

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: P950219

Luminaire Tested: **GALN-SB4D-727-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

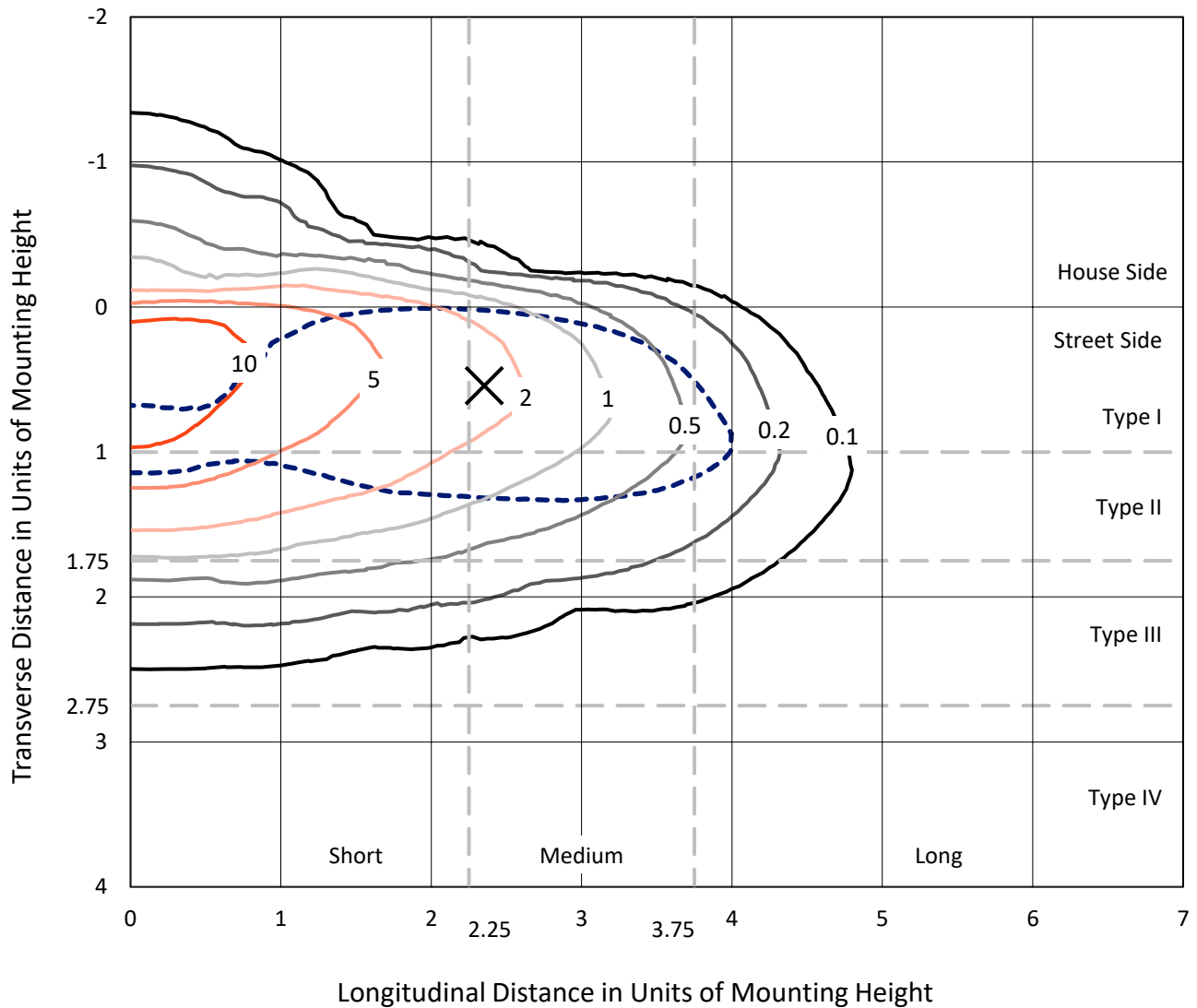
Lumens per Lamp: N/A  
Luminaire Lumens: 32028 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P950219  
 CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

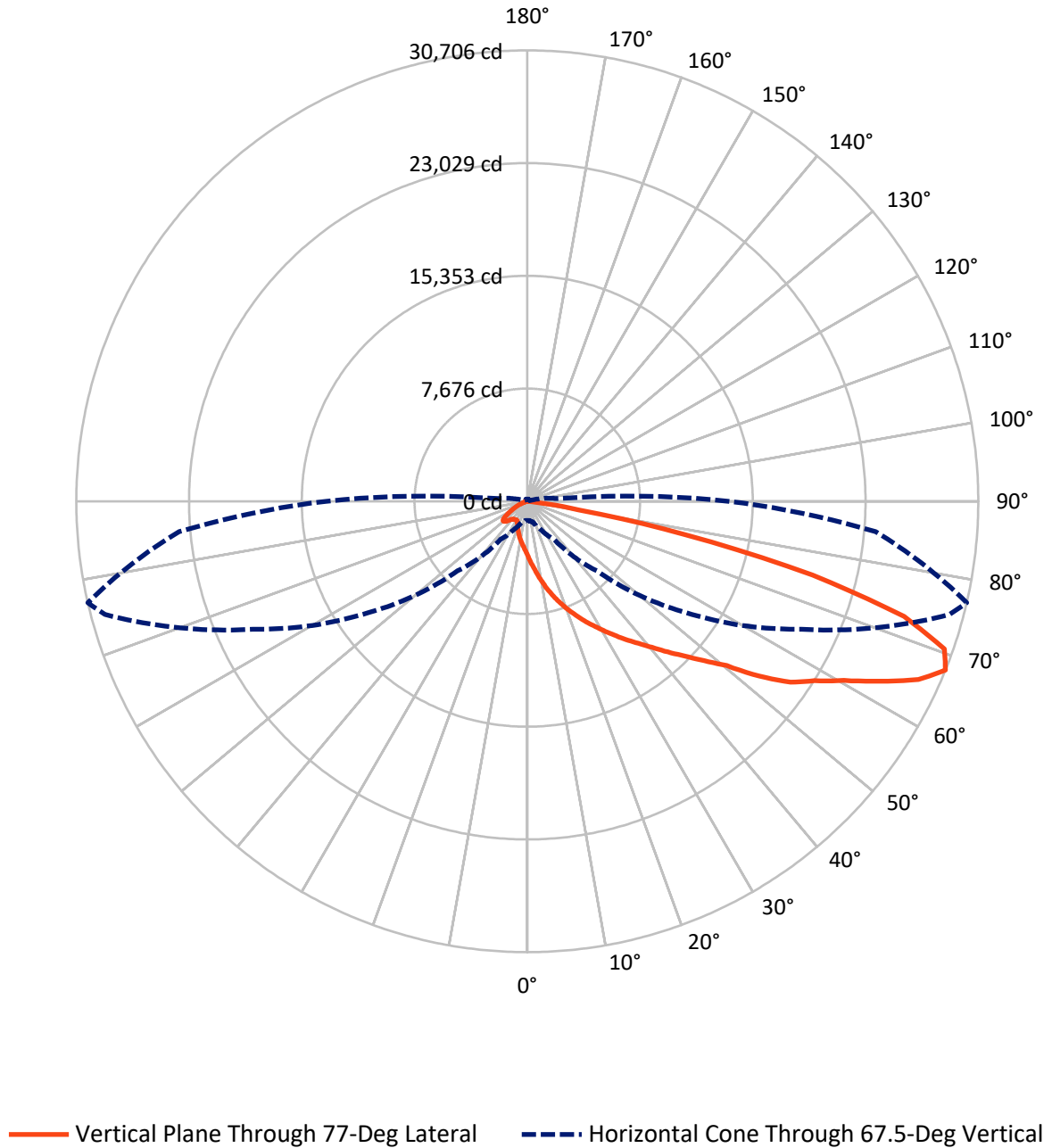
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P950219  
CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P950219  
 CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

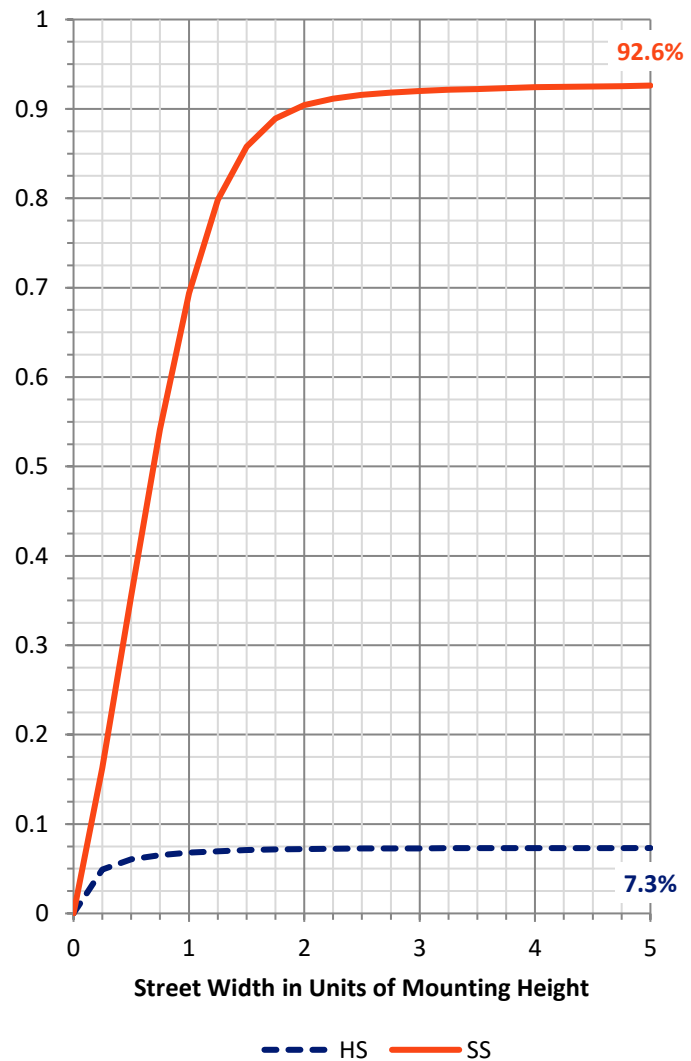
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2356.3	0.0	2356.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	29671.7	0.0	29671.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	32028.0	0.0	32028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.0	1.2
10°-20°	1320.1	4.1
20°-30°	2547.4	8.0
30°-40°	4422.4	13.8
40°-50°	6421.1	20.0
50°-60°	7373.8	23.0
60°-70°	6401.8	20.0
70°-80°	3015.3	9.4
80°-90°	149.1	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°	32028.0	100.0
0°-180°	32028.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P950219

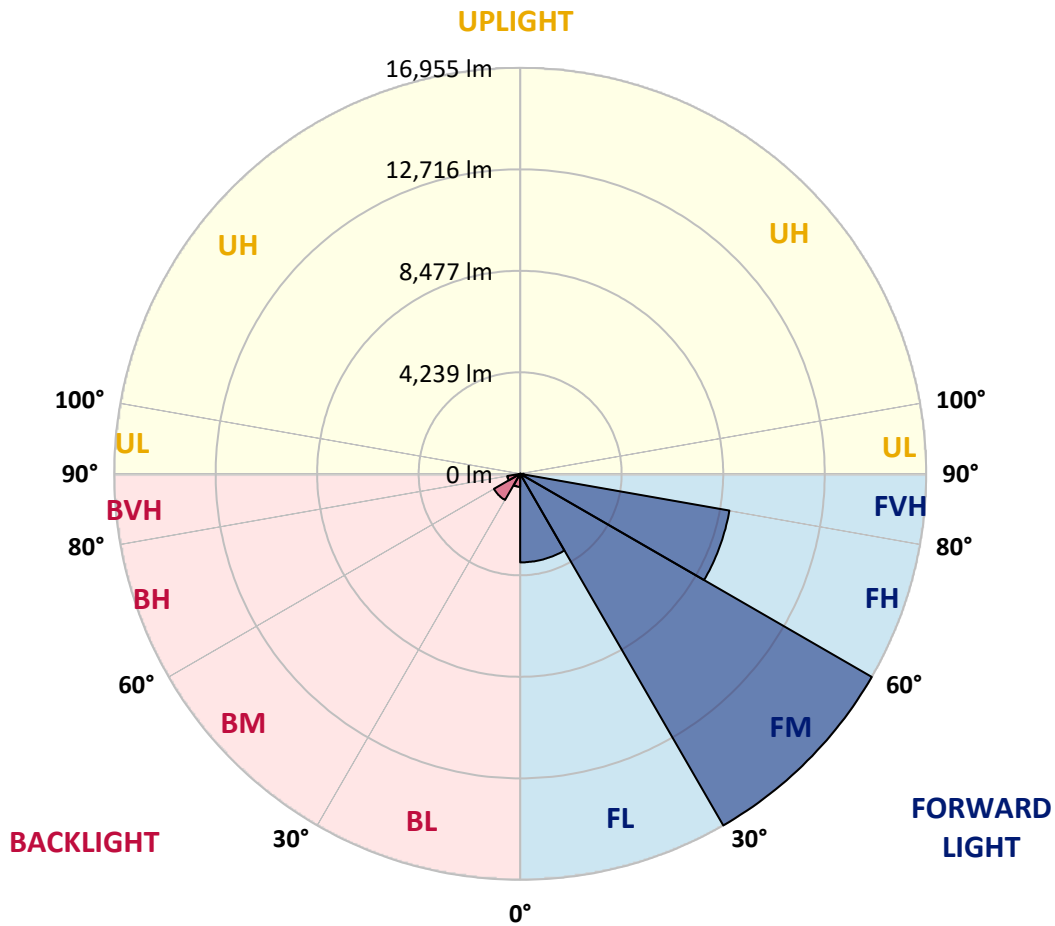
CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3698.9	11.5			
FM (30°-60°)	16954.8	52.9			
FH (60°-80°)	8871.7	27.7			G4/12000
FVH (80°-90°)	146.4	0.5			G2/225
BL (0°-30°)	545.5	1.7	B2/1000		
BM (30°-60°)	1262.5	3.9	B2/2500		
BH (60°-80°)	545.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	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-G4**

Type II Medium



REPORT NUMBER: P950219  
 CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3
2.5°	5113.3	5145.2	5099.4	5011.9	4880.6	4795.1	4586.3	4389.4	4170.6	4101.0	3882.2
5°	6233.1	6260.9	6209.2	6113.7	5938.7	5771.7	5497.2	5085.5	4657.9	4520.7	4132.8
7.5°	7062.4	7078.3	7058.4	6970.9	6803.9	6614.9	6308.6	5821.4	5186.9	5035.8	4441.1
10°	7659.1	7710.8	7704.8	7671.0	7559.6	7406.5	7080.3	6525.4	5779.6	5584.7	4789.2
12.5°	8054.9	8112.5	8146.3	8221.9	8215.9	8118.5	7832.1	7245.4	6370.3	6141.6	5181.0
15°	8170.2	8231.9	8361.1	8536.2	8691.3	8741.0	8540.1	7951.4	7020.6	6728.3	5582.7
17.5°	8104.6	8200.0	8355.2	8631.6	8971.7	9196.5	9174.6	8633.6	7611.3	7277.2	5976.5
20°	8249.8	8341.2	8462.6	8695.3	9091.0	9498.8	9661.8	9286.0	8198.1	7848.0	6390.2
22.5°	9053.3	9037.3	9049.3	9087.1	9323.7	9727.5	10063.6	9878.6	8778.8	8420.8	6827.7
