

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: P456864

Luminaire Tested: **GALN-SA8A-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29632 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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

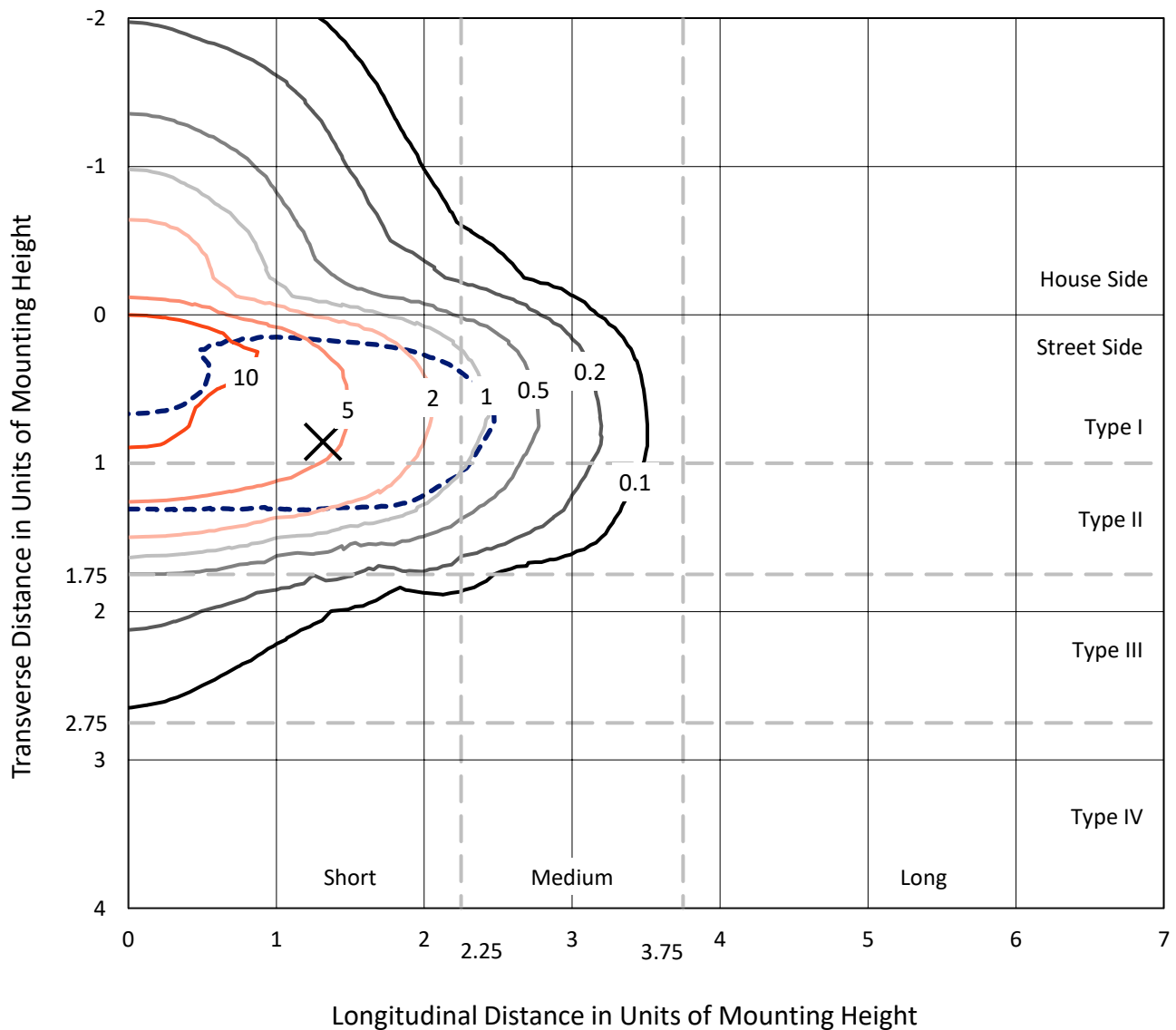


