Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P943766

Luminaire Tested: **GALN-SB8B-927-U-T3-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

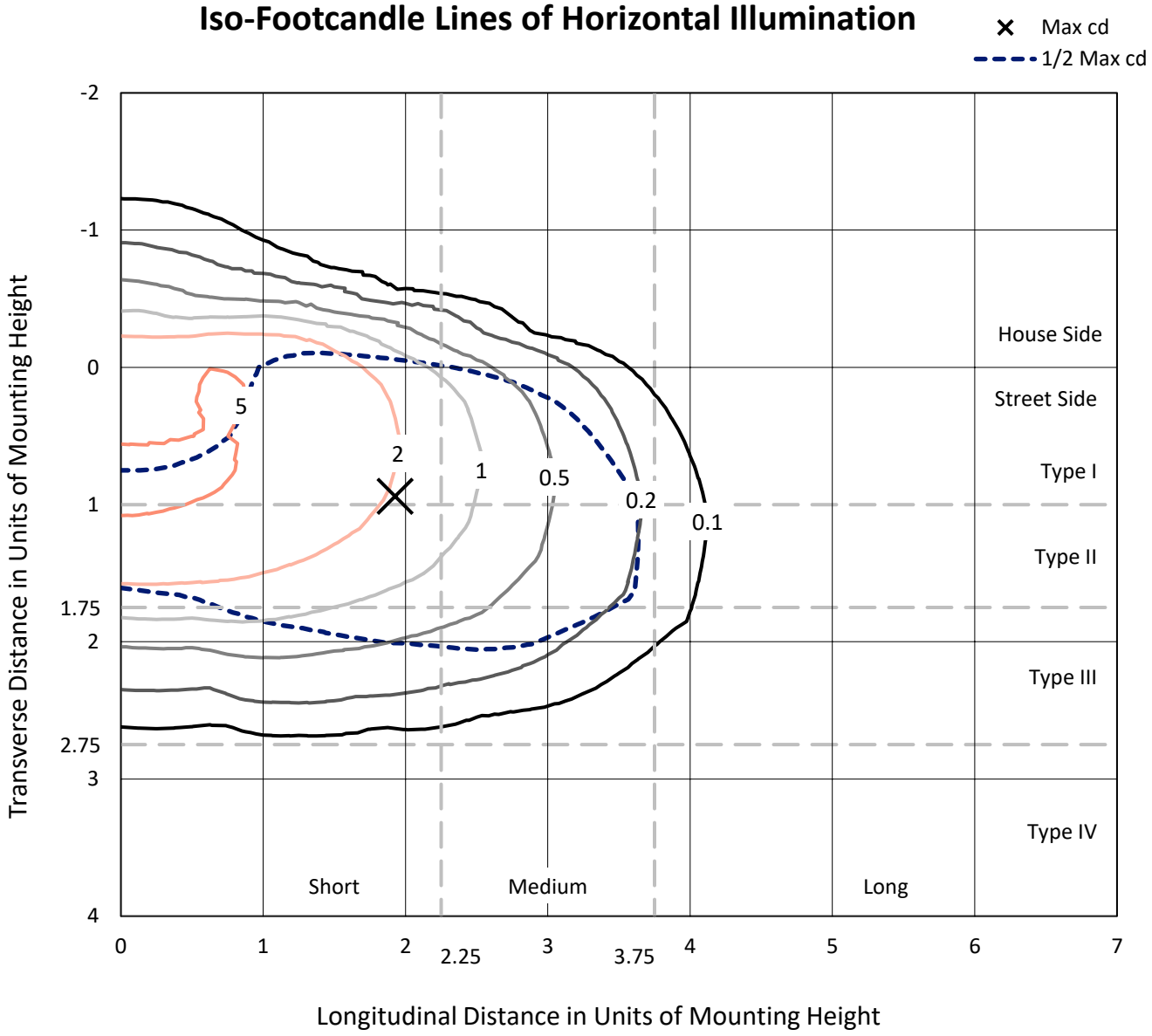
Test Method:	LM-79-08
Report Number:	P943766
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8B-927-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21737 lumens
Efficiency:	N/A
Efficacy:	74.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3
Input Watts (W):	292.8
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: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

