

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: P943892

Luminaire Tested: **GALN-SB8C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53939 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

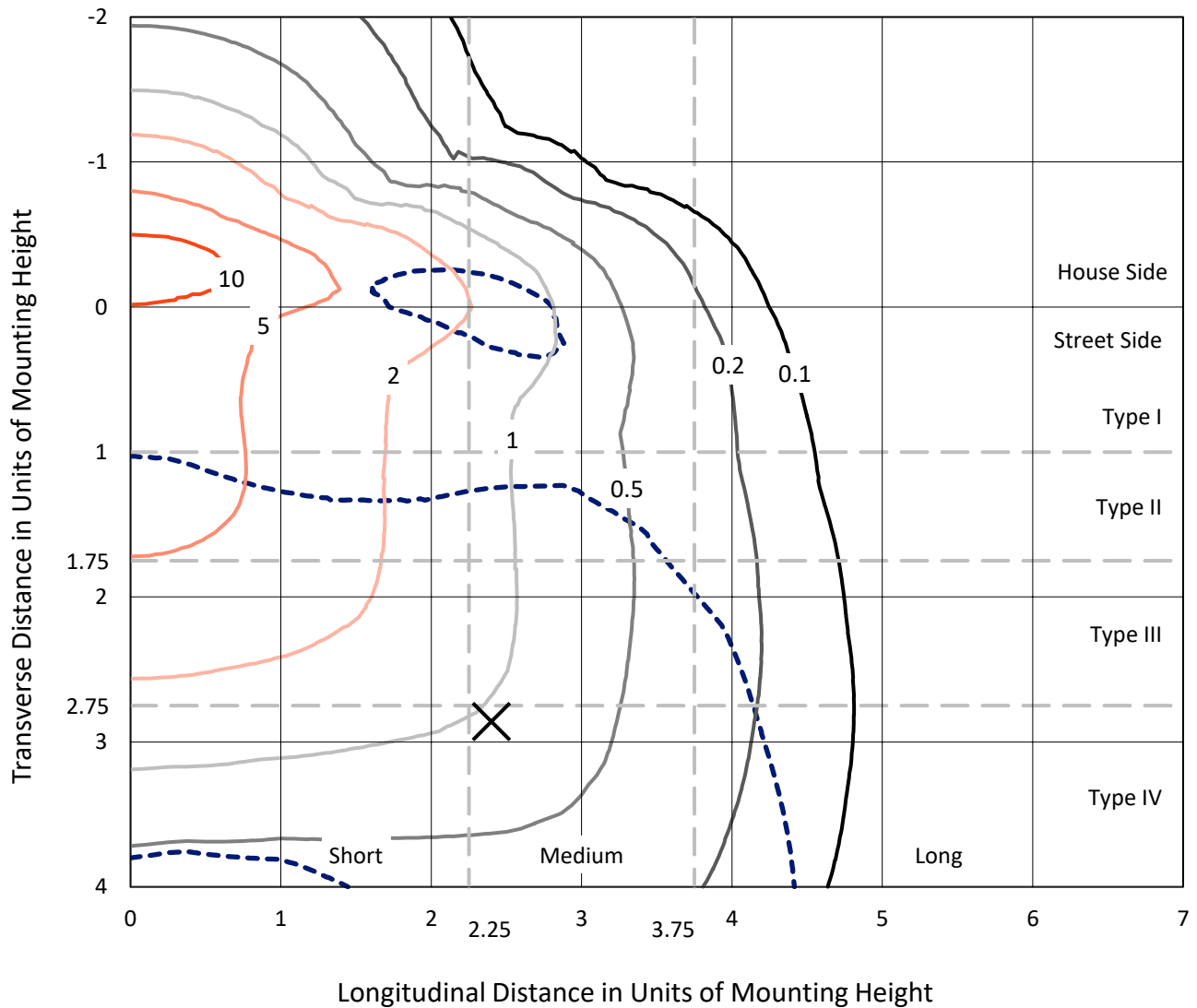
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943892
 CATALOG NUMBER: GALN-SB8C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

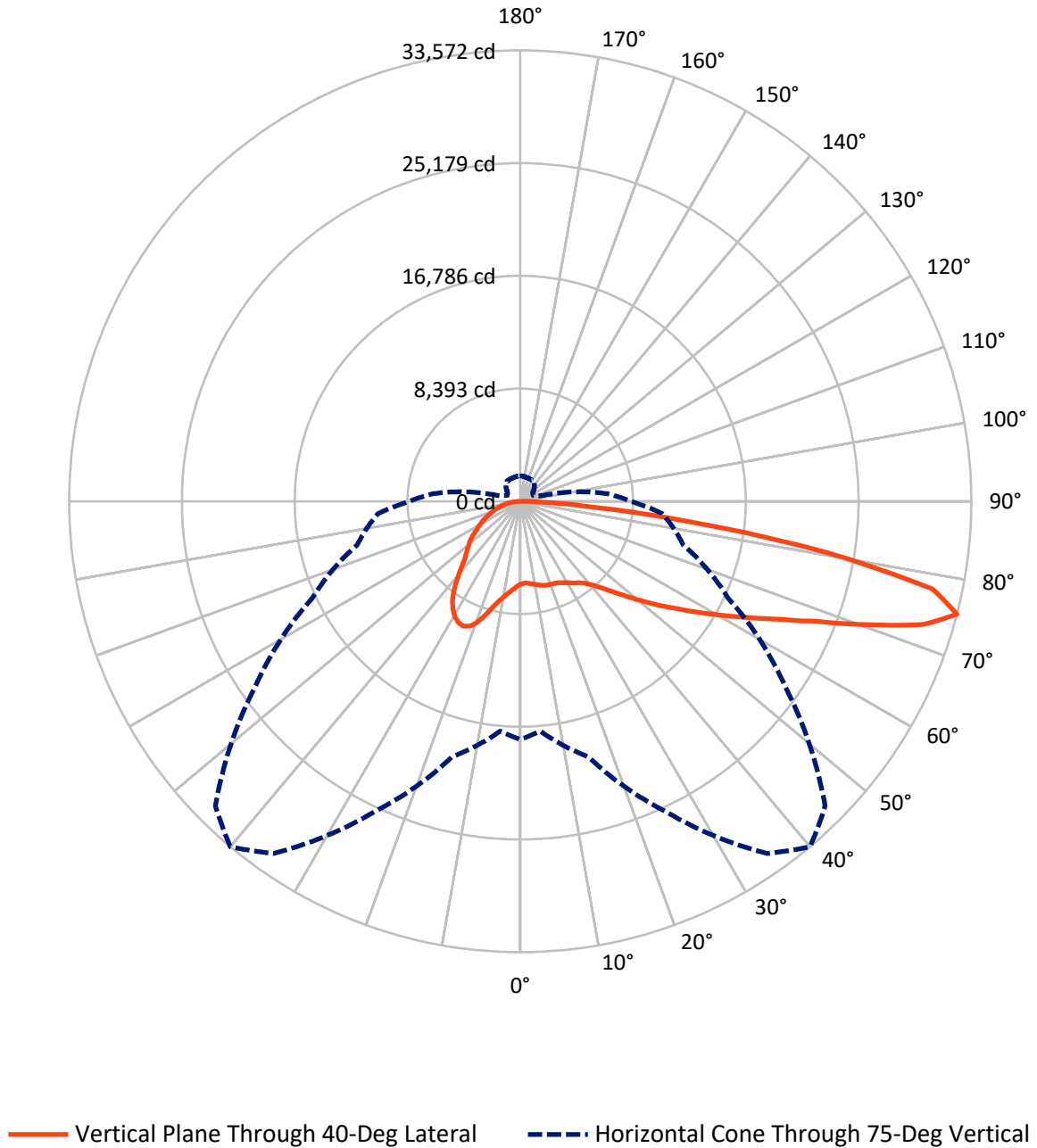
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P943892
CATALOG NUMBER: GALN-SB8C-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P943892
 CATALOG NUMBER: GALN-SB8C-830-U-SL4

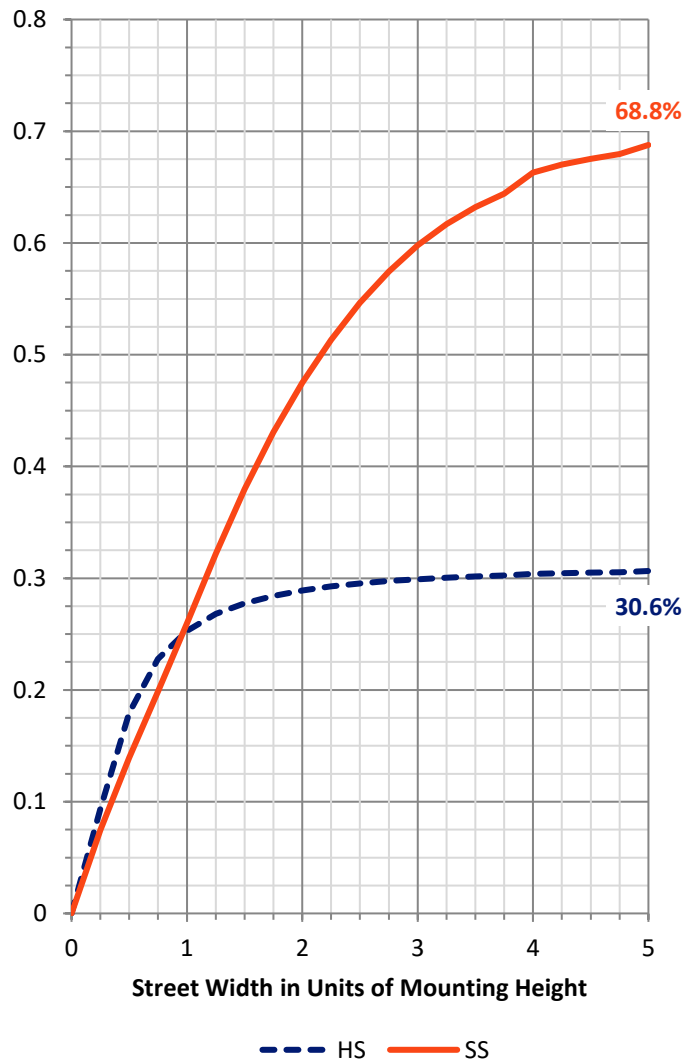
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16712.1 | 0.0 | 16712.1 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 37226.9 | 0.0 | 37226.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 53939.0 | 0.0 | 53939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 615.7 | 1.1 |
| 10°-20° | 2067.1 | 3.8 |
| 20°-30° | 3774.4 | 7.0 |
| 30°-40° | 5353.2 | 9.9 |
| 40°-50° | 7228.4 | 13.4 |
| 50°-60° | 9724.1 | 18.0 |
| 60°-70° | 12342.1 | 22.9 |
| 70°-80° | 11201.2 | 20.8 |
| 80°-90° | 1632.8 | 3.0 |
| 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° | 53939.0 | 100.0 |
| 0°-180° | 53939.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P943892

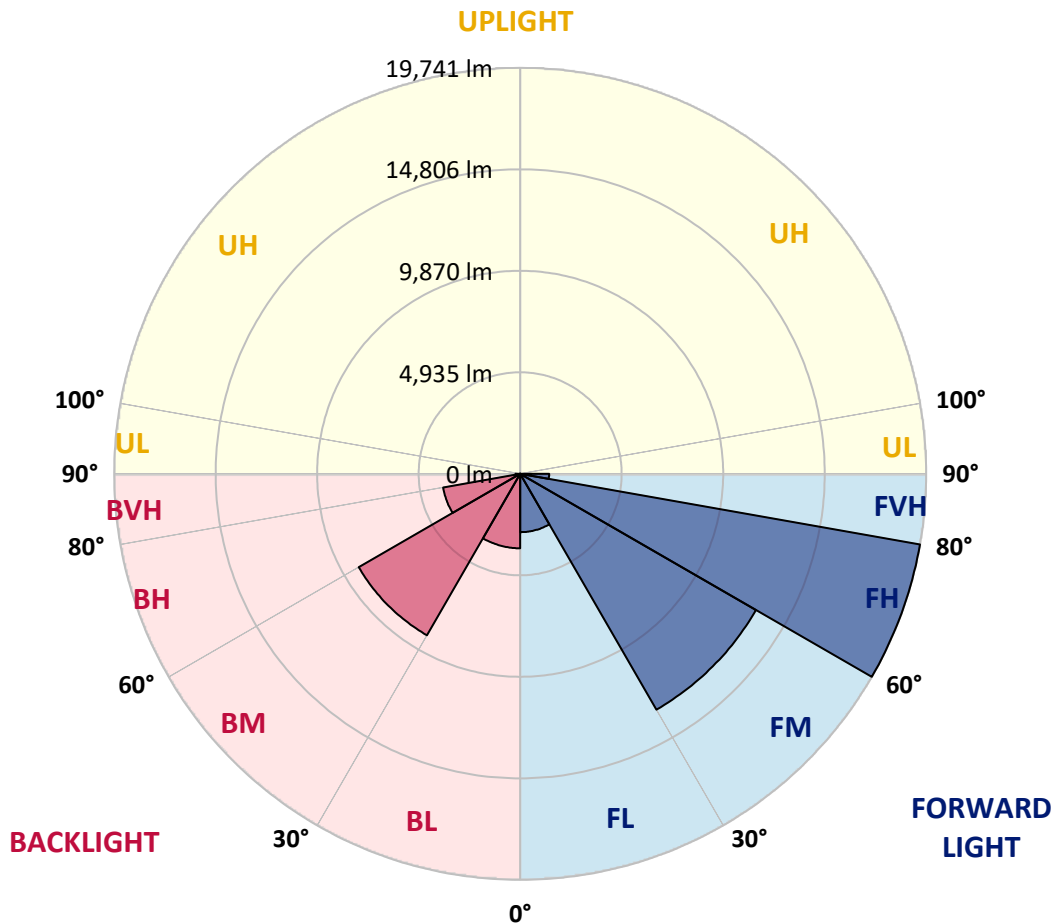
CATALOG NUMBER: GALN-SB8C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2837.2 | 5.3 | | | |
