

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: P647851

Luminaire Tested: **GALN-SA3A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8368.7 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

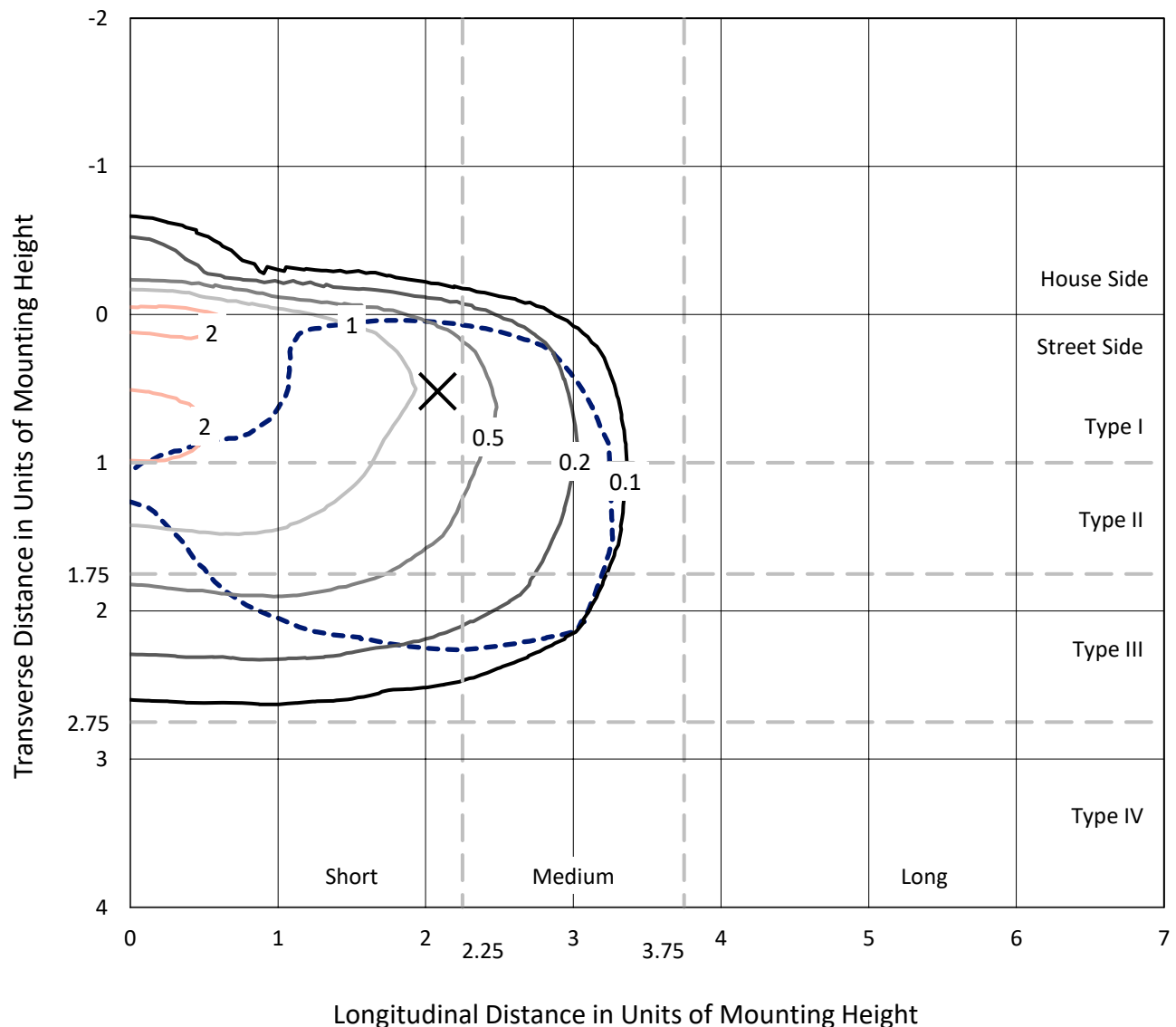
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647851
 CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

