

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: P456400

Luminaire Tested: **GALN-SA7C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456400
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-SA7C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39293 lumens
Efficiency: N/A
Efficacy: 104.2 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): 377
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

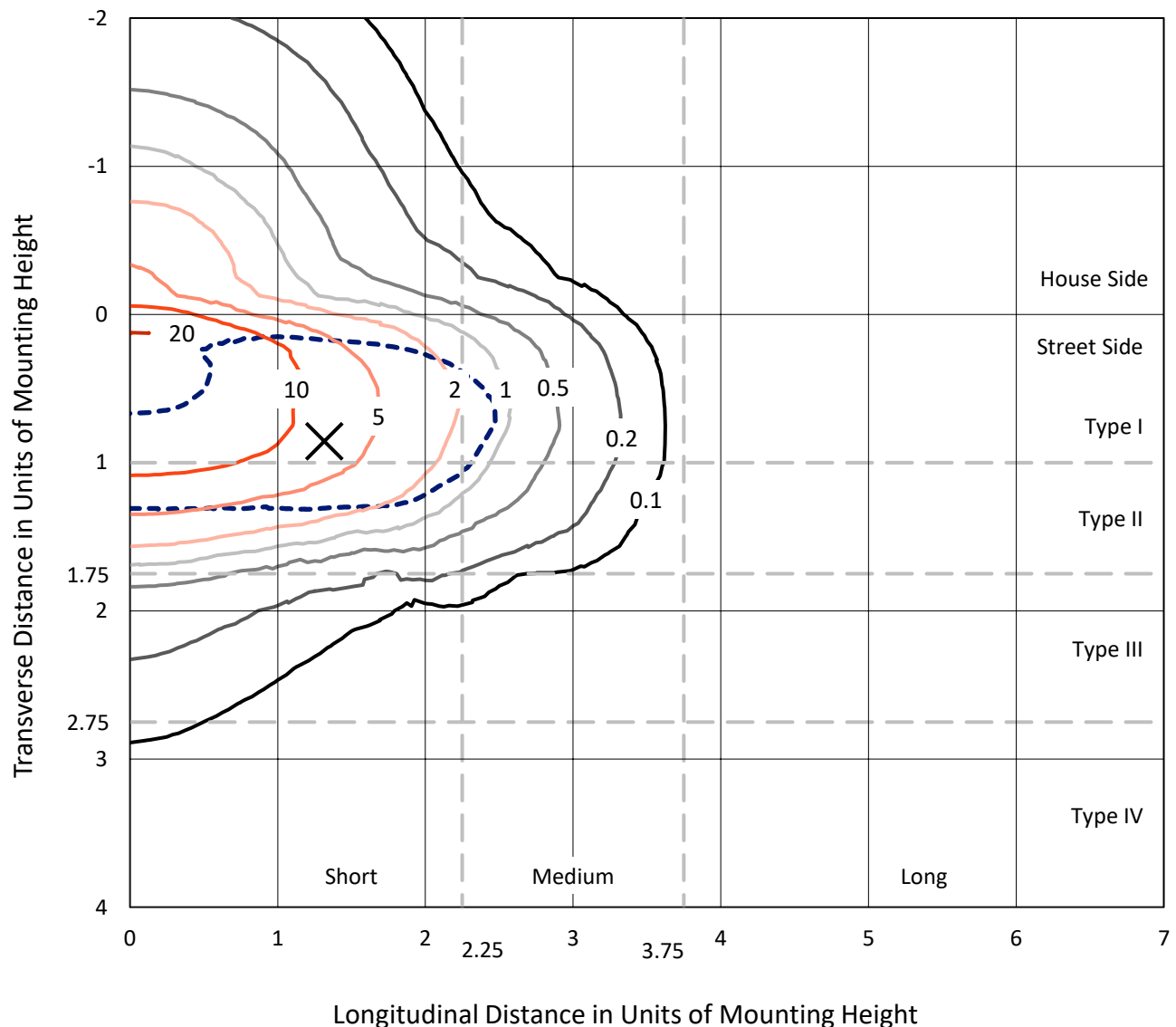


REPORT NUMBER: P456400

CATALOG NUMBER: GALN-SA7C-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

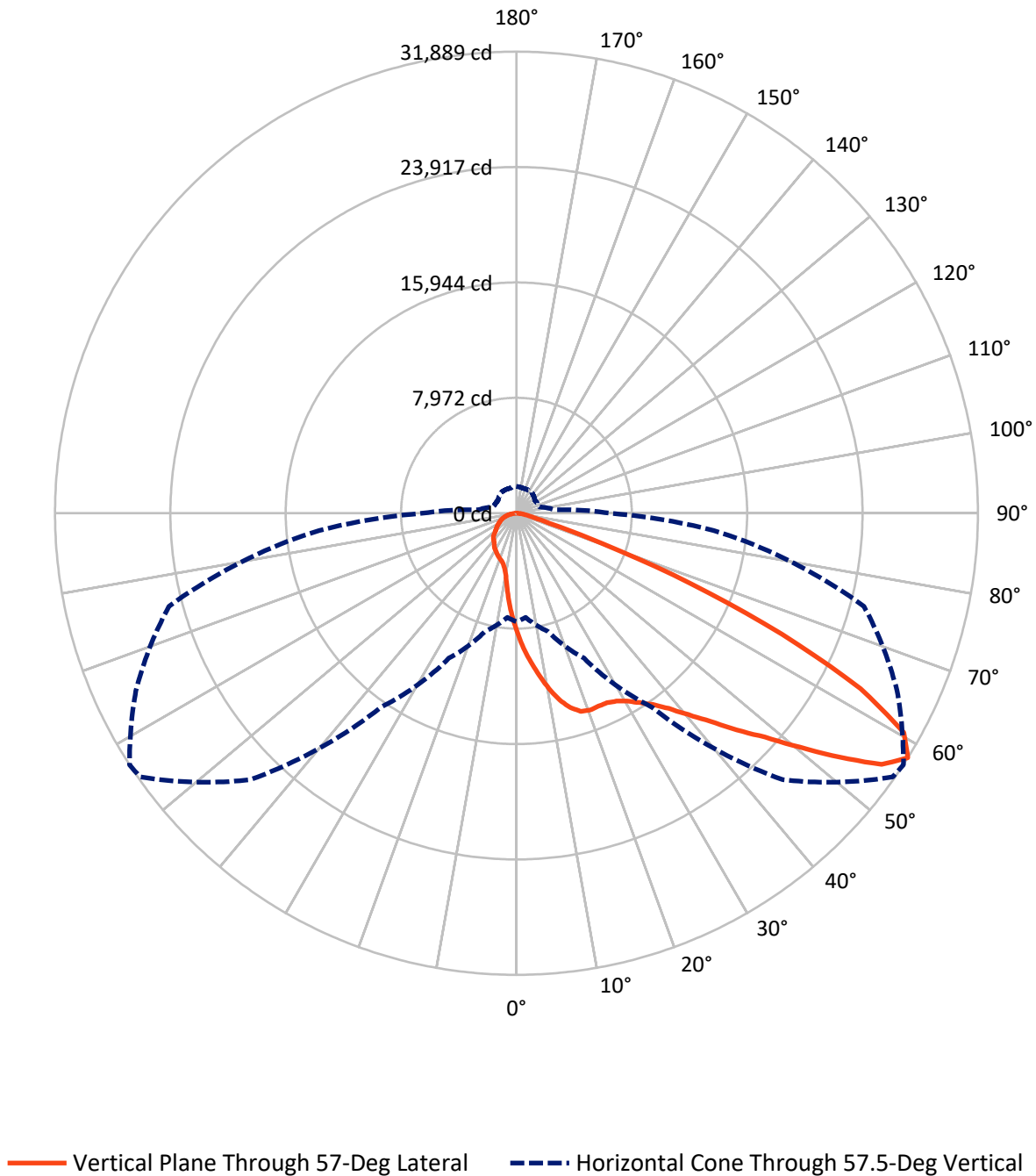


Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

REPORT NUMBER: P456400

CATALOG NUMBER: GALN-SA7C-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P456400