25°	10326.1	10254.5	10133.2	9928.4	9868.7	10063.6	10413.6	10403.7	9391.4	9007.5	7275.2
27.5°	11785.9	11774.0	11489.6	10996.4	10717.9	10642.4	10809.4	10914.8	9998.0	9588.3	7724.7
30°	13184.1	13215.9	12832.1	12283.2	11772.0	11475.7	11324.5	11400.1	10614.5	10214.7	8188.1
32.5°	14401.3	14435.1	14017.4	13375.0	12742.6	12384.6	12066.4	11879.4	11286.7	10851.2	8697.3
35°	15429.5	15463.3	14984.0	14274.0	13599.8	13275.6	12915.6	12404.5	11962.9	11557.2	9264.1
37.5°	16348.4	16338.4	15696.0	14980.0	14317.7	14061.2	13872.2	13050.9	12659.0	12267.2	9892.6
40°	16891.3	16933.1	16384.2	15594.6	14952.2	14765.2	14753.3	13852.4	13462.5	13082.7	10580.7
42.5°	17050.4	17124.0	16726.2	16077.9	15495.2	15292.3	15604.5	14719.5	14397.3	14027.4	11358.3
45°	16764.0	16835.6	16654.7	16205.2	15865.1	15733.8	16336.4	15618.5	15395.7	15029.8	12235.4
47.5°	15928.7	16018.2	16062.0	15966.5	15962.5	16095.8	16992.8	16565.2	16581.1	16207.2	13251.7
50°	14311.8	14462.9	14864.7	15202.8	15725.9	16382.2	17631.2	17591.4	17917.6	17595.4	14576.3
52.5°	11372.3	11587.1	12971.3	13896.1	15071.5	16328.5	18333.2	19238.2	20262.4	19791.1	16443.8
55°	9138.8	9138.8	10264.5	11994.8	13794.7	15974.5	18639.5	20308.2	21859.5	21748.1	17758.5
