

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: P957360

Luminaire Tested: **GALN-SB9D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87566 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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



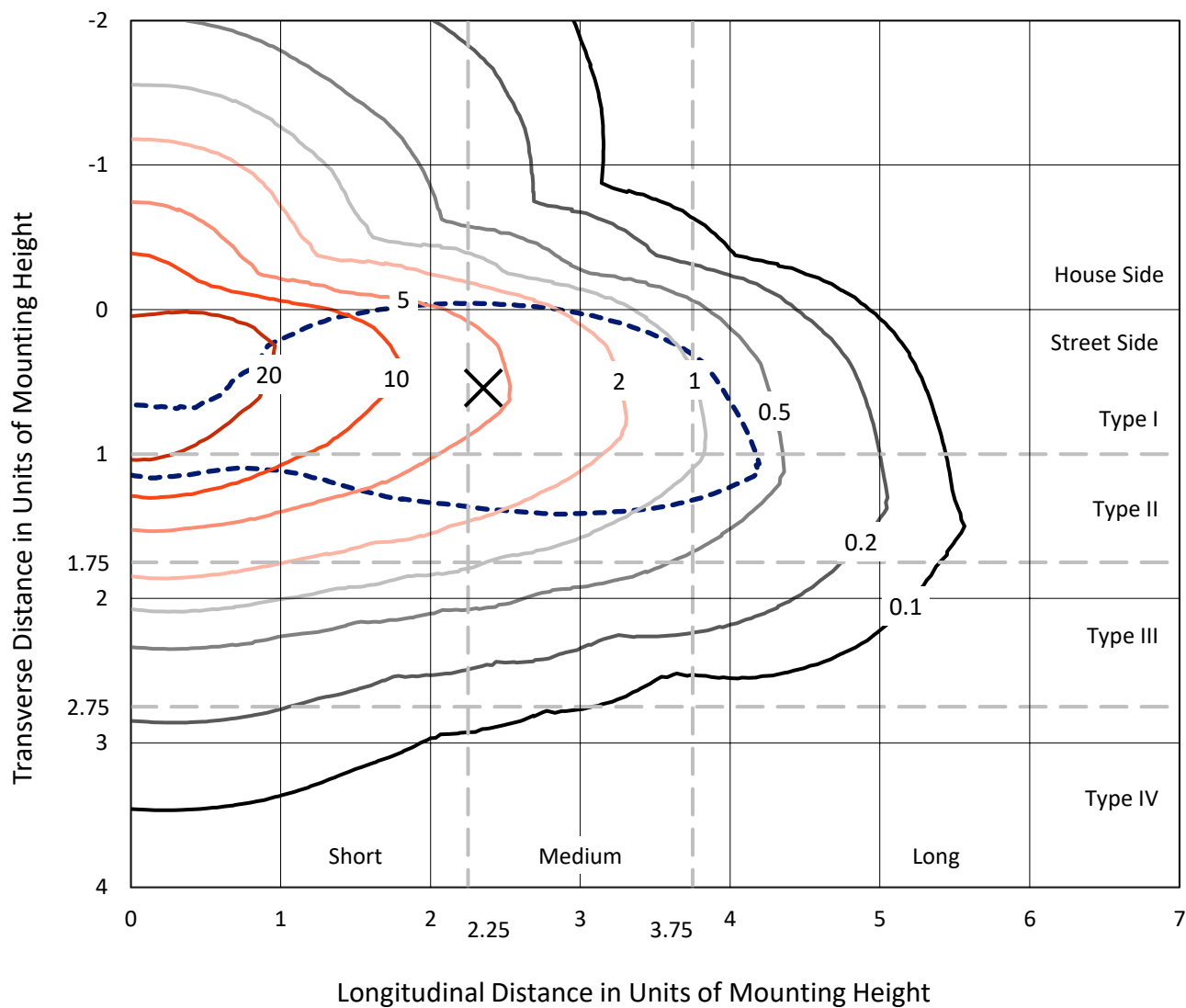
REPORT NUMBER: P957360

CATALOG NUMBER: GALN-SB9D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

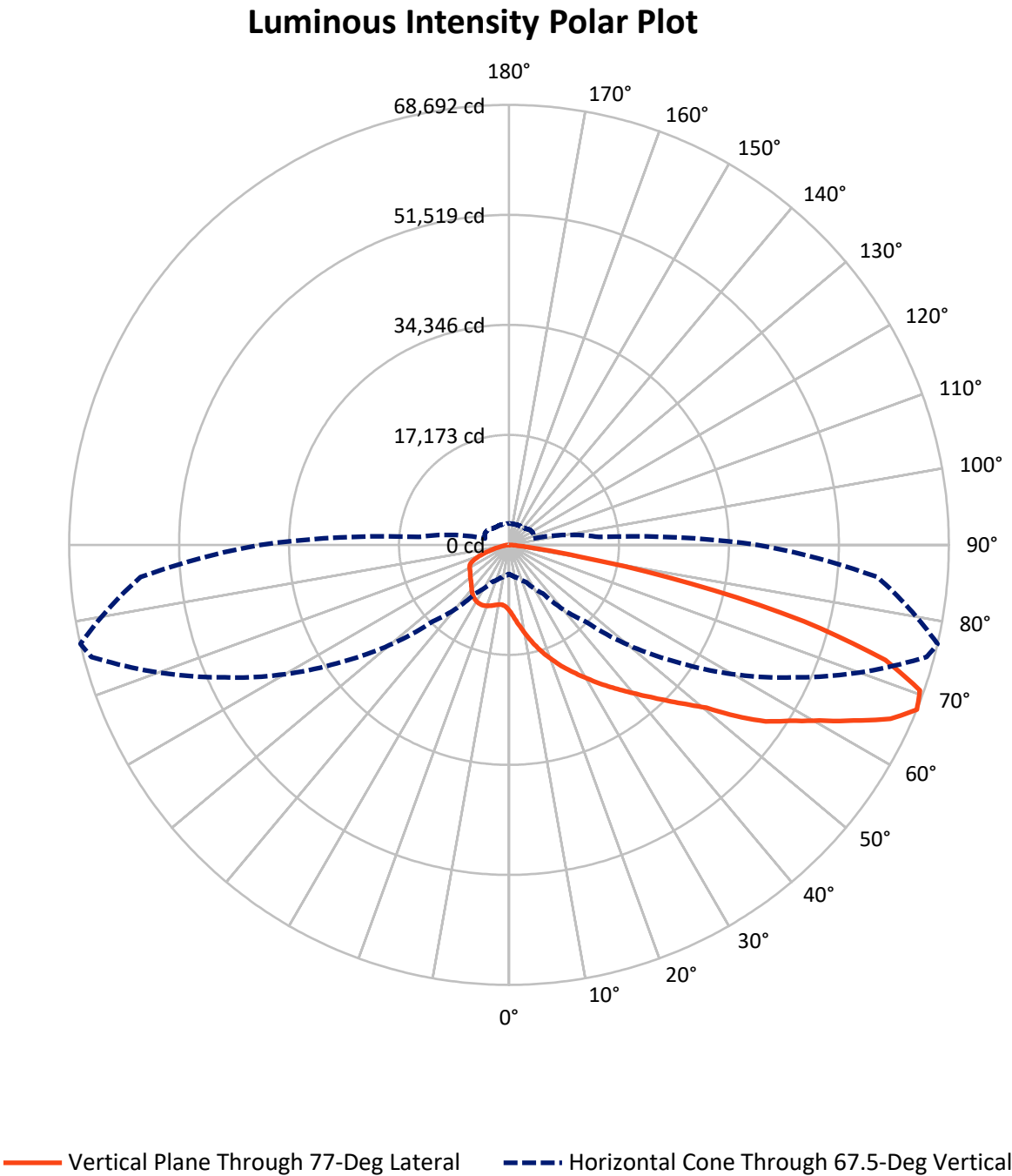
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P957360
CATALOG NUMBER: GALN-SB9D-727-U-T2R



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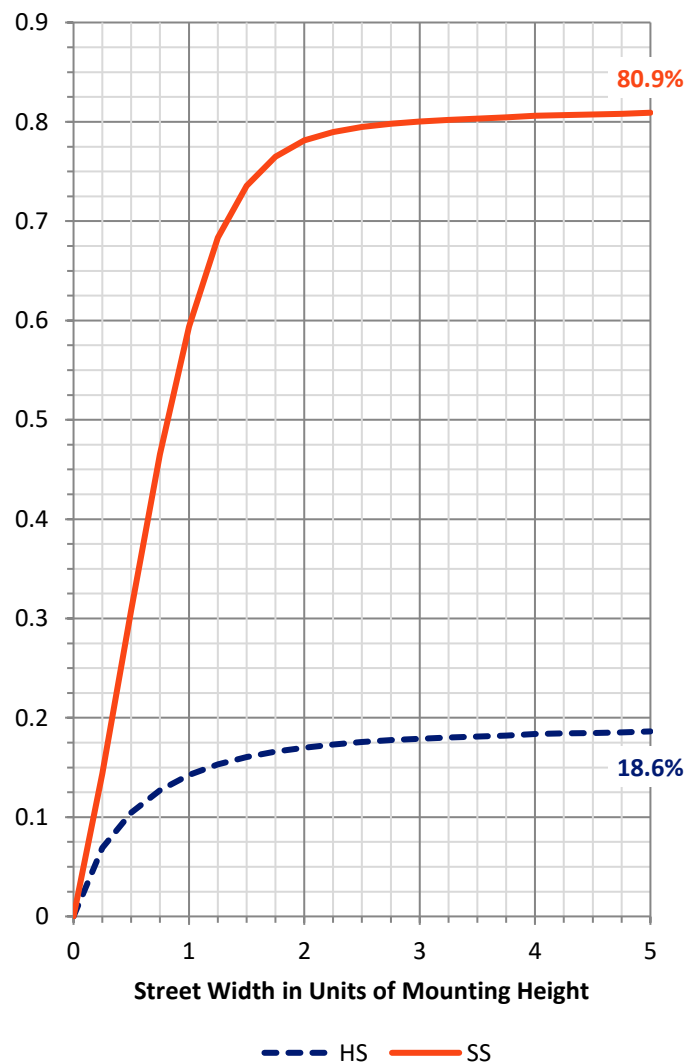
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16564.0	0.0	16564.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	71002.0	0.0	71002.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	87566.0	0.0	87566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.3	1.3
10°-20°	3956.4	4.5
20°-30°	7470.0	8.5
30°-40°	12034.1	13.7
40°-50°	16460.4	18.8
50°-60°	18567.5	21.2
60°-70°	17330.4	19.8
70°-80°	9500.0	10.8
80°-90°	1145.9	1.3
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°	87566.0	100.0
0°-180°	87566.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957360

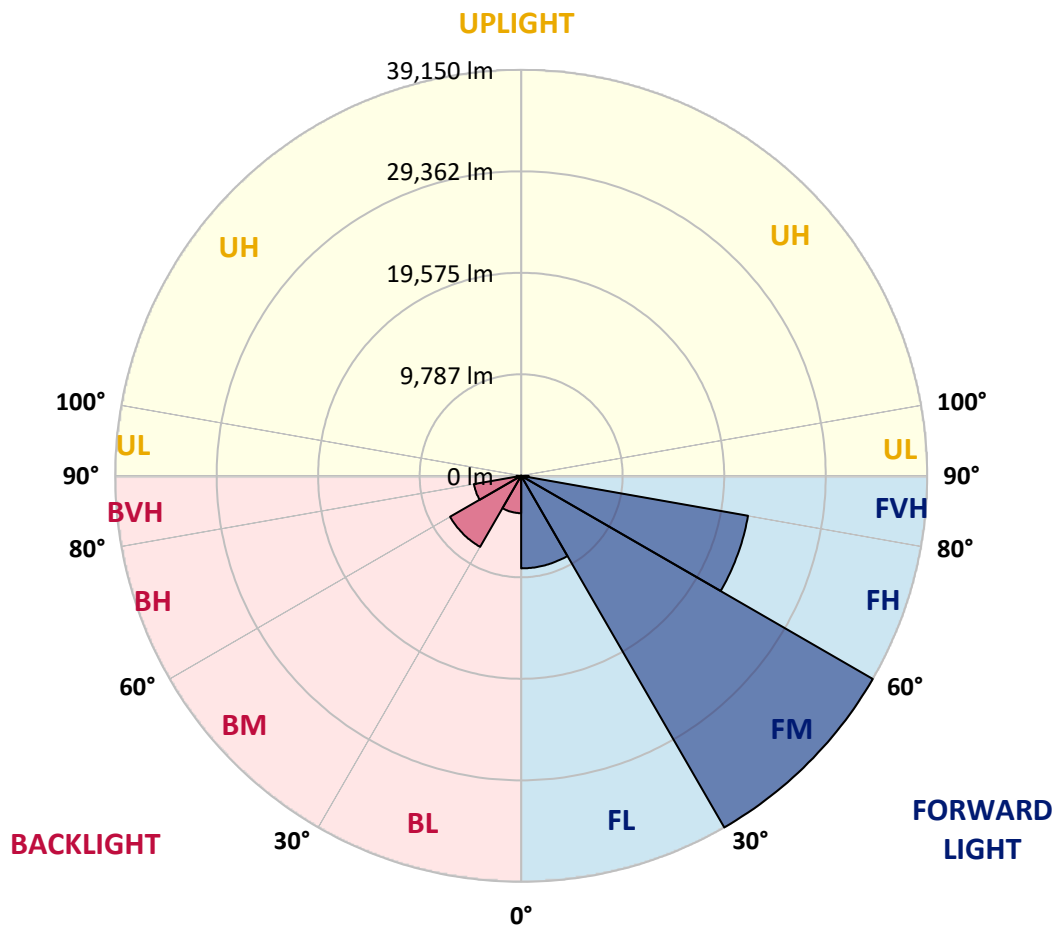
CATALOG NUMBER: GALN-SB9D-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8926.3	10.2			