CATALOG NUMBER: GALN-SA7C-830-U-AFL

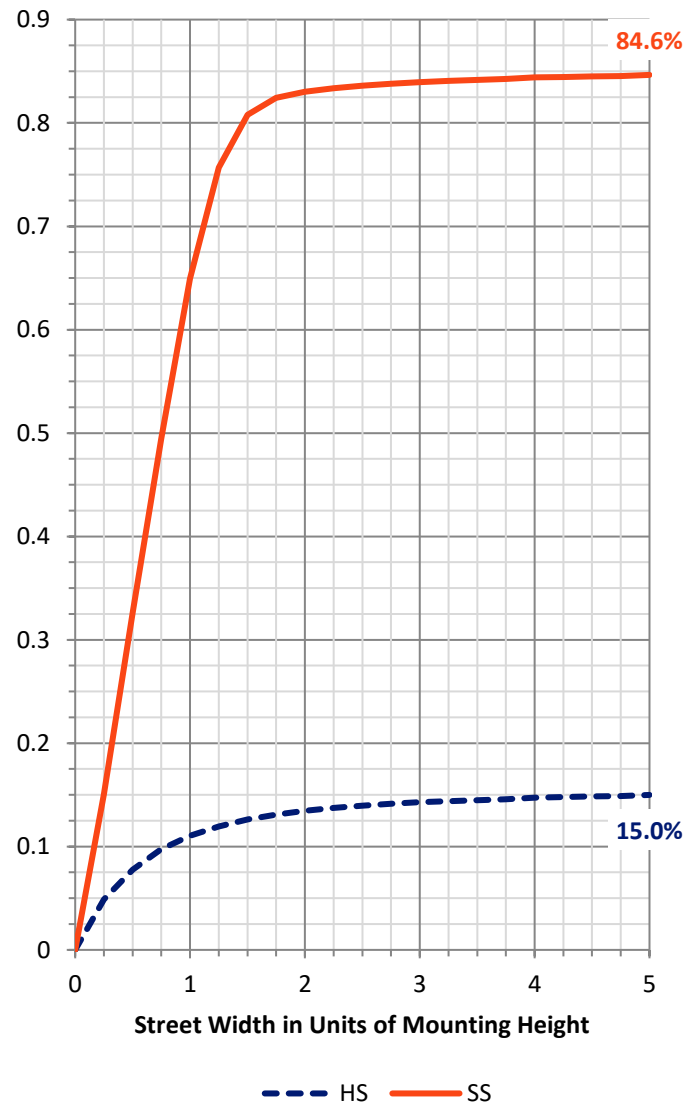
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5975.4	0.0	5975.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	33317.6	0.0	33317.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	39293.0	0.0	39293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.4	2.0
10°-20°	2338.2	6.0
20°-30°	3882.6	9.9
30°-40°	5848.2	14.9
40°-50°	8780.6	22.3
50°-60°	9841.9	25.0
60°-70°	5760.0	14.7
70°-80°	1703.8	4.3
80°-90°	344.4	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°	39293.0	100.0
0°-180°	39293.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456400