57.5°	7450.2	7539.7	8257.7	9787.1	11947.0	15131.2	18828.5	20980.4	23146.3	23064.7	19043.3
60°	4598.2	4791.1	6147.5	7657.1	9844.8	13629.6	18709.1	21660.6	24707.5	24773.1	20590.6
62.5°	2589.5	2661.1	3265.7	5509.1	7655.1	11610.9	17796.3	22040.5	26704.3	26982.8	22185.7
65°	1788.0	1823.8	2056.5	3428.8	5306.3	9244.2	16012.3	21803.8	28705.1	29268.0	23538.1
67.5°	1298.7	1316.6	1461.8	2094.3	3148.4	6702.4	13215.9	20610.5	29765.2	30705.9	23796.6
70°	998.4	1010.3	1115.7	1376.3	1859.6	4136.8	9598.2	18237.8	28997.5	30121.2	22472.0
72.5°	811.5	823.4	904.9	1018.3	1233.1	2446.3	5817.4	14811.0	25608.5	26821.7	19130.8
75°	684.2	700.1	773.7	847.3	966.6	1571.2	2728.7	10314.2	19258.1	20053.6	13303.4
77.5°	379.9	350.0	628.5	702.1	815.4	994.4	1276.8	6070.0	10785.5	11006.3	5902.9
80°	236.7	244.6	499.2	564.8	626.5	501.2	584.7	2336.9	3739.0	3552.1	1143.6
82.5°	13.9	31.8	383.8	407.7	429.6	214.8	220.8	793.6	901.0	827.4	202.9
85°	0.0	0.0	175.0	141.2	149.2	61.7	63.6	185.0	121.3	131.3	39.8
87.5°	0.0	0.0	0.0	4.0	0.0	6.0	11.9	15.9	6.0	8.0	13.9
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: P950219  
 CATALOG NUMBER: GALN-SB4D-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3	3693.3
2.5°	3743.0	3603.8	3321.4	3044.9	2820.2	2611.4	2462.2	2321.0	2249.4	2245.4	2241.4
