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: P943547

Luminaire Tested: **GALN-SB8A-827-U-T3**

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:	P943547
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8A-827-U-T3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	-

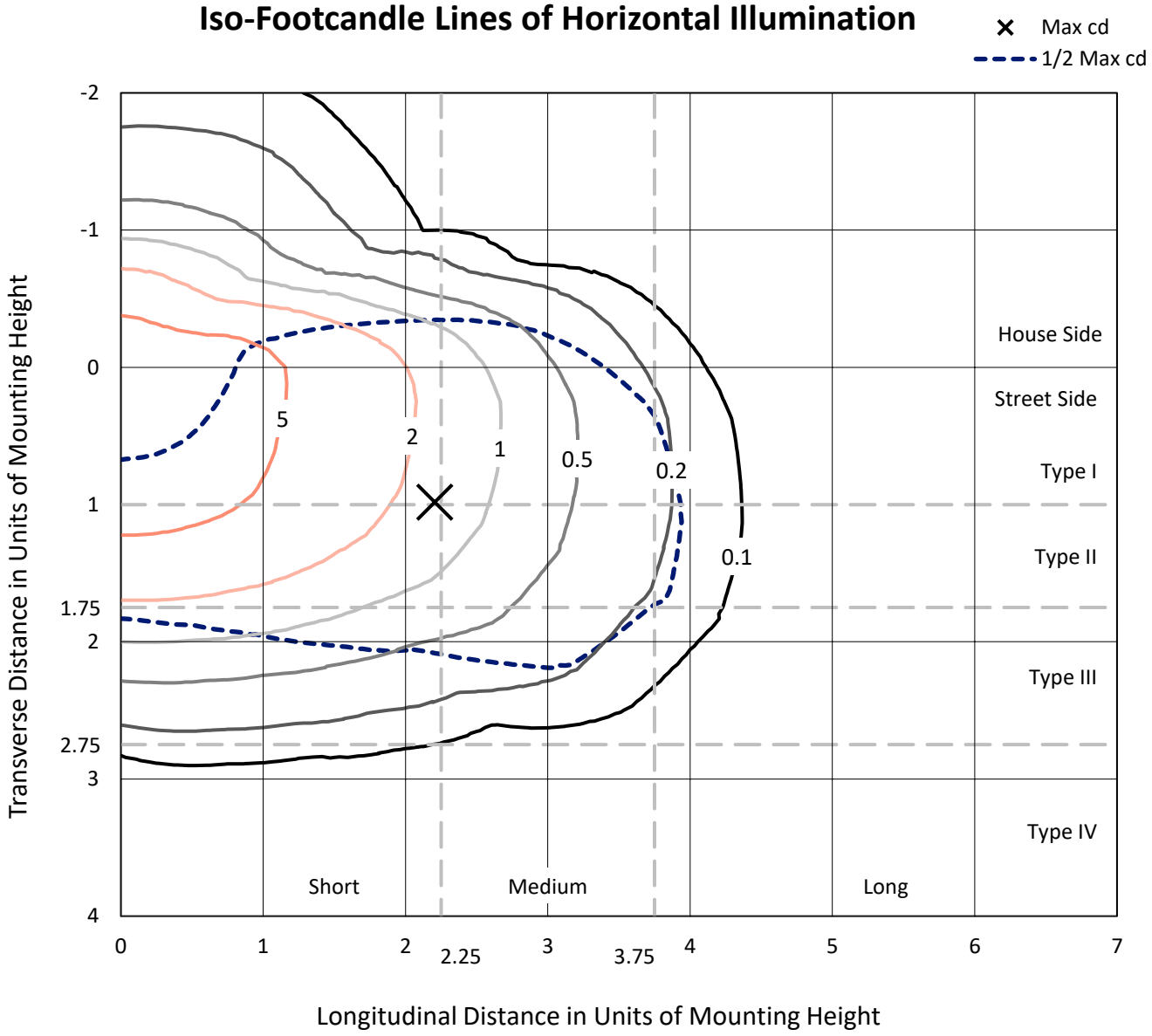
Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31563 lumens
Efficiency:	N/A
Efficacy:	139.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4
Input Watts (W):	227.1
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