REPORT NUMBER: P456864

CATALOG NUMBER: GALN-SA8A-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

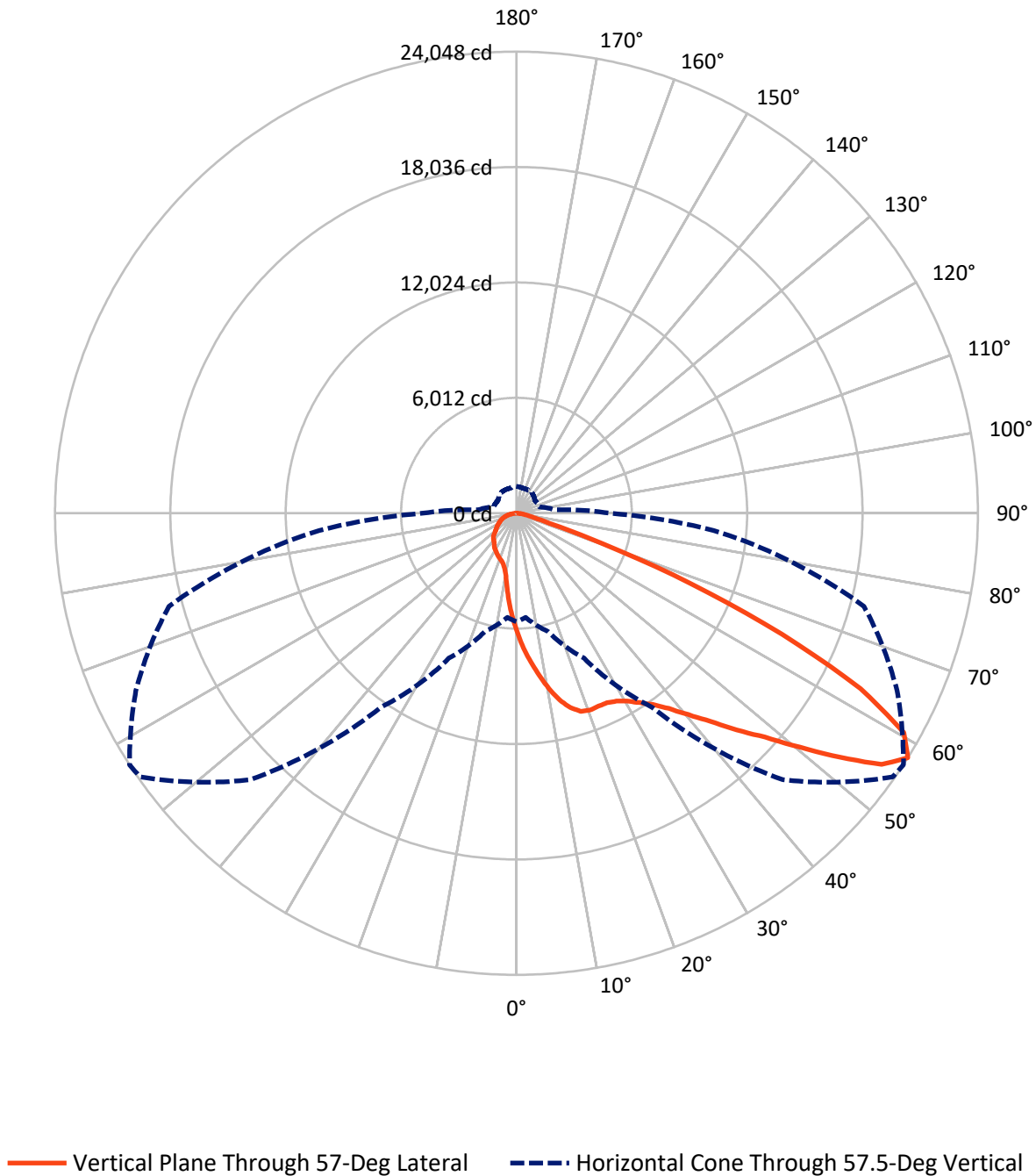


Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P456864

CATALOG NUMBER: GALN-SA8A-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P456864