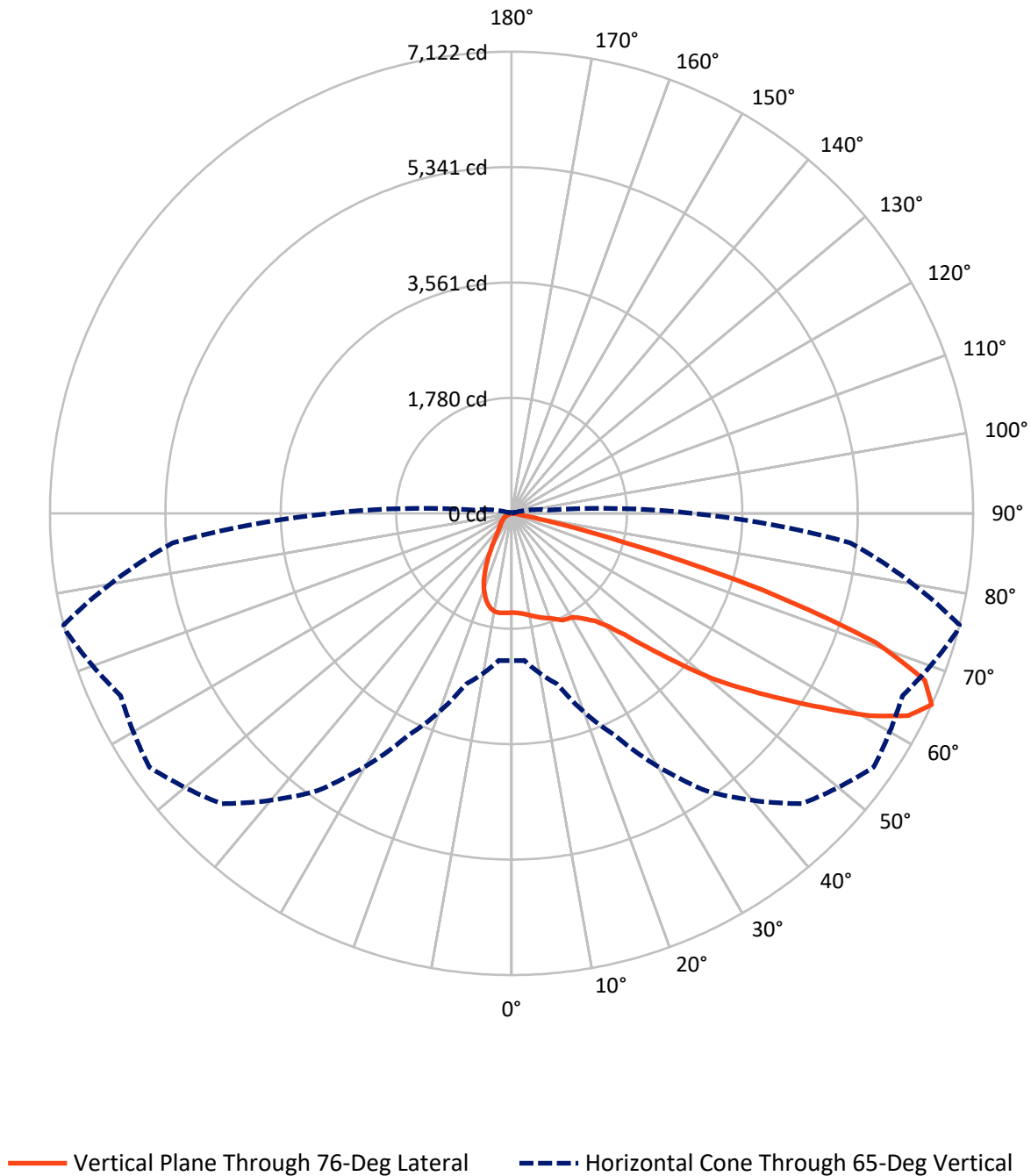
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

