

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: P454325

Luminaire Tested: **GALN-SA5B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16928 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 204
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

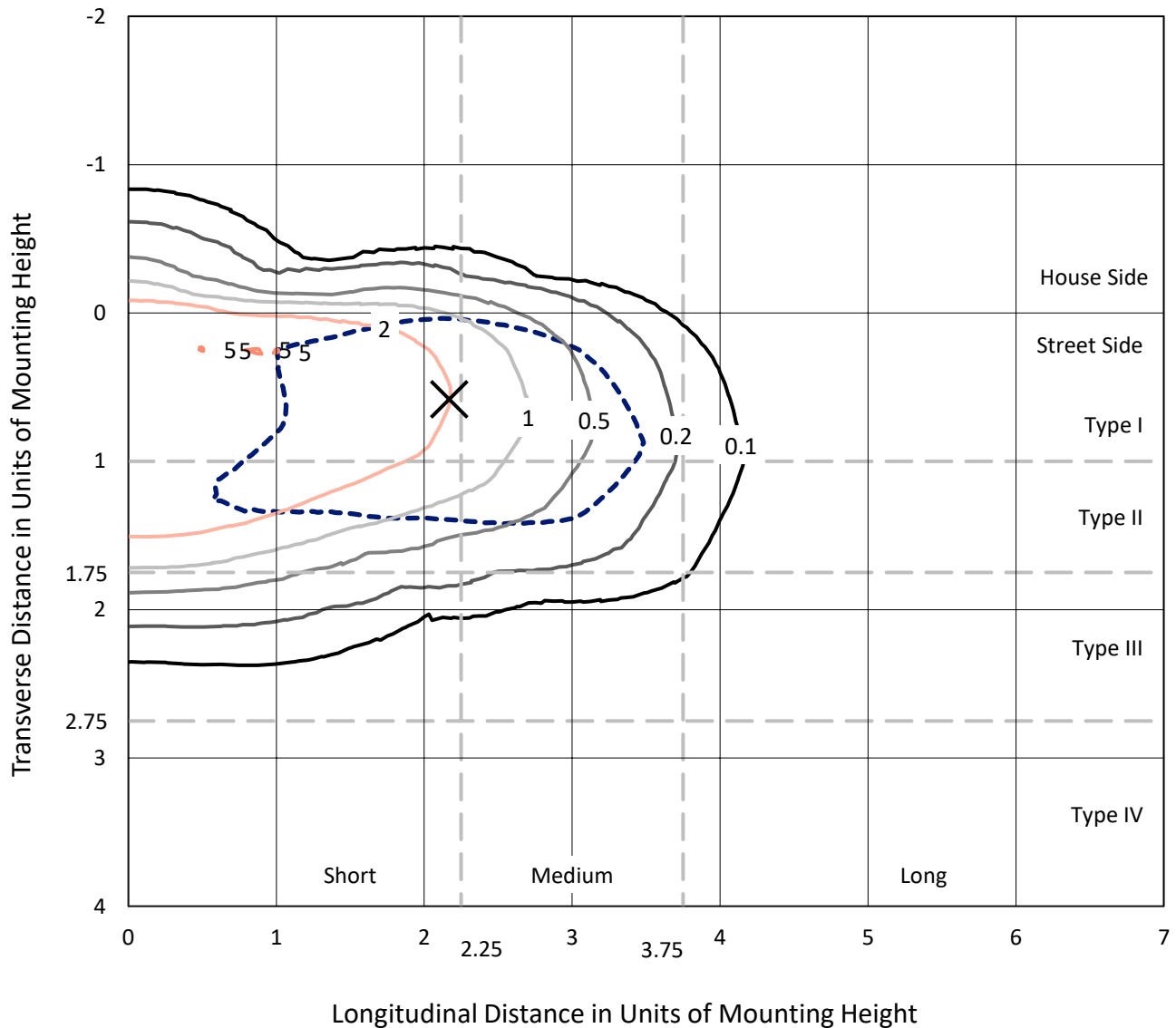


