

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: P454335

Luminaire Tested: **GALN-SA5B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16381 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): 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

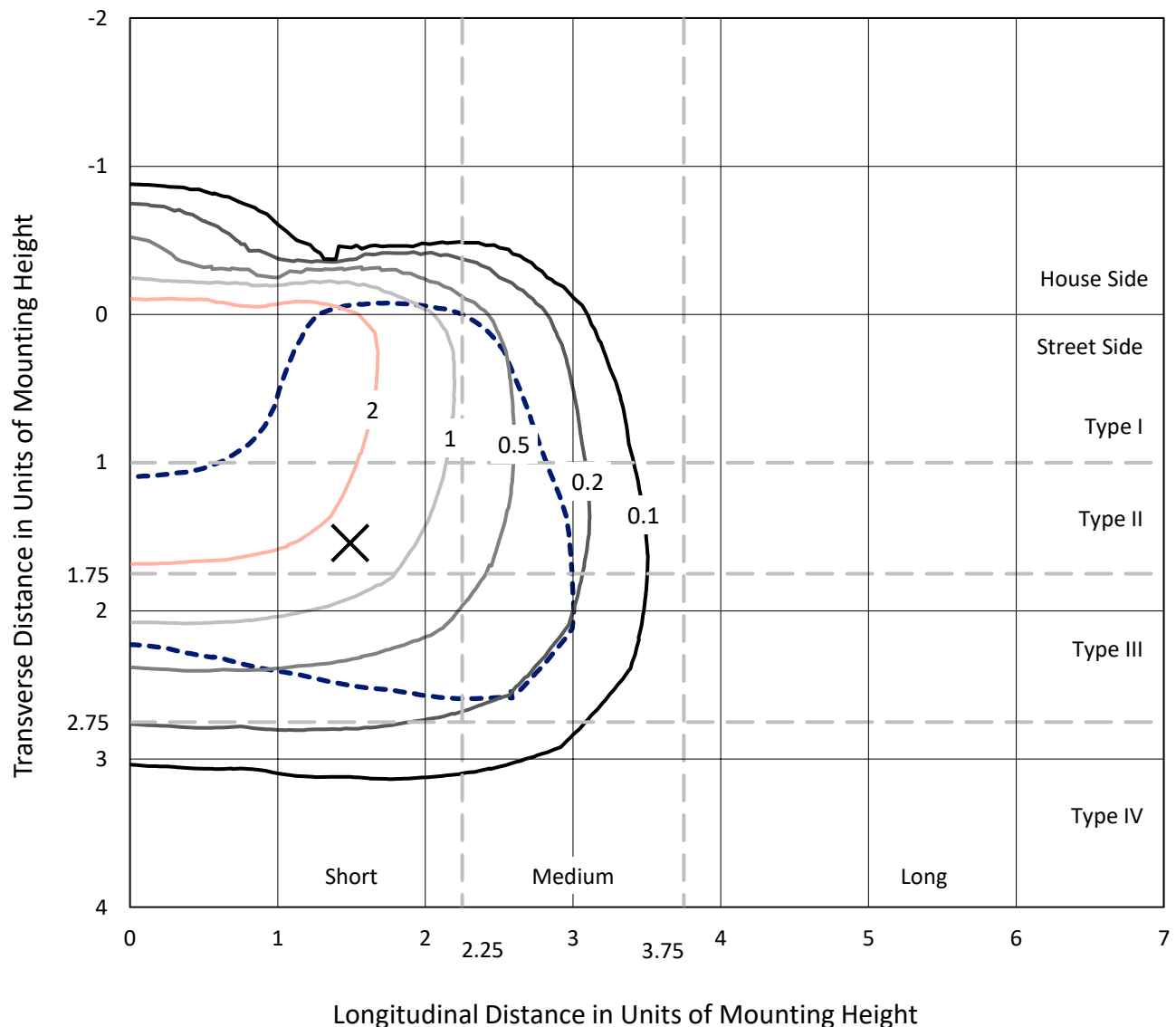


REPORT NUMBER: P454335

CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

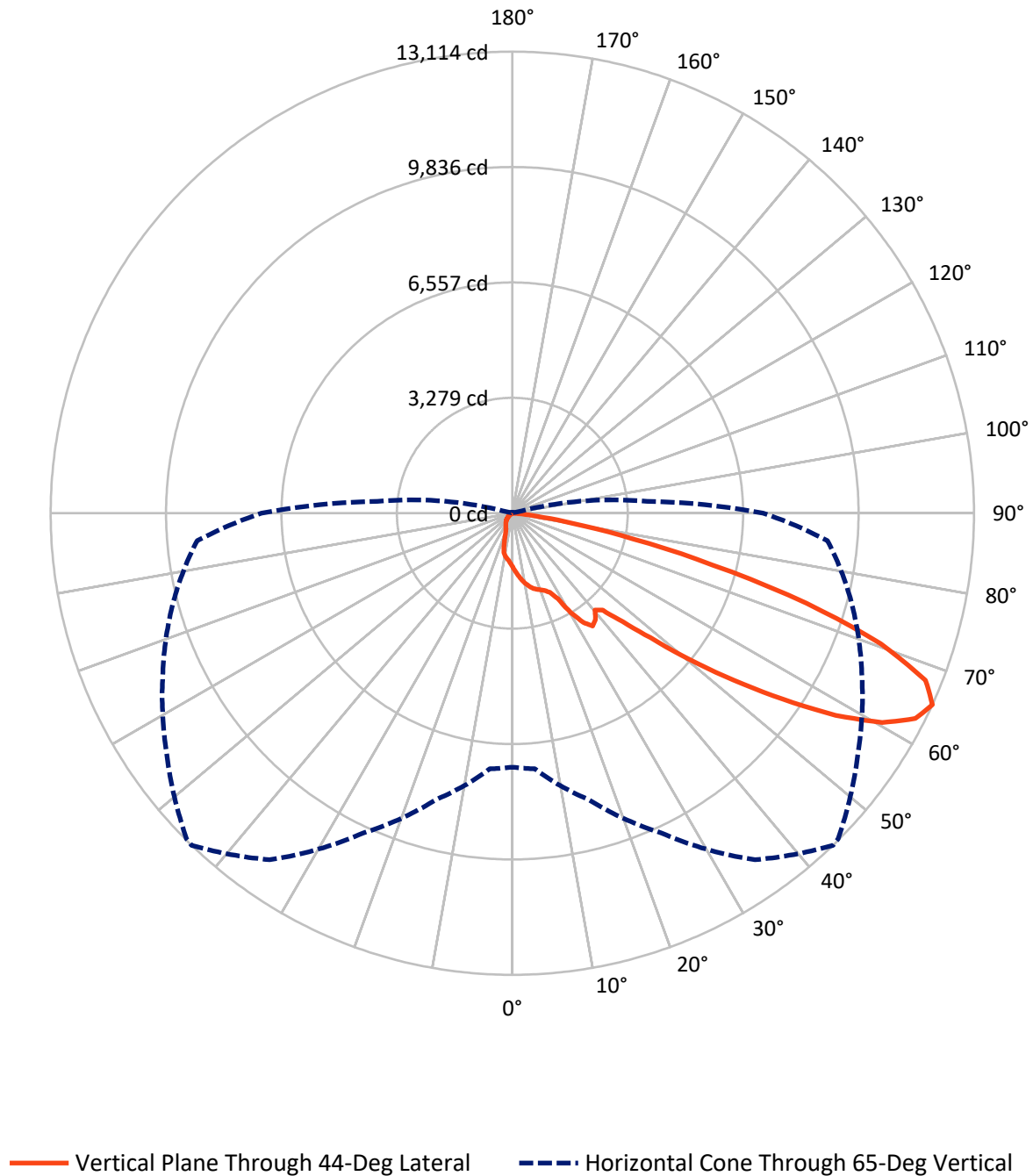
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P454335
CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454335

CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

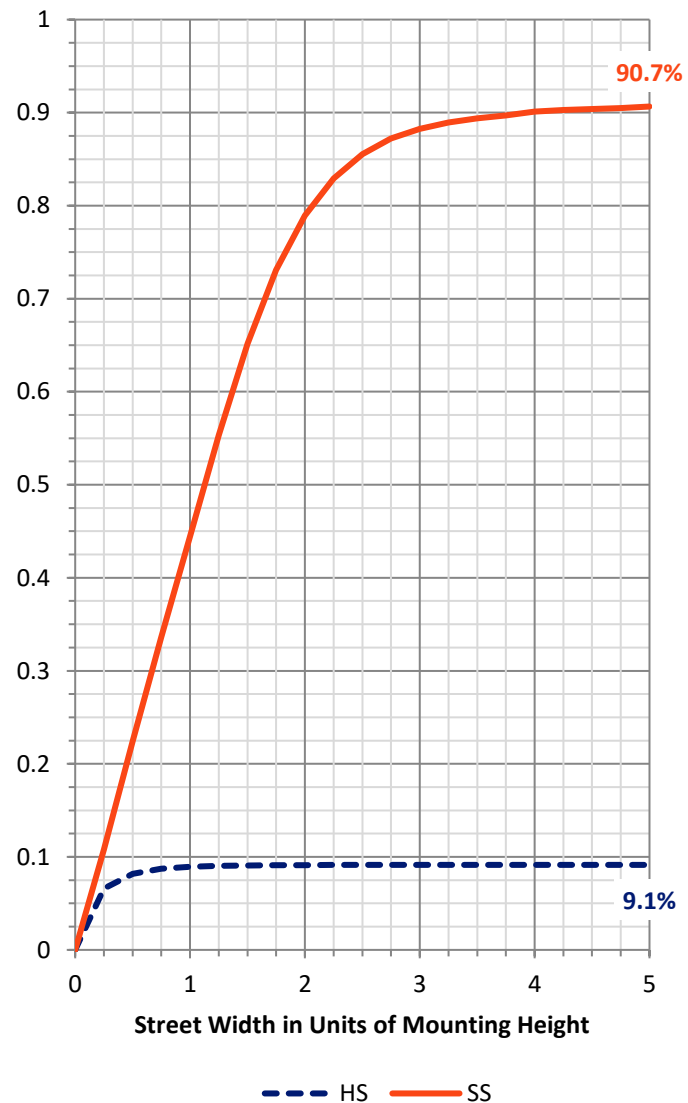
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.3	0.0	1509.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14871.7	0.0	14871.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	16381.0	0.0	16381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	0.9
10°-20°	456.4	2.8
20°-30°	773.8	4.7
30°-40°	1286.6	7.9
40°-50°	2246.5	13.7
50°-60°	4388.9	26.8
60°-70°	5092.1	31.1
70°-80°	1854.3	11.3
80°-90°	130.7	0.8
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°	16381.0	100.0
0°-180°	16381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454335

