

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: P945927

Luminaire Tested: **GALN-SB1D-727-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7653 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

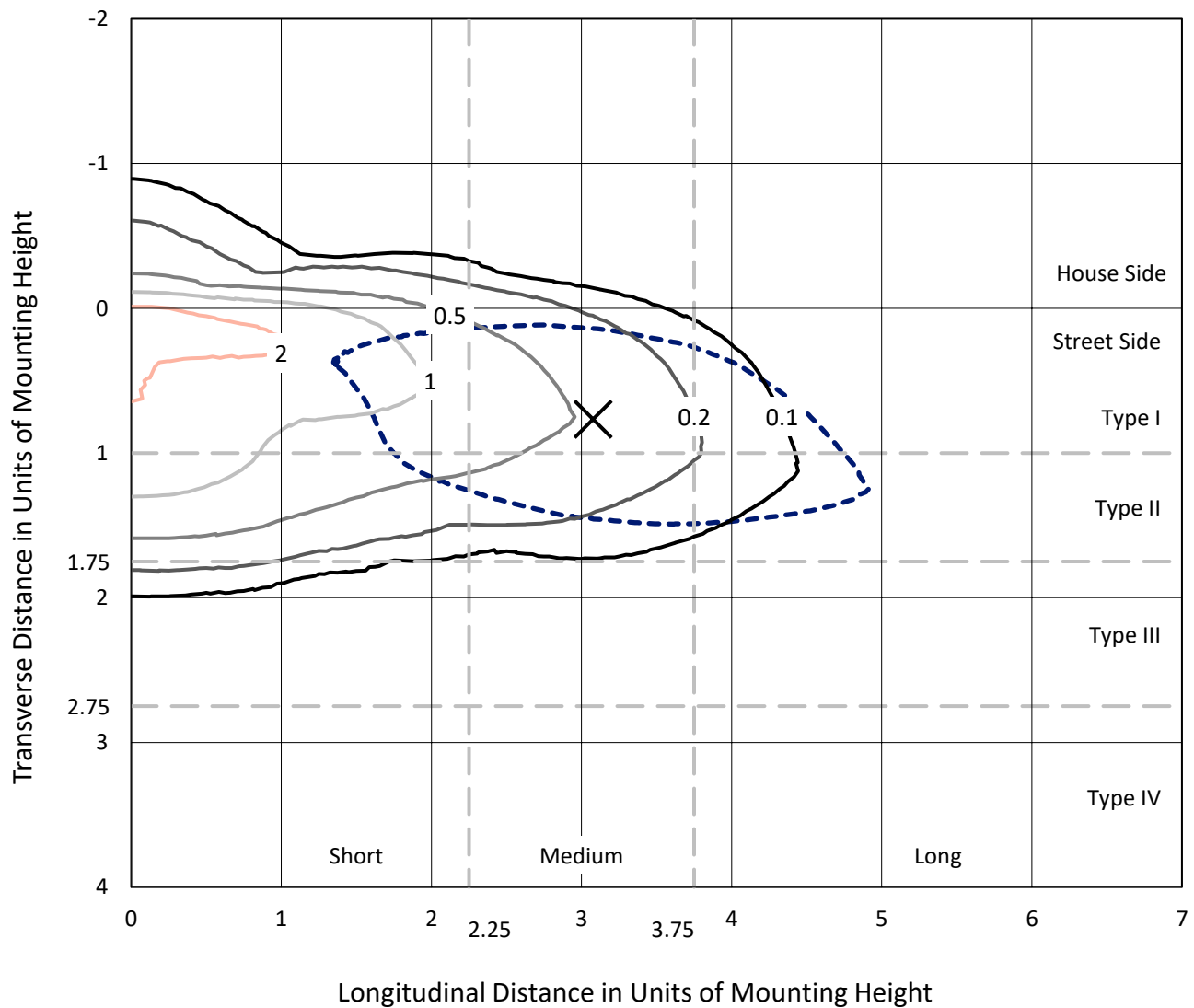
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945927
 CATALOG NUMBER: GALN-SB1D-727-U-SL2-HSS

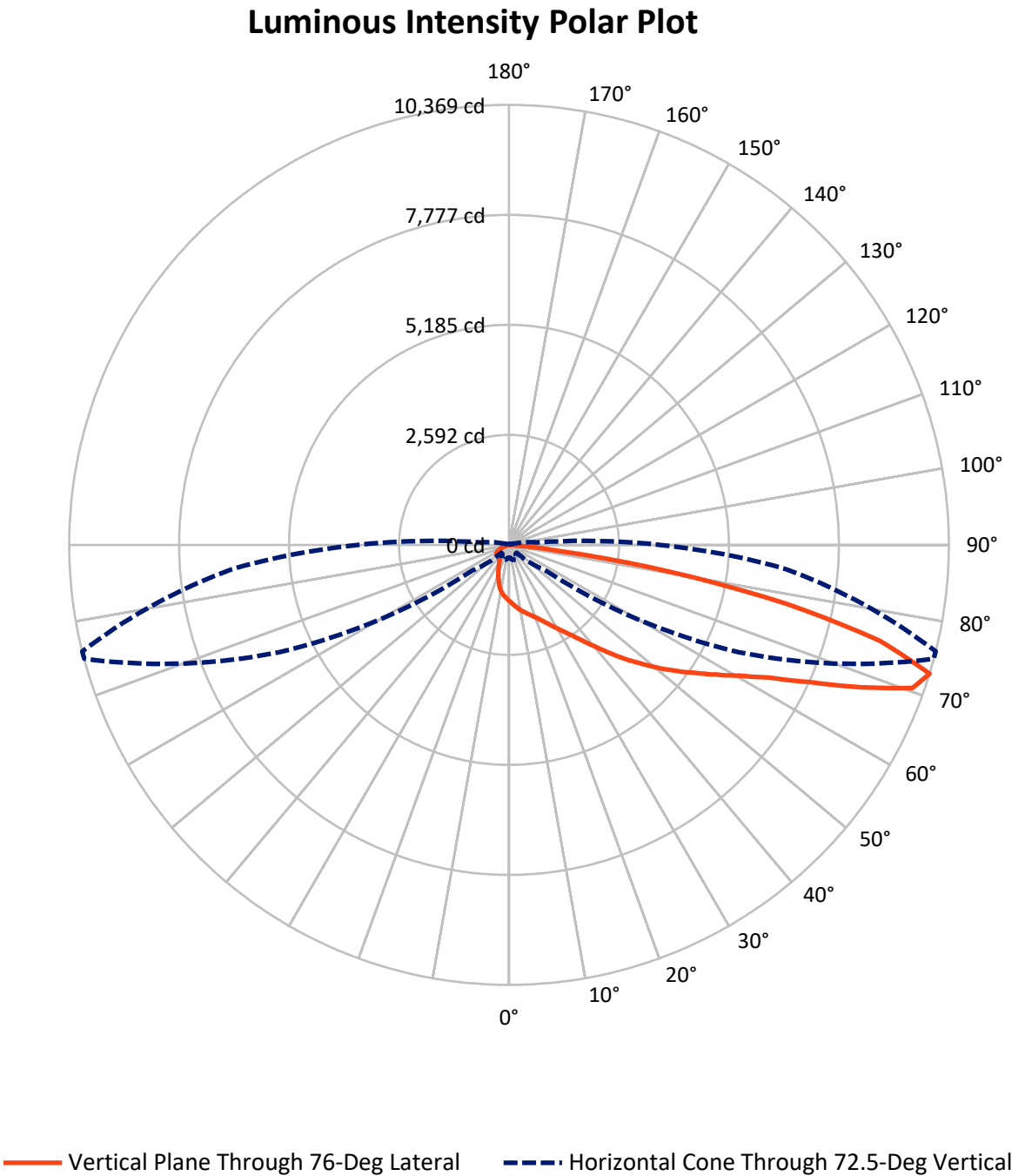
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB1D-727-U-SL2-HSS



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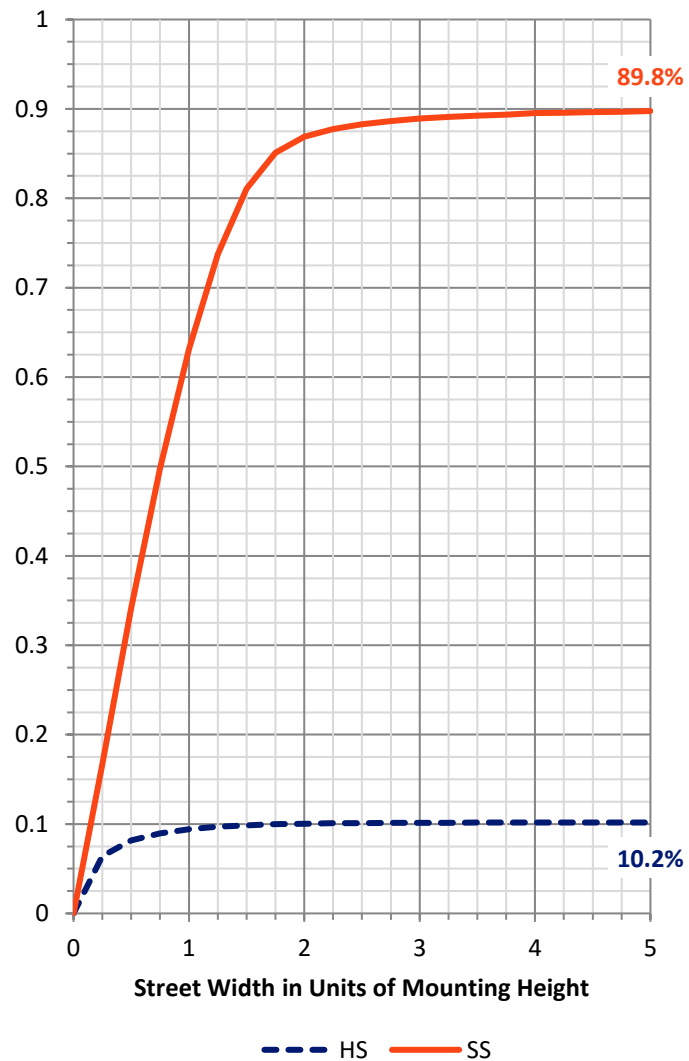
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.3	0.0	783.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6869.7	0.0	6869.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	7653.0	0.0	7653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.6
10°-20°	322.5	4.2
20°-30°	510.4	6.7
30°-40°	789.7	10.3
40°-50°	1199.5	15.7
50°-60°	1653.6	21.6
60°-70°	1746.9	22.8
70°-80°	1198.4	15.7
80°-90°	111.5	1.5
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°	7653.0	100.0
0°-180°	7653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945927