CATALOG NUMBER: GALN-SA8A-830-U-AFL

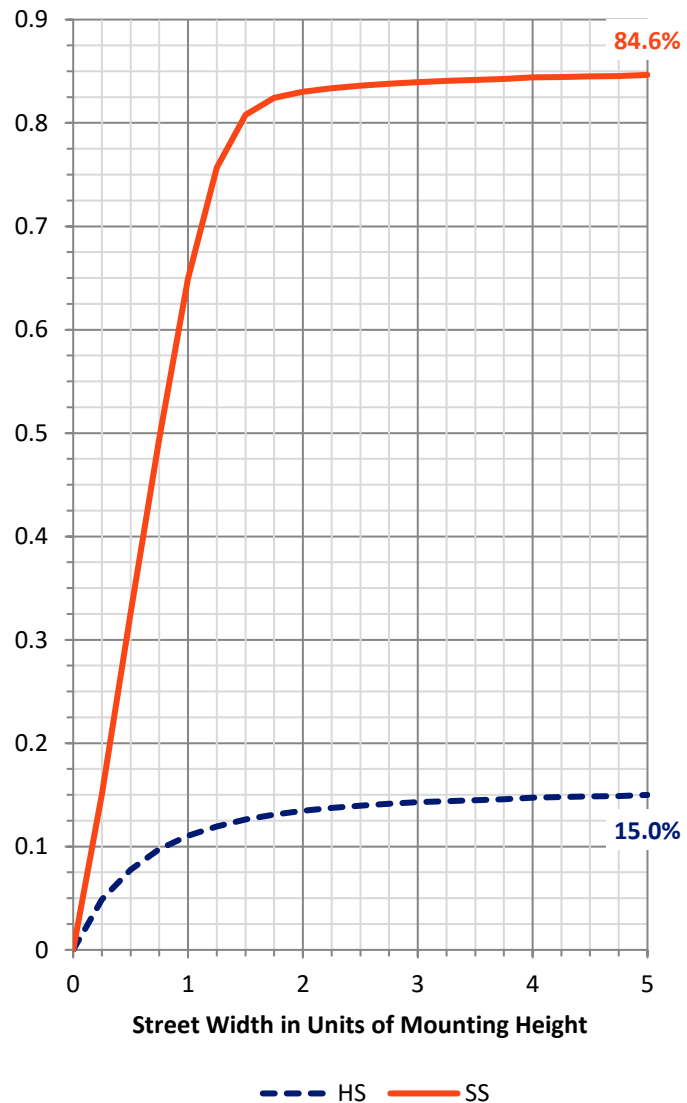
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4506.2	0.0	4506.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	25125.8	0.0	25125.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	29632.0	0.0	29632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	2.0
10°-20°	1763.3	6.0
20°-30°	2927.9	9.9
30°-40°	4410.3	14.9
40°-50°	6621.7	22.3
50°-60°	7422.1	25.0
60°-70°	4343.8	14.7
70°-80°	1284.9	4.3
80°-90°	259.7	0.9
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°	29632.0	100.0
0°-180°	29632.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456864

