

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: P954646

Luminaire Tested: **GALN-SB7D-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49628 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

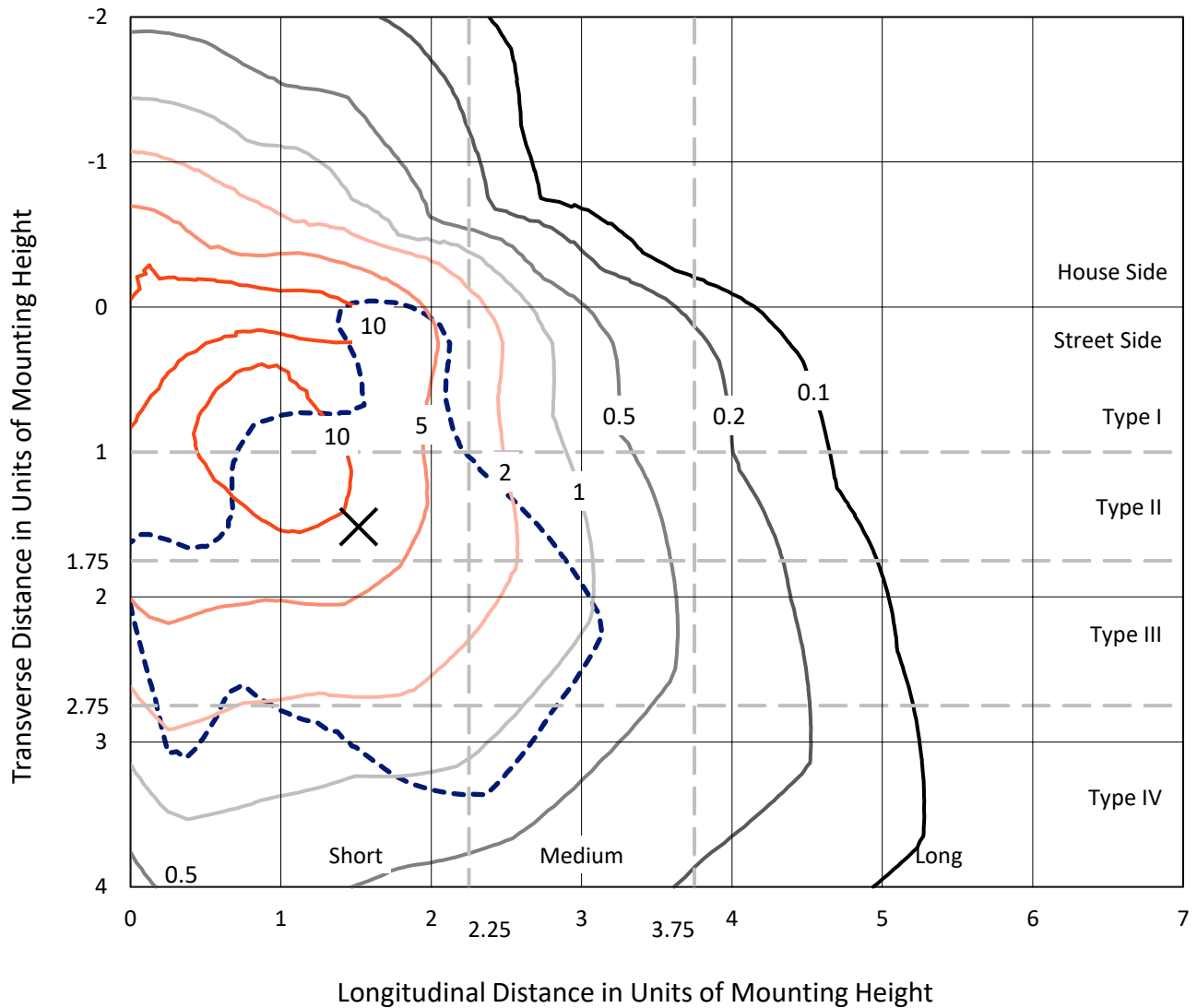
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

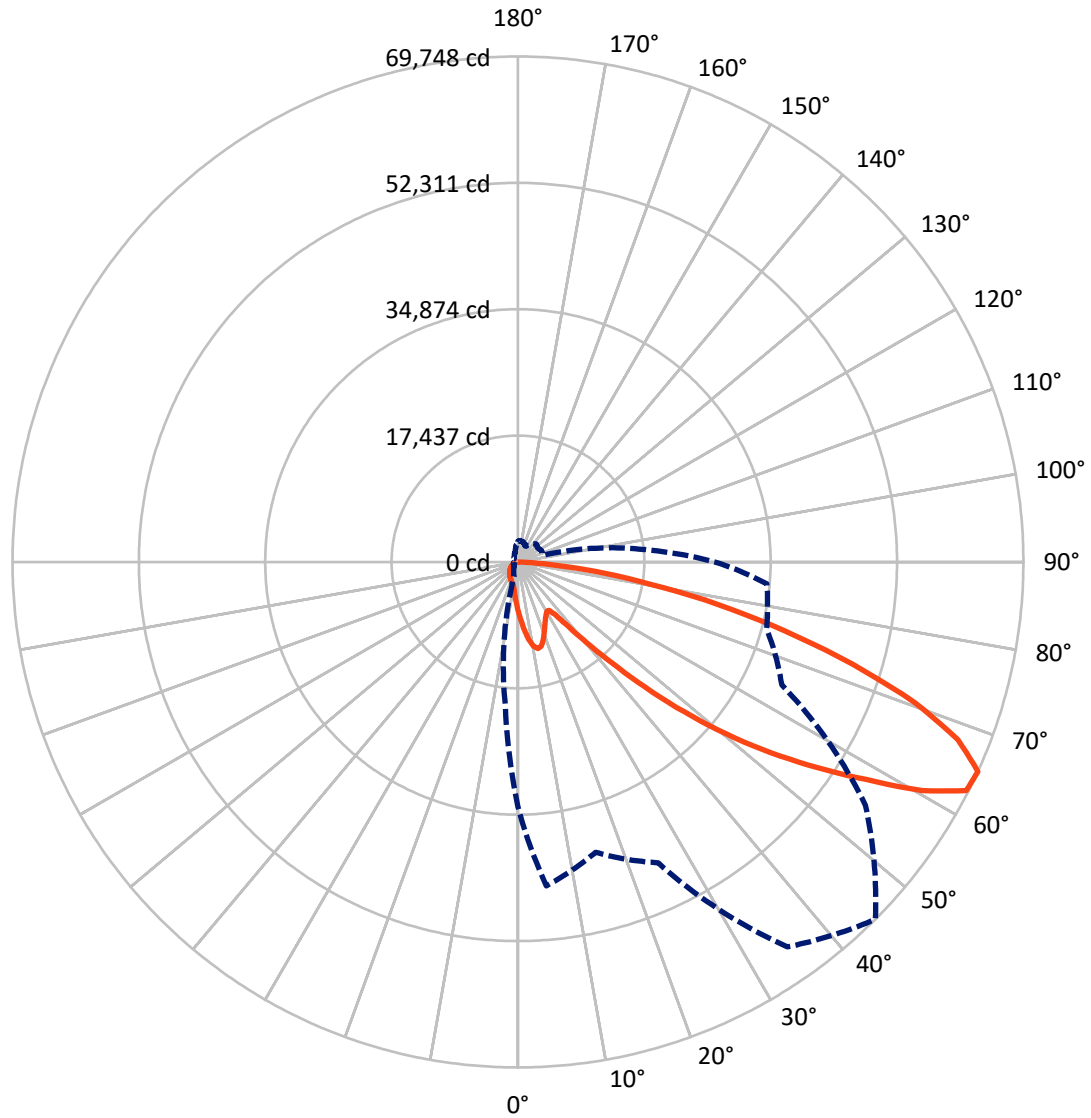
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P954646
CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9864.5	0.0	9864.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	39763.5	0.0	39763.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	49628.0	0.0	49628.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.6	1.4
10°-20°	2028.1	4.1
20°-30°	2987.8	6.0
30°-40°	3838.6	7.7
40°-50°	6208.1	12.5
50°-60°	10886.5	21.9
60°-70°	13622.0	27.4
70°-80°	7960.1	16.0
80°-90°	1420.2	2.9
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°	49628.0	100.0
0°-180°	49628.0	100.0



REPORT NUMBER: P954646

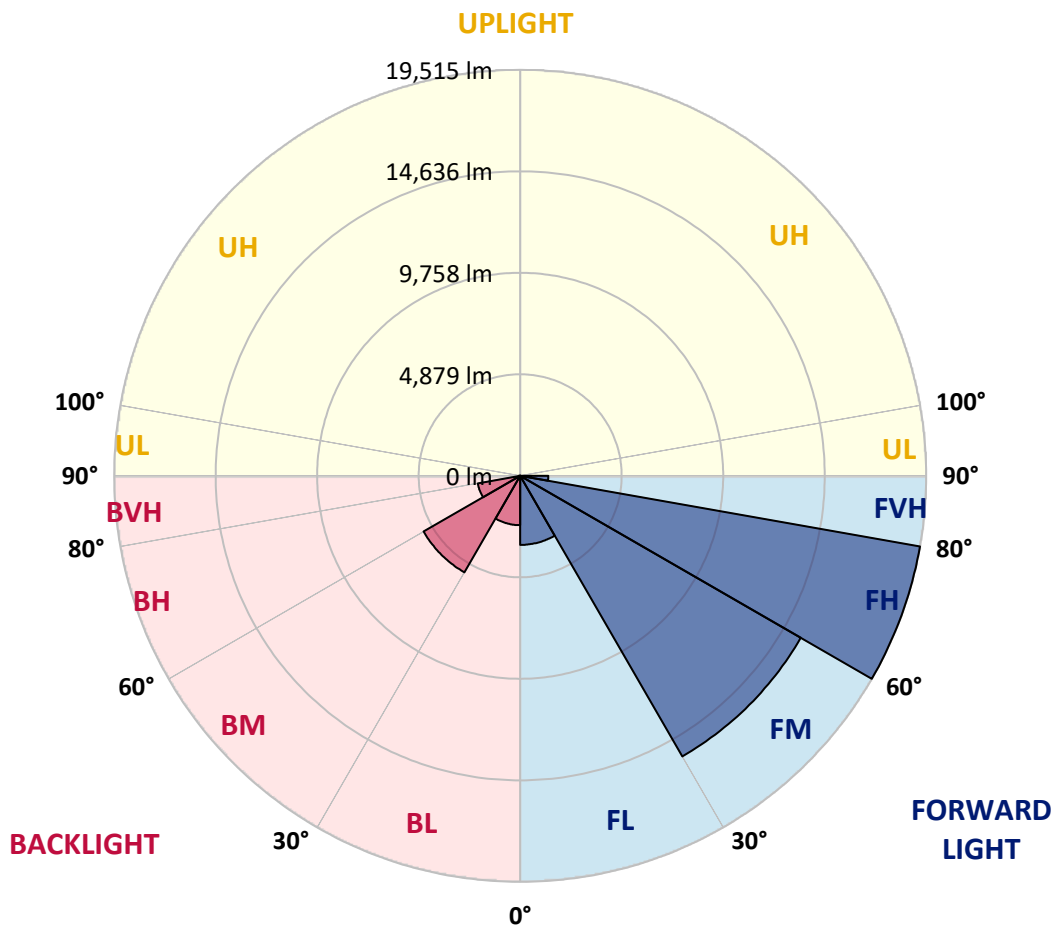
CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3320.7	6.7			
FM (30°-60°)	15573.9	31.4			
FH (60°-80°)	19515.3	39.3			G5
FVH (80°-90°)	1353.7	2.7			G5
BL (0°-30°)	2371.8	4.8	B3/2500		
BM (30°-60°)	5359.3	10.8	B4/8500		
BH (60°-80°)	2066.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	66.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9
2.5°	7699.3	7757.4	7887.3	7955.7	8061.7	8068.5	8068.5	7976.2	7972.8	7784.7
5°	8605.2	8742.0	9049.7	9367.7	9436.0	9453.1	9418.9	9234.3	9097.6	8731.7
7.5°	9504.4	9767.7	10236.0	10660.0	10796.7	10796.7	10714.7	10413.8	10133.5	9603.6
10°	10249.7	10581.3	11217.2	11692.5	11849.7	11815.5	11648.0	11268.5	10882.2	10239.5
12.5°	10742.0	11114.7	11812.1	12195.0	12355.7	12266.8	12075.4	11706.1	11299.3	10622.4
15°	10988.2	11377.9	11983.1	12184.8	12140.3	12048.0	12024.1	11846.3	11538.6	10906.1