REPORT NUMBER: P454325

CATALOG NUMBER: GALN-SA5B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

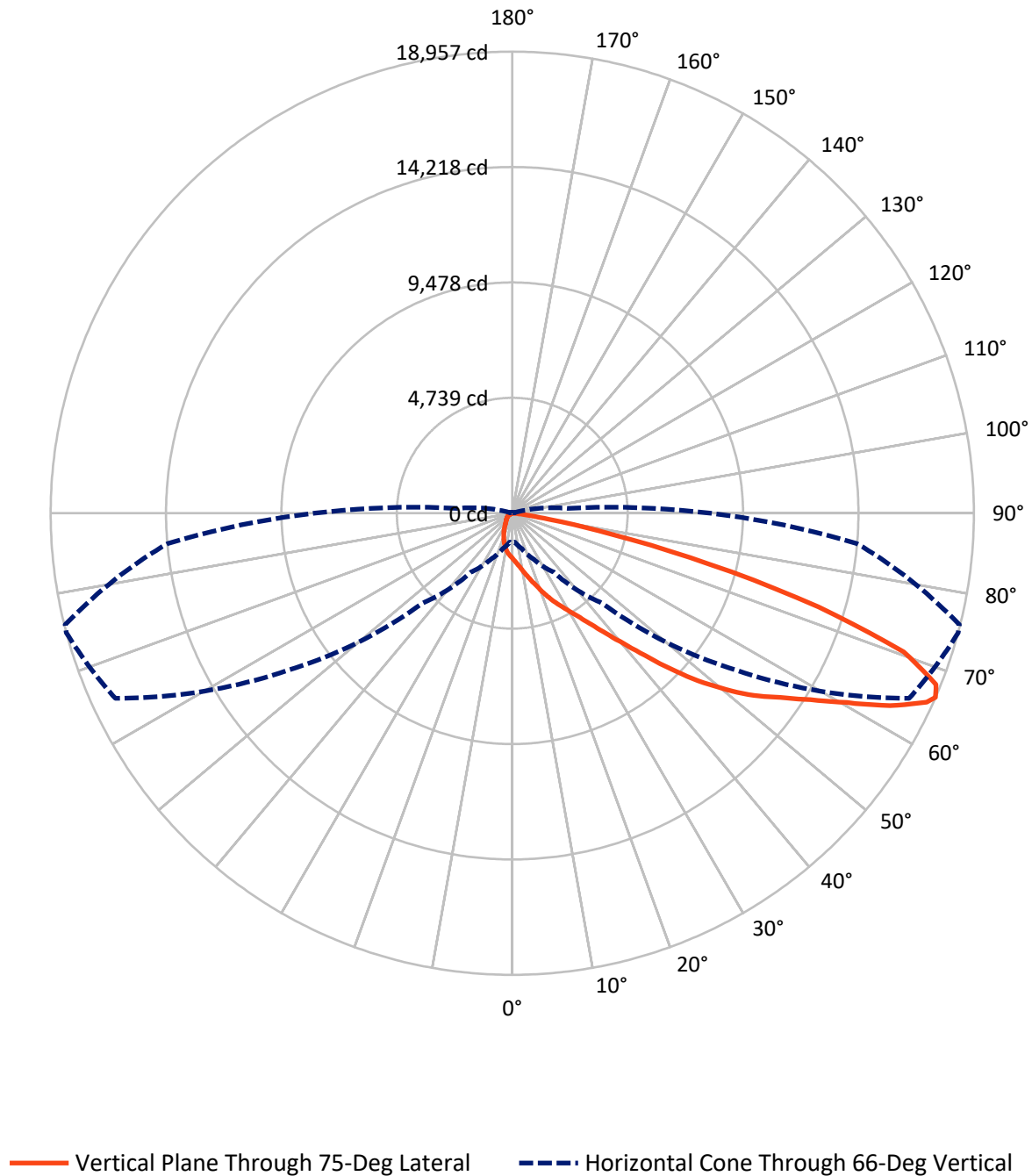


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

REPORT NUMBER: P454325

CATALOG NUMBER: GALN-SA5B-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454325