| FM (30°-60°) | 13240.8 | 24.5 | | | |
| FH (60°-80°) | 19740.8 | 36.6 | | | G5 |
| FVH (80°-90°) | 1408.0 | 2.6 | | | G5 |
| BL (0°-30°) | 3620.0 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 9064.8 | 16.8 | B5 | | |
| BH (60°-80°) | 3802.5 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 224.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P943892
 CATALOG NUMBER: GALN-SB8C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 |
| 2.5° | 6073.6 | 6107.9 | 6099.3 | 6087.9 | 6087.9 | 6090.8 | 6087.9 | 6107.9 | 6127.9 | 6148.0 |
| 5° | 6136.5 | 6170.9 | 6153.7 | 6139.4 | 6127.9 | 6125.1 | 6116.5 | 6113.6 | 6125.1 | 6150.8 |
| 7.5° | 6259.5 | 6293.9 | 6268.1 | 6242.4 | 6219.5 | 6208.0 | 6196.6 | 6179.4 | 6170.9 | 6185.2 |
| 10° | 6396.9 | 6431.2 | 6399.7 | 6354.0 | 6316.8 | 6302.5 | 6291.0 | 6273.8 | 6262.4 | 6271.0 |
| 12.5° | 6534.2 | 6568.5 | 6525.6 | 6462.7 | 6414.0 | 6405.4 | 6391.1 | 6385.4 | 6382.6 | 6379.7 |
| 15° | 6662.9 | 6691.5 | 6637.2 | 6562.8 | 6511.3 | 6497.0 | 6482.7 | 6491.3 | 6505.6 | 6522.7 |
| 17.5° | 6763.1 | 6791.7 | 6711.6 | 6614.3 | 6565.7 | 6559.9 | 6551.4 | 6580.0 | 6620.0 | 6662.9 |
| 20° | 6854.6 | 6883.2 | 6780.2 | 6648.6 | 6591.4 | 6591.4 | 6594.3 | 6654.3 | 6711.6 | 6774.5 |
| 22.5° | 6983.3 | 7006.2 | 6880.3 | 6700.1 | 6617.2 | 6622.9 | 6645.8 | 6705.8 | 6777.4 | 6863.2 |