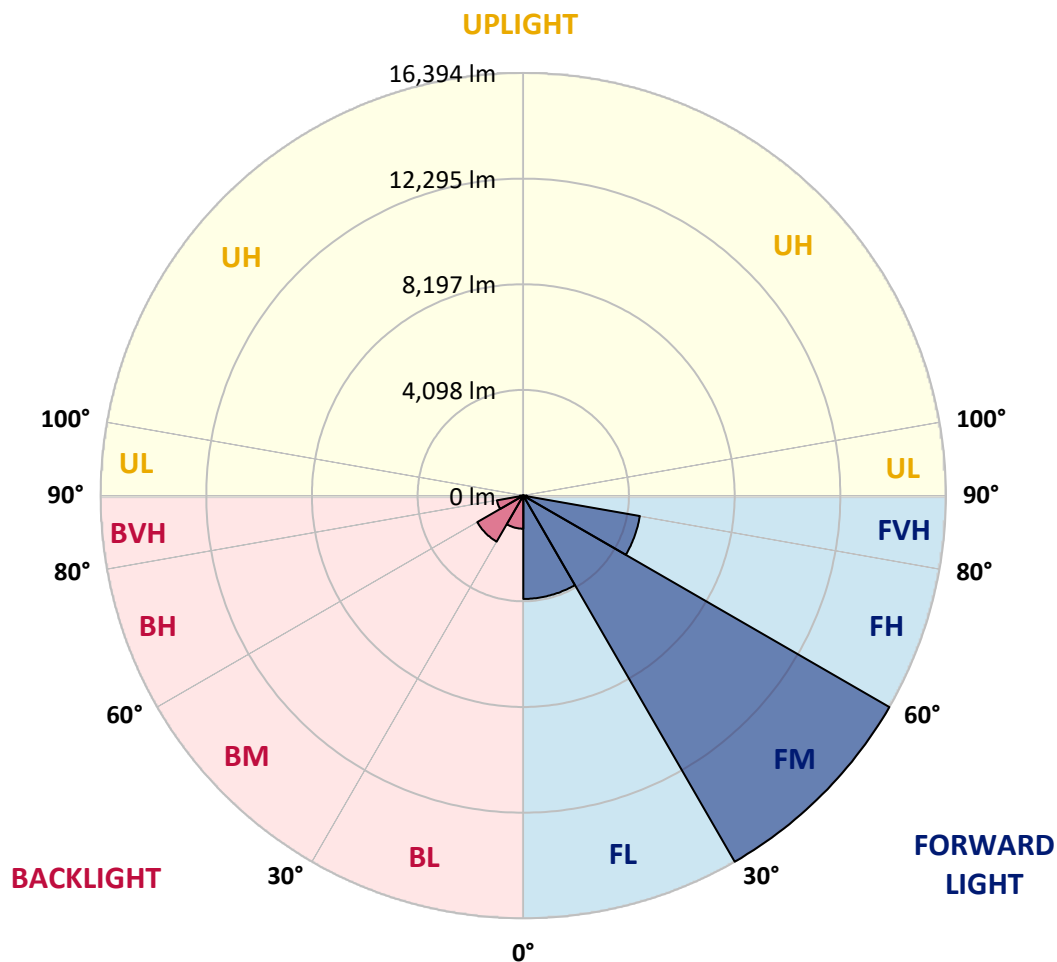
CATALOG NUMBER: GALN-SA8A-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4005.6	13.5			
FM	(30°-60°)	16393.7	55.3			
FH	(60°-80°)	4591.8	15.5			G2/5000
FVH	(80°-90°)	134.7	0.5			G2/225
BL	(0°-30°)	1284.0	4.3	B3/2500		
BM	(30°-60°)	2060.4	7.0	B2/2500		
BH	(60°-80°)	1036.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	125.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P456864