5°	3856.4	3564.0	2999.2	2500.0	2098.2	1776.0	1567.2	1418.1	1342.5	1316.6	1312.6
7.5°	4015.5	3576.0	2716.8	2022.7	1549.3	1272.9	1153.5	1105.8	1089.9	1072.0	1068.0
10°	4216.4	3603.8	2464.2	1628.9	1221.2	1081.9	1034.2	1014.3	1002.4	990.4	986.5
12.5°	4441.1	3629.7	2213.6	1352.4	1074.0	1002.4	968.6	944.7	928.8	914.9	910.9
15°	4659.9	3645.6	1953.1	1159.5	998.4	940.7	904.9	879.1	857.2	841.3	839.3
17.5°	4876.7	3667.4	1708.4	1044.1	936.7	879.1	843.3	811.5	793.6	775.7	773.7
20°	5117.3	3663.5	1477.7	962.6	875.1	817.4	779.6	749.8	731.9	712.0	710.0
22.5°	5340.1	3643.6	1274.9	893.0	811.5	755.8	714.0	684.2	666.3	650.4	648.4
25°	5596.6	3627.7	1105.8	829.4	751.8	696.1	650.4	622.5	602.6	588.7	586.7
27.5°	5843.2	3603.8	982.5	771.7	694.1	640.4	596.7	564.8	546.9	537.0	537.0
30°	6085.9	3597.8	936.7	716.0	642.4	588.7	544.9	515.1	501.2	497.2	495.2
32.5°	6378.3	3613.7	956.6	696.1	594.7	541.0	499.2	477.3	463.4	463.4	463.4
35°	6690.5	3609.8	986.5	714.0	562.8	493.2	461.4	447.5	433.6	433.6	433.6
37.5°	7082.3	3615.7	1010.3	743.8	550.9	453.5	435.6	417.7	409.7	409.7	409.7
40°	7667.0	3812.6	998.4	769.7	546.9	425.6	389.8	383.8	377.9	377.9	377.9
42.5°	8383.0	4240.2	1014.3	771.7	544.9	405.7	358.0	369.9	356.0	354.0	352.0