REPORT NUMBER: P647851
CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P647851

CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

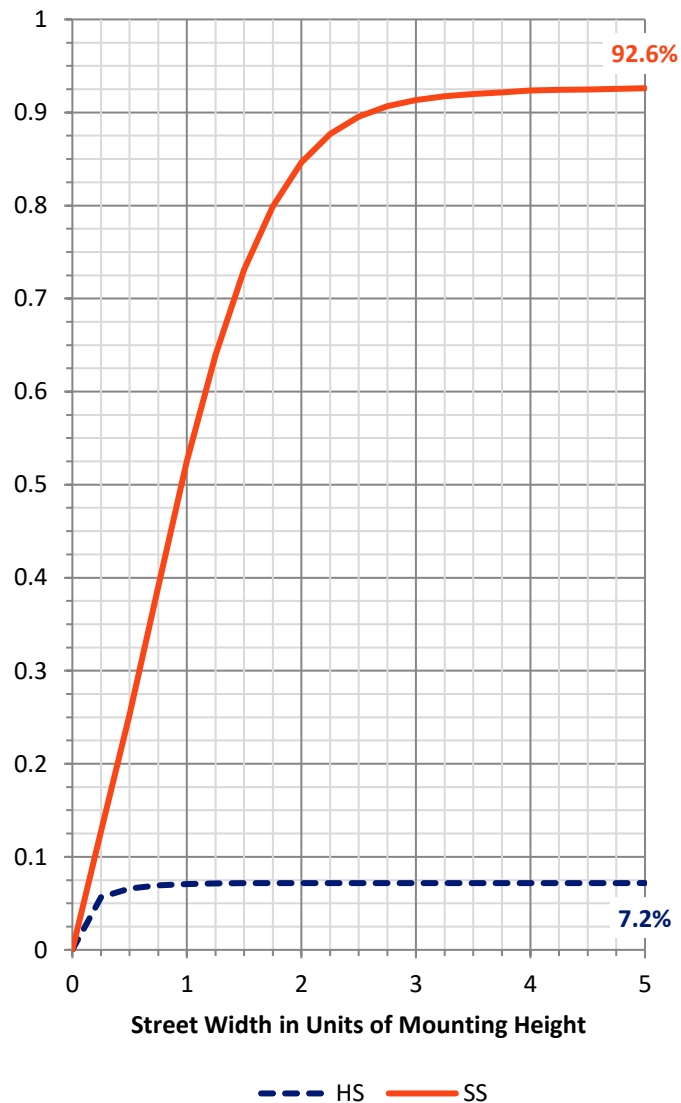
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.4	0.0	604.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7764.3	0.0	7764.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	8368.7	0.0	8368.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.5
10°-20°	280.8	3.4
20°-30°	452.5	5.4
30°-40°	786.7	9.4
40°-50°	1300.0	15.5
50°-60°	2008.3	24.0
60°-70°	2452.4	29.3
70°-80°	930.8	11.1
80°-90°	31.1	0.4
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°	8368.7	100.0
0°-180°	8368.7	100.0