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

REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

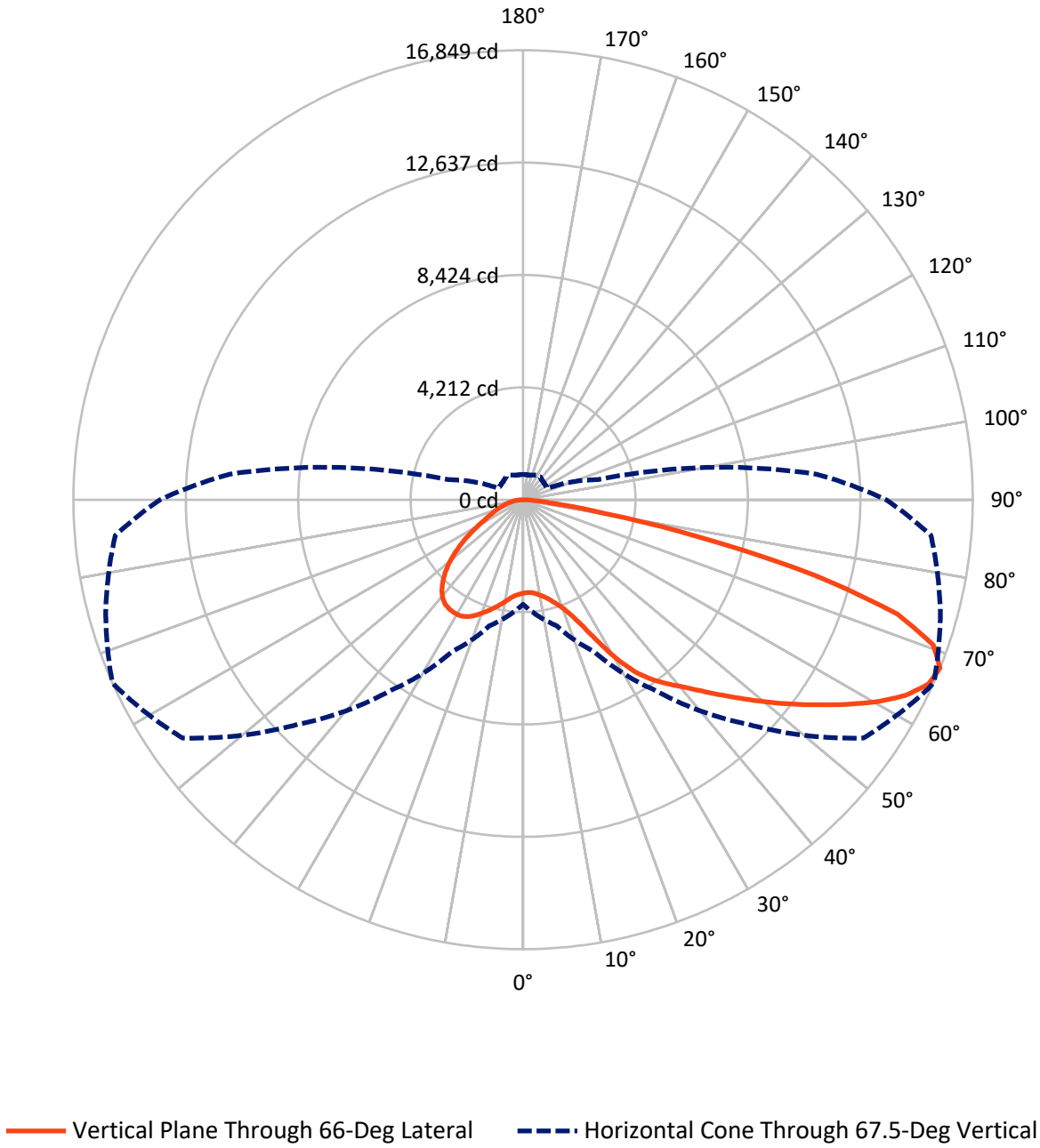
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