17.5°	11094.2	11456.6	11877.1	11750.6	11374.5	11302.7	11542.0	11767.7	11692.5	11152.3
20°	11193.3	11497.6	11624.1	11063.4	10407.0	10342.0	10800.1	11442.9	11771.1	11381.4
22.5°	11330.1	11518.1	11258.3	10338.6	9630.9	9480.5	9986.5	10954.0	11795.0	11672.0
25°	11518.1	11569.4	10854.9	9651.4	8940.3	8789.9	9261.7	10410.4	11754.0	11986.5
27.5°	11743.8	11637.8	10468.5	9077.0	8389.9	8249.7	8721.5	9887.3	11637.8	12301.0
30°	12037.8	11726.7	10085.6	8632.6	7996.7	7894.1	8348.8	9436.0	11494.2	12701.0
32.5°	12335.2	11764.3	9730.0	8372.8	7907.8	7945.4	8318.1	9193.3	11336.9	13083.9
35°	12656.6	11883.9	9555.7	8629.2	8649.7	8977.9	9131.8	9418.9	11313.0	13603.6
37.5°	13094.2	12150.6	9764.2	9904.4	10615.5	11295.9	11169.4	10523.2	11589.9	14379.7
40°	13723.3	12619.0	10673.7	12075.4	13535.2	14639.5	14157.5	12530.1	12437.8	15497.7
42.5°	14639.5	13364.3	12287.3	14728.4	17203.7	19022.5	17730.2	15118.2	13921.6	17094.3
45°	15993.4	14571.1	14239.5	17528.4	21726.8	24591.8	21904.6	17877.2	16000.2	19511.4
47.5°	17870.3	16345.5	16068.6	20478.9	27224.3	30930.3	26533.7	20434.5	18366.1	22807.2
50°	20362.7	18735.3	17802.0	23706.3	33251.7	37392.0	31159.4	22902.9	21077.2	26834.6
52.5°	23651.6	22068.7	19822.5	26779.9	39450.1	43716.8	35805.6	25070.4	24441.4	31508.1
55°	28137.1	27084.1	22584.9	29713.2	45645.1	50079.3	40270.6	27114.9	28885.9	37060.3
57.5°	33703.0	34455.2	26567.9	33115.0	51214.4	56636.7	44756.2	29973.1	34656.9	43269.0
60°	37292.8	44257.0	34195.3	38144.1	57542.7	64052.2	50903.3	35409.0	40721.9	45494.6
62.5°	36424.4	47375.0	43330.5	44564.7	63361.6	69443.7	56927.3	40868.9	41863.8	42216.0
65°	33761.2	44858.7	41467.2	45812.6	64835.1	69748.0	58537.6	40164.7	35511.6	34465.4
67.5°	30096.1	41874.1	37039.8	42503.2	62171.8	65494.9	55539.2	35528.7	27443.1	25863.6