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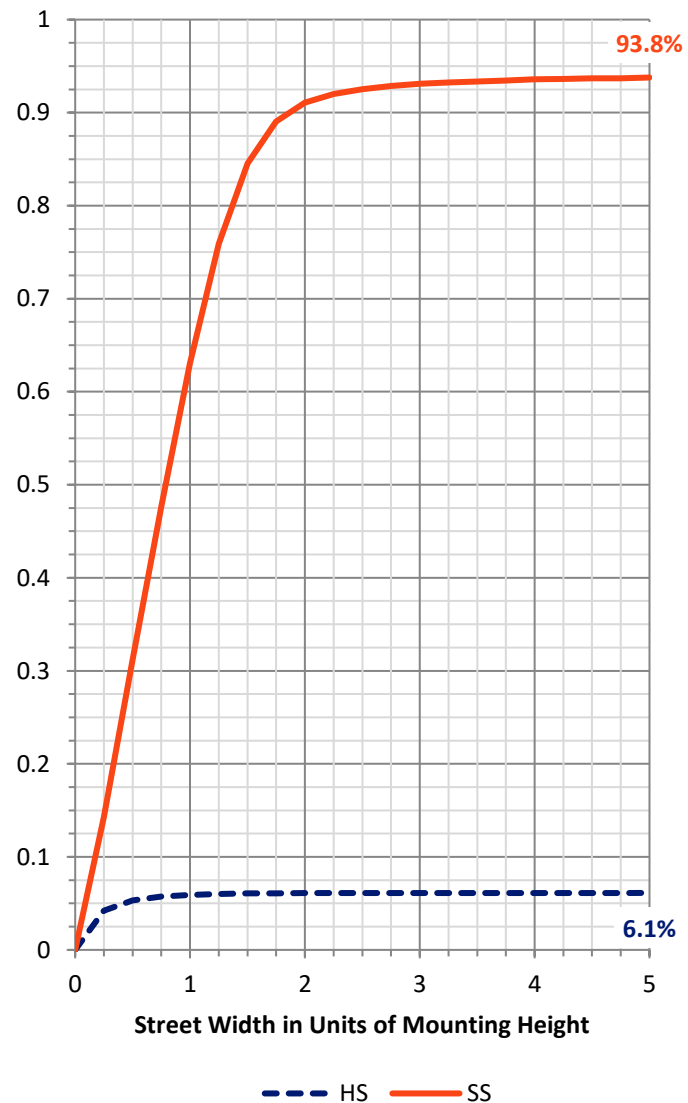
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.1	0.0	1045.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15882.9	0.0	15882.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	16928.0	0.0	16928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.1
10°-20°	525.5	3.1
20°-30°	907.4	5.4
30°-40°	1636.8	9.7
40°-50°	2956.9	17.5
50°-60°	4609.9	27.2
60°-70°	4379.2	25.9
70°-80°	1641.2	9.7
80°-90°	92.6	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°	16928.0	100.0
0°-180°	16928.0	100.0