Coefficient of Utilization



REPORT NUMBER: P647851

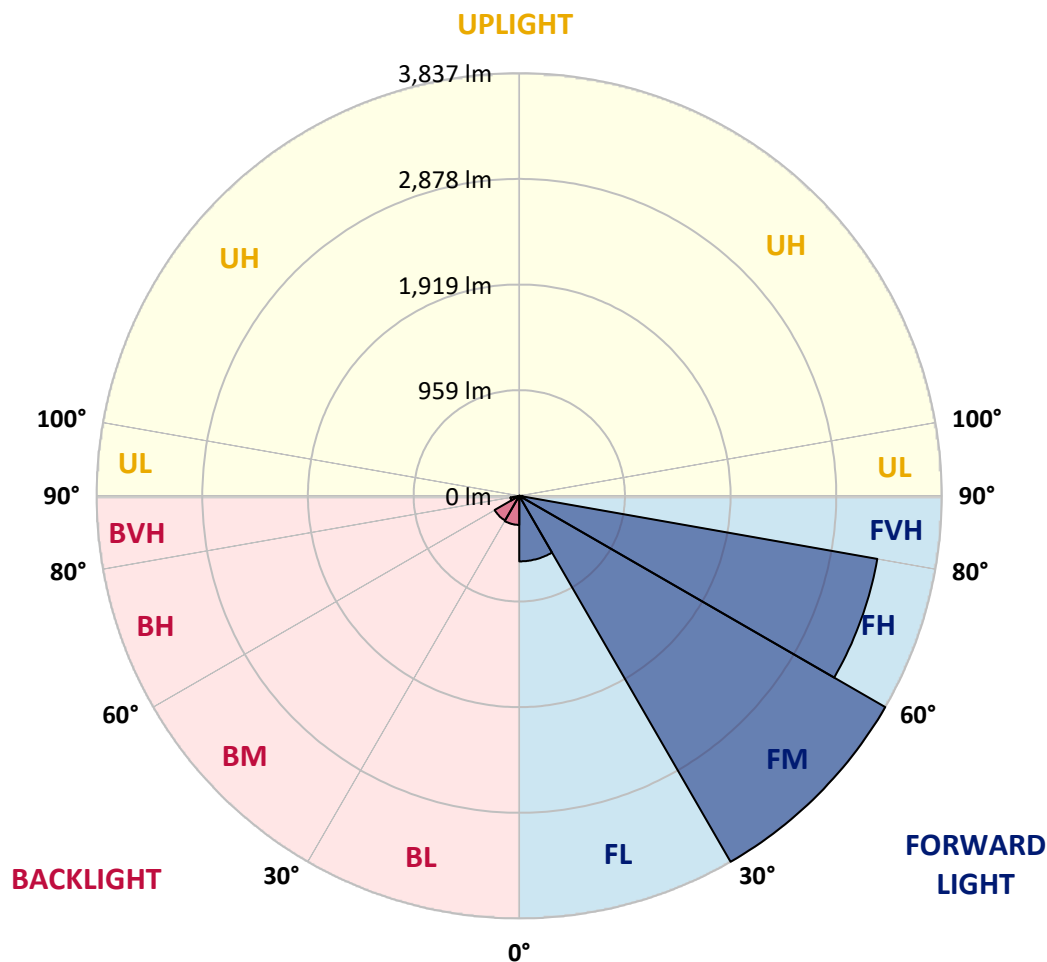
CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.3	7.1			
FM	(30°-60°)	3837.2	45.9			
FH	(60°-80°)	3301.2	39.4			G2/5000
FVH	(80°-90°)	30.6	0.4			G1/100
BL	(0°-30°)	264.0	3.2	B1/500		
BM	(30°-60°)	257.9	3.1	B1/1000		
BH	(60°-80°)	82.0	1.0	B0/110		G0/110
BVH	(80°-90°)	0.4	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 III Short