70°	26140.5	38571.5	34133.8	38790.3	57094.8	58082.9	50441.7	31248.3	20184.9	17466.9
72.5°	22386.6	35132.1	32144.0	34985.1	50322.1	48277.6	43805.7	27463.6	14697.6	12598.5
75°	18547.3	30058.5	29309.8	30465.4	41416.0	38027.9	36397.1	22738.8	11535.2	9114.7
77.5°	14311.3	23487.5	25210.6	24396.9	29152.5	28246.5	28212.4	17087.4	8427.5	6082.1
80°	9795.0	16369.5	19696.0	17210.5	18919.9	18458.4	21248.2	11463.4	6112.9	3661.6
82.5°	5757.3	9965.9	13709.6	8331.7	10461.7	10738.6	12653.2	5576.1	3596.6	844.5
85°	2335.1	3935.1	5360.8	3261.6	5046.2	4256.5	4803.5	1565.8	1001.7	20.5
87.5°	588.0	1258.1	882.1	365.8	584.6	536.8	423.9	191.5	41.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6871.9	0°	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9
7764.2	2.5°	7630.9	7552.2	7357.4	7162.5	7005.2	6793.3	6653.1	6485.6	6324.9	6181.3
8653.1	5°	8437.7	8177.9	7822.3	7497.5	7165.9	6844.5	6526.6	6191.5	5883.8	5695.8
9405.3	7.5°	9094.1	8636.0	8164.2	7750.5	7350.5	6974.5	6553.9	6147.1	5665.0	5408.6
9979.6	10°	9583.0	8981.3	8362.5	7887.3	7483.9	7118.0	6762.5	6352.2	5771.0	5449.6
10328.3	12.5°	9904.4	9189.9	8465.1	7921.5	7470.2	7186.4	7029.2	6868.5	6290.7	5914.6
10584.8	15°	10126.6	9336.9	8536.9	7842.8	7289.0	7080.4	7237.7	7422.3	7053.1	6618.9
10851.4	17.5°	10369.4	9528.3	8567.6	7630.9	6936.8	6848.0	7254.8	7682.2	7665.1	7234.3
11104.4	20°	10625.8	9695.9	8547.1	7289.0	6509.5	6588.1	7107.8	7603.5	7812.1	7579.6
11395.0	22.5°	10889.0	9856.5	8468.5	6844.5	6109.5	6355.6	6875.3	7309.5	7555.7	7483.9
11750.6	25°	11220.7	10082.2	8352.3	6365.9	5777.9	6119.7	6605.2	6957.4	7128.3	7124.9
12133.5	27.5°	11617.3	10383.0	8290.7	5979.6	5542.0	5853.1	6283.8	6598.4	6718.0	6718.0
12608.7	30°	12078.8	10738.6	8222.3	5726.6	5405.2	5576.1	5911.2	6218.9	6338.5	6338.5
13128.4	32.5°	12591.6	11080.5	8058.2	5572.7	5302.6	5306.1	5518.0	5798.4	5942.0	5962.5