Luminous Intensity Polar Plot



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

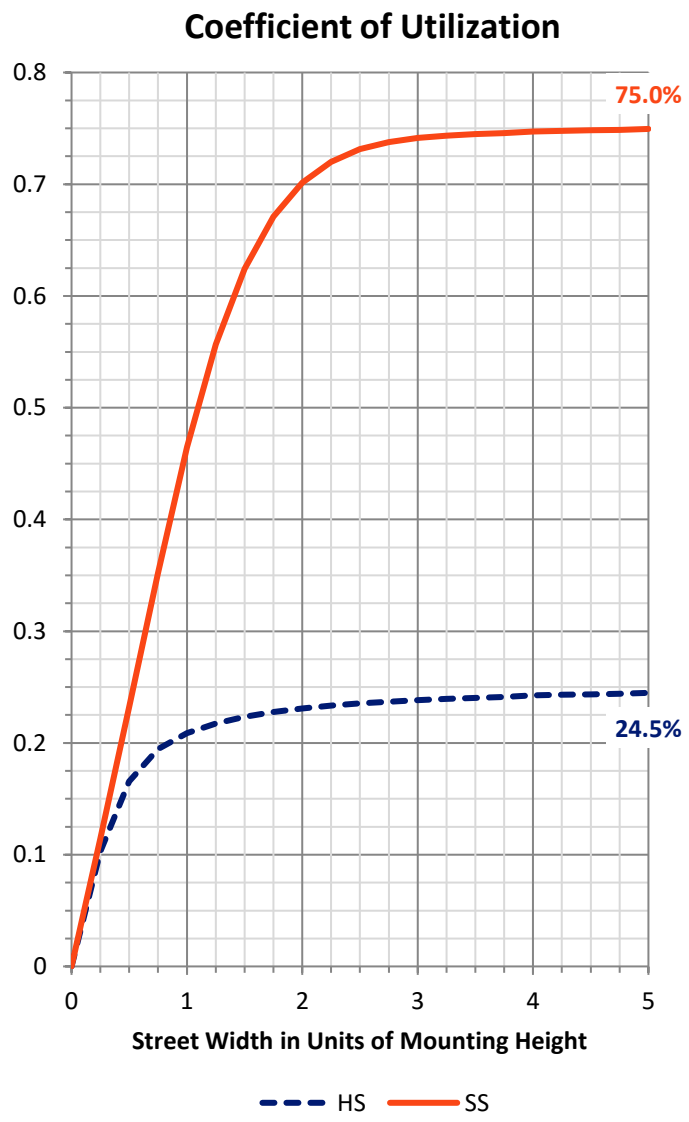
REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7848.0	0.0	7848.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23715.0	0.0	23715.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	31563.0	0.0	31563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.1
10°-20°	1146.7	3.6
20°-30°	2210.3	7.0
30°-40°	3875.4	12.3
40°-50°	5761.4	18.3
50°-60°	7303.2	23.1
60°-70°	7146.0	22.6
70°-80°	3408.7	10.8
80°-90°	364.3	1.2
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°	31563.0	100.0
0°-180°	31563.0	100.0