| 25° | 7175.0 | 7192.2 | 7037.7 | 6797.4 | 6703.0 | 6720.1 | 6740.2 | 6768.8 | 6837.4 | 6937.6 |
| 27.5° | 7484.0 | 7498.3 | 7295.2 | 6969.0 | 6826.0 | 6854.6 | 6883.2 | 6863.2 | 6894.7 | 6980.5 |
| 30° | 7918.8 | 7927.4 | 7669.9 | 7238.0 | 7034.8 | 7049.1 | 7054.9 | 6971.9 | 6911.8 | 6980.5 |
| 32.5° | 8433.8 | 8430.9 | 8124.8 | 7564.1 | 7272.3 | 7258.0 | 7209.3 | 7046.3 | 6906.1 | 6966.2 |
| 35° | 9232.0 | 9200.5 | 8805.7 | 8021.8 | 7541.2 | 7452.5 | 7338.1 | 7129.2 | 6934.7 | 6951.9 |
| 37.5° | 10553.7 | 10456.4 | 9910.0 | 8771.4 | 7941.7 | 7715.7 | 7546.9 | 7263.7 | 6997.6 | 6946.1 |
| 40° | 12044.2 | 11921.2 | 11320.4 | 9798.4 | 8542.5 | 8179.2 | 7907.4 | 7455.4 | 7100.6 | 6971.9 |
| 42.5° | 13812.2 | 13637.7 | 12991.1 | 11008.6 | 9303.5 | 8777.1 | 8368.0 | 7698.6 | 7252.3 | 7054.9 |
| 45° | 15983.6 | 15751.9 | 14836.4 | 12373.2 | 10261.9 | 9561.0 | 9014.5 | 8067.6 | 7484.0 | 7215.1 |
| 47.5° | 18177.9 | 18235.1 | 16933.4 | 13935.2 | 11411.9 | 10527.9 | 9824.2 | 8622.6 | 7821.6 | 7472.5 |
| 50° | 20509.4 | 20549.5 | 19018.9 | 15666.0 | 12716.5 | 11620.8 | 10733.9 | 9243.4 | 8290.7 | 7838.7 |
| 52.5° | 22328.9 | 22334.7 | 20912.8 | 17476.9 | 14075.4 | 12822.3 | 11715.2 | 9952.9 | 8834.3 | 8325.1 |
| 55° | 23467.6 | 23453.3 | 22240.3 | 19190.6 | 15637.4 | 14084.0 | 12802.3 | 10759.7 | 9498.0 | 8897.2 |
| 57.5° | 24294.4 | 24251.4 | 23155.7 | 20663.9 | 17302.4 | 15574.5 | 14032.5 | 11675.1 | 10281.9 | 9578.1 |
