.9 | 11391.2 | 8252.3 | 5907.8 | 4920.7 | 4574.6 | 4231.5 | 3984.7 |
| 15258.6 | 40° | 14647.6 | 13877.2 | 13293.3 | 11677.2 | 7852.0 | 5191.5 | 4463.2 | 4147.2 | 3783.0 | 3521.2 |
| 16305.9 | 42.5° | 15607.7 | 14710.8 | 14120.9 | 11824.6 | 7304.2 | 4682.9 | 4165.3 | 3855.3 | 3512.2 | 3298.5 |
| 17428.5 | 45° | 16609.9 | 15628.7 | 14876.3 | 11821.6 | 6693.3 | 4445.1 | 4068.9 | 3762.0 | 3382.8 | 3160.1 |
| 18581.1 | 47.5° | 17660.2 | 16588.8 | 15529.4 | 11629.0 | 6163.6 | 4478.2 | 4014.8 | 3560.3 | 3142.0 | 2925.3 |
| 19745.8 | 50° | 18713.5 | 17639.1 | 16161.4 | 11267.9 | 5937.9 | 4406.0 | 3813.1 | 3277.4 | 2783.9 | 2588.2 |
| 20838.3 | 52.5° | 19757.9 | 18755.7 | 16706.2 | 10753.2 | 5709.2 | 4138.2 | 3554.3 | 2910.3 | 2636.4 | 2501.0 |
| 21966.9 | 55° | 20808.2 | 19860.2 | 17299.0 | 10003.8 | 5137.3 | 3825.2 | 3120.9 | 2771.8 | 2519.0 | 2395.6 |
| 23071.4 | 57.5° | 21861.6 | 21136.3 | 17861.8 | 9254.4 | 4418.1 | 3439.9 | 2883.2 | 2603.3 | 2401.6 | 2296.3 |
| 23995.4 | 60° | 22957.0 | 22595.9 | 18442.7 | 8565.3 | 3707.8 | 2946.4 | 2708.6 | 2467.9 | 2263.2 | 2145.8 |
| 24883.2 | 62.5° | 24085.6 | 24203.0 | 18897.1 | 7677.4 | 3054.7 | 2645.4 | 2552.1 | 2305.3 | 2106.7 | 1995.3 |
| 25617.5 | 65° | 25223.3 | 25752.9 | 19195.1 | 6446.5 | 2476.9 | 2359.5 | 2383.6 | 2127.8 | 1926.1 | 1829.8 |
| 26156.2 | 67.5° | 26081.0 | 26869.5 | 19110.8 | 4878.5 | 2031.5 | 2088.6 | 2172.9 | 1941.2 | 1751.6 | 1676.3 |
| 26069.0 | 70° | 26177.3 | 26737.1 | 18280.2 | 3340.6 | 1700.4 | 1823.8 | 1938.2 | 1757.6 | 1562.0 | 1507.8 |
| 24841.0 | 72.5° | 24895.2 | 24931.3 | 15965.8 | 2181.9 | 1438.6 | 1601.1 | 1691.4 | 1571.0 | 1381.4 | 1327.2 |
| 21732.2 | 75° | 21533.5 | 20618.6 | 11722.3 | 1438.6 | 1203.8 | 1375.4 | 1459.6 | 1375.4 | 1191.8 | 1203.8 |
| 16260.7 | 77.5° | 16314.9 | 14602.5 | 7117.6 | 1023.3 | 1005.2 | 1155.7 | 1270.0 | 1209.8 | 1053.4 | 1182.8 |
| 8177.0 | 80° | 8405.7 | 7900.1 | 3175.1 | 764.4 | 794.5 | 923.9 | 1044.3 | 966.1 | 833.7 | 794.5 |
| 1826.8 | 82.5° | 1926.1 | 2239.1 | 1252.0 | 547.7 | 574.8 | 665.1 | 797.5 | 725.3 | 598.9 | 505.6 |
| 761.4 | 85° | 674.1 | 737.3 | 553.8 | 343.1 | 337.1 | 415.3 | 541.7 | 484.5 | 406.3 | 325.0 |
| 322.0 | 87.5° | 213.7 | 279.9 | 207.7 | 138.4 | 144.5 | 186.6 | 249.8 | 228.7 | 189.6 | 123.4 |
| 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> |
|-------------|
| 6392.3 |
| 6566.9 |
| 6843.8 |
| 7159.8 |
| 7448.7 |
| 7608.2 |
| 7773.7 |
| 7897.1 |
| 7918.2 |
| 7824.9 |
| 7475.8 |
| 6913.0 |
| 6184.7 |
| 5426.3 |
| 4688.9 |
| 4050.9 |
| 3572.4 |
| 3340.6 |
| 3196.2 |
| 2955.4 |
| 2600.3 |
| 2501.0 |
| 2383.6 |
| 2278.2 |
| 2136.8 |
| 1992.3 |
| 1826.8 |
| 1679.3 |
| 1510.8 |
| 1324.2 |
| 1161.7 |
| 1041.3 |
| 725.3 |
| 499.6 |
| 343.1 |
| 129.4 |
| 0.0 |

F REPORT)