FM	(30°-60°)	39149.8	44.7			
FH	(60°-80°)	22209.3	25.4			G5
FVH	(80°-90°)	716.6	0.8			G4/750
BL	(0°-30°)	3601.4	4.1	B4/5000		
BM	(30°-60°)	7912.2	9.0	B4/8500		
BH	(60°-80°)	4621.1	5.3	B4/5000		G4/5000
BVH	(80°-90°)	429.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P957360

CATALOG NUMBER: GALN-SB9D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2
2.5°	12864.2	12954.6	12841.6	12841.6	12461.9	12263.1	11883.4	11594.1	11074.3	10983.9	10640.3
5°	15205.7	15318.7	15160.5	15092.7	14645.2	14233.8	13596.5	12968.2	12041.6	11946.7	11137.6
7.5°	17018.2	17162.9	17022.7	16950.4	16552.6	16091.6	15345.8	14468.9	13162.6	12977.2	11806.5
10°	18496.3	18518.9	18473.7	18500.8	18188.9	17809.2	17045.3	16023.8	14392.0	14138.9	12615.6
12.5°	19332.5	19436.5	19526.9	19689.6	19635.4	19400.3	18713.3	17492.8	15693.8	15368.4	13497.1
15°	19725.8	19906.6	20110.0	20485.1	20788.0	20846.8	20322.4	19070.3	17018.2	16625.0	14387.5
17.5°	19865.9	20037.7	20358.6	20901.0	21551.9	21990.3	21755.3	20602.7	18329.0	17877.0	15323.2
20°	20575.5	20625.3	20819.6	21334.9	22040.1	22767.8	22944.1	22076.2	19626.3	19115.5	16290.5
22.5°	22094.3	21994.9	22049.1	22284.1	22790.4	23495.5	23897.8	23378.0	20959.8	20372.1	17266.8
25°	24603.0	24313.7	24024.4	23753.2	24010.8	24408.6	24865.1	24679.8	22356.5	21610.7	18252.2