13778.0	35°	13207.0	11446.3	7699.3	5449.6	5183.0	5042.8	5145.4	5377.9	5548.8	5593.2
14704.5	37.5°	14013.9	11894.2	7186.4	5268.4	4998.4	4765.9	4789.8	4967.6	5155.6	5224.0
15983.1	40°	15097.6	12420.7	6653.1	5008.6	4738.5	4461.6	4451.3	4581.3	4765.9	4841.1
17713.1	42.5°	16530.1	13053.2	6143.7	4759.0	4424.0	4140.2	4123.1	4225.7	4386.4	4465.0
19996.9	45°	18362.6	13829.3	5706.1	4564.2	4116.3	3836.0	3829.1	3914.6	4054.8	4136.8
22920.0	47.5°	20909.7	14605.3	5408.6	4461.6	3873.6	3586.4	3600.0	3675.3	3801.8	3859.9
26704.6	50°	24229.4	14841.2	5258.2	4461.6	3743.6	3364.1	3432.5	3494.1	3589.8	3624.0
31241.5	52.5°	27415.8	14061.7	5121.4	4489.0	3760.7	3176.1	3323.1	3367.6	3449.6	3463.3
35446.6	55°	28978.2	12089.1	4933.4	4495.8	3866.7	3015.4	3234.2	3316.3	3347.1	3343.6
37887.7	57.5°	28441.4	9774.5	4615.4	4468.4	3938.5	2912.9	3124.8	3282.1	3302.6	3271.8
37422.7	60°	26557.6	7196.7	4372.7	4266.7	3911.2	2882.1	2957.3	3206.9	3237.7	3196.6
33839.8	62.5°	23398.6	4994.9	4184.7	3822.3	3791.5	2871.8	2694.1	3042.8	3118.0	3059.9
27200.4	65°	18420.8	3528.3	3603.5	3350.5	3531.7	2817.1	2420.5	2844.5	2947.0	2858.2
19733.6	67.5°	12465.1	2547.0	2919.7	3035.9	3111.2	2694.1	2222.3	2618.8	2755.6	2639.4
12663.4	70°	6731.7	1788.1	1928.2	2557.3	2642.8	2482.1	2044.5	2389.8	2547.0	2420.5
9001.8	72.5°	3976.1	1285.5	1350.4	2054.7	2201.7	2184.6	1846.2	2123.1	2314.6	2164.1
6212.1	75°	2191.5	868.4	964.1	1490.6	1788.1	1685.5	1586.3	1798.3	1993.2	1846.2
3894.1	77.5°	981.2	519.7	670.1	977.8	1405.1	1155.6	1227.4	1401.7	1582.9	1429.1
2167.6	80°	379.5	290.6	444.5	533.3	1022.2	639.3	789.8	1032.5	1162.4	1039.3
471.8	82.5°	47.9	129.9	191.5	208.5	594.9	338.5	458.1	649.6	639.3	553.9
0.0	85°	0.0	23.9	27.4	13.7	256.4	123.1	150.4	212.0	198.3	150.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	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

REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
6871.9	0°	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9
6153.9	2.5°	5986.4	5863.3	5801.8	5750.5	5798.4	5825.7	5825.7	5942.0	6010.3	6037.7
5576.1	5°	5275.3	5046.2	4892.4	4800.1	4830.8	4865.0	4902.6	5049.6	5148.8	5213.7
5176.1	7.5°	4714.6	4365.9	4150.5	4037.7	4054.8	4078.7	4109.5	4253.1	4352.2	4437.7
5100.9	10°	4437.7	3945.4	3661.6	3524.8	3500.9	3487.2	3477.0	3562.4	3637.7	3706.0
5408.6	12.5°	4451.3	3764.2	3418.9	3251.3	3179.5	3097.5	3032.5	3046.2	3094.1	3179.5
5959.1	15°	4625.7	3706.0	3292.4	3083.8	2964.1	2868.4	2789.8	2772.7	2789.8	2803.5
6588.1	17.5°	4861.6	3699.2	3183.0	2923.1	2800.0	2721.4	2649.6	2625.7	2629.1	2646.2
7005.2	20°	5049.6	3678.7	3059.9	2769.3	2659.9	2591.5	2519.7	2495.8	2502.6	2506.0
7046.3	22.5°	5148.8	3647.9	2923.1	2615.4	2523.1	2454.7	2389.8	2386.4	2386.4	2406.9
6824.0	25°	5148.8	3583.0	2800.0	2468.4	2386.4	2324.8	2246.2	2259.9	2266.7	2294.0
6478.7	27.5°	5025.7	3459.9	2700.9	2341.9	2256.4	2194.9	2123.1	2140.2	2150.5	2181.2
6136.8	30°	4868.4	3312.9	2588.1	2222.3	2123.1	2078.7	2017.1	2024.0	2037.6	2071.8
5818.9	32.5°	4700.9	3138.5	2495.8	2102.6	2003.4	1969.3	1900.9	1911.1	1924.8	1962.4
5504.3	35°	4516.3	2933.4	2386.4	1993.2	1894.0	1866.7	1788.1	1794.9	1815.4	1856.4
5165.9	37.5°	4321.4	2765.9	2277.0	1887.2	1784.6	1757.3	1675.2	1682.1	1706.0	1753.9
4810.3	40°	4130.0	2601.7	2160.7	1774.4	1671.8	1647.9	1559.0	1565.8	1593.2	1644.5
4451.3	42.5°	3921.4	2475.2	2010.3	1658.1	1548.7	1524.8	1442.8	1453.0	1483.8	1535.1
4119.7	45°	3671.8	2393.2	1842.8	1548.7	1425.7	1401.7	1326.5	1347.0	1381.2	1432.5
3836.0	47.5°	3415.4	2359.0	1702.6	1432.5	1299.2	1278.7	1217.1	1251.3	1288.9	1329.9
3593.2	50°	3169.3	2314.6	1559.0	1323.1	1189.8	1169.2	1128.2	1172.7	1210.3	1247.9