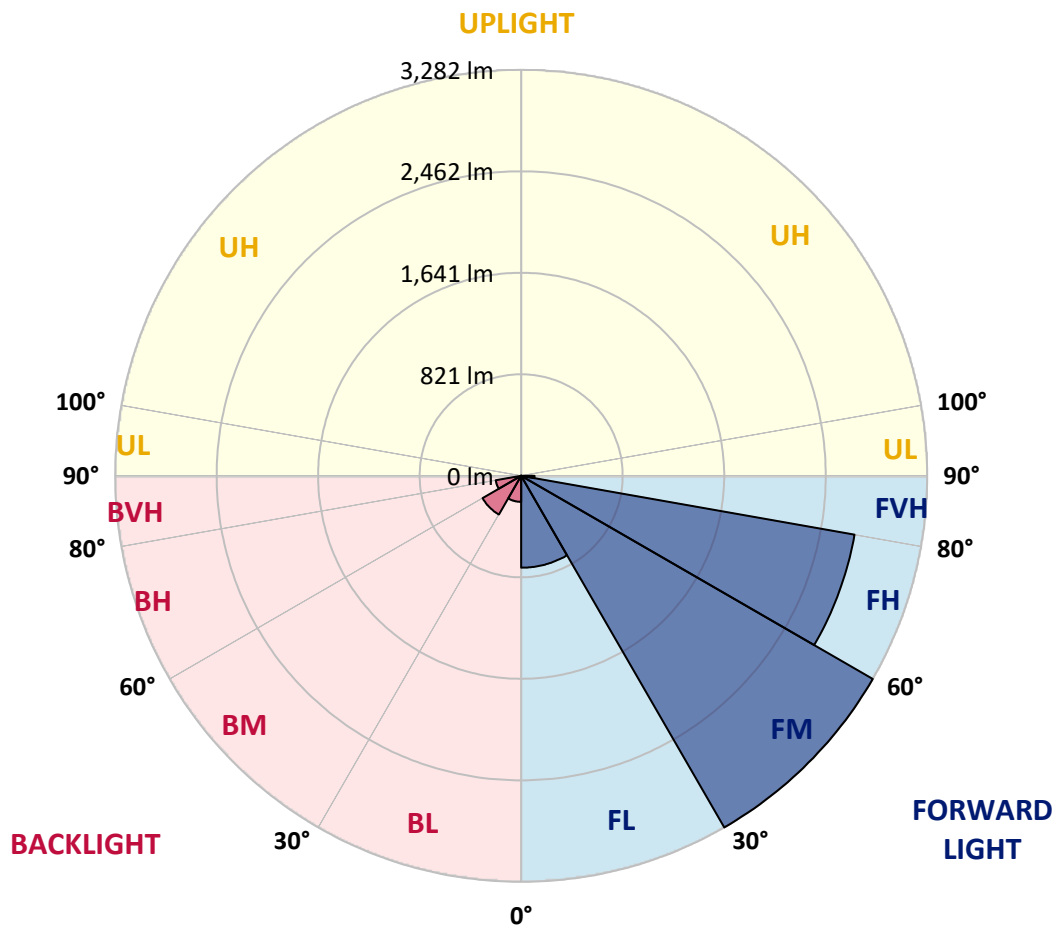
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.7	9.7			
FM	(30°-60°)	3282.2	42.9			
FH	(60°-80°)	2736.3	35.8			G2/5000
FVH	(80°-90°)	108.5	1.4			G2/225
BL	(0°-30°)	210.5	2.8	B1/500		
BM	(30°-60°)	360.6	4.7	B1/1000		
BH	(60°-80°)	209.1	2.7	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P945927

CATALOG NUMBER: GALN-SB1D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1537.5	1517.1	1521.1	1500.7	1491.3	1468.5	1444.6	1413.4	1378.6	1378.6	1344.8
5°	1699.3	1686.4	1686.4	1662.6	1644.2	1608.5	1565.8	1510.7	1445.1	1438.7	1374.6
7.5°	1798.6	1790.6	1795.6	1781.7	1766.8	1729.6	1678.9	1607.0	1514.1	1506.2	1409.9
10°	1817.9	1817.5	1831.4	1835.3	1845.3	1826.4	1781.2	1698.3	1582.1	1570.7	1440.2
12.5°	1743.0	1733.6	1767.8	1808.0	1864.6	1889.9	1866.6	1781.7	1644.2	1628.3	1468.5
15°	1619.9	1621.9	1654.6	1716.7	1811.0	1901.3	1931.6	1863.1	1707.2	1688.4	1495.3
17.5°	1549.4	1541.9	1570.2	1625.8	1730.1	1857.7	1961.9	1939.1	1774.3	1752.9	1522.6
20°	1540.9	1540.4	1546.9	1572.2	1651.6	1795.1	1958.4	2013.0	1853.2	1828.4	1561.8
22.5°	1599.5	1598.5	1593.1	1588.1	1609.9	1734.1	1943.5	2083.5	1947.5	1920.7	1617.4
