

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: P943984

Luminaire Tested: **GALN-SB8D-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49637 lumens
Efficiency: N/A
Efficacy: 84.9 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): 584.9
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



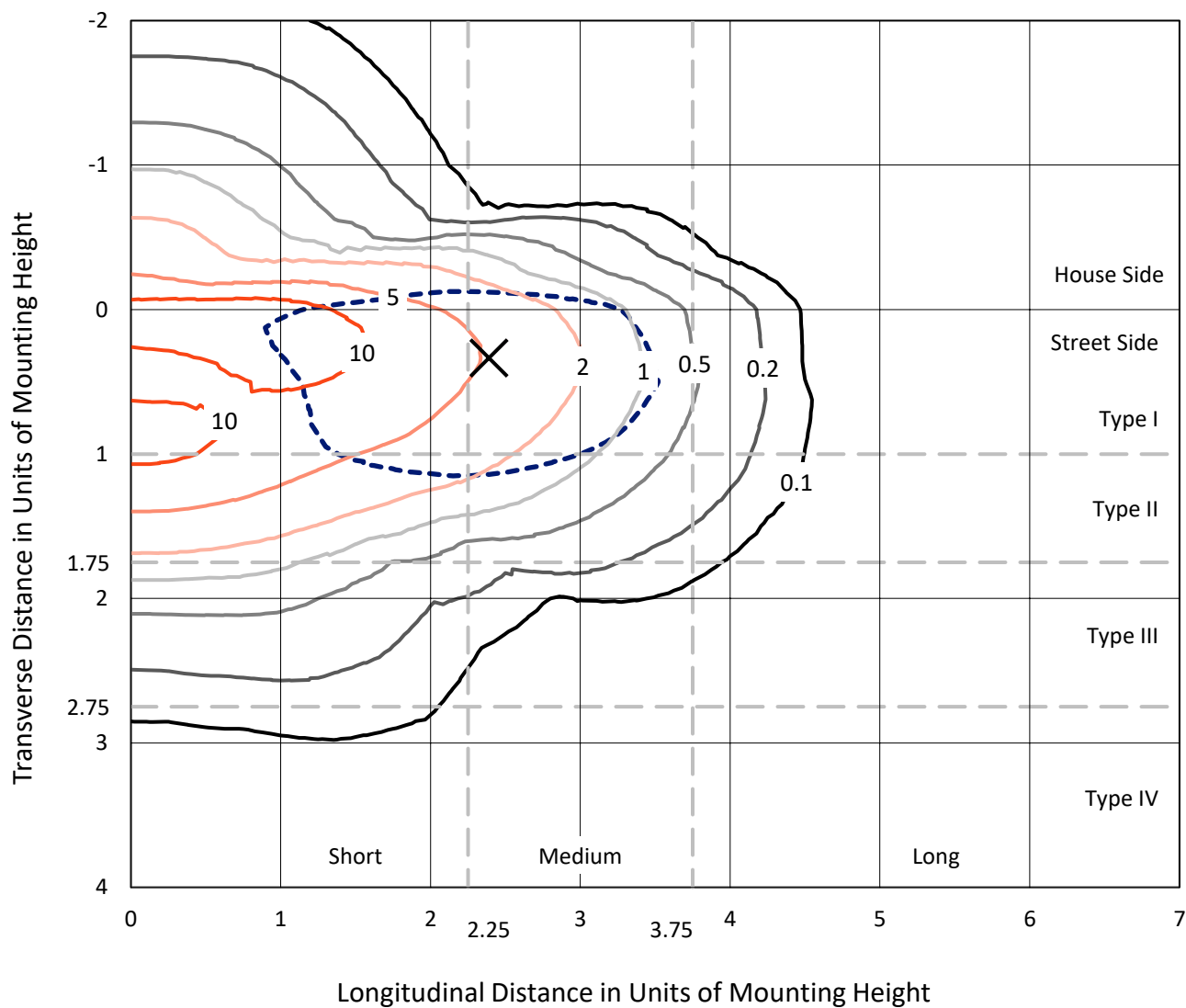
REPORT NUMBER: P943984

CATALOG NUMBER: GALN-SB8D-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

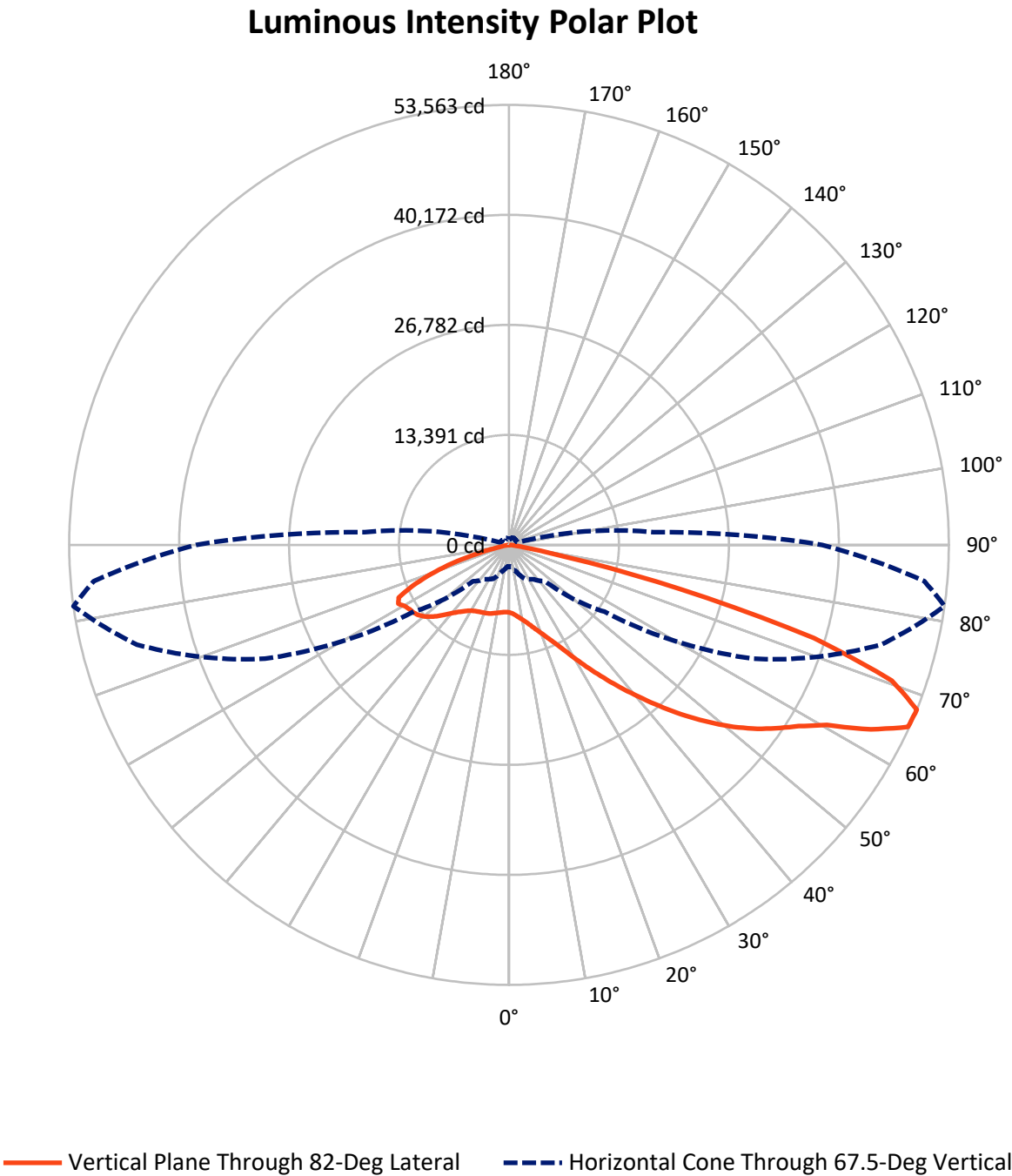
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Medium - N/A