27.5°	27771.6	27419.0	26781.7	25891.2	25579.3	25719.4	25922.8	25886.7	23649.2	22894.4	19269.2
30°	30890.4	30479.1	29719.7	28431.5	27608.8	27238.2	27084.5	26980.5	25055.0	24250.4	20295.3
32.5°	33381.0	33055.6	32309.8	30867.8	29674.5	29041.7	28530.9	28160.3	26524.0	25719.4	21380.1
35°	35559.7	35256.9	34402.6	32829.6	31532.3	30858.8	30189.8	29398.8	28051.8	27238.2	22546.3
37.5°	37548.6	37245.7	36075.0	34438.7	33132.4	32666.8	32070.2	30727.7	29584.1	28815.7	23780.3
40°	38805.2	38737.4	37643.5	35790.2	34434.2	34203.7	34004.8	32269.1	31283.7	30569.5	25136.3
42.5°	39126.1	39275.2	38407.4	36884.1	35591.4	35406.0	35871.6	34013.8	33191.2	32508.6	26673.2
45°	38353.1	38782.6	38213.0	37177.9	36414.0	36314.6	37526.0	35921.3	35302.1	34678.3	28526.4
47.5°	36395.9	37123.7	36888.6	36744.0	36635.5	37064.9	38981.4	37946.3	37693.2	37150.8	30641.8
50°	32445.4	33824.0	34235.3	35148.4	36197.0	37648.0	40305.8	40156.7	40486.6	39939.7	33218.3
52.5°	25615.5	27513.9	29900.5	32187.7	34850.1	37453.6	41761.3	43329.8	44722.0	44423.7	37313.5
55°	21145.1	21999.4	23834.5	28029.2	32237.4	36635.5	42416.7	45892.7	48925.7	48659.0	40418.8
57.5°	17709.8	18473.7	19603.7	23106.8	28286.9	34777.7	42823.5	47456.6	51805.0	51777.9	43483.5
60°	14025.9	14835.0	15992.2	18473.7	23671.8	31568.5	42733.1	49237.6	55479.8	55705.8	47221.6