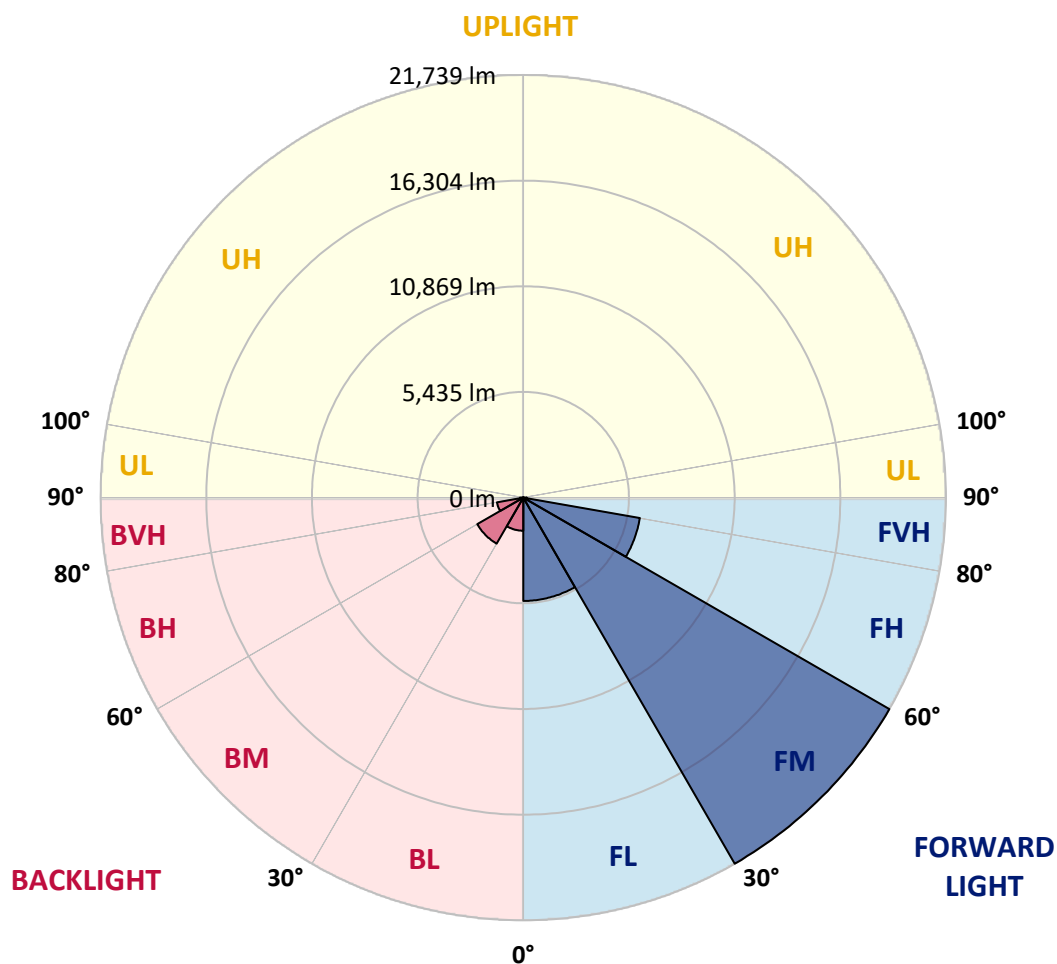
CATALOG NUMBER: GALN-SA7C-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5311.5	13.5			
FM	(30°-60°)	21738.6	55.3			
FH	(60°-80°)	6088.8	15.5			G3/7500
FVH	(80°-90°)	178.7	0.5			G2/225
BL	(0°-30°)	1702.6	4.3	B3/2500		
BM	(30°-60°)	2732.2	7.0	B3/5000		
BH	(60°-80°)	1374.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	165.7	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: P456400