25°	1689.4	1687.9	1679.4	1649.2	1627.8	1701.3	1929.6	2149.1	2059.2	2029.4	1684.9
27.5°	1799.1	1798.1	1782.7	1737.0	1681.9	1704.3	1922.7	2216.6	2188.3	2159.0	1762.8
30°	1933.6	1931.6	1899.9	1835.3	1763.3	1751.4	1932.1	2292.5	2322.8	2300.5	1852.7
32.5°	2102.4	2096.9	2055.2	1957.9	1857.2	1814.5	1950.0	2370.5	2482.2	2461.3	1972.8
35°	2233.0	2224.5	2200.2	2114.3	1965.9	1891.9	1991.7	2462.8	2673.8	2655.4	2126.2
37.5°	2345.2	2336.7	2316.9	2246.4	2121.8	1990.7	2058.7	2585.9	2900.2	2891.2	2313.4
40°	2466.3	2452.4	2443.0	2367.5	2254.8	2133.2	2154.5	2729.9	3160.8	3161.8	2538.3
42.5°	2559.6	2554.2	2555.2	2497.1	2383.4	2302.0	2281.6	2892.2	3473.1	3482.5	2808.8
45°	2639.5	2635.1	2653.4	2612.7	2513.0	2412.7	2430.5	3075.9	3814.6	3834.0	3111.7
47.5°	2701.1	2706.1	2732.4	2706.1	2647.5	2490.6	2562.6	3274.0	4173.5	4176.0	3424.4
50°	2762.7	2764.7	2808.3	2795.4	2771.6	2589.4	2684.2	3495.4	4551.8	4556.3	3716.8
52.5°	2782.0	2779.0	2848.5	2880.3	2881.3	2711.5	2841.6	3736.7	4922.7	4937.1	4017.7
55°	2682.7	2691.2	2803.4	2932.4	2983.6	2880.3	3054.1	4042.0	5317.8	5323.8	4315.5
57.5°	2197.2	2243.9	2492.1	2791.5	3049.6	3122.1	3359.4	4398.9	5774.0	5768.6	4617.3