REPORT NUMBER: P943984
CATALOG NUMBER: GALN-SB8D-722-U-T2-HSS



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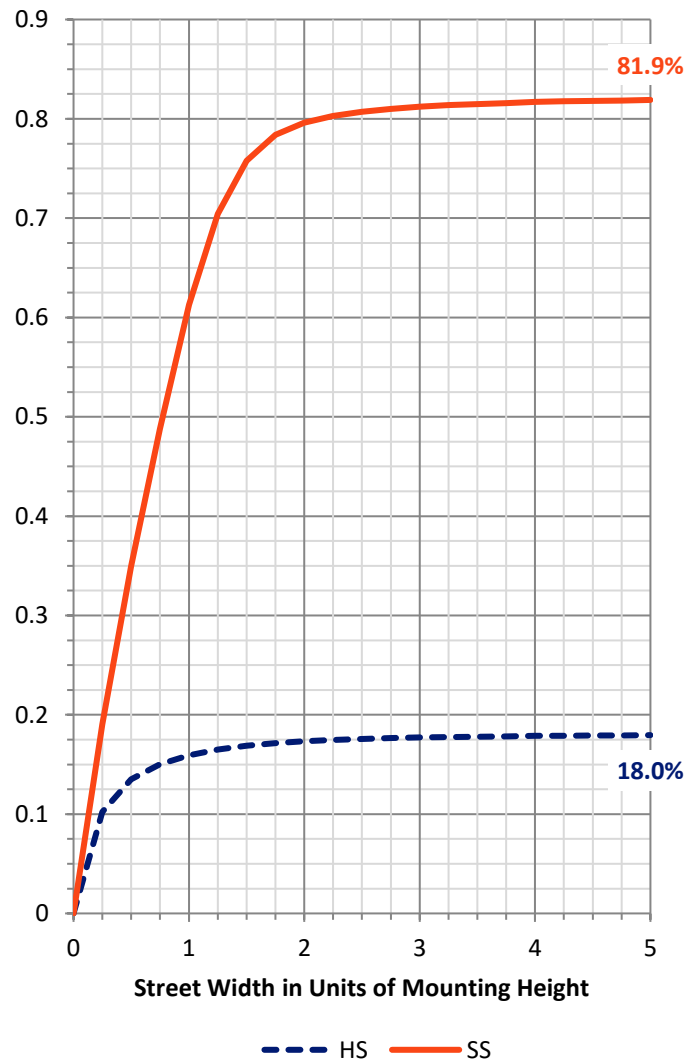
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8991.3	0.0	8991.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40645.7	0.0	40645.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	49637.0	0.0	49637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	1.5
10°-20°	1903.8	3.8
20°-30°	3049.3	6.1
30°-40°	5392.0	10.9
40°-50°	9447.4	19.0
50°-60°	12600.2	25.4
60°-70°	11730.1	23.6
70°-80°	4502.0	9.1
80°-90°	279.6	0.6
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°	49637.0	100.0
0°-180°	49637.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943984