62.5°	9867.4	10757.9	12041.6	14355.9	18957.3	27410.0	40888.9	50525.8	59805.6	60420.3	51719.1
65°	6486.4	7074.0	8041.3	10039.2	14125.3	22062.7	37367.8	50693.0	64434.2	65473.8	55940.9
67.5°	4547.2	4773.2	5342.8	6427.6	9311.4	16918.8	31758.3	48961.8	67521.4	68692.1	57771.5
70°	3548.3	3661.3	3950.6	4384.5	5849.0	11377.1	24336.3	44459.8	66861.5	68081.9	55859.5
72.5°	3064.6	3173.1	3281.6	3335.8	3923.5	7024.3	16484.8	37173.4	60646.3	61473.5	48568.6
75°	2779.9	2807.0	2897.4	2879.3	2992.3	4556.3	9514.8	27084.5	47849.9	47565.1	35853.5
77.5°	2336.9	2373.1	2522.2	2499.6	2657.8	3114.4	4940.5	17479.3	31021.5	29086.9	19956.3
80°	1979.8	1997.9	2160.6	2133.5	2309.8	2255.5	2522.2	8909.1	13158.0	11146.6	5754.1
82.5°	687.1	849.8	1649.8	1699.6	1762.8	1365.1	1455.5	3634.2	4018.4	3078.2	1206.9
85°	334.5	357.1	840.7	1193.3	1188.8	687.1	709.7	1297.3	1265.6	994.4	402.3
87.5°	54.2	67.8	99.4	465.6	370.6	180.8	244.1	253.1	262.2	226.0	90.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957360

CATALOG NUMBER: GALN-SB9D-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2	10274.2
2.5°	10387.2	10161.2	9686.6	9248.1	8904.6	8574.7	8389.3	8231.1	8140.7	8122.6	8122.6
5°	10667.5	10201.9	9338.5	8610.8	8136.2	7783.6	7598.3	7480.8	7422.0	7385.9	7381.3
7.5°	11069.8	10387.2	9157.7	8330.6	7833.4	7580.2	7485.3	7467.2	7462.7	7467.2	7480.8
10°	11625.7	10690.1	9139.7	8262.8	7846.9	7706.8	7702.3	7706.8	7724.9	7729.4	7733.9
