

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: P955580

Luminaire Tested: **GALN-SB8C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43267 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 399.8
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

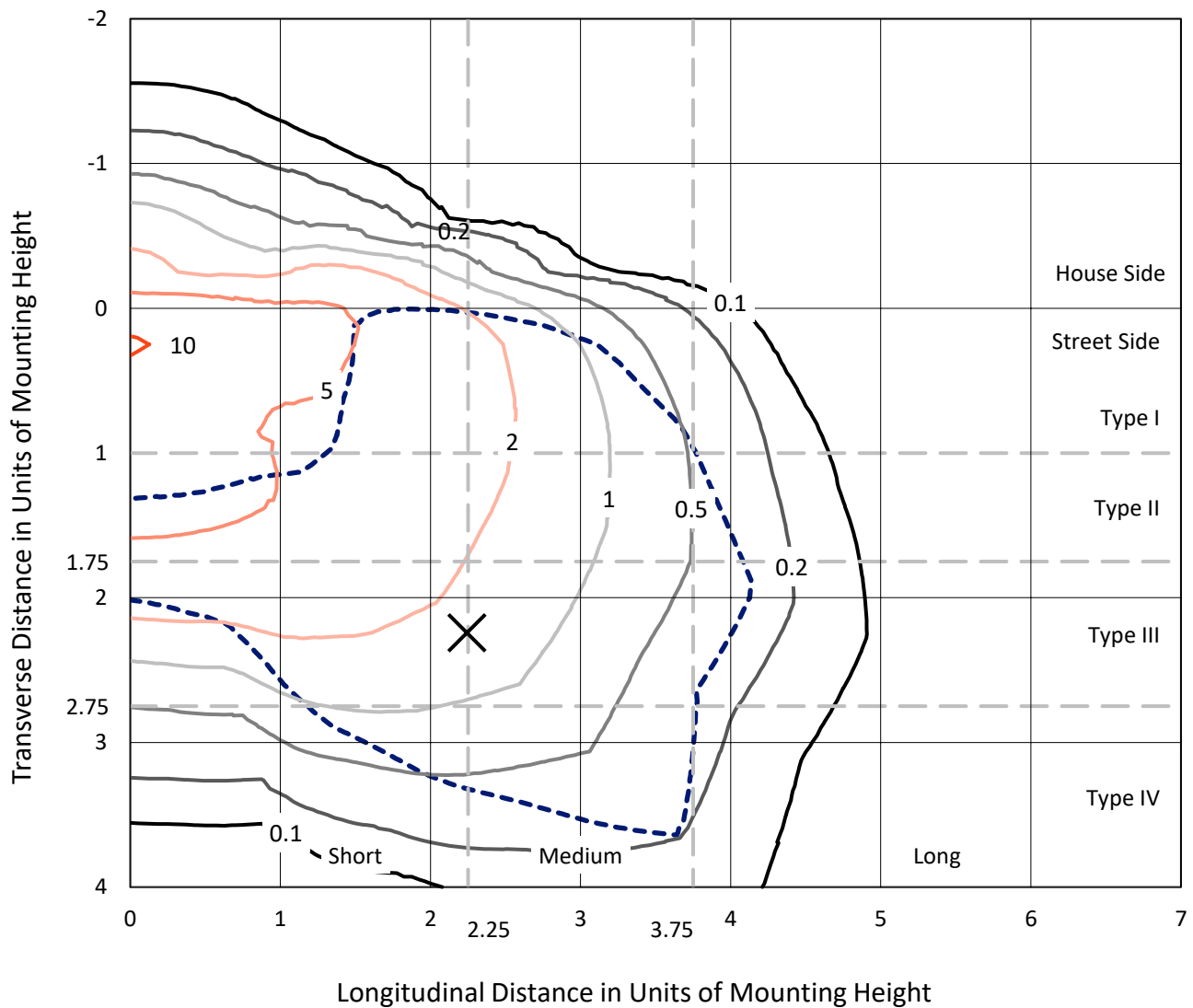


REPORT NUMBER: P955580

CATALOG NUMBER: GALN-SB8C-727-U-T4W-HSS

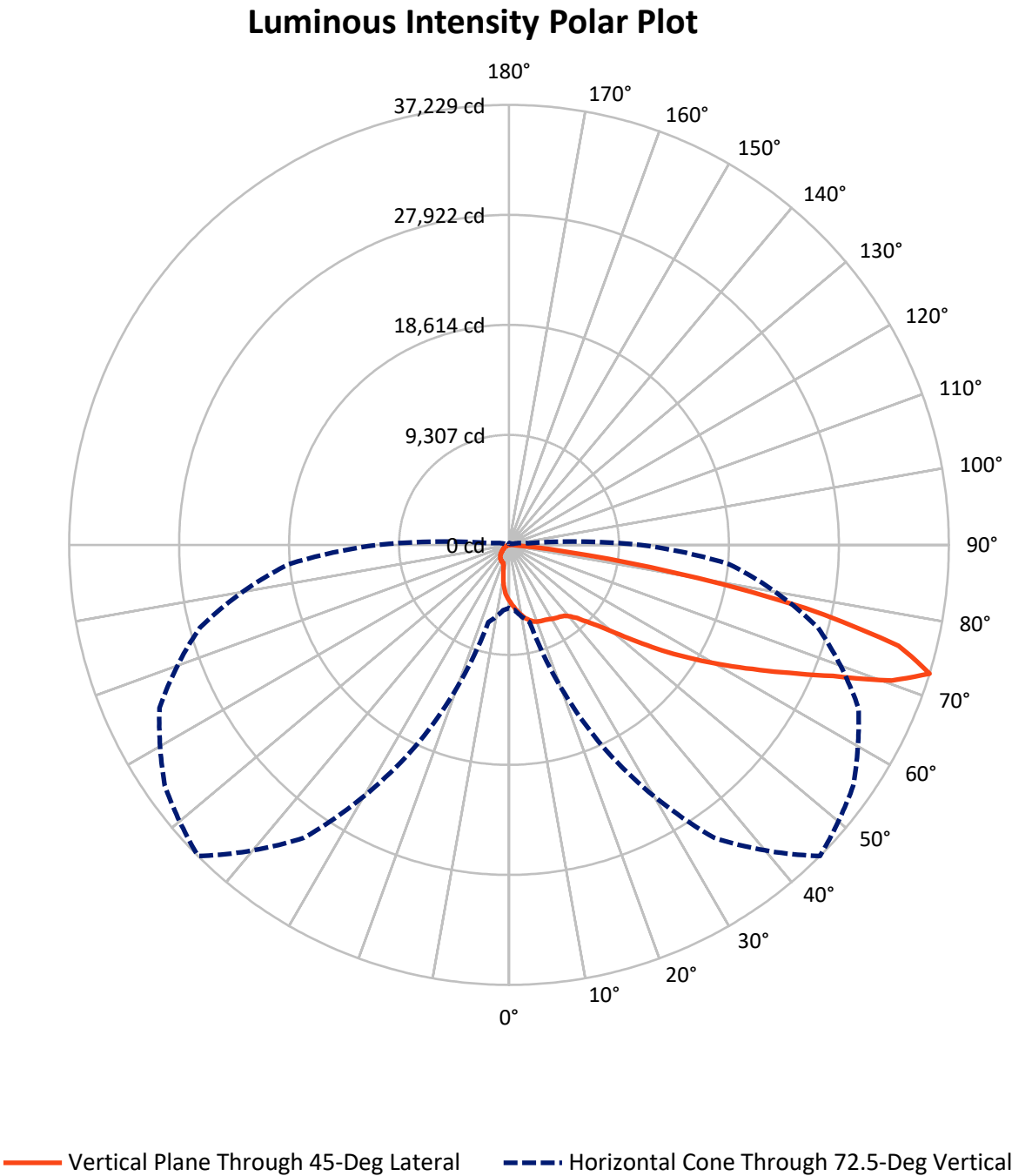
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type IV - Short - N/A