60°	1333.4	1389.0	1685.9	2341.2	2834.2	3364.8	3809.2	4951.9	6272.5	6257.1	4922.7
62.5°	745.6	762.5	857.3	1401.4	2155.5	3210.5	4248.5	5662.3	6941.7	6889.5	5223.0
65°	549.6	555.0	577.4	686.6	1059.4	2469.3	4152.2	6511.7	7881.9	7789.1	5582.9
67.5°	477.6	483.0	504.9	519.8	473.1	1297.2	3420.9	6982.9	9075.8	8954.2	6069.9
70°	402.1	405.1	440.3	450.3	338.6	493.5	2197.7	6837.4	10180.9	10094.0	6592.7
72.5°	299.8	311.8	362.9	386.7	271.6	262.1	1034.6	5978.1	10368.1	10369.1	6557.4
75°	203.5	214.5	273.0	318.2	209.5	183.7	417.5	4464.0	9028.2	9028.2	5748.2
77.5°	139.0	147.9	190.1	249.7	158.9	126.1	216.4	2833.2	6477.0	6704.9	4097.1
80°	61.6	67.0	122.6	181.2	120.6	81.4	122.6	1551.4	3916.9	3868.7	1606.0
82.5°	30.3	34.8	78.4	113.2	77.9	50.1	64.5	737.7	1269.4	1206.3	250.7
85°	6.0	7.9	42.2	48.2	36.2	22.3	24.3	226.9	152.9	174.7	53.1
87.5°	0.0	0.0	12.9	8.9	4.0	5.0	5.0	20.4	11.9	13.9	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: P945927

CATALOG NUMBER: GALN-SB1D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1327.0	1308.6	1268.4	1228.7	1188.0	1150.7	1124.9	1099.1	1083.2	1076.3	1077.3