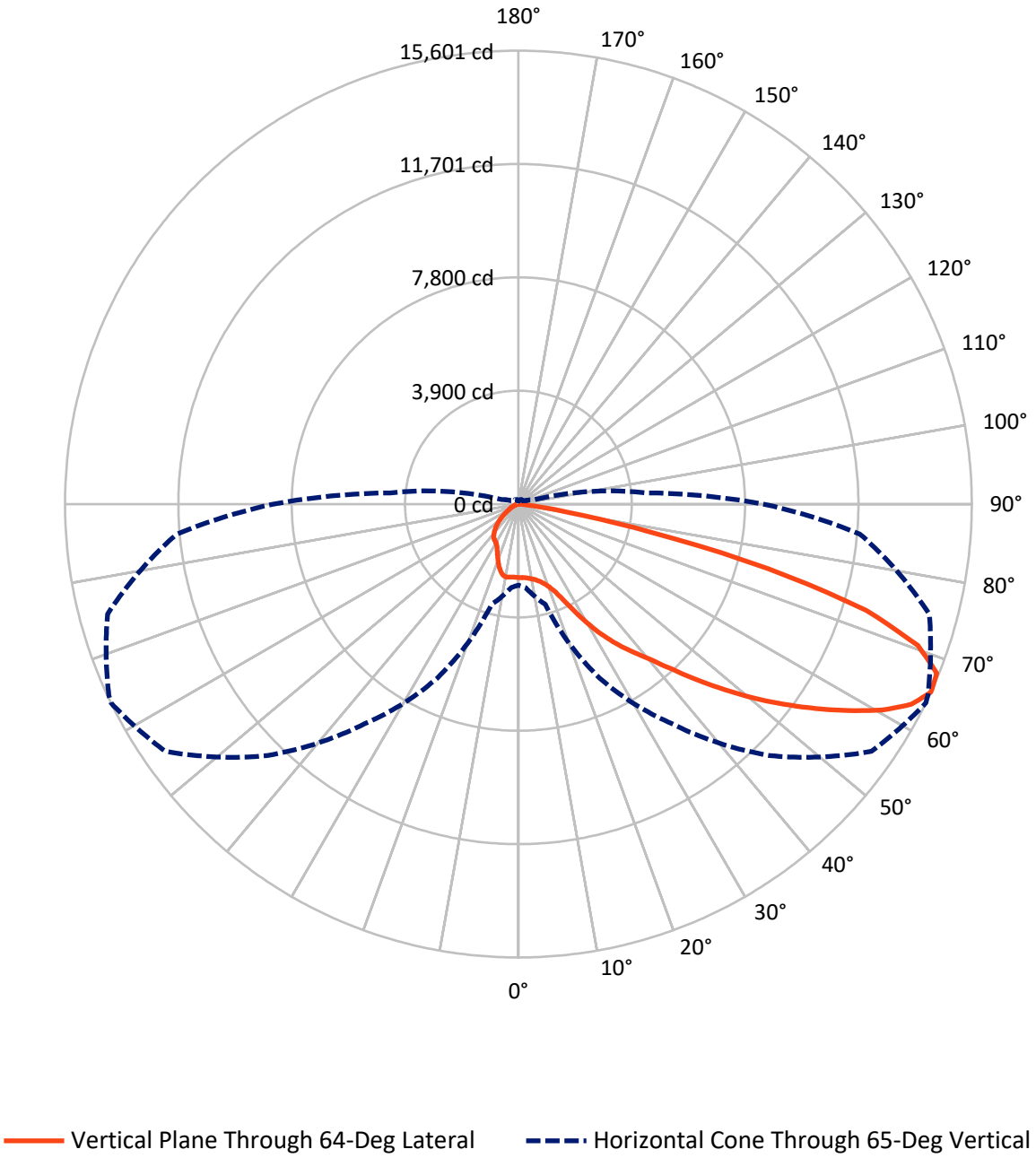
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