REPORT NUMBER: P955580
CATALOG NUMBER: GALN-SB8C-727-U-T4W-HSS



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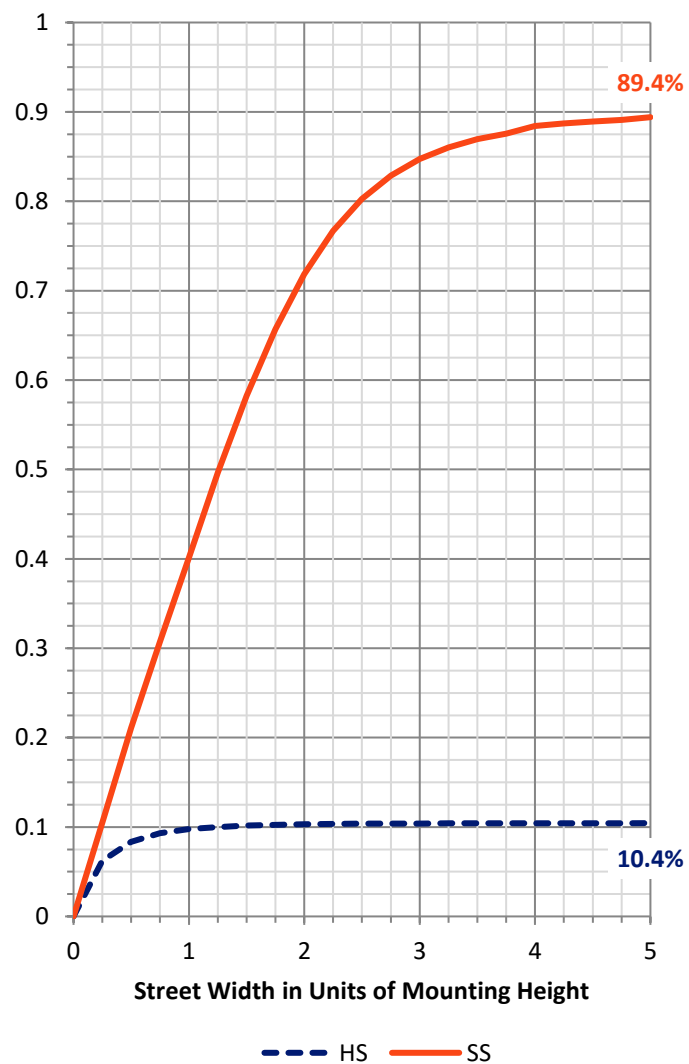
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4546.2	0.0	4546.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38720.8	0.0	38720.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	43267.0	0.0	43267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	1.0
10°-20°	1305.2	3.0
20°-30°	2143.4	5.0
30°-40°	3039.8	7.0
40°-50°	5024.5	11.6
50°-60°	9026.0	20.9
60°-70°	12533.1	29.0
70°-80°	9091.1	21.0
80°-90°	657.3	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°	43267.0	100.0
0°-180°	43267.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955580