3418.9	52.5°	2888.9	2218.8	1429.1	1227.4	1097.5	1090.6	1070.1	1111.1	1145.3	1179.5
3268.4	55°	2598.3	2065.0	1316.3	1141.9	1018.8	1025.7	1015.4	1049.6	1076.9	1107.7
3131.7	57.5°	2345.3	1870.1	1227.4	1049.6	950.4	971.0	957.3	974.4	991.5	1029.1
2967.6	60°	2088.9	1637.6	1128.2	940.2	882.1	906.0	868.4	865.0	871.8	882.1
2724.8	62.5°	1743.6	1394.9	1005.1	844.5	806.8	817.1	745.3	690.6	690.6	700.9
2386.4	65°	1401.7	1169.2	868.4	735.1	704.3	697.4	594.9	519.7	512.8	543.6
1993.2	67.5°	1152.2	971.0	731.6	612.0	591.5	598.3	523.1	447.9	441.0	475.2
1624.0	70°	953.9	782.9	584.6	471.8	492.3	523.1	447.9	376.1	365.8	396.6
1319.7	72.5°	759.0	612.0	447.9	348.7	406.8	444.5	365.8	297.4	290.6	318.0
1018.8	75°	557.3	437.6	304.3	253.0	314.5	348.7	266.7	212.0	201.7	225.6
680.4	77.5°	345.3	246.2	191.5	150.4	215.4	232.5	140.2	123.1	119.7	136.8
413.7	80°	160.7	106.0	92.3	51.3	78.6	92.3	58.1	65.0	68.4	82.1
208.5	82.5°	44.4	17.1	3.4	0.0	0.0	27.4	13.7	27.4	34.2	51.3
17.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	17.1	30.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954646
 CATALOG NUMBER: GALN-SB7D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
6871.9	0°	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9	6871.9
6229.1	2.5°	6372.7	6509.5	6728.3	6953.9	7176.2	7401.8	7620.6	7699.3
5511.2	5°	5781.3	6095.8	6530.0	6995.0	7473.6	7959.1	8403.5	8605.2
4769.3	7.5°	5121.4	5572.7	6225.7	6953.9	7716.3	8478.7	9179.6	9504.4
4034.2	10°	4417.2	4988.1	5733.4	6718.0	7812.1	8865.1	9829.2	10249.7
3388.1	12.5°	3747.1	4345.4	5169.3	6348.8	7736.9	9087.3	10246.3	10742.0
2933.4	15°	3186.4	3716.3	4605.2	5911.2	7494.1	9101.0	10444.6	10988.2
2680.4	17.5°	2765.9	3111.2	4030.8	5425.7	7176.2	8974.5	10513.0	11094.2
2543.6	20°	2557.3	2653.0	3285.5	4803.5	6878.7	8854.8	10581.3	11193.3