| 60° | 24609.0 | 24583.3 | 23776.5 | 21937.0 | 19053.3 | 17222.3 | 15451.5 | 12699.3 | 11171.6 | 10382.0 |
| 62.5° | 24729.2 | 24777.8 | 24385.9 | 23170.0 | 20927.1 | 19047.6 | 17010.6 | 13923.8 | 12172.9 | 11291.8 |
| 65° | 25152.6 | 25241.3 | 25161.2 | 24783.6 | 23044.2 | 21184.6 | 19079.0 | 15379.9 | 13265.8 | 12267.3 |
| 67.5° | 25990.8 | 26079.5 | 26113.9 | 26714.6 | 25630.4 | 23848.1 | 21659.5 | 17193.7 | 14544.6 | 13280.1 |
| 70° | 25970.8 | 25945.1 | 26551.6 | 28250.9 | 28868.9 | 27535.7 | 25138.3 | 19425.2 | 16069.4 | 14121.2 |
| 72.5° | 23639.2 | 23433.2 | 24866.5 | 28233.7 | 31563.8 | 31386.4 | 29386.7 | 22303.2 | 17385.4 | 14224.2 |
| 75° | 17734.4 | 17185.1 | 19717.0 | 25444.4 | 32012.9 | 33572.1 | 32087.3 | 24088.4 | 17073.6 | 12567.7 |
| 77.5° | 7584.1 | 7032.0 | 10015.8 | 18835.8 | 28651.4 | 31383.5 | 29609.8 | 21015.8 | 13629.1 | 8310.8 |
| 80° | 1985.4 | 1982.6 | 3026.8 | 8539.6 | 19485.3 | 23175.8 | 20332.1 | 13571.9 | 7787.2 | 2969.6 |
| 82.5° | 821.1 | 801.0 | 1112.9 | 3321.4 | 9520.9 | 13005.4 | 10613.8 | 6053.6 | 2812.2 | 803.9 |
| 85° | 306.1 | 303.3 | 540.7 | 1147.2 | 3358.6 | 5364.1 | 3882.2 | 1547.7 | 700.9 | 391.9 |
| 87.5° | 85.8 | 83.0 | 117.3 | 397.7 | 818.2 | 1241.6 | 663.7 | 254.6 | 197.4 | 154.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943892
 CATALOG NUMBER: GALN-SB8C-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 6168.0 | 0° | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 | 6168.0 |