REPORT NUMBER: P647851

CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1463.0	1463.6	1467.1	1476.0	1489.6	1500.8	1510.3	1525.6	1536.2	1537.4	1540.9
5°	1362.0	1354.8	1362.0	1385.0	1405.6	1437.0	1475.3	1513.8	1548.1	1550.4	1566.9
7.5°	1248.5	1254.4	1265.6	1289.2	1328.2	1376.1	1431.6	1500.1	1565.1	1571.1	1603.6
10°	1133.2	1146.2	1164.6	1200.7	1255.0	1317.0	1392.6	1490.8	1592.4	1600.6	1656.7
12.5°	1026.9	1032.8	1055.2	1103.7	1171.1	1258.5	1363.1	1485.4	1622.5	1632.6	1713.4
15°	945.4	953.1	972.6	1016.3	1091.3	1203.5	1338.9	1483.6	1652.1	1666.2	1770.2
17.5°	930.0	934.7	943.0	972.6	1038.1	1159.9	1317.0	1483.1	1680.4	1697.5	1822.8
20°	993.2	989.1	980.8	977.9	1013.9	1126.2	1301.0	1487.8	1707.6	1727.1	1878.3
22.5°	1151.6	1156.9	1108.4	1051.1	1039.3	1120.9	1298.7	1510.3	1750.7	1773.7	1940.4
25°	1487.8	1447.0	1371.3	1234.3	1130.9	1153.4	1325.3	1563.4	1800.9	1826.3	1996.5
27.5°	1859.4	1847.0	1729.4	1503.8	1311.1	1221.9	1372.5	1604.1	1817.5	1843.5	2028.4
30°	2224.6	2239.3	2104.6	1855.3	1572.9	1349.0	1416.8	1619.6	1832.2	1859.4	2069.2
32.5°	2563.2	2580.8	2462.7	2215.7	1881.3	1568.7	1493.1	1679.2	1894.3	1922.0	2137.1
35°	2829.6	2832.0	2742.8	2546.0	2218.1	1835.8	1657.9	1783.8	1978.2	2010.7	2209.2
37.5°	3074.2	3070.7	2966.1	2796.5	2498.7	2101.1	1865.3	1904.3	2073.9	2107.6	2313.2
40°	3255.6	3258.0	3224.3	3064.7	2760.5	2346.3	2029.6	2017.2	2234.6	2287.2	2464.4
42.5°	3376.8	3398.6	3415.1	3334.2	3089.6	2648.2	2281.9	2258.8	2513.5	2557.2	2678.3
45°	3474.8	3513.8	3596.6	3592.4	3405.7	3018.7	2628.1	2580.8	2908.8	2955.4	2950.7
47.5°	3546.3	3585.9	3723.0	3805.7	3702.9	3377.9	3063.6	3022.8	3380.8	3431.7	3251.5
50°	3582.9	3630.2	3805.1	3965.2	3935.1	3724.2	3559.9	3562.3	3951.0	4000.1	3600.1
52.5°	3497.3	3558.7	3848.8	4137.1	4195.6	4055.6	4024.9	4102.9	4458.6	4500.5	3915.0
55°	3223.7	3301.1	3789.2	4283.7	4497.6	4446.7	4553.1	4671.8	5013.4	5040.6	4238.2
57.5°	3050.6	3132.7	3613.1	4408.4	4860.4	4938.4	5106.7	5193.6	5585.9	5655.1	4609.3
60°	2904.6	2969.1	3468.3	4434.9	5229.0	5539.9	5703.5	5793.3	6292.6	6337.5	5017.5
62.5°	2661.8	2735.6	3223.7	4249.4	5414.6	6021.4	6360.5	6320.4	6839.1	6870.4	5268.0
65°	2271.2	2277.7	2727.3	3783.2	5223.2	6333.9	6822.0	6653.6	7100.3	7121.5	5248.5
67.5°	1695.2	1757.8	2098.1	2973.8	4411.9	6066.9	6971.5	6662.5	6935.4	6876.4	4832.0
70°	1091.9	1139.7	1422.2	2062.1	3181.2	5063.0	6475.7	6205.7	6087.0	5955.8	3955.2
72.5°	504.0	565.5	844.9	1178.2	1886.6	3606.6	5256.8	5041.7	4381.2	4057.4	2514.1
75°	219.8	235.1	417.1	621.5	884.5	1907.3	3465.9	3129.7	1978.8	1807.4	1006.2
77.5°	134.1	144.2	218.6	333.2	347.4	726.8	1867.1	1365.5	611.5	539.5	273.0
80°	91.0	102.2	158.9	174.3	118.8	202.6	700.8	364.6	123.5	118.2	58.5
82.5°	44.3	56.1	117.6	97.5	51.4	65.0	203.8	78.0	36.0	33.7	20.7
85°	6.5	11.2	66.2	63.8	23.0	15.3	36.0	19.5	12.4	11.8	9.5
87.5°	0.0	0.0	22.5	10.0	2.3	2.3	4.1	4.1	4.7	4.1	4.7
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: P647851