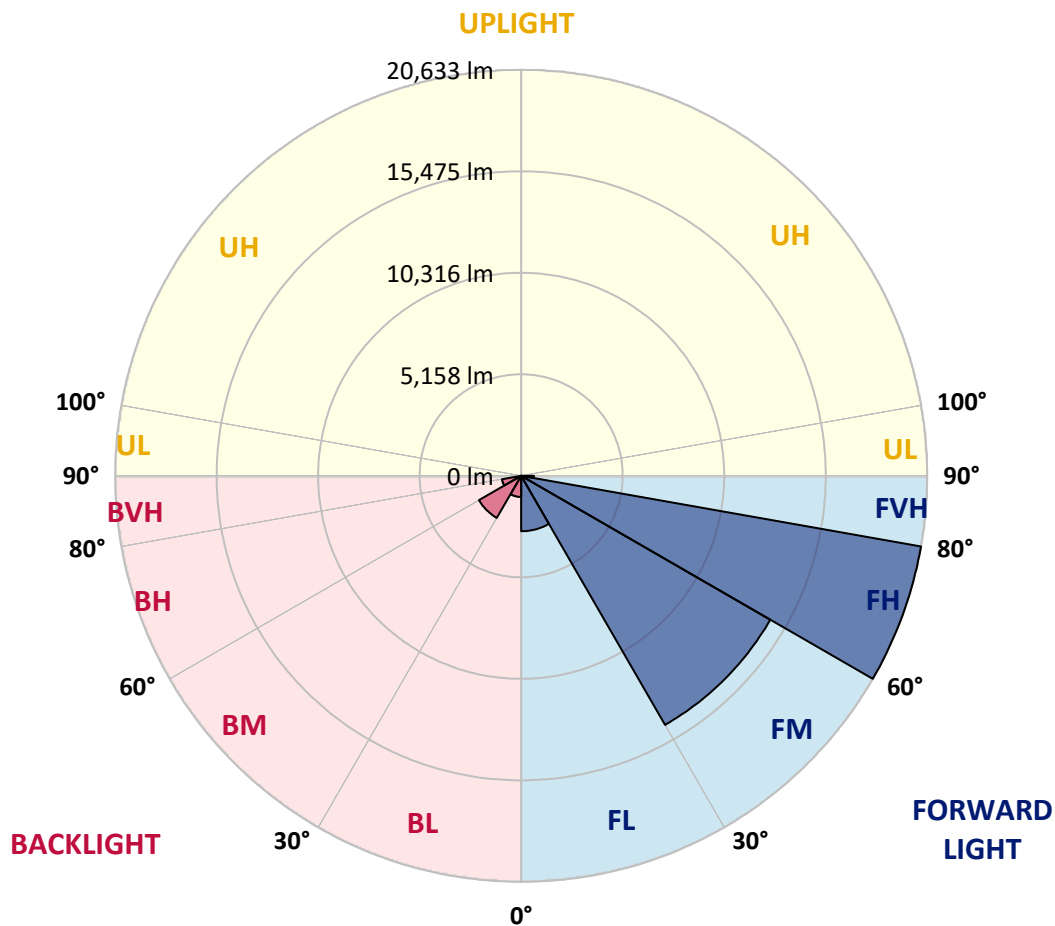
CATALOG NUMBER: GALN-SB8C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2818.4	6.5			
FM	(30°-60°)	14617.9	33.8			
FH	(60°-80°)	20632.8	47.7			G5
FVH	(80°-90°)	651.7	1.5			G4/750
BL	(0°-30°)	1076.8	2.5	B3/2500		
BM	(30°-60°)	2472.5	5.7	B2/2500		
BH	(60°-80°)	991.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P955580