| 6179.4 | 2.5° | 6188.0 | 6202.3 | 6228.1 | 6248.1 | 6273.8 | 6302.5 | 6342.5 | 6368.3 | 6394.0 | 6411.2 |
| 6193.7 | 5° | 6213.8 | 6245.2 | 6311.0 | 6376.8 | 6454.1 | 6525.6 | 6608.6 | 6668.6 | 6717.3 | 6731.6 |
| 6245.2 | 7.5° | 6271.0 | 6322.5 | 6434.1 | 6545.6 | 6668.6 | 6785.9 | 6906.1 | 7009.1 | 7092.1 | 7123.5 |
| 6336.8 | 10° | 6371.1 | 6439.8 | 6597.1 | 6754.5 | 6917.5 | 7097.8 | 7252.3 | 7401.0 | 7518.3 | 7567.0 |
| 6445.5 | 12.5° | 6497.0 | 6582.8 | 6788.8 | 7006.2 | 7232.2 | 7481.1 | 7681.4 | 7864.5 | 8010.4 | 8076.2 |
| 6597.1 | 15° | 6660.1 | 6771.6 | 7034.8 | 7326.6 | 7658.5 | 8004.7 | 8259.3 | 8462.4 | 8625.5 | 8705.6 |
| 6754.5 | 17.5° | 6837.4 | 6986.2 | 7318.1 | 7758.6 | 8233.5 | 8688.4 | 8985.9 | 9134.7 | 9303.5 | 9380.7 |
| 6900.4 | 20° | 7009.1 | 7192.2 | 7667.1 | 8307.9 | 8940.2 | 9423.6 | 9664.0 | 9704.0 | 9715.5 | 9724.0 |
| 7037.7 | 22.5° | 7186.5 | 7432.5 | 8104.8 | 9000.2 | 9678.3 | 10013.0 | 10047.3 | 9875.7 | 9635.3 | 9523.8 |
| 7172.2 | 25° | 7381.0 | 7707.1 | 8677.0 | 9764.1 | 10313.4 | 10353.4 | 10090.2 | 9672.5 | 9217.7 | 9008.8 |
| 7280.9 | 27.5° | 7569.8 | 8024.7 | 9363.6 | 10493.6 | 10771.1 | 10419.2 | 9852.8 | 9260.6 | 8711.3 | 8491.0 |
| 7358.1 | 30° | 7758.6 | 8388.0 | 10121.7 | 11131.6 | 10979.9 | 10256.2 | 9478.0 | 8817.1 | 8265.0 | 8033.3 |
| 7426.8 | 32.5° | 7950.3 | 8811.4 | 10994.3 | 11592.2 | 10942.8 | 9910.0 | 9011.7 | 8319.4 | 7833.0 | 7589.8 |