REPORT NUMBER: P454325

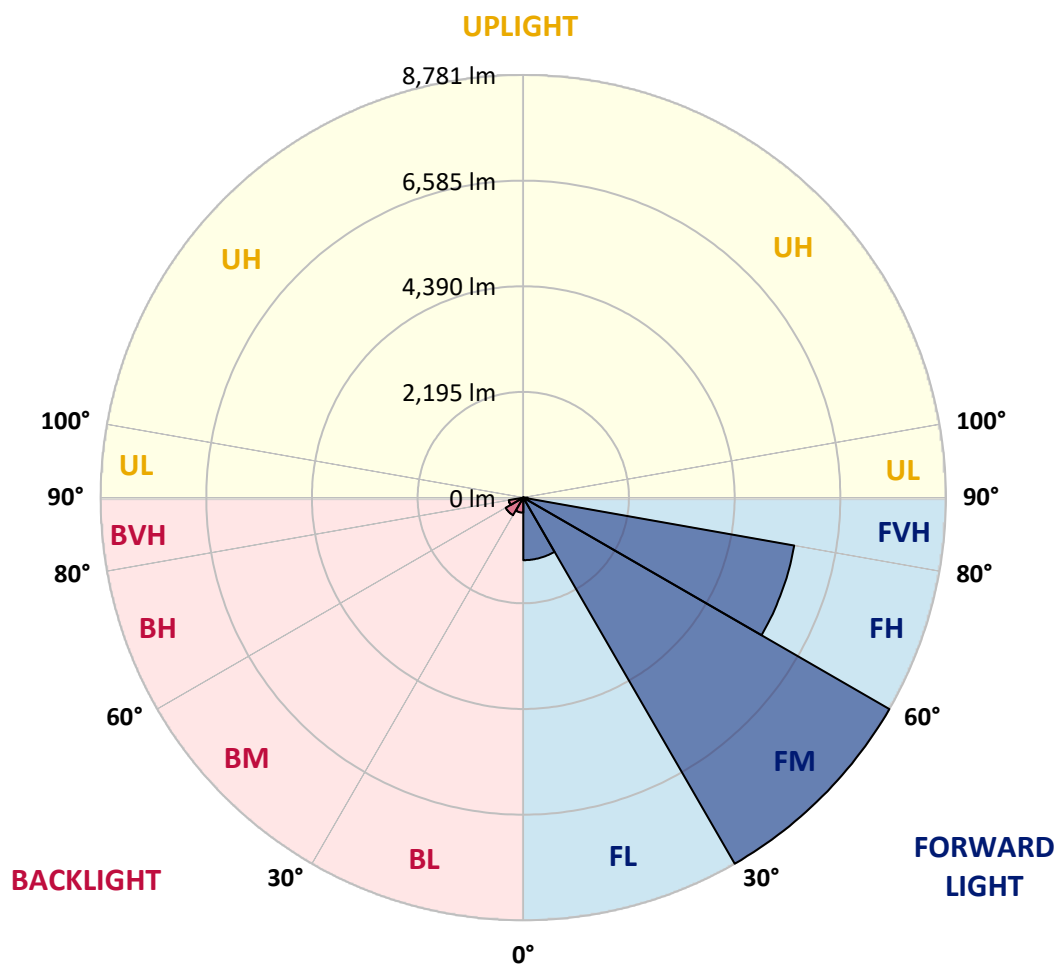
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.4	7.7			
FM	(30°-60°)	8780.5	51.9			
FH	(60°-80°)	5715.2	33.8			G3/7500
FVH	(80°-90°)	87.8	0.5			G1/100
BL	(0°-30°)	312.1	1.8	B1/500		
BM	(30°-60°)	423.0	2.5	B1/1000		
BH	(60°-80°)	305.2	1.8	B1/500		G1/500
BVH	(80°-90°)	4.8	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 II Short