12.5°	12226.9	11002.0	9212.0	8321.5	8018.7	7941.8	7928.3	7923.8	7937.3	7946.4	7950.9
15°	12882.3	11413.3	9334.0	8448.1	8208.5	8127.2	8113.6	8086.5	8082.0	8077.4	8072.9
17.5°	13555.8	11820.1	9469.6	8583.7	8330.6	8217.6	8167.8	8104.6	8054.8	8041.3	8054.8
20°	14238.3	12222.4	9564.6	8651.5	8339.6	8181.4	8082.0	7973.5	7887.6	7837.9	7856.0
22.5°	14966.1	12642.8	9623.3	8633.4	8258.2	8041.3	7860.5	7733.9	7602.8	7516.9	7521.5
25°	15675.7	13008.9	9618.8	8538.5	8100.0	7824.3	7593.8	7431.1	7250.3	7159.9	7159.9
27.5°	16358.3	13338.8	9505.8	8371.2	7874.0	7566.7	7290.9	7096.6	6920.3	6834.4	6829.9
30°	17063.4	13614.6	9329.5	8127.2	7607.3	7268.3	6965.5	6798.2	6640.0	6558.7	6554.2
32.5°	17764.0	13867.7	9080.9	7824.3	7300.0	6974.5	6676.2	6522.5	6427.6	6427.6	6432.1
35°	18505.3	14044.0	8750.9	7471.7	6974.5	6662.6	6427.6	6337.2	6328.2	6273.9	6260.4
37.5°	19287.3	14157.0	8348.6	7110.1	6653.6	6359.8	6287.5	6179.0	6088.6	5971.1	5953.0
40°	20110.0	14270.0	7865.0	6735.0	6314.6	6151.9	6120.2	5975.6	5717.9	5428.7	5388.0
42.5°	21108.9	14346.8	7363.3	6359.8	5957.5	5903.3	5948.5	5699.9	5288.5	5071.6	5076.1
45°	22266.1	14473.4	6902.2	5989.1	5591.4	5591.4	5781.2	5455.8	5116.8	4981.2	5003.8
47.5°	23766.7	14767.2	6472.8	5582.3	5252.4	5342.8	5410.6	5162.0	4972.1	4804.9	4800.4