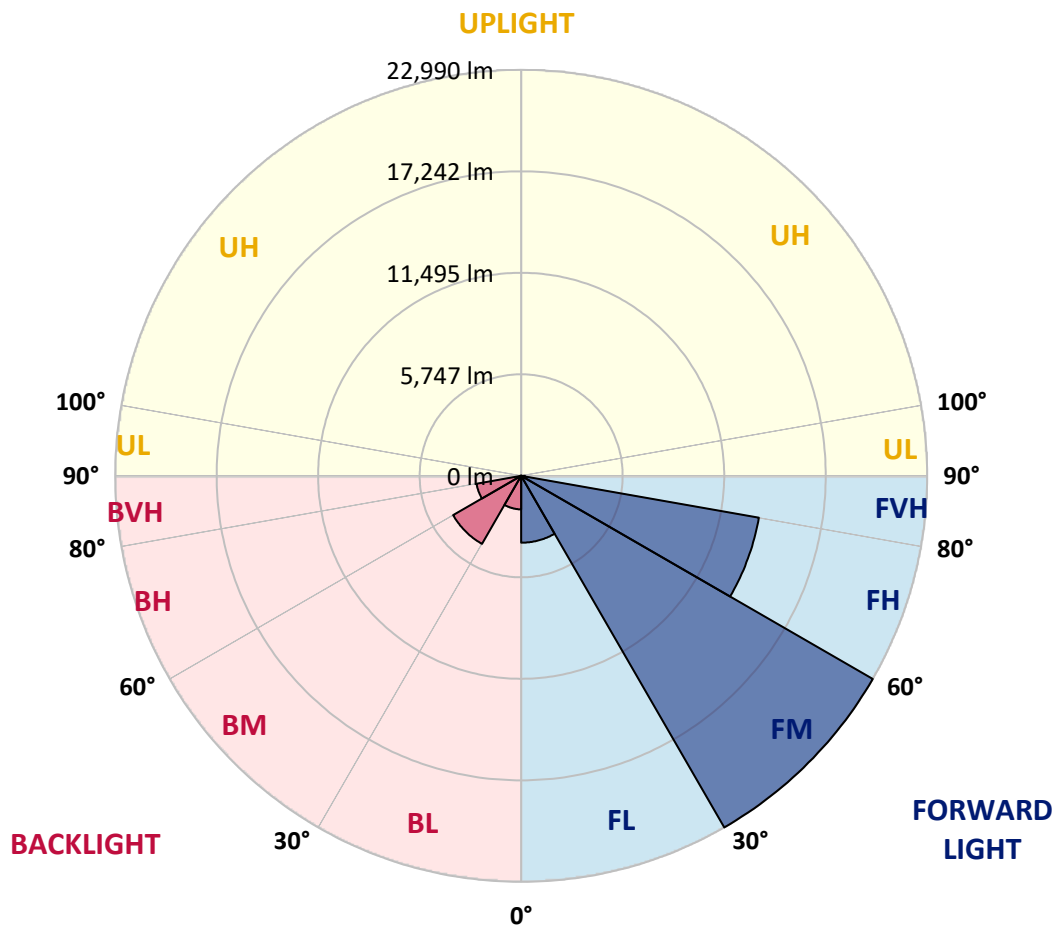
CATALOG NUMBER: GALN-SB8D-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3786.8	7.6			
FM	(30°-60°)	22989.8	46.3			
FH	(60°-80°)	13665.8	27.5			G5
FVH	(80°-90°)	203.3	0.4			G2/225
BL	(0°-30°)	1898.9	3.8	B3/2500		
BM	(30°-60°)	4449.8	9.0	B3/5000		
BH	(60°-80°)	2566.3	5.2	B4/5000		G4/5000
BVH	(80°-90°)	76.3	0.2			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 II Medium