REPORT NUMBER: P454325

CATALOG NUMBER: GALN-SA5B-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	2211.7	2184.2	2193.0	2180.4	2151.6	2109.1	2071.5	2017.7	1963.9	1955.1	1895.1
5°	2503.4	2495.9	2485.8	2449.6	2429.5	2364.4	2286.8	2194.2	2082.8	2062.8	1953.9
7.5°	2702.4	2698.6	2703.6	2684.9	2667.3	2608.5	2525.9	2399.5	2226.8	2215.5	2034.0
10°	2767.5	2777.5	2796.3	2826.3	2853.8	2835.1	2772.5	2614.8	2413.3	2380.7	2125.4
12.5°	2729.9	2741.2	2786.3	2866.4	2955.2	3006.6	2981.5	2866.4	2611.0	2584.7	2228.0
15°	2633.5	2647.3	2711.2	2835.1	2994.0	3139.2	3201.8	3119.2	2841.3	2798.8	2351.9
17.5°	2490.9	2510.9	2602.3	2766.2	2984.0	3234.4	3410.8	3383.3	3086.7	3046.6	2487.1
20°	2383.2	2398.2	2475.8	2663.6	2941.5	3286.9	3609.9	3687.5	3389.6	3320.7	2646.1
22.5°	2454.6	2459.6	2485.8	2598.5	2865.1	3300.7	3785.1	4004.1	3711.3	3649.9	2811.3
25°	2803.8	2753.7	2727.4	2702.4	2848.8	3288.2	3944.1	4334.6	4031.7	3966.6	2975.3
27.5°	3354.5	3332.0	3199.3	3021.6	2987.8	3304.5	4049.2	4647.5	4333.3	4263.2	3135.5
30°	3954.1	3915.3	3833.9	3573.6	3312.0	3419.6	4125.6	4951.7	4690.1	4597.4	3281.9
32.5°	4504.8	4529.9	4408.4	4140.6	3837.7	3664.9	4224.4	5283.4	5099.4	4984.2	3452.2
35°	5146.9	5197.0	5010.5	4753.9	4399.7	4108.0	4417.2	5657.6	5618.8	5473.6	3715.0
37.5°	5799.1	5829.1	5715.2	5354.7	5035.5	4671.3	4780.2	6119.5	6258.4	6134.5	4029.2
40°	6347.3	6388.6	6304.7	5984.3	5643.9	5323.4	5307.2	6622.7	7019.5	6891.8	4497.3
42.5°	6766.6	6797.9	6800.4	6573.9	6267.2	6122.0	5979.3	7264.8	7973.2	7825.5	5040.5
45°	7296.1	7341.1	7314.9	7160.9	6931.8	6905.6	6831.7	8040.8	9114.8	8928.3	5745.2
47.5°	8114.7	8144.7	8079.6	7898.1	7665.3	7706.6	7662.8	8910.8	10278.8	10118.6	6475.0
50°	8682.9	8733.0	8825.6	8898.2	8729.3	8576.6	8446.4	9723.1	11384.1	11240.1	7221.0
52.5°	8676.7	8759.3	9052.2	9417.7	9786.9	9740.6	9366.4	10620.6	12439.3	12261.5	7921.9
55°	8092.2	8252.4	8682.9	9331.3	10353.9	10863.4	10693.2	11659.5	13350.5	13230.3	8734.3
57.5°	6885.5	6983.2	7581.5	8487.7	10037.3	11391.6	12230.2	13067.6	14443.2	14386.9	9996.0
60°	4631.2	4675.0	5444.8	6565.1	8545.3	10864.6	13356.7	14771.2	15788.8	15761.2	11469.2
62.5°	2653.6	2672.4	3230.6	4175.6	6080.7	9207.4	13451.9	16872.7	17402.2	17417.2	13174.0
65°	1428.2	1438.2	1888.8	2450.8	3700.0	6562.6	12096.3	18024.3	18706.5	18735.2	14230.4
66°	1232.9	1185.3	1503.3	2089.1	2944.0	5223.3	11238.9	17983.0	18956.8	18925.5	14192.9
67.5°	937.5	980.1	1200.4	1605.9	2181.7	3713.8	9278.8	17183.2	18766.5	18668.9	13615.8
70°	670.9	688.4	854.9	1145.3	1485.8	2037.7	5929.2	14271.7	17056.7	16925.3	11862.2
72.5°	433.1	451.9	605.8	828.6	1073.9	1112.7	3319.5	10311.4	13150.2	13131.4	8933.3
75°	309.2	326.7	400.5	593.3	807.3	688.4	1598.4	6949.4	8360.0	8303.7	5526.2
77.5°	224.1	232.8	267.9	388.0	577.0	493.2	741.0	3711.3	4161.9	4358.4	2442.0
80°	128.9	136.4	186.5	236.6	390.5	336.7	354.2	1489.5	1535.8	1462.0	763.5
82.5°	63.8	72.6	111.4	161.5	244.1	226.6	162.7	448.1	473.1	460.6	192.8
85°	15.0	18.8	62.6	106.4	118.9	101.4	78.9	131.4	162.7	159.0	73.8
87.5°	1.3	2.5	22.5	18.8	20.0	33.8	27.5	33.8	52.6	48.8	26.3
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: P454325