45°	9166.6	4707.6	1115.7	729.9	543.0	395.8	342.1	356.0	334.1	334.1	334.1
47.5°	9944.3	5171.0	1219.2	670.2	537.0	393.8	328.2	320.2	314.2	316.2	316.2
50°	11016.3	5548.9	1258.9	588.7	523.1	389.8	302.3	304.3	300.3	304.3	304.3
52.5°	12183.7	5628.5	1211.2	497.2	483.3	377.9	284.4	292.4	290.4	294.4	294.4
55°	12911.6	5542.9	1000.4	413.7	421.6	330.1	266.5	282.4	282.4	282.4	282.4
57.5°	13663.4	5179.0	710.0	336.1	350.0	270.5	250.6	272.5	270.5	268.5	268.5
60°	14204.4	4590.3	467.4	276.5	278.4	222.8	232.7	256.6	254.6	244.6	244.6
62.5°	14608.1	3939.9	300.3	234.7	212.8	200.9	212.8	232.7	224.7	202.9	198.9
65°	14562.4	3039.0	230.7	200.9	175.0	175.0	185.0	202.9	179.0	143.2	139.2
67.5°	13713.1	2056.5	190.9	169.1	147.2	145.2	153.1	169.1	153.1	121.3	117.3
70°	12195.6	1344.5	153.1	131.3	117.3	107.4	123.3	145.2	129.3	97.5	93.5
72.5°	9898.5	819.4	115.4	95.5	85.5	69.6	97.5	119.3	103.4	71.6	67.6
75°	6404.1	417.7	79.6	61.7	45.7	41.8	71.6	89.5	71.6	43.8	37.8
77.5°	2450.3	175.0	43.8	27.8	23.9	19.9	39.8	53.7	29.8	9.9	8.0
80°	471.4	73.6	21.9	13.9	11.9	8.0	6.0	4.0	0.0	0.0	0.0
82.5°	81.5	23.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	0.0	0.0	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	0.0

(END OF REPORT)