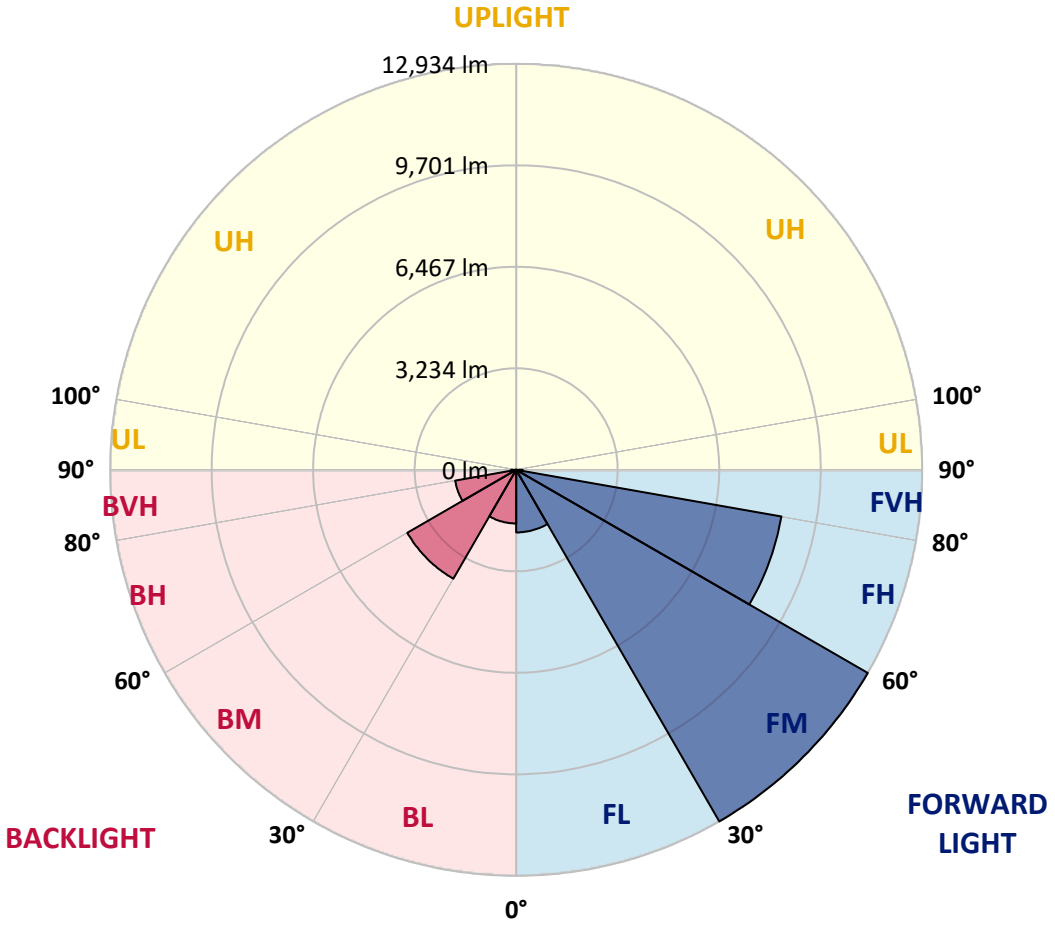


REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1994.5	6.3			
FM	(30°-60°)	12934.2	41.0			
FH	(60°-80°)	8579.7	27.2			G4/12000
FVH	(80°-90°)	206.5	0.7			G2/225
BL	(0°-30°)	1709.6	5.4	B3/2500		
BM	(30°-60°)	4005.7	12.7	B3/5000		
BH	(60°-80°)	1975.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	157.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	*3500.8*	3500.8
2.5°	3464.3	3484.2	3479.2	3470.9	3469.2	3472.6	3477.5	3482.5	*3480.9*	3489.1
5°	3454.3	3474.2	3472.6	3472.6	3479.2	3492.5	3500.8	3509.0	*3500.8*	3510.7
7.5°	3461.0	3475.9	3482.5	3489.1	3505.7	3530.6	3550.5	3568.7	*3558.8*	3570.4
10°	3545.5	3557.1	3563.8	3563.8	3575.4	3603.6	3623.5	3656.6	*3648.3*	3666.6
12.5°	3699.8	3711.4	3711.4	3704.7	3713.0	3731.3	3737.9	3774.4	*3759.5*	3789.3
15°	3888.8	3912.0	3893.8	3882.2	3885.5	3903.7	3902.1	3930.3	*3915.3*	3940.2
17.5°	4097.8	4127.6	4097.8	4096.1	4089.5	4109.4	4111.0	4135.9	*4109.4*	4127.6
20°	4344.8	4386.3	4361.4	4369.7	4354.8	4363.1	4371.4	4407.9	*4366.4*	4379.7
22.5°	4693.1	4742.8	4716.3	4747.8	4737.9	4731.2	4729.6	4794.3	*4729.6*	4734.6
25°	5200.6	5260.3	5213.8	5256.9	5256.9	5278.5	5303.4	5386.3	*5278.5*	5247.0
27.5°	5950.1	6009.8	5918.6	5945.1	5936.9	5989.9	5963.4	6169.0	*6052.9*	6001.5
30°	6852.3	6958.4	6785.9	6779.3	6771.0	6855.6	6893.7	7029.7	*6912.0*	6860.5
32.5°	7827.4	7938.5	7732.8	7673.1	7641.6	7693.0	7661.5	7771.0	*7689.7*	7610.1
35°	8858.8	8968.3	8772.6	8656.5	8530.5	8422.7	8309.9	8338.1	*8261.8*	8140.8
37.5°	9834.0	10034.6	9827.3	9702.9	9470.8	9260.2	8945.1	8814.1	*8742.8*	8631.7
40°	10827.3	10941.7	10784.2	10678.0	10426.0	10096.0	9591.8	9314.9	*9218.7*	9110.9