CATALOG NUMBER: GALN-SA5B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	1867.5	1843.7	1774.9	1707.3	1651.0	1592.1	1538.3	1507.0	1494.5	1480.7	1487.0
5°	1893.8	1836.2	1697.3	1577.1	1459.5	1359.3	1279.2	1227.9	1202.9	1199.1	1192.9
7.5°	1928.8	1830.0	1614.7	1426.9	1273.0	1161.6	1070.2	996.3	973.8	953.8	937.5
10°	1971.4	1818.7	1512.0	1269.2	1105.2	965.1	844.9	757.3	712.2	699.7	708.5
12.5°	2016.5	1797.4	1404.4	1124.0	935.0	756.0	644.6	600.8	588.3	583.3	584.5
15°	2061.5	1771.1	1291.7	983.8	744.8	603.3	552.0	540.7	535.7	533.2	530.7
17.5°	2102.8	1728.6	1165.3	847.4	603.3	515.7	496.9	486.9	476.9	473.1	466.9
20°	2151.6	1679.8	1051.4	694.7	510.7	466.9	444.3	425.6	410.6	400.5	399.3
22.5°	2198.0	1617.2	932.5	575.8	465.6	419.3	383.0	363.0	345.5	332.9	336.7
25°	2223.0	1540.8	826.1	501.9	424.3	371.8	331.7	306.7	287.9	281.6	280.4
27.5°	2223.0	1446.9	722.2	459.4	386.8	329.2	287.9	264.1	251.6	242.8	244.1
30°	2205.5	1343.1	625.8	426.8	354.2	291.6	252.8	231.6	221.5	215.3	214.0
32.5°	2191.7	1244.2	543.2	395.5	320.4	259.1	225.3	209.0	199.0	192.8	192.8
35°	2213.0	1159.1	479.4	364.2	289.1	234.1	204.0	189.0	179.0	174.0	172.7
37.5°	2269.3	1081.5	430.6	330.4	260.4	212.8	189.0	171.5	161.5	155.2	152.7
40°	2408.2	1037.6	394.3	299.2	232.8	195.3	171.5	155.2	142.7	136.4	135.2
42.5°	2631.0	1038.9	359.2	270.4	211.5	180.2	156.5	137.7	123.9	117.7	116.4
45°	2966.5	1086.5	331.7	242.8	192.8	164.0	140.2	120.2	107.6	101.4	101.4
47.5°	3368.3	1179.1	307.9	219.0	175.2	149.0	123.9	103.9	91.4	86.4	86.4
50°	3803.9	1299.3	284.1	194.0	160.2	132.7	106.4	90.1	80.1	76.4	76.4
52.5°	4248.2	1444.4	260.4	174.0	143.9	115.2	91.4	80.1	71.3	68.8	67.6
55°	4831.5	1629.7	235.3	152.7	126.4	98.9	81.4	70.1	60.1	56.3	55.1
57.5°	5729.0	1908.8	207.8	133.9	103.9	82.6	70.1	58.8	47.6	41.3	40.1
60°	6811.7	2249.3	179.0	117.7	83.9	67.6	56.3	45.1	35.0	27.5	26.3
62.5°	7825.5	2465.8	151.5	98.9	66.3	51.3	40.1	33.8	25.0	17.5	16.3
65°	8273.6	2393.2	125.2	80.1	52.6	36.3	26.3	23.8	15.0	7.5	6.3
66°	8124.7	2285.6	115.2	72.6	47.6	31.3	22.5	20.0	11.3	3.8	3.8
67.5°	7685.4	2031.5	100.1	62.6	41.3	25.0	17.5	15.0	6.3	1.3	0.0
70°	6585.1	1643.5	78.9	46.3	30.0	17.5	10.0	7.5	3.8	0.0	0.0
72.5°	5058.1	1224.1	62.6	35.0	21.3	10.0	5.0	2.5	3.8	0.0	0.0
75°	3099.2	699.7	48.8	26.3	13.8	6.3	3.8	0.0	3.8	1.3	0.0
77.5°	1375.6	314.2	32.5	17.5	10.0	5.0	2.5	0.0	2.5	1.3	0.0
80°	348.0	102.6	18.8	12.5	7.5	3.8	1.3	0.0	2.5	2.5	1.3
82.5°	95.1	37.6	13.8	10.0	6.3	3.8	1.3	0.0	2.5	2.5	2.5
85°	37.6	17.5	12.5	10.0	7.5	3.8	1.3	0.0	2.5	2.5	2.5
87.5°	17.5	12.5	12.5	11.3	8.8	3.8	1.3	0.0	2.5	1.3	2.5
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)