CATALOG NUMBER: GALN-SA3A-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1542.7	1545.6	1534.4	1518.5	1501.3	1484.3	1460.0	1438.1	1425.1	1432.8	1413.9
5°	1570.5	1568.1	1538.6	1490.1	1425.8	1348.3	1271.5	1205.9	1184.7	1152.7	1149.2
7.5°	1608.9	1602.4	1539.8	1428.7	1283.3	1138.0	996.2	902.3	848.5	803.0	804.1
10°	1662.7	1643.8	1526.1	1320.5	1081.2	862.1	681.3	557.2	503.4	486.2	472.7
12.5°	1718.2	1681.6	1488.3	1174.7	842.0	589.1	414.2	338.6	305.4	294.8	293.6
15°	1767.9	1709.9	1422.2	999.1	612.1	376.4	282.4	257.6	253.5	254.1	253.5
17.5°	1816.9	1732.4	1330.6	813.0	415.9	270.1	242.8	236.9	238.7	241.1	240.5
20°	1857.7	1737.1	1213.6	620.4	294.3	236.9	228.1	226.9	228.6	230.4	230.4
22.5°	1902.0	1740.7	1074.7	429.6	240.5	220.4	215.6	215.6	218.0	220.4	221.0
25°	1935.0	1721.2	908.7	308.4	212.1	204.4	202.1	202.6	205.0	206.2	205.6
27.5°	1940.4	1666.2	732.7	236.3	192.6	184.9	182.6	184.9	182.0	183.8	182.6
30°	1945.1	1596.5	554.2	199.1	174.9	163.1	159.5	156.0	153.6	150.6	150.1
32.5°	1959.8	1514.3	404.7	179.0	158.3	145.3	137.1	127.0	119.3	117.0	116.4
35°	1966.3	1415.7	297.2	163.1	143.6	129.4	114.6	100.5	89.2	85.1	88.0
37.5°	1991.2	1320.0	230.4	151.3	130.6	112.8	94.0	76.2	65.6	63.2	64.4
40°	2042.0	1216.0	193.2	141.3	119.3	97.5	74.5	57.3	50.2	47.8	47.3
42.5°	2123.5	1112.6	171.9	131.8	108.1	82.1	58.5	44.9	39.0	37.2	37.2
45°	2222.8	1013.3	157.1	121.7	96.3	66.2	46.1	36.0	32.5	31.3	31.3
47.5°	2353.4	926.4	144.8	111.7	83.3	52.6	37.2	31.3	29.0	29.5	30.1
50°	2485.7	862.1	131.2	100.5	68.5	43.1	31.9	27.8	27.2	27.8	27.8
52.5°	2585.5	824.3	112.8	85.1	53.8	36.0	28.3	26.0	25.4	24.2	24.2
55°	2720.3	816.0	89.8	69.1	42.5	30.1	25.4	23.6	21.8	20.7	20.1
57.5°	2893.4	825.4	69.1	53.8	33.1	24.8	22.5	19.5	17.1	14.8	14.8
60°	3000.9	804.1	53.8	41.3	24.2	20.1	17.1	14.2	11.2	9.5	8.8
62.5°	2966.7	714.3	42.5	30.7	17.1	14.8	11.2	9.5	6.5	4.7	4.1
65°	2790.0	576.7	34.3	21.3	12.4	8.8	5.9	5.9	3.0	0.6	0.0
67.5°	2442.0	427.2	27.2	14.2	7.1	4.1	3.0	1.8	0.0	0.0	0.0
70°	1987.6	308.4	21.3	8.8	4.1	3.0	1.2	0.6	0.0	0.0	0.0
72.5°	1262.0	176.6	16.5	5.3	3.0	1.2	0.0	0.0	0.0	0.0	0.0
75°	488.0	69.1	11.2	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	138.3	32.5	6.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.0	14.2	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.1	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.6	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)