CATALOG NUMBER: GALN-SA8A-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3
2.5°	7735.5	7651.1	7584.6	7526.2	7450.0	7244.0	7038.0	7034.7	6870.9	6617.9	6358.4
5°	8995.8	8882.2	8896.8	8715.2	8533.5	8235.0	7798.7	7776.0	7427.3	6953.6	6471.9
7.5°	9816.5	9818.1	9772.7	9668.9	9472.6	9133.6	8638.9	8527.0	8042.0	7323.5	6601.7
10°	9774.3	9818.1	9894.4	9983.6	10043.6	9876.5	9425.6	9289.4	8658.4	7771.1	6746.0
12.5°	9213.1	9281.2	9389.9	9613.8	9975.5	10251.2	10097.1	9986.8	9372.1	8217.2	6905.0
15°	8862.8	8903.3	8963.3	9114.2	9503.5	10163.6	10562.6	10504.3	10045.2	8721.6	7083.4
17.5°	8755.7	8796.3	8815.7	8908.2	9185.5	9861.9	10745.9	10849.7	10642.1	9185.5	7263.4
20°	8862.8	8882.2	8882.2	8937.4	9154.7	9685.1	10737.8	10947.1	11132.0	9741.9	7432.1
22.5°	9143.4	9151.5	9140.1	9159.6	9321.8	9733.8	10661.6	10921.1	11527.8	10213.9	7563.5
25°	9599.2	9612.1	9537.5	9492.1	9610.5	9947.9	10703.8	10942.2	11837.6	10664.8	7651.1
27.5°	10116.6	10132.8	10042.0	9936.5	9991.7	10212.3	10869.2	11083.3	12069.5	11109.3	7706.3
30°	10750.8	10757.3	10604.8	10478.3	10442.6	10606.4	11151.4	11351.0	12358.2	11633.2	7789.0
32.5°	11399.6	11448.3	11252.0	11073.6	11013.6	11063.9	11568.3	11761.3	12702.1	12196.0	7922.0
35°	12282.0	12290.1	12054.9	11837.6	11639.7	11704.6	12102.0	12241.4	13177.4	12846.5	8110.1
37.5°	13383.4	13458.0	13133.6	12728.1	12484.8	12390.7	12747.5	12900.0	13844.0	13644.5	8394.0
40°	14606.4	14633.9	14356.6	14103.5	13659.1	13386.6	13633.1	13798.6	14666.4	14596.6	8723.3
42.5°	15375.2	15435.2	15456.3	15430.4	15096.2	14638.8	14732.9	14810.7	15639.6	15490.4	9060.6
45°	15634.7	15723.9	16025.6	16664.7	16700.4	16249.5	16030.5	16105.1	16700.4	16392.2	9383.4
47.5°	15204.9	15357.4	15913.7	17224.3	18205.6	18239.7	17579.5	17415.7	17667.1	17140.0	9617.0
50°	14093.8	14126.2	14977.8	16875.6	18911.2	20142.3	19459.5	19154.5	18585.2	17693.1	9777.6
52.5°	12374.5	12411.8	13125.5	15255.2	18476.5	21472.4	21658.9	21113.9	19517.9	18122.9	9883.0
55°	9185.5	9401.3	10186.3	12244.7	16416.5	21347.5	23407.5	23097.7	20645.2	18463.5	10048.5
57.5°	5647.9	5450.0	6381.1	8330.7	12346.9	19631.4	23947.6	24048.2	21886.0	18749.0	10325.8
60°	2598.5	2637.4	3021.8	4296.8	7526.2	15357.4	22555.9	23191.8	22572.1	18739.3	10395.6
62.5°	1790.7	1755.0	1657.7	1886.4	3432.2	9712.7	19052.3	20129.4	21196.7	18157.0	10118.2
65°	1600.9	1565.3	1377.1	1313.8	1576.6	4233.5	13850.5	15209.8	17847.2	16687.4	9427.2
67.5°	1495.5	1446.8	1252.2	1128.9	1125.7	1685.3	8166.9	9803.5	13237.4	14108.4	8168.5
70°	1385.2	1346.3	1153.3	1017.0	958.6	1059.2	3589.5	4699.0	8595.1	10166.9	6363.2
72.5°	1274.9	1229.5	1055.9	910.0	833.7	793.2	1375.5	1789.1	4856.4	6095.6	3901.0
75°	1114.3	1091.6	944.0	824.0	741.3	640.7	872.7	995.9	2322.7	2799.6	1957.8
77.5°	974.8	950.5	838.6	720.2	660.2	520.7	619.6	676.4	979.7	1135.4	884.0
80°	713.7	738.0	707.2	635.8	588.8	408.8	416.9	463.9	582.3	643.9	540.1
82.5°	452.5	498.0	545.0	489.9	446.1	322.8	288.7	306.6	397.4	421.7	240.1
85°	189.8	193.0	316.3	298.5	254.7	191.4	173.6	183.3	212.5	222.2	111.9
87.5°	73.0	71.4	111.9	103.8	79.5	55.1	55.1	61.6	84.3	77.9	35.7
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: P456864