| 7486.8 | 35° | 8167.7 | 9332.1 | 11821.0 | 11843.9 | 10693.9 | 9400.8 | 8396.6 | 7724.3 | 7300.9 | 7106.4 |
| 7558.4 | 37.5° | 8451.0 | 9993.0 | 12550.6 | 11906.9 | 10259.0 | 8654.1 | 7632.8 | 7020.5 | 6671.5 | 6582.8 |
| 7664.2 | 40° | 8802.8 | 10788.3 | 13108.4 | 11806.7 | 9615.3 | 7747.2 | 6797.4 | 6308.2 | 6110.8 | 6130.8 |
| 7807.3 | 42.5° | 9260.6 | 11678.0 | 13500.4 | 11549.3 | 8719.9 | 6811.7 | 6065.0 | 5847.6 | 5942.0 | 6022.1 |
| 8021.8 | 45° | 9855.6 | 12602.1 | 13743.5 | 11111.5 | 7707.1 | 6019.2 | 5633.0 | 5684.5 | 5756.0 | 5764.6 |
| 8368.0 | 47.5° | 10616.6 | 13537.6 | 13903.7 | 10450.7 | 6674.4 | 5461.4 | 5358.4 | 5369.8 | 5355.5 | 5295.4 |
| 8885.8 | 50° | 11566.4 | 14447.3 | 14046.8 | 9575.3 | 5796.1 | 5112.3 | 4975.0 | 4935.0 | 4737.6 | 4543.0 |
| 9575.3 | 52.5° | 12647.8 | 15282.7 | 14106.9 | 8488.1 | 5112.3 | 4820.5 | 4597.4 | 4345.6 | 3976.6 | 3916.5 |
| 10442.1 | 55° | 13849.4 | 16055.1 | 13952.4 | 7152.1 | 4537.3 | 4445.8 | 4108.2 | 3804.9 | 3764.9 | 3713.4 |
| 11583.6 | 57.5° | 15285.5 | 16887.6 | 13637.7 | 5661.6 | 3948.0 | 4008.1 | 3679.1 | 3713.4 | 3641.9 | 3561.8 |
| 13051.2 | 60° | 16856.1 | 17748.7 | 13085.5 | 4302.7 | 3338.6 | 3461.6 | 3567.5 | 3564.6 | 3544.6 | 3478.8 |
| 14598.9 | 62.5° | 18269.4 | 18315.2 | 11998.4 | 3295.7 | 2803.6 | 3038.2 | 3327.2 | 3324.3 | 3307.1 | 3270.0 |
| 16215.3 | 65° | 19110.5 | 18229.3 | 10184.6 | 2594.8 | 2363.1 | 2689.2 | 3001.0 | 3023.9 | 3026.8 | 3023.9 |