42.5°	11558.6	11668.1	11583.5	11510.5	11313.2	10930.1	10278.4	9931.8	*9792.5*	9671.4
45°	12139.0	12220.3	12167.2	12193.8	12109.2	11737.7	10989.8	10593.5	*10449.2*	10301.6
47.5°	12372.9	12459.1	12543.7	12701.2	12845.5	12571.9	11754.3	11309.9	*11157.3*	11006.4
50°	12346.3	12434.2	12679.7	13014.6	13462.4	13371.2	12560.3	12072.7	*11931.7*	11759.3
52.5°	12134.1	12233.6	12548.7	13105.9	13818.9	13969.8	13381.1	12860.4	*12727.8*	12522.1
55°	11576.9	11636.6	12109.2	12898.6	13903.5	14387.7	14185.4	13699.5	*13566.9*	13280.0
57.5°	10543.7	10630.0	11318.2	12339.7	13691.2	14671.3	14891.9	14581.8	*14454.1*	14041.2
60°	9195.5	9333.1	10120.8	11401.1	13150.6	14669.7	15533.7	15449.1	*15343.0*	14790.7
62.5°	7669.8	7829.0	8586.9	10074.4	12205.4	14253.4	15935.0	16175.4	*16120.7*	15482.3
65°	5890.4	5999.9	6754.4	8358.0	10734.4	13359.6	15981.4	16671.3	*16681.2*	16007.9
67.5°	*3922.0*	*4237.1*	*4892.1*	*6271.8*	*8764.3*	*11898.6*	*15573.5*	*16752.5*	*16848.7*	*16188.7*
70°	1913.7	2328.3	2970.1	4076.2	6271.8	9658.2	14507.2	16085.9	*16299.8*	15661.4
72.5°	794.3	928.7	1278.6	2011.6	3600.3	6517.3	12364.6	14278.3	*14674.6*	13877.0
75°	535.6	580.4	731.3	1031.5	1640.1	3213.9	8916.9	10646.5	*11285.0*	10480.7
77.5°	412.9	441.1	532.3	721.4	975.1	1215.6	4772.7	6416.1	*6746.1*	6245.3
80°	325.0	346.6	398.0	525.7	691.5	650.1	1626.8	2907.1	*3097.8*	2598.6
82.5°	281.9	290.2	285.2	356.5	459.4	379.8	534.0	1072.9	*1184.1*	859.0
85°	204.0	227.2	237.1	220.6	243.8	192.4	218.9	379.8	*417.9*	373.1
87.5°	82.9	122.7	150.9	142.6	89.6	54.7	68.0	111.1	*127.7*	139.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