CATALOG NUMBER: GALN-SA7C-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0
2.5°	10257.5	10145.6	10057.4	9980.0	9878.9	9605.8	9332.6	9328.3	9111.1	8775.5	8431.4
5°	11928.7	11778.1	11797.5	11556.6	11315.7	10919.9	10341.3	10311.2	9848.8	9220.7	8581.9
7.5°	13017.0	13019.2	12958.9	12821.3	12561.0	12111.5	11455.5	11307.1	10664.0	9711.1	8754.0
10°	12961.1	13019.2	13120.3	13238.6	13318.1	13096.6	12498.7	12318.0	11481.3	10304.8	8945.4
12.5°	12216.9	12307.2	12451.3	12748.2	13227.8	13593.4	13389.1	13242.9	12427.7	10896.3	9156.2
15°	11752.3	11806.1	11885.7	12085.7	12601.9	13477.3	14006.4	13929.0	13320.3	11565.2	9392.8
17.5°	11610.4	11664.1	11689.9	11812.5	12180.3	13077.2	14249.5	14387.1	14111.8	12180.3	9631.6
20°	11752.3	11778.1	11778.1	11851.3	12139.5	12842.8	14238.7	14516.2	14761.4	12918.1	9855.3
22.5°	12124.4	12135.2	12120.1	12145.9	12361.0	12907.3	14137.6	14481.8	15286.2	13544.0	10029.5
25°	12728.8	12746.0	12647.1	12586.8	12743.9	13191.2	14193.5	14509.7	15697.0	14141.9	10145.6
27.5°	13414.9	13436.4	13316.0	13176.2	13249.3	13541.8	14412.9	14696.8	16004.6	14731.3	10218.7
30°	14255.9	14264.5	14062.3	13894.6	13847.3	14064.5	14787.2	15051.7	16387.4	15426.0	10328.4
32.5°	15116.3	15180.8	14920.5	14683.9	14604.4	14671.0	15340.0	15595.9	16843.4	16172.3	10504.8
35°	16286.3	16297.1	15985.2	15697.0	15434.6	15520.6	16047.6	16232.6	17473.6	17034.8	10754.3
37.5°	17746.8	17845.7	17415.5	16877.8	16555.2	16430.4	16903.6	17105.8	18357.6	18093.1	11130.7
40°	19368.5	19405.1	19037.3	18701.7	18112.4	17751.1	18078.0	18297.4	19448.1	19355.6	11567.3
42.5°	20388.0	20467.6	20495.6	20461.2	20018.1	19411.5	19536.3	19639.5	20738.6	20540.7	12014.7
45°	20732.2	20850.5	21250.5	22098.0	22145.3	21547.3	21257.0	21355.9	22145.3	21736.6	12442.7
47.5°	20162.2	20364.4	21102.1	22840.0	24141.3	24186.4	23311.0	23093.8	23427.2	22728.2	12752.5
50°	18688.8	18731.9	19861.1	22377.6	25076.9	26709.4	25803.9	25399.5	24644.6	23461.6	12965.4
52.5°	16408.9	16458.4	17404.8	20228.9	24500.5	28473.1	28720.5	27997.8	25881.3	24031.6	13105.2
55°	12180.3	12466.4	13507.4	16236.9	21768.9	28307.5	31039.1	30628.3	27376.2	24483.3	13324.6
57.5°	7489.3	7226.9	8461.5	11046.8	16372.4	26031.9	31755.3	31888.7	29021.6	24861.8	13692.4
60°	3445.7	3497.3	4007.1	5697.6	9980.0	20364.4	29909.9	30753.0	29931.4	24848.9	13784.9
62.5°	2374.6	2327.2	2198.2	2501.5	4551.2	12879.4	25264.0	26692.2	28107.5	24076.8	13417.1
65°	2122.9	2075.6	1826.1	1742.2	2090.6	5613.8	18366.2	20168.6	23665.9	22128.1	12500.8
67.5°	1983.1	1918.6	1660.5	1497.0	1492.7	2234.7	10829.6	12999.8	17553.2	18708.2	10831.7
70°	1836.8	1785.2	1529.3	1348.6	1271.2	1404.5	4759.9	6231.0	11397.4	13481.6	8437.8
72.5°	1690.6	1630.4	1400.2	1206.6	1105.5	1051.8	1823.9	2372.4	6439.7	8082.9	5172.8
75°	1477.6	1447.5	1251.8	1092.6	982.9	849.6	1157.2	1320.6	3080.0	3712.4	2596.1
77.5°	1292.7	1260.4	1112.0	955.0	875.4	690.4	821.6	896.9	1299.1	1505.6	1172.2
80°	946.4	978.6	937.8	843.1	780.8	542.0	552.8	615.1	772.2	853.9	716.2
82.5°	600.1	660.3	722.7	649.6	591.5	428.0	382.9	406.5	527.0	559.2	318.3
85°	251.7	256.0	419.4	395.8	337.7	253.8	230.1	243.0	281.8	294.7	148.4
87.5°	96.8	94.6	148.4	137.7	105.4	73.1	73.1	81.7	111.8	103.2	47.3
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: P456400