REPORT NUMBER: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

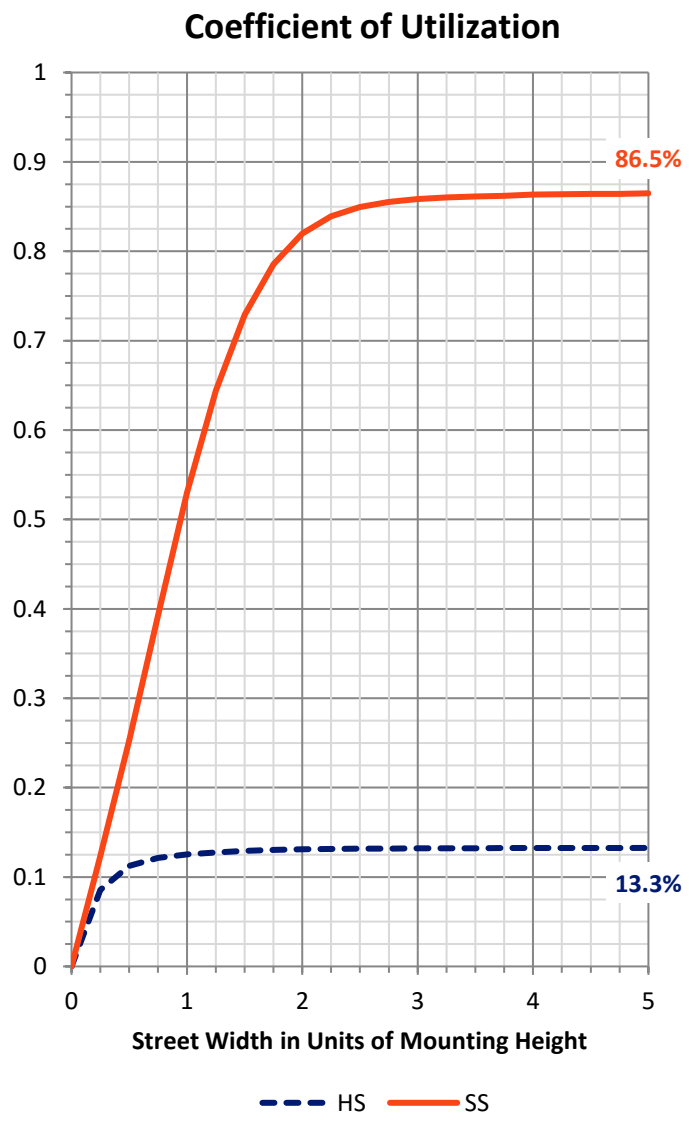
REPORT NUMBER: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2906.9	0.0	2906.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18830.1	0.0	18830.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	21737.0	0.0	21737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.1
10°-20°	632.7	2.9
20°-30°	1198.8	5.5
30°-40°	2425.9	11.2
40°-50°	4132.5	19.0
50°-60°	5619.8	25.9
60°-70°	5277.3	24.3
70°-80°	2114.3	9.7
80°-90°	102.4	0.5
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°	21737.0	100.0
0°-180°	21737.0	100.0