REPORT NUMBER: P943547
CATALOG NUMBER: GALN-SB8A-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3500.8	0°	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8	3500.8
3502.4	2.5°	3504.1	3515.7	3524.0	3533.9	3540.6	3550.5	3570.4	3582.0	3583.7	3592.0
3528.9	5°	3535.6	3552.2	3570.4	3596.9	3626.8	3651.7	3689.8	3716.3	3726.3	3734.6
3593.6	7.5°	3603.6	3626.8	3660.0	3706.4	3749.5	3782.7	3829.1	3860.6	3892.1	3903.7
3696.4	10°	3704.7	3737.9	3786.0	3849.0	3895.4	3938.6	3986.6	4013.2	4044.7	4058.0
3819.2	12.5°	3830.8	3865.6	3928.6	4016.5	4059.6	4089.5	4106.0	4099.4	4106.0	4117.7
3966.7	15°	3975.0	4013.2	4084.5	4179.0	4208.9	4182.3	4145.8	4112.7	4107.7	4111.0
4145.8	17.5°	4145.8	4174.0	4257.0	4336.6	4315.0	4205.5	4125.9	4072.9	4046.3	4038.1
4374.7	20°	4384.6	4384.6	4452.6	4502.4	4358.1	4172.4	4048.0	3961.8	3907.0	3883.8
4686.5	22.5°	4674.9	4648.3	4691.4	4656.6	4349.8	4079.5	3907.0	3757.8	3674.9	3641.7
5122.6	25°	5043.0	5011.5	4999.9	4784.3	4290.1	3931.9	3651.7	3470.9	3397.9	3379.7
5751.1	27.5°	5598.6	5519.0	5368.0	4854.0	4180.7	3699.8	3353.2	3185.7	3144.2	3145.9
6558.7	30°	6338.2	6179.0	5809.2	4865.6	4001.6	3371.4	3048.0	2928.6	2908.7	2917.0
7237.0	32.5°	7023.1	6872.2	6260.2	4812.5	3726.3	3049.7	2774.4	2694.8	2665.0	2674.9
7754.4	35°	7560.4	7518.9	6678.1	4737.9	3388.0	2747.9	2529.0	2461.0	2402.9	2389.7
8241.9	37.5°	8067.8	8051.2	6991.6	4633.4	3053.0	2533.9	2331.6	2242.1	2157.5	2111.1
8780.9	40°	8625.0	8608.4	7197.2	4472.5	2756.2	2348.2	2154.2	2036.4	1932.0	1847.4
9391.2	42.5°	9251.9	9154.0	7295.0	4242.0	2504.1	2190.7	2009.9	1850.7	1713.1	1635.1
10081.0	45°	9936.8	9716.2	7293.4	3948.5	2291.8	2046.4	1855.7	1630.1	1502.5	1429.5
10789.2	47.5°	10663.1	10253.5	7203.8	3623.5	2086.2	1887.2	1616.9	1444.4	1359.8	1315.1
11558.6	50°	11412.7	10756.0	7051.3	3250.3	1875.6	1706.4	1467.6	1349.9	1285.2	1243.8
12321.5	52.5°	12117.5	11212.0	6867.2	2827.5	1661.7	1530.6	1401.3	1310.1	1242.1	1195.7
13061.1	55°	12772.5	11605.1	6606.8	2394.6	1487.5	1412.9	1369.8	1293.5	1215.6	1160.8
13812.3	57.5°	13354.6	11860.4	6157.4	1988.3	1363.2	1331.6	1336.6	1265.3	1175.8	1129.3
14551.9	60°	13838.8	12047.8	5492.4	1611.9	1262.0	1252.0	1285.2	1212.2	1107.8	1054.7
15177.1	62.5°	14129.0	12044.5	4676.5	1320.0	1175.8	1179.1	1217.2	1145.9	1039.8	990.0
15503.8	65°	14104.2	11749.3	3781.0	1129.3	1092.8	1096.2	1145.9	1072.9	983.4	953.5
15339.6	67.5°	*13605.0*	*11029.6*	*2900.4*	*1005.0*	*1001.6*	*1016.6*	*1074.6*	*1023.2*	*948.6*	*945.3*
14361.2	70°	12253.5	9535.4	2089.5	905.5	907.1	928.7	1005.0	991.7	930.3	937.0
12074.4	72.5°	9825.7	7270.2	1403.0	801.0	802.6	837.5	938.6	966.8	912.1	1000.0
8567.0	75°	6543.8	4533.9	902.1	689.9	691.5	736.3	880.6	918.7	862.3	996.7
4457.6	77.5°	3144.2	2038.1	653.4	580.4	580.4	621.9	761.2	822.5	734.6	774.4
1432.8	80°	1086.2	766.2	514.1	467.7	457.7	485.9	641.8	713.1	633.5	583.7
467.7	82.5°	427.9	398.0	412.9	363.2	330.0	348.3	499.2	588.7	466.0	421.2
263.7	85°	245.4	258.7	291.9	240.5	190.7	213.9	366.5	422.9	351.6	310.1
86.2	87.5°	66.3	91.2	134.3	124.4	86.2	91.2	174.1	233.8	202.3	155.9
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°
3500.8
3590.3
3732.9
3905.4
4064.6
4121.0
4122.6
4049.7
3878.9
3636.7
3383.0
3150.8
2945.2
2688.2
2399.6
2112.7
1855.7
1640.1
1426.2
1305.1
1228.8
1175.8
1139.3
1099.5
1031.5
975.1
951.9
950.2
935.3
1013.2
1005.0
709.8
547.3
419.6
316.7
160.9
0.0

F REPORT)