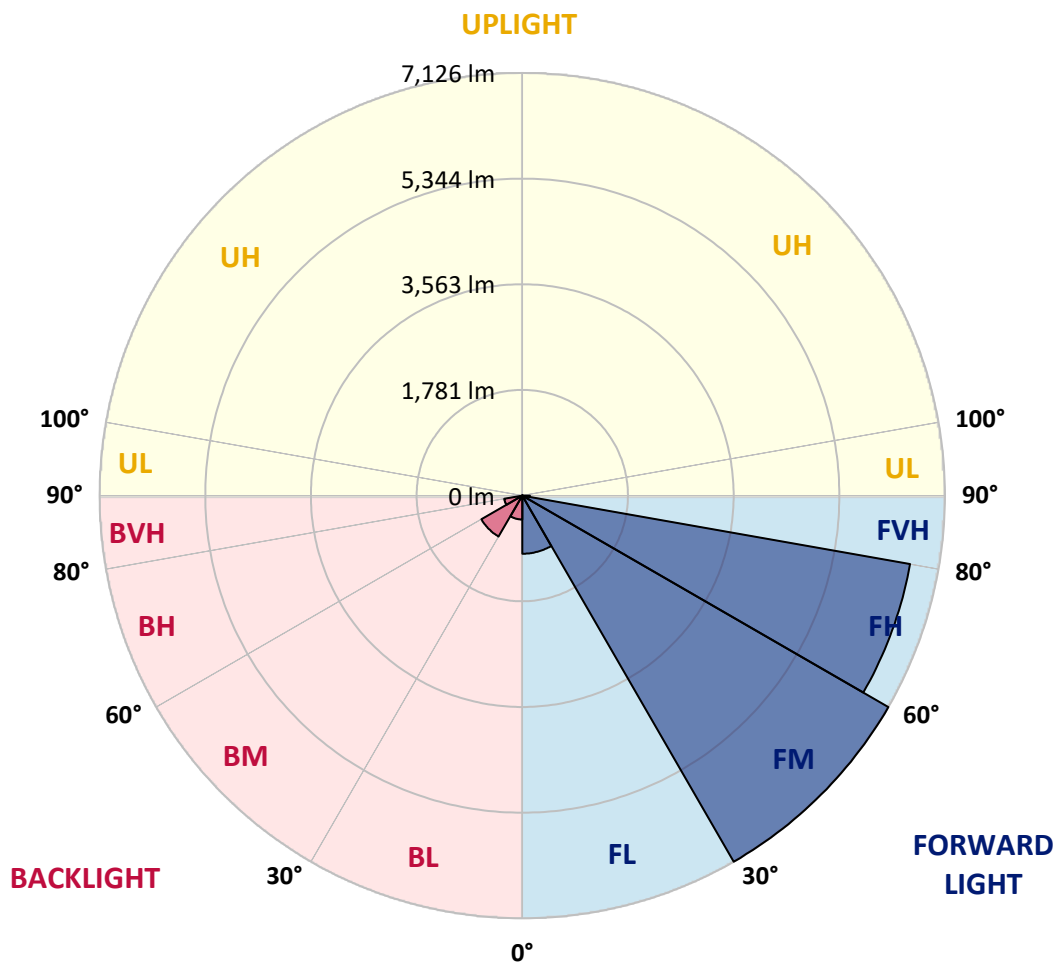
CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	979.7	6.0			
FM	(30°-60°)	7125.8	43.5			
FH	(60°-80°)	6637.4	40.5			G3/7500
FVH	(80°-90°)	128.9	0.8			G2/225
BL	(0°-30°)	402.1	2.5	B1/500		
BM	(30°-60°)	796.3	4.9	B1/1000		
BH	(60°-80°)	309.1	1.9	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3