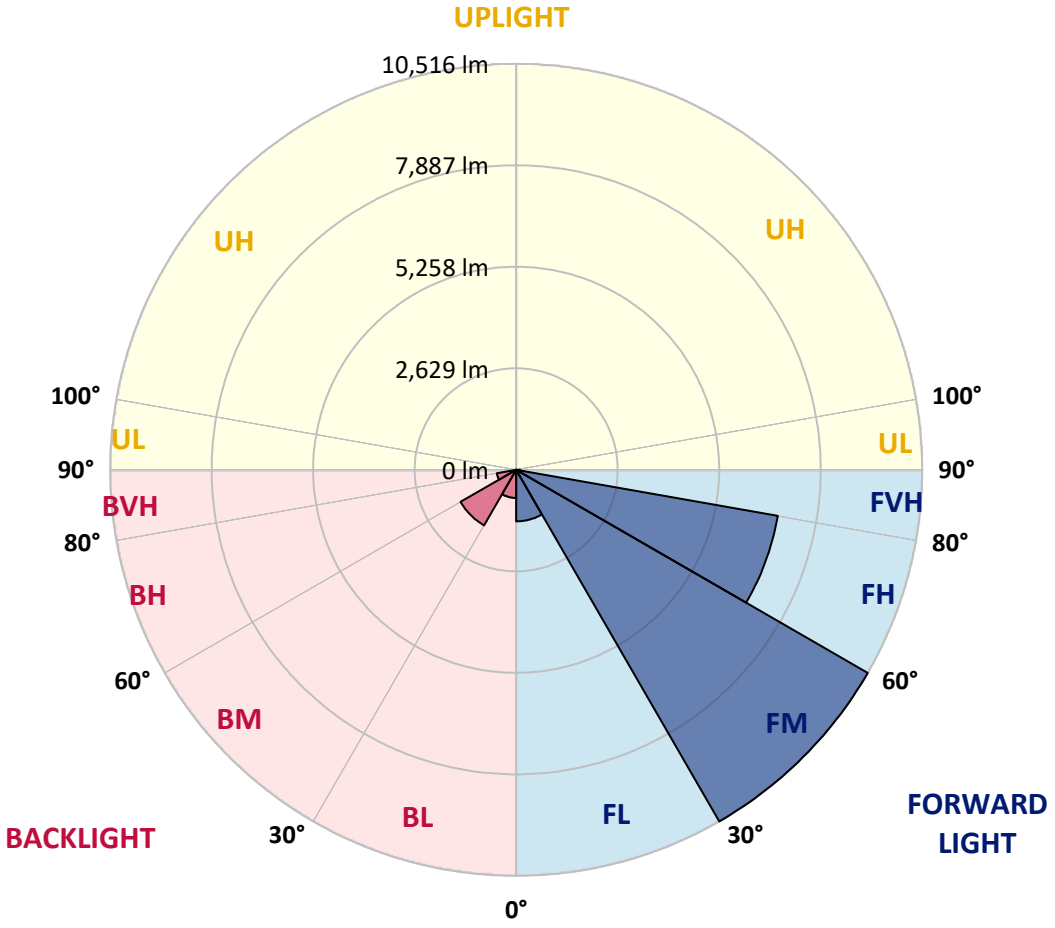


REPORT NUMBER: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1334.9	6.1			
FM	(30°-60°)	10516.3	48.4			
FH	(60°-80°)	6881.4	31.7			G3/7500
FVH	(80°-90°)	97.4	0.4			G1/100
BL	(0°-30°)	729.8	3.4	B2/1000		
BM	(30°-60°)	1661.9	7.6	B2/2500		
BH	(60°-80°)	510.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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-G3
Type III Short