REPORT NUMBER: P943984

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2
2.5°	8691.3	8741.4	8712.8	8698.5	8673.5	8637.7	8609.1	8519.8	8426.9	8366.1	8344.7
5°	8866.4	8916.5	8912.9	8927.2	8945.1	8955.8	8948.6	8848.6	8716.3	8612.7	8552.0
7.5°	8716.3	8773.5	8820.0	8891.5	9016.5	9148.8	9213.1	9191.7	9055.9	8912.9	8837.9
10°	8291.1	8351.8	8462.6	8630.6	8895.0	9180.9	9420.4	9531.2	9445.4	9288.1	9184.5
12.5°	7512.0	7572.8	7790.7	8155.3	8598.4	9095.2	9552.6	9849.2	9870.7	9713.4	9591.9
15°	6636.4	6697.2	6929.5	7386.9	8062.4	8859.3	9624.1	10185.2	10374.6	10238.8	10092.2
17.5°	6093.2	6146.8	6321.9	6690.0	7394.1	8387.6	9599.1	10542.5	10974.9	10867.7	10692.6
20°	5928.8	5975.3	6057.5	6314.8	6900.9	7898.0	9434.7	10878.5	11621.8	11561.0	11364.5
22.5°	6103.9	6146.8	6171.8	6286.2	6654.3	7576.3	9227.4	11221.5	12372.3	12379.4	12140.0
25°	6507.8	6550.7	6522.1	6593.5	6754.4	7476.3	9148.8	11625.4	13315.7	13394.4	13122.8
27.5°	7172.5	7176.1	7108.2	7104.6	7129.6	7626.4	9231.0	12057.8	14505.8	14652.3	14316.4
30°	8505.5	8451.9	8191.0	7908.7	7780.0	8076.6	9459.7	12568.8	15910.3	16171.2	15749.5
32.5°	10560.4	10481.8	10002.9	9327.5	8648.4	8802.1	9870.7	13151.4	17439.8	17911.6	17397.0
35°	12790.4	12769.0	12268.6	11264.4	10077.9	9834.9	10539.0	13916.1	19108.8	19859.3	19248.2
37.5°	14863.2	14852.5	14566.6	13383.6	11939.9	11275.1	11611.1	14916.8	20895.6	21982.1	21260.2
40°	16757.3	16789.4	16503.5	15445.7	13991.2	13122.8	13069.2	16153.3	22882.6	24294.3	23436.6
42.5°	18394.0	18429.8	18140.3	17357.6	16017.5	15166.9	14859.6	17668.6	24823.2	26778.0	25763.1
45°	19505.5	19727.0	19684.1	19058.7	18097.4	17214.7	17011.0	19569.8	27035.3	29411.9	28221.8
47.5°	19820.0	20023.7	20345.3	20431.1	19845.0	18976.5	19219.6	21860.6	29272.5	32049.3	30694.8
50°	19044.4	19233.9	19902.1	20792.0	21199.4	20931.4	21367.4	24315.7	31563.3	34679.6	33121.4
52.5°	17514.9	17707.9	18551.3	19959.3	21621.1	22464.5	23522.3	26735.1	33782.5	37170.4	35419.3
55°	15302.7	15506.4	16589.3	18183.2	20817.0	23097.1	25319.9	29151.0	35816.0	39411.2	37492.1
57.5°	12293.7	12443.8	13569.5	15799.5	18794.3	22468.1	26645.8	31788.4	37731.5	41612.6	39547.0
60°	8012.3	8144.5	9452.5	11939.9	15442.1	20366.7	26910.2	34729.6	40276.0	44475.2	42316.6
62.5°	5328.4	5417.8	6193.3	8019.5	10874.9	16332.0	25362.8	37077.5	44007.0	49457.0	47066.1
65°	3655.9	3745.3	4520.8	5793.0	7026.0	10803.4	20913.5	36766.6	47387.8	53413.1	50586.3
67.5°	2608.8	2683.9	3341.4	4542.2	5085.4	6275.5	14177.0	32792.6	46901.7	53563.2	50775.7
70°	1869.1	1911.9	2455.2	3538.0	4041.9	3770.3	7883.7	25080.5	41065.8	49460.5	46908.9
72.5°	1308.0	1322.3	1704.7	2694.6	3255.7	2751.8	3752.4	16721.5	31059.4	38821.5	36366.4
75°	886.3	904.2	1147.2	1976.3	2612.4	2101.4	1987.0	8966.5	18233.2	21488.9	19262.4
77.5°	543.2	550.4	739.8	1350.9	1954.8	1601.0	1279.4	3798.9	7054.6	6925.9	5903.8
80°	307.3	307.3	471.7	839.8	1333.0	1032.8	897.0	1615.3	2233.6	1962.0	1729.7
82.5°	171.5	175.1	343.1	521.8	882.7	611.1	493.2	746.9	964.9	854.1	743.3
85°	71.5	78.6	210.9	246.6	421.7	303.8	200.1	314.5	357.4	318.1	232.3
87.5°	7.1	10.7	64.3	46.5	50.0	60.8	28.6	60.8	50.0	50.0	35.7
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: P943984