Type III Short





REPORT NUMBER: P454335

CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6
2.5°	1716.1	1708.6	1704.8	1684.8	1669.8	1651.0	1651.0	1627.2	1599.7	1569.6	1542.1
5°	1907.6	1895.1	1878.8	1861.3	1826.2	1776.2	1776.2	1726.1	1668.5	1617.2	1560.9
7.5°	2091.6	2080.3	2052.8	2019.0	1961.4	1908.9	1905.1	1832.5	1763.7	1686.1	1605.9
10°	2253.1	2244.3	2220.5	2155.4	2095.4	2026.5	2025.3	1943.9	1863.8	1768.7	1669.8
12.5°	2365.7	2367.0	2335.7	2273.1	2195.5	2130.4	2125.4	2045.3	1961.4	1858.8	1737.4
15°	2445.8	2445.8	2413.3	2343.2	2273.1	2215.5	2210.5	2140.4	2054.1	1942.7	1811.2
17.5°	2468.4	2475.9	2440.8	2378.2	2321.9	2271.9	2270.6	2211.8	2142.9	2035.3	1886.3
20°	2459.6	2467.1	2439.6	2390.8	2352.0	2323.2	2319.4	2295.6	2231.8	2130.4	1966.4
22.5°	2440.8	2448.3	2428.3	2399.5	2380.8	2389.5	2383.3	2403.3	2369.5	2246.8	2061.6
25°	2444.6	2452.1	2437.1	2420.8	2437.1	2490.9	2507.2	2593.5	2563.5	2394.5	2164.2
27.5°	2562.3	2577.3	2556.0	2563.5	2621.1	2746.3	2777.5	2926.5	2793.8	2582.3	2324.4
30°	2823.9	2813.8	2773.8	2810.1	3010.4	3275.7	3267.0	3243.2	3035.4	2798.8	2514.7
32.5°	3061.7	3052.9	3050.4	3206.9	3569.9	3698.8	3692.5	3462.2	3251.9	3046.7	2702.4
35°	3158.1	3124.3	3116.8	3496.0	4103.1	3932.9	3894.1	3552.4	3514.8	3317.0	2894.0
37.5°	3448.5	3424.7	3308.3	3543.6	3890.3	3834.0	3803.9	3707.6	3795.2	3556.1	3110.5
40°	4046.8	3980.4	3875.3	3645.0	3588.7	3612.4	3642.5	3906.6	4126.9	3882.8	3399.6
42.5°	4790.3	4775.3	4580.0	4150.7	3728.8	3761.4	3800.2	4322.2	4603.8	4374.7	3871.5
45°	5682.8	5704.0	5422.4	4915.5	4362.2	4389.7	4446.1	4935.5	5249.7	5139.5	4613.8
47.5°	6493.9	6477.6	6382.5	5855.5	5344.8	5283.5	5374.8	5722.8	6143.4	6160.9	5535.1
50°	7310.0	7396.4	7254.9	7048.4	6669.1	6540.2	6506.4	6676.6	7317.5	7233.6	6641.6
52.5°	8482.8	8527.9	8262.5	8210.0	8296.3	7878.3	7844.5	7885.8	8459.1	8171.2	7470.2
55°	9220.1	9193.8	9094.9	9505.5	9847.2	9325.2	9282.7	9116.2	9406.6	8833.3	8267.5
57.5°	9452.9	9490.5	9720.8	10463.0	11271.6	10828.5	10750.9	10277.8	10090.0	9450.4	9001.0
60°	9349.0	9417.9	9914.8	11018.8	12140.3	12074.0	12007.7	11212.8	10580.7	9966.1	9515.5
62.5°	8609.3	8705.6	9500.5	10919.9	12434.5	12848.8	12766.2	11796.1	10907.4	10216.5	9605.6
65°	7214.9	7286.2	8427.8	10022.4	12016.4	13114.2	13084.1	11978.9	10958.7	9987.4	8988.5
67.5°	5143.3	5386.1	6443.8	8446.5	10779.7	12661.0	12712.4	11759.8	10476.8	8997.3	7443.9
70°	3233.2	3398.4	4156.9	6047.0	8641.8	11107.7	11276.7	10757.2	9092.4	7013.3	4983.1
72.5°	1542.1	1664.8	2205.5	3827.7	6099.6	8739.4	8873.4	8830.8	7030.9	4418.5	2571.0
75°	687.2	733.5	1052.7	1953.9	3937.9	5874.3	6221.0	6278.6	4393.5	2161.7	1000.1
77.5°	350.5	351.7	493.2	946.3	1966.4	3504.8	3573.6	3775.2	2382.0	952.6	348.0
80°	186.5	199.0	261.6	446.9	1020.1	1726.1	1717.3	1887.6	1056.4	466.9	116.4
82.5°	83.9	92.6	147.7	234.1	498.2	654.6	706.0	772.3	453.1	297.9	51.3
85°	25.0	30.0	72.6	117.7	180.2	189.0	211.5	272.9	256.6	211.5	26.3
87.5°	3.8	3.8	30.0	32.5	26.3	33.8	35.0	38.8	82.6	77.6	13.8
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: P454335