5°	1337.4	1300.2	1215.8	1127.4	1040.0	954.6	890.6	830.5	811.7	780.4	782.4
7.5°	1353.8	1293.2	1160.2	1011.2	869.3	744.2	653.8	581.8	553.0	525.2	524.7
10°	1364.7	1280.3	1086.7	887.6	695.5	555.0	468.6	416.5	397.6	380.8	380.3
12.5°	1369.2	1256.5	1002.3	749.1	541.1	423.0	371.3	347.0	340.6	334.6	334.6
15°	1373.1	1233.1	908.0	615.6	427.4	354.0	333.6	325.7	321.2	317.2	317.2
17.5°	1376.6	1203.4	800.3	500.4	360.9	326.2	316.2	307.8	304.3	299.8	299.8
20°	1388.5	1174.6	703.9	413.0	324.7	306.3	295.4	286.4	283.5	280.5	281.0
22.5°	1410.9	1151.2	610.6	354.0	302.8	285.9	272.0	262.1	260.1	258.1	256.7
25°	1437.7	1122.4	522.7	315.7	281.5	262.6	247.2	238.8	236.8	237.3	236.3
27.5°	1471.9	1090.7	447.3	291.4	262.6	240.8	223.4	216.9	217.9	219.9	218.9
30°	1509.7	1061.4	388.2	274.5	245.7	221.4	204.0	199.6	203.0	206.0	205.0
32.5°	1565.8	1035.6	347.0	261.1	230.8	205.5	191.6	186.2	190.1	194.1	193.1
35°	1642.2	1022.7	323.7	249.7	217.9	193.1	179.2	175.2	179.2	180.2	179.7
37.5°	1736.0	1021.7	313.7	240.3	206.0	182.7	167.3	165.8	168.8	169.3	168.3
40°	1857.2	1028.1	306.3	233.3	193.6	170.8	156.4	154.9	155.9	159.4	158.9
42.5°	2010.6	1054.9	295.9	224.4	180.2	158.9	147.4	144.0	143.5	147.4	146.9