CATALOG NUMBER: GALN-SB8D-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2	8223.2
2.5°	8276.8	8223.2	8087.4	7930.1	7722.8	7622.8	7487.0	7394.1	7315.4	7322.6	7251.1
5°	8437.6	8301.8	7998.0	7619.2	7147.5	6811.5	6454.2	6207.6	6007.5	5964.6	5868.1
7.5°	8659.2	8444.7	7912.3	7229.7	6432.7	5828.8	5289.1	4942.5	4695.9	4617.3	4538.6
10°	8945.1	8634.2	7801.5	6740.1	5592.9	4824.5	4245.6	3974.0	3806.0	3748.9	3706.0
12.5°	9277.4	8852.1	7654.9	6143.3	4728.1	3988.3	3620.2	3484.4	3430.8	3412.9	3402.2
15°	9695.6	9123.8	7433.4	5435.7	3995.4	3477.2	3320.0	3302.1	3309.3	3302.1	3298.6
17.5°	10192.3	9420.4	7072.4	4706.6	3502.3	3216.4	3159.2	3173.5	3191.3	3187.8	3180.6
20°	10735.5	9713.4	6611.4	4059.8	3166.3	3030.5	2998.4	3012.7	3027.0	3019.8	3016.2
22.5°	11353.8	10027.9	6100.4	3555.9	2941.2	2859.0	2823.3	2826.8	2826.8	2812.5	2805.4
25°	12093.5	10374.6	5564.3	3198.5	2769.6	2705.3	2662.4	2648.1	2626.7	2583.8	2576.7
27.5°	12976.2	10742.7	5049.7	2948.3	2633.8	2573.1	2523.1	2487.3	2433.7	2362.2	2355.1
30°	13969.7	11189.4	4613.7	2791.1	2526.6	2465.9	2408.7	2355.1	2276.5	2187.1	2180.0
32.5°	15138.4	11668.3	4295.6	2687.5	2430.1	2365.8	2297.9	2233.6	2147.8	2058.5	2062.0
35°	16532.1	12247.2	4109.8	2616.0	2355.1	2269.3	2194.3	2122.8	2058.5	1979.9	1972.7
37.5°	18043.8	12861.9	4052.6	2580.2	2305.1	2172.8	2087.1	2037.0	2029.9	1983.4	1979.9
40°	19698.4	13590.9	4095.5	2558.8	2251.5	2079.9	1987.0	1976.3	1994.1	1911.9	1915.5
42.5°	21449.6	14455.8	4167.0	2533.8	2176.4	1987.0	1897.7	1897.7	1883.4	1769.0	1769.0
45°	23343.7	15452.8	4238.5	2473.0	2087.1	1894.1	1826.2	1801.2	1740.4	1629.6	1626.1
47.5°	25252.0	16467.8	4292.1	2362.2	1979.9	1815.5	1754.7	1697.5	1608.2	1508.1	1504.5
50°	27063.9	17379.1	4234.9	2197.8	1858.3	1740.4	1676.1	1597.5	1501.0	1433.1	1422.3
52.5°	28682.8	18168.9	3991.9	2004.9	1729.7	1661.8	1604.6	1522.4	1443.8	1372.3	1365.2
55°	30090.9	18808.6	3563.0	1822.6	1615.3	1593.9	1536.7	1433.1	1325.9	1265.1	1258.0
57.5°	31441.7	19294.6	3027.0	1672.5	1511.7	1518.8	1433.1	1340.2	1240.1	1175.8	1168.6
60°	33239.3	19945.0	2483.7	1533.1	1400.9	1422.3	1329.4	1261.5	1136.4	1054.3	1043.5
62.5°	36112.6	20956.4	1972.7	1361.6	1272.3	1279.4	1240.1	1157.9	1007.8	911.3	904.2
65°	38392.7	20584.7	1554.6	1175.8	1125.7	1136.4	1136.4	1047.1	886.3	775.5	764.8
67.5°	38135.4	17625.7	1240.1	993.5	986.4	993.5	1018.5	943.5	786.2	696.9	682.6
70°	35129.8	14019.8	993.5	825.5	857.7	839.8	911.3	861.3	707.6	618.3	607.5
72.5°	28665.0	10099.4	757.6	682.6	657.6	686.2	822.0	775.5	589.7	489.6	478.9
75°	16750.1	5389.2	564.7	539.6	475.3	571.8	729.0	661.1	450.3	360.9	350.2
77.5°	5453.5	1879.8	414.6	396.7	353.8	461.0	621.8	557.5	368.1	285.9	275.2
80°	1461.7	568.2	282.3	260.9	228.7	343.1	493.2	443.1	264.5	185.8	182.3
82.5°	586.1	239.4	164.4	146.5	125.1	235.9	389.5	357.4	196.6	117.9	117.9
85°	189.4	78.6	60.8	46.5	57.2	146.5	232.3	243.0	139.4	60.8	46.5
87.5°	25.0	10.7	10.7	14.3	10.7	25.0	71.5	67.9	39.3	7.1	0.0
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)