CATALOG NUMBER: GALN-SA5B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6
2.5°	1527.1	1518.3	1487.0	1460.7	1438.2	1424.4	1408.2	1398.2	1393.2	1389.4	1390.6
5°	1533.3	1512.1	1458.2	1415.7	1383.1	1348.1	1324.3	1310.5	1304.3	1294.3	1294.3
7.5°	1568.4	1534.6	1459.5	1394.4	1338.1	1290.5	1245.5	1229.2	1217.9	1215.4	1212.9
10°	1618.5	1575.9	1473.3	1383.1	1303.0	1237.9	1174.1	1117.8	1074.0	1047.7	1043.9
12.5°	1681.0	1619.7	1494.5	1375.6	1273.0	1157.8	988.9	874.9	798.6	774.8	778.6
15°	1738.6	1672.3	1515.8	1369.4	1217.9	960.1	768.5	638.4	599.6	595.8	597.1
17.5°	1807.5	1728.6	1540.9	1360.6	1066.5	733.5	570.8	535.7	543.2	555.8	554.5
20°	1878.8	1788.7	1570.9	1308.0	851.2	552.0	504.4	508.2	519.5	530.7	533.2
22.5°	1955.2	1857.5	1605.9	1181.6	649.6	480.7	478.2	483.2	494.4	506.9	509.4
25°	2060.3	1943.9	1632.2	1016.4	491.9	444.4	449.4	458.1	468.1	481.9	484.4
27.5°	2195.5	2060.3	1646.0	801.1	425.6	411.8	413.1	425.6	438.1	450.6	450.6
30°	2370.7	2199.3	1618.5	605.8	393.0	380.5	375.5	383.0	399.3	411.8	413.1
32.5°	2527.2	2330.7	1545.9	463.1	369.3	351.7	339.2	340.5	346.7	354.2	355.5
35°	2683.7	2458.4	1421.9	389.3	344.2	324.2	305.4	295.4	290.4	286.6	290.4
37.5°	2883.9	2617.3	1256.7	354.2	322.9	297.9	271.6	250.3	232.8	221.6	224.1
40°	3141.8	2837.6	1061.4	331.7	302.9	272.9	237.8	210.3	180.2	170.2	165.2
42.5°	3567.4	3171.8	856.2	312.9	282.9	246.6	202.8	165.2	137.7	127.7	130.2
45°	4239.5	3593.7	659.7	292.9	262.9	217.8	170.2	130.2	107.6	102.6	105.1
47.5°	5130.8	4139.4	508.2	270.4	237.8	186.5	133.9	102.6	88.9	87.6	86.4
50°	5969.4	4647.6	424.3	245.3	207.8	155.2	110.2	86.4	77.6	76.4	76.4
52.5°	6727.9	5011.8	345.5	216.5	175.2	127.7	92.6	76.4	68.8	65.1	65.1
55°	7402.6	5249.7	280.4	181.5	137.7	101.4	80.1	68.8	60.1	55.1	53.8
57.5°	7912.1	5278.5	210.3	145.2	102.6	78.9	68.8	60.1	50.1	43.8	41.3
60°	8129.9	5029.4	155.2	110.2	76.4	62.6	55.1	48.8	37.6	31.3	30.0
62.5°	7910.8	4545.0	115.2	83.9	58.8	46.3	38.8	36.3	26.3	18.8	17.5
65°	7126.0	3845.3	91.4	63.8	43.8	33.8	25.0	23.8	16.3	8.8	7.5
67.5°	5709.0	3011.6	72.6	47.6	31.3	22.5	16.3	15.0	8.8	2.5	2.5
70°	3712.6	1925.1	58.8	35.0	20.0	15.0	10.0	7.5	5.0	1.3	0.0
72.5°	1836.3	900.0	47.6	27.5	13.8	7.5	3.8	2.5	3.8	0.0	0.0
75°	712.2	320.4	35.0	18.8	7.5	3.8	2.5	0.0	1.3	0.0	0.0
77.5°	236.6	106.4	21.3	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	87.6	41.3	11.3	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	16.3	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	10.0	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	7.5	5.0	3.8	2.5	1.3	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)