CATALOG NUMBER: GALN-SB8C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0
2.5°	5177.1	5185.9	5180.0	5144.6	5085.5	5053.0	5035.3	4976.3	4937.9	4869.9	4799.1
5°	5652.6	5688.0	5667.3	5596.4	5484.2	5404.5	5380.9	5259.8	5150.5	5023.5	4875.8
7.5°	6157.6	6175.3	6136.9	6045.3	5894.7	5758.9	5738.2	5569.9	5395.6	5200.7	4999.9
10°	6594.6	6615.3	6556.3	6423.4	6252.1	6083.7	6054.2	5868.1	5661.4	5422.2	5165.3
12.5°	6960.8	6981.5	6904.7	6745.3	6556.3	6382.0	6352.5	6157.6	5930.2	5664.4	5345.4
15°	7238.5	7276.8	7173.5	7002.2	6798.4	6624.2	6609.4	6417.4	6196.0	5900.6	5561.0
17.5°	7400.9	7439.3	7341.8	7135.1	6960.8	6813.2	6795.5	6636.0	6429.3	6145.7	5770.7
20°	7427.5	7462.9	7359.5	7179.4	7034.7	6916.5	6907.7	6792.5	6641.9	6370.2	5998.1
22.5°	7347.7	7392.0	7297.5	7152.8	7052.4	6990.4	6978.6	6913.6	6828.0	6597.6	6210.7
25°	7265.0	7300.5	7229.6	7102.6	7049.4	7043.5	7052.4	7040.6	7022.9	6828.0	6458.8
27.5°	7259.1	7297.5	7217.8	7096.7	7067.2	7129.2	7138.0	7194.2	7208.9	7037.6	6698.0
30°	7309.3	7335.9	7259.1	7132.1	7117.4	7259.1	7262.1	7362.5	7386.1	7214.8	6934.3
32.5°	7418.6	7448.1	7371.4	7185.3	7164.6	7362.5	7371.4	7504.2	7542.6	7403.8	7182.3
35°	7675.5	7711.0	7622.4	7333.0	7259.1	7459.9	7486.5	7643.1	7719.8	7604.7	7439.3
37.5°	8316.4	8213.0	8091.9	7631.2	7474.7	7613.5	7657.8	7840.9	7976.8	7843.9	7746.4
40°	9908.2	9583.3	9205.3	8139.2	7852.7	7941.3	7976.8	8159.9	8345.9	8216.0	8168.7
42.5°	12297.4	11913.5	11305.1	9308.7	8422.7	8467.0	8493.6	8653.1	8915.9	8812.5	8824.4
45°	14426.7	14287.9	13667.7	11305.1	9488.8	9270.3	9302.8	9385.5	9772.4	9734.0	9810.7
47.5°	16062.8	15983.1	15504.6	13596.8	11290.3	10253.7	10345.3	10383.7	10941.9	11077.7	11284.4
50°	17320.9	17291.4	16863.1	15634.6	13644.1	11703.8	11736.3	11653.6	12489.4	12826.0	13218.8
52.5°	18508.1	18608.5	18292.5	17527.6	16157.3	13602.7	13596.8	13207.0	14335.2	14843.1	15513.5
55°	19580.2	19615.6	19648.1	19459.1	18685.3	15764.5	15708.4	15070.5	16476.3	17002.0	17728.5
57.5°	20587.2	20602.0	20891.4	21278.3	21316.7	18085.8	17982.4	17217.5	18815.3	19190.3	19636.3
60°	21263.5	21331.4	21942.8	23017.8	23487.3	20480.9	20424.8	19645.1	21195.6	21369.8	21287.1
62.5°	20288.9	20702.4	22244.0	24376.3	25536.9	23135.9	23109.3	22376.9	23700.0	23558.2	22849.4
65°	16423.1	17123.0	19834.1	25294.7	27548.1	26101.0	26139.4	25359.7	26272.3	25811.5	24119.3
67.5°	11488.2	12226.5	15433.8	25368.6	29795.5	29582.9	29804.4	28581.7	29004.0	27970.4	24420.6
70°	7944.3	8325.3	10413.2	23779.7	31546.8	34379.0	34373.1	32539.1	31721.0	28953.8	22884.9
72.5°	5342.5	5540.3	6763.0	18865.5	30259.2	37228.9	37057.6	35563.2	32636.5	27078.5	18697.1
75°	2253.3	2398.1	3130.5	10602.2	23939.2	34060.0	33596.4	31428.7	28998.1	21322.6	11665.4
77.5°	714.7	776.7	1234.5	3794.9	13186.3	25601.9	25111.6	19627.4	19435.4	10696.7	4264.5
80°	339.6	395.7	694.0	1523.9	5188.9	13924.6	13856.7	8904.1	8360.7	2888.3	856.4
82.5°	147.7	174.2	383.9	815.1	2321.3	4967.4	5067.8	3030.1	2507.3	1095.7	262.8
85°	47.3	62.0	177.2	375.1	980.5	1234.5	1219.7	720.6	1010.0	596.6	91.6
87.5°	0.0	0.0	59.1	85.6	100.4	70.9	79.7	62.0	280.6	165.4	32.5
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: P955580