REPORT NUMBER: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	*2528.2*	2528.2	2528.2
2.5°	2519.5	2537.0	2532.6	2528.2	2526.8	2529.7	2531.2	*2529.7*	2529.7	2529.7
5°	2471.4	2486.0	2486.0	2496.2	2510.8	2528.2	2541.4	*2544.3*	2547.2	2551.6
7.5°	2379.6	2391.3	2400.0	2433.5	2470.0	2516.6	2555.9	*2576.3*	2579.2	2595.3
10°	2316.9	2331.5	2346.1	2381.1	2433.5	2503.5	2570.5	*2620.0*	2627.3	2665.2
12.5°	2314.0	2328.6	2347.5	2385.4	2446.6	2521.0	2602.6	*2674.0*	2687.1	2742.4
15°	2344.6	2362.1	2379.6	2426.2	2491.8	2582.2	2669.6	*2758.5*	2771.6	2850.3
17.5°	2407.3	2430.6	2443.7	2490.4	2560.3	2660.8	2776.0	*2878.0*	2889.6	2981.4
20°	2531.2	2558.8	2563.2	2601.1	2669.6	2777.4	2914.4	*3041.2*	3055.7	3160.7
22.5°	2787.6	2827.0	2792.0	2810.9	2872.1	2980.0	3128.6	*3288.9*	3309.3	3428.8
25°	3239.4	3294.7	3204.4	3172.3	3198.5	3310.8	3497.3	*3699.8*	3723.1	3819.3
27.5°	4126.8	4055.4	3918.4	3784.3	3705.7	3769.8	3979.6	*4230.2*	4259.4	4352.7
30°	5101.7	5039.0	4853.9	4556.7	4370.1	4359.9	4553.7	*4833.5*	4867.0	4955.9
32.5°	6078.0	6018.2	5817.1	5451.4	5127.9	4967.6	5101.7	*5412.0*	5429.5	5486.4
35°	7038.3	6977.1	6776.0	6401.5	6003.7	5639.4	5613.1	*5962.9*	5968.7	6028.4
37.5°	8004.4	7953.4	7739.2	7372.0	6980.0	6477.2	6233.9	*6484.5*	6491.8	6550.1
40°	8693.6	8715.5	8568.3	8284.2	7947.6	7398.2	6930.4	*7039.7*	6996.0	7093.6
42.5°	9285.3	9329.0	9200.7	9057.9	8862.7	8378.9	7793.1	*7774.2*	7704.2	7756.7
45°	9796.7	9833.2	9718.1	9684.5	9680.2	9340.6	8735.9	*8622.2*	8524.6	8514.4
47.5°	9984.7	10054.7	10104.2	10216.4	10435.0	10292.2	9710.8	*9534.4*	9425.2	9345.0
50°	10056.1	10130.4	10299.5	10625.9	11143.2	11204.4	10681.3	*10483.1*	10349.0	10203.3
52.5°	9959.9	10092.6	10319.9	10869.2	11619.7	11935.9	11612.4	*11439.0*	11286.0	11048.5
55°	9393.1	9525.7	9990.6	10866.3	11857.2	12448.8	12492.6	*12415.3*	12243.4	11868.9
57.5°	8198.2	8394.9	9130.8	10496.2	11852.8	12890.4	13355.2	*13410.6*	13218.2	12682.0
60°	6542.8	6809.5	7707.1	9675.8	11487.1	13129.4	14111.5	*14388.4*	14184.4	13483.5
62.5°	4565.4	4874.3	5723.9	8390.5	10650.7	12957.4	14663.8	*15175.3*	15020.8	14200.4
65°	*2784.7*	*2883.8*	*3568.7*	*6602.6*	*9228.4*	*12237.6*	*14834.3*	*15600.8*	*15549.8*	*14639.0*
67.5°	1855.0	1938.1	2134.8	4527.5	7163.6	10799.3	14426.3	*15526.4*	15541.0	14567.6
70°	1117.7	1189.1	1317.3	2633.2	4642.6	8547.9	13162.9	*14579.3*	14663.8	13613.1
72.5°	460.5	508.6	625.1	1193.4	2404.4	5425.1	10481.6	*12517.3*	12714.1	11446.3
75°	260.8	285.6	367.2	598.9	1043.4	2528.2	6349.0	*8886.0*	9176.0	7889.3
77.5°	173.4	185.1	237.5	387.6	587.3	862.7	2713.3	*4629.5*	5183.3	4308.9
80°	116.6	126.8	163.2	259.4	381.8	370.1	864.1	*1715.1*	2110.0	1480.5
82.5°	78.7	80.1	116.6	170.5	241.9	179.2	255.0	*533.3*	670.3	428.4
85°	45.2	43.7	86.0	99.1	107.8	74.3	77.2	*160.3*	209.8	180.7
87.5°	5.8	8.7	33.5	26.2	14.6	16.0	16.0	*27.7*	40.8	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0