CATALOG NUMBER: GALN-SA8A-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3	6225.3
2.5°	6246.4	6131.3	5902.6	5618.7	5411.1	5177.5	4971.5	4823.9	4768.8	4742.8	4694.1
5°	6241.6	6014.5	5540.8	5044.5	4645.5	4236.7	3891.2	3667.4	3647.9	3498.7	3484.1
7.5°	6243.2	5896.1	5141.8	4411.9	3803.7	3385.2	3099.7	3025.1	2935.9	2913.2	2924.5
10°	6248.1	5745.2	4713.6	3785.8	3197.0	2922.9	2815.8	2786.6	2789.9	2799.6	2801.2
12.5°	6254.5	5599.2	4269.2	3310.6	2856.4	2742.8	2731.5	2757.4	2785.0	2806.1	2811.0
15°	6262.7	5432.2	3836.1	2927.8	2686.1	2676.3	2713.7	2757.4	2796.4	2827.2	2832.1
17.5°	6252.9	5237.5	3472.8	2692.6	2592.0	2639.0	2700.7	2755.8	2791.5	2820.7	2824.0
20°	6230.2	5020.2	3122.4	2527.1	2533.6	2609.8	2676.3	2728.3	2767.2	2781.8	2793.1
22.5°	6142.6	4760.7	2817.5	2399.0	2463.9	2569.3	2648.8	2679.6	2635.8	2605.0	2613.1
25°	5993.4	4423.3	2533.6	2295.2	2400.6	2512.5	2593.6	2519.0	2483.3	2470.3	2476.8
27.5°	5806.9	4053.4	2319.5	2186.5	2319.5	2449.3	2426.6	2413.6	2397.4	2376.3	2381.1
30°	5605.7	3691.7	2137.8	2102.1	2231.9	2306.5	2316.3	2337.3	2319.5	2287.1	2300.0
32.5°	5419.2	3351.1	2000.0	2030.8	2170.3	2158.9	2231.9	2256.2	2173.5	2064.8	2069.7
35°	5260.2	3034.8	1896.2	1961.0	2064.8	2069.7	2142.7	2058.4	1969.1	1917.2	1920.5
37.5°	5140.2	2788.3	1828.0	1901.0	1930.2	1991.9	1952.9	1909.1	1897.8	1862.1	1863.7
40°	5068.8	2572.5	1784.2	1854.0	1849.1	1891.3	1766.4	1810.2	1826.4	1815.0	1816.7
42.5°	4997.5	2420.1	1738.8	1789.1	1787.5	1704.8	1677.2	1714.5	1756.7	1761.5	1758.3
45°	4940.7	2301.7	1691.8	1690.2	1722.6	1592.8	1584.7	1607.4	1667.4	1696.6	1695.0
47.5°	4877.4	2202.7	1620.4	1575.0	1584.7	1523.1	1510.1	1519.8	1592.8	1639.9	1652.8
50°	4798.0	2103.8	1531.2	1469.6	1429.0	1458.2	1461.4	1463.1	1536.1	1589.6	1600.9
52.5°	4734.7	2029.2	1429.0	1383.6	1334.9	1399.8	1424.1	1427.4	1471.2	1515.0	1523.1
55°	4772.0	1987.0	1328.4	1296.0	1252.2	1339.8	1386.8	1393.3	1403.1	1435.5	1440.4
57.5°	4883.9	1996.7	1247.3	1205.2	1172.7	1268.4	1347.9	1352.8	1346.3	1385.2	1391.7
60°	4918.0	1991.9	1187.3	1104.6	1085.1	1192.2	1291.1	1300.9	1299.2	1356.0	1367.4
62.5°	4775.3	1930.2	1127.3	1020.3	1007.3	1114.3	1211.7	1250.6	1258.7	1339.8	1354.4
65°	4439.5	1803.7	1047.8	931.0	931.0	1031.6	1135.4	1188.9	1211.7	1320.3	1336.6
67.5°	3996.7	1654.5	966.7	854.8	851.6	952.1	1054.3	1109.5	1145.2	1292.8	1302.5
70°	3317.0	1453.3	866.2	772.1	772.1	862.9	955.4	1021.9	1073.8	1240.9	1240.9
72.5°	2272.5	1208.4	744.5	678.0	679.6	764.0	858.1	932.7	994.3	1137.0	1140.3
75°	1437.1	944.0	611.5	577.4	583.9	663.4	760.7	838.6	961.9	1124.1	1128.9
77.5°	764.0	663.4	486.6	478.5	486.6	559.6	668.3	775.3	965.1	974.8	958.6
80°	494.7	470.4	384.4	368.2	371.4	450.9	595.3	736.4	775.3	785.1	749.4
82.5°	269.3	298.5	272.5	256.3	256.3	352.0	507.7	585.6	556.4	462.3	441.2
85°	115.2	139.5	141.1	123.3	118.4	217.4	340.6	319.5	296.8	283.9	280.6
87.5°	32.4	45.4	45.4	34.1	26.0	60.0	68.1	19.5	0.0	1.6	3.2
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)