50°	25936.4	15472.3	6029.8	5171.0	4994.7	5175.5	5080.6	4936.0	4714.5	4578.9	4565.3
52.5°	28630.4	15888.2	5636.6	4800.4	4773.2	4954.0	4818.4	4682.8	4515.6	4334.8	4298.6
55°	30465.5	15965.0	5306.6	4529.2	4624.1	4606.0	4556.3	4434.2	4343.8	4104.3	4108.8
57.5°	32517.7	16118.7	5035.4	4366.4	4529.2	4330.3	4312.2	4208.2	4090.7	3928.0	3873.7
60°	34972.1	16358.3	4800.4	4303.1	4447.8	4149.5	4059.1	4018.4	3900.9	3819.5	3842.1
62.5°	37648.0	16575.2	4560.8	4312.2	4352.9	3973.2	3837.6	3824.0	3751.7	3724.6	3724.6
65°	39474.1	15983.1	4262.5	4303.1	4203.7	3792.4	3620.6	3616.1	3557.3	3548.3	3543.8
67.5°	38836.8	14107.3	3860.2	4176.6	4050.0	3611.6	3421.7	3403.6	3326.8	3331.3	3331.3
70°	35645.6	11431.4	3304.2	3864.7	3860.2	3448.8	3213.8	3155.0	3051.1	3069.2	3087.2
72.5°	29661.0	8470.7	2558.4	3344.9	3557.3	3299.7	2974.2	2879.3	2748.2	2766.3	2761.8
75°	21420.8	5758.6	1862.3	2544.8	3096.3	3123.4	2739.2	2576.5	2418.3	2445.4	2454.4
77.5°	10961.3	3263.5	1369.6	1753.8	2431.8	2838.6	2526.7	2309.8	2273.6	2526.7	2490.6
80°	3575.4	1636.3	949.2	1229.5	1595.6	2323.3	2214.9	1966.2	1957.2	2016.0	1731.2
82.5°	1066.7	691.6	610.2	809.1	881.4	1780.9	1912.0	1487.1	1279.2	1347.0	1392.2
85°	366.1	334.5	348.0	402.3	420.4	1044.1	1338.0	985.4	931.1	1026.1	1012.5
87.5°	85.9	117.5	99.4	90.4	90.4	253.1	519.8	411.3	569.5	379.7	366.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)