CATALOG NUMBER: GALN-SB8C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0
2.5°	4763.6	4716.4	4633.7	4556.9	4489.0	4421.0	4379.7	4320.6	4314.7	4314.7	4329.5
5°	4796.1	4719.3	4571.7	4415.1	4235.0	4063.7	3892.4	3727.0	3673.9	3635.5	3653.2
7.5°	4890.6	4769.5	4536.2	4237.9	3895.4	3520.3	3257.5	2973.9	2864.7	2805.6	2814.5
10°	5026.5	4861.1	4506.7	3984.0	3428.7	2917.8	2542.8	2235.6	2117.5	2067.3	2067.3
12.5°	5177.1	4973.3	4453.5	3668.0	2917.8	2306.5	1940.3	1798.5	1780.8	1780.8	1780.8
15°	5357.2	5109.2	4362.0	3295.8	2383.3	1825.1	1695.2	1701.1	1718.8	1730.6	1730.6
17.5°	5543.3	5253.9	4217.3	2879.4	1910.8	1642.0	1645.0	1653.8	1668.6	1680.4	1680.4
20°	5744.1	5398.6	4025.3	2436.4	1639.1	1588.9	1597.7	1606.6	1618.4	1624.3	1627.2
22.5°	5959.7	5534.4	3797.9	2002.3	1547.5	1544.6	1547.5	1556.4	1571.1	1571.1	1577.0
25°	6190.0	5685.0	3538.0	1686.3	1500.3	1500.3	1506.2	1512.1	1523.9	1523.9	1526.8
27.5°	6426.3	5823.8	3263.4	1520.9	1458.9	1456.0	1456.0	1464.8	1470.7	1473.7	1476.6
30°	6686.2	5986.3	2988.7	1485.5	1426.4	1411.7	1402.8	1408.7	1414.6	1417.6	1423.5
32.5°	6952.0	6142.8	2743.6	1500.3	1393.9	1367.4	1337.8	1331.9	1331.9	1343.7	1352.6
35°	7247.3	6314.1	2554.6	1550.5	1376.2	1302.4	1255.1	1228.6	1231.5	1249.2	1258.1
37.5°	7601.7	6520.8	2415.8	1594.8	1364.4	1228.6	1151.8	1119.3	1098.6	1119.3	1113.4
40°	8065.4	6825.0	2315.4	1630.2	1349.6	1142.9	1039.5	986.4	948.0	959.8	953.9
42.5°	8747.6	7303.4	2277.0	1633.2	1317.2	1042.5	924.4	853.5	797.4	800.3	788.5
45°	9704.4	8059.5	2474.8	1594.8	1246.3	933.2	803.3	708.8	673.3	664.5	652.7
47.5°	11015.7	9161.0	2932.6	1515.0	1142.9	826.9	685.2	605.4	578.8	564.1	555.2
50°	12772.9	10575.6	3440.6	1426.4	1039.5	726.5	587.7	537.5	519.8	505.0	502.1
52.5°	14810.6	12010.9	3857.0	1337.8	936.2	637.9	525.7	496.1	481.4	469.6	466.6
55°	16680.0	13000.3	3833.3	1243.3	835.8	567.0	481.4	463.7	445.9	434.1	428.2
57.5°	17843.6	13139.1	3160.0	1140.0	720.6	510.9	440.0	428.2	407.6	392.8	389.8
60°	18378.2	12347.6	2214.9	1004.1	605.4	457.8	395.7	389.8	363.3	342.6	336.7
62.5°	18475.6	10876.9	1476.6	835.8	505.0	407.6	351.4	342.6	307.1	271.7	254.0
65°	18079.9	8774.2	1021.8	652.7	431.2	354.4	301.2	283.5	245.1	209.7	197.9
67.5°	16827.7	6160.5	711.7	469.6	366.2	280.6	239.2	233.3	203.8	174.2	165.4
70°	14533.0	3511.4	475.5	351.4	289.4	192.0	189.0	194.9	165.4	141.8	129.9
72.5°	11142.7	1606.6	295.3	256.9	197.9	129.9	150.6	153.6	127.0	106.3	94.5
75°	6559.2	688.1	186.1	165.4	100.4	85.6	109.3	112.2	85.6	67.9	59.1
77.5°	2232.7	259.9	118.1	97.5	50.2	47.3	70.9	70.9	47.3	26.6	20.7
80°	508.0	97.5	59.1	38.4	23.6	20.7	23.6	20.7	11.8	3.0	0.0
82.5°	144.7	38.4	23.6	14.8	8.9	8.9	3.0	0.0	0.0	0.0	0.0
85°	41.3	17.7	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	3.0	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)