REPORT NUMBER: P943766
CATALOG NUMBER: GALN-SB8B-927-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2528.2	0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2531.2	2.5°	2531.2	2529.7	2525.3	2521.0	2510.8	2504.9	2507.8	2504.9	2503.5	2504.9
2550.1	5°	2550.1	2545.7	2534.1	2519.5	2499.1	2474.3	2458.3	2435.0	2413.1	2400.0
2601.1	7.5°	2601.1	2596.7	2580.7	2539.9	2474.3	2370.9	2276.1	2193.1	2130.4	2094.0
2682.7	10°	2682.7	2675.4	2650.6	2560.3	2388.3	2162.5	1974.5	1818.6	1716.6	1668.5
2778.9	12.5°	2778.9	2770.1	2726.4	2541.4	2225.1	1872.5	1613.1	1439.7	1345.0	1302.7
2889.6	15°	2892.5	2880.9	2794.9	2451.0	1987.6	1551.9	1314.4	1184.7	1123.5	1085.6
3031.0	17.5°	3033.9	3013.5	2845.9	2315.5	1729.7	1307.1	1130.8	1033.2	979.2	942.8
3216.0	20°	3217.5	3184.0	2886.7	2153.7	1492.2	1152.6	1006.9	925.3	884.5	852.5
3478.3	22.5°	3474.0	3425.9	2936.3	1978.9	1324.6	1046.3	915.1	855.4	821.9	785.4
3844.1	25°	3791.6	3734.8	2997.5	1817.1	1209.5	954.5	848.1	798.5	759.2	716.9
4323.5	27.5°	4236.1	4134.1	3070.3	1684.5	1110.4	875.8	786.9	731.5	686.3	651.4
4867.0	30°	4731.5	4563.9	3134.4	1604.4	1020.0	802.9	706.7	651.4	609.1	584.3
5355.2	32.5°	5200.7	4973.4	3176.7	1569.4	938.4	719.9	619.3	559.6	527.5	520.2
5833.2	35°	5643.7	5343.5	3172.3	1535.9	865.6	636.8	533.3	472.1	447.4	451.7
6347.6	37.5°	6153.7	5738.4	3141.7	1483.4	805.8	561.0	459.0	405.1	383.2	384.7
6972.7	40°	6746.8	6194.5	3122.8	1384.3	740.3	491.1	397.8	354.1	338.1	332.2
7631.3	42.5°	7379.3	6636.1	3125.7	1272.1	658.7	428.4	355.6	319.1	304.6	300.2
8364.3	45°	8014.6	7057.2	3130.1	1155.6	572.7	380.3	325.0	294.4	285.6	279.8
9107.5	47.5°	8612.0	7415.7	3048.5	1030.2	488.2	343.9	300.2	279.8	272.5	265.2
9853.6	50°	9168.7	7654.7	2851.7	884.5	421.1	314.8	281.2	266.7	259.4	252.1
10529.7	52.5°	9601.5	7692.5	2526.8	734.4	374.5	292.9	269.6	256.5	247.7	240.4
11076.2	55°	9793.8	7455.0	2064.8	594.5	338.1	274.0	257.9	244.8	234.6	227.3
11506.0	57.5°	9744.3	6955.2	1610.2	478.0	303.1	255.0	243.4	234.6	223.0	211.3
11854.3	60°	9500.9	6286.4	1213.8	397.8	271.0	234.6	227.3	220.0	204.0	186.5
11988.4	62.5°	9079.8	5445.5	865.6	329.3	236.1	211.3	208.4	202.6	179.2	147.2
11790.2	65°	*8435.7*	*4424.1*	*582.9*	*274.0*	*202.6*	*185.1*	*186.5*	*176.3*	*145.7*	*109.3*
11064.5	67.5°	7494.4	3235.0	373.0	224.4	169.0	154.5	155.9	150.1	123.9	93.3
9688.9	70°	6295.1	2142.1	243.4	170.5	135.5	119.5	128.2	129.7	104.9	75.8
7436.1	72.5°	4614.9	1264.8	170.5	126.8	99.1	83.1	104.9	107.8	84.5	56.8
4473.6	75°	2630.2	600.4	128.2	91.8	61.2	58.3	81.6	81.6	58.3	37.9
1936.6	77.5°	1104.6	250.6	90.3	59.7	35.0	33.5	55.4	51.0	29.1	17.5
472.1	80°	319.1	112.2	48.1	29.1	14.6	13.1	21.9	16.0	7.3	2.9
179.2	82.5°	125.3	49.5	18.9	11.7	5.8	5.8	2.9	0.0	0.0	0.0
102.0	85°	74.3	20.4	8.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0
21.9	87.5°	18.9	4.4	2.9	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

180°
2528.2
2510.8
2402.9
2095.5
1664.1
1298.4
1087.1
939.9
846.6
779.6
712.6
644.1
580.0
524.6
451.7
390.5
330.8
298.7
279.8
265.2
252.1
239.0
225.9
209.8
183.6
144.3
106.4
88.9
72.9
53.9
35.0
17.5
2.9
0.0
0.0
0.0
0.0

F REPORT)