45°	2203.2	1114.0	282.0	210.0	168.3	148.9	137.5	133.5	132.1	133.0	134.5
47.5°	2413.2	1186.5	268.1	196.6	159.9	141.0	129.6	124.6	122.1	122.1	122.1
50°	2616.7	1268.4	258.6	182.7	153.9	133.5	121.1	116.2	112.2	111.2	110.7
52.5°	2818.3	1348.8	251.2	168.8	146.9	124.1	113.2	107.7	103.3	101.3	100.3
55°	3001.9	1425.3	238.3	155.4	138.0	114.2	105.2	99.8	94.3	90.8	89.4
57.5°	3178.2	1488.8	214.5	141.5	124.1	104.7	96.8	90.8	84.4	79.9	77.9
60°	3338.5	1521.6	184.7	126.6	110.2	94.8	87.4	81.9	73.5	66.0	64.0
62.5°	3460.7	1508.7	152.4	109.7	95.8	85.9	76.5	71.0	61.1	52.1	48.7
65°	3585.8	1438.2	121.6	91.8	83.9	74.0	64.0	58.6	47.2	37.7	35.2
67.5°	3748.1	1287.8	95.8	76.5	72.5	58.6	50.1	46.7	38.7	29.8	27.8
70°	3852.3	1000.3	74.5	62.1	59.6	42.7	38.7	38.2	30.8	22.8	20.4
72.5°	3566.4	655.8	57.1	47.2	42.7	27.8	29.8	29.8	22.3	15.4	13.4
75°	2977.1	383.7	41.2	33.8	24.3	17.9	20.4	20.4	13.9	7.4	6.0
77.5°	2126.2	204.5	27.3	20.9	12.4	7.9	10.9	10.4	4.5	0.5	0.0
80°	813.2	70.5	12.9	8.4	3.5	1.5	1.0	0.5	0.5	0.0	0.0
82.5°	124.1	18.4	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	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)