| 17431.2 | 67.5° | 18961.7 | 17225.2 | 7695.7 | 2065.5 | 1999.7 | 2334.5 | 2677.8 | 2709.2 | 2732.1 | 2737.8 |
| 17585.7 | 70° | 17279.5 | 15019.5 | 5017.9 | 1647.9 | 1676.5 | 2022.6 | 2371.6 | 2403.1 | 2423.1 | 2446.0 |
| 15259.8 | 72.5° | 13468.9 | 11042.9 | 2872.3 | 1333.2 | 1393.2 | 1753.7 | 2068.4 | 2105.6 | 2117.0 | 2159.9 |
| 10619.5 | 75° | 8207.8 | 6494.1 | 1550.6 | 1049.9 | 1144.3 | 1499.1 | 1768.0 | 1810.9 | 1830.9 | 1882.4 |
| 5215.3 | 77.5° | 3902.2 | 2812.2 | 884.0 | 818.2 | 921.2 | 1224.4 | 1493.4 | 1542.0 | 1487.6 | 1516.3 |
| 1439.0 | 80° | 1318.9 | 1044.2 | 557.9 | 623.7 | 703.8 | 955.5 | 1195.8 | 1244.5 | 1130.0 | 1124.3 |
| 477.8 | 82.5° | 460.6 | 423.4 | 354.7 | 414.8 | 454.9 | 683.7 | 904.0 | 967.0 | 841.1 | 838.2 |
| 214.6 | 85° | 180.2 | 171.7 | 197.4 | 226.0 | 271.8 | 420.5 | 595.1 | 626.5 | 517.8 | 417.7 |
| 62.9 | 87.5° | 37.2 | 40.1 | 48.6 | 51.5 | 83.0 | 145.9 | 214.6 | 263.2 | 208.8 | 177.4 |
| 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> |
|-------------|
| 6168.0 |
| 6399.7 |
| 6737.3 |
| 7126.4 |
| 7569.8 |
| 8076.2 |
| 8699.9 |
| 9377.9 |
| 9746.9 |
| 9555.2 |
| 9040.3 |
| 8516.8 |
| 8059.0 |
| 7621.3 |
| 7149.3 |
| 6645.8 |
| 6199.5 |
| 6096.5 |
| 5821.8 |
| 5341.2 |
| 4568.8 |
| 3936.5 |
| 3722.0 |
| 3547.5 |
| 3455.9 |
| 3255.6 |
| 3023.9 |
| 2743.6 |
| 2457.5 |
| 2177.1 |
| 1888.2 |
| 1493.4 |
| 1112.9 |
| 798.2 |
| 412.0 |
| 163.1 |
| 0.0 |

F REPORT)