2434.2	22.5°	2434.2	2458.2	2687.2	4000.1	6523.2	8817.2	10701.0	11330.1
2335.1	25°	2335.1	2341.9	2403.5	3169.3	5979.6	8793.3	10885.6	11518.1
2232.5	27.5°	2235.9	2235.9	2270.1	2553.9	5241.1	8690.7	11124.9	11743.8
2129.9	30°	2136.8	2136.8	2160.7	2259.9	4376.1	8489.0	11412.1	12037.8
2027.4	32.5°	2034.2	2034.2	2054.7	2126.5	3494.1	8236.0	11675.4	12335.2
1921.4	35°	1931.7	1924.8	1952.2	2027.4	2779.5	7914.6	11938.6	12656.6
1815.4	37.5°	1822.2	1818.8	1846.2	1931.7	2400.0	7542.0	12136.9	13094.2
1709.4	40°	1706.0	1706.0	1736.8	1829.1	2290.6	7073.6	12451.5	13723.3
1600.0	42.5°	1600.0	1593.2	1627.4	1740.2	2208.6	6625.7	13015.6	14639.5
1500.9	45°	1497.5	1483.8	1514.6	1654.7	2065.0	6468.5	14068.6	15993.4
1405.1	47.5°	1401.7	1367.5	1394.9	1552.2	1935.1	7056.5	15791.7	17870.3
1319.7	50°	1323.1	1258.1	1282.1	1449.6	1835.9	8331.7	18027.6	20362.7
1241.0	52.5°	1241.0	1155.6	1169.2	1323.1	1747.0	9545.4	20451.6	23651.6
1162.4	55°	1155.6	1059.8	1066.7	1196.6	1620.5	9726.6	22817.4	28137.1
1073.5	57.5°	1059.8	971.0	971.0	1080.4	1528.2	8430.9	24636.2	33703.0
964.1	60°	953.9	895.7	878.6	988.0	1610.3	5948.8	24848.2	37292.8
823.9	62.5°	837.6	806.8	782.9	899.2	1671.8	3524.8	23142.2	36424.4
649.6	65°	704.3	697.4	680.4	988.0	1408.6	2082.1	19866.9	33761.2
553.9	67.5°	591.5	581.2	581.2	1035.9	1070.1	1309.4	15521.6	30096.1
471.8	70°	509.4	471.8	471.8	782.9	649.6	906.0	10837.8	26140.5
389.7	72.5°	427.4	386.3	359.0	625.6	485.5	663.3	6772.7	22386.6
297.4	75°	341.9	311.1	276.9	413.7	362.4	502.6	3935.1	18547.3
188.0	77.5°	246.2	232.5	194.9	304.3	263.3	362.4	2341.9	14311.3
116.2	80°	126.5	129.9	123.1	174.4	177.8	246.2	1333.4	9795.0
75.2	82.5°	75.2	58.1	65.0	85.5	102.6	140.2	502.6	5757.3
54.7	85°	47.9	30.8	30.8	41.0	51.3	54.7	153.8	2335.1
27.4	87.5°	23.9	10.3	13.7	20.5	17.1	13.7	6.8	588.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)