CATALOG NUMBER: GALN-SA7C-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0	8255.0
2.5°	8283.0	8130.3	7827.0	7450.6	7175.3	6865.6	6592.4	6396.7	6323.5	6289.1	6224.6
5°	8276.5	7975.4	7347.3	6689.2	6160.1	5618.1	5159.9	4863.1	4837.3	4639.4	4620.1
7.5°	8278.7	7818.4	6818.2	5850.3	5043.8	4488.8	4110.3	4011.4	3893.1	3862.9	3878.0
10°	8285.1	7618.4	6250.4	5020.1	4239.3	3875.9	3733.9	3695.2	3699.5	3712.4	3714.5
12.5°	8293.7	7424.8	5661.1	4389.9	3787.7	3637.1	3622.1	3656.5	3693.0	3721.0	3727.4
15°	8304.5	7203.2	5086.8	3882.3	3561.8	3548.9	3598.4	3656.5	3708.1	3749.0	3755.4
17.5°	8291.6	6945.1	4605.0	3570.4	3437.1	3499.5	3581.2	3654.3	3701.6	3740.3	3744.7
20°	8261.5	6656.9	4140.4	3351.0	3359.6	3460.7	3548.9	3617.8	3669.4	3688.7	3703.8
22.5°	8145.3	6312.8	3736.0	3181.1	3267.2	3407.0	3512.4	3553.2	3495.2	3454.3	3465.0
25°	7947.4	5865.4	3359.6	3043.5	3183.3	3331.7	3439.2	3340.3	3293.0	3275.8	3284.4
27.5°	7700.1	5375.0	3075.7	2899.4	3075.7	3247.8	3217.7	3200.5	3179.0	3151.0	3157.5
30°	7433.4	4895.4	2834.8	2787.5	2959.6	3058.5	3071.4	3099.4	3075.7	3032.7	3049.9
32.5°	7186.0	4443.7	2652.0	2692.9	2877.9	2862.8	2959.6	2991.8	2882.2	2738.0	2744.5
35°	6975.2	4024.3	2514.4	2600.4	2738.0	2744.5	2841.3	2729.4	2611.1	2542.3	2546.6
37.5°	6816.1	3697.3	2424.0	2520.8	2559.5	2641.3	2589.6	2531.6	2516.5	2469.2	2471.3
40°	6721.4	3411.3	2365.9	2458.4	2452.0	2507.9	2342.3	2400.4	2421.9	2406.8	2409.0
42.5°	6626.8	3209.1	2305.7	2372.4	2370.3	2260.6	2224.0	2273.5	2329.4	2335.8	2331.5
45°	6551.5	3052.1	2243.3	2241.2	2284.2	2112.1	2101.4	2131.5	2211.1	2249.8	2247.7
47.5°	6467.6	2920.9	2148.7	2088.5	2101.4	2019.7	2002.5	2015.4	2112.1	2174.5	2191.7
50°	6362.3	2789.7	2030.4	1948.7	1894.9	1933.6	1937.9	1940.1	2036.9	2107.8	2122.9
52.5°	6278.4	2690.7	1894.9	1834.7	1770.2	1856.2	1888.5	1892.8	1950.8	2008.9	2019.7
55°	6327.8	2634.8	1761.6	1718.5	1660.5	1776.6	1839.0	1847.6	1860.5	1903.5	1910.0
57.5°	6476.2	2647.7	1654.0	1598.1	1555.1	1682.0	1787.4	1793.8	1785.2	1836.8	1845.4
60°	6521.4	2641.3	1574.4	1464.7	1438.9	1580.9	1712.1	1725.0	1722.8	1798.1	1813.2
62.5°	6332.1	2559.5	1494.8	1352.9	1335.7	1477.6	1606.7	1658.3	1669.1	1776.6	1796.0
65°	5886.9	2391.8	1389.5	1234.6	1234.6	1367.9	1505.6	1576.6	1606.7	1750.8	1772.3
67.5°	5299.7	2193.9	1281.9	1133.5	1129.2	1262.6	1398.1	1471.2	1518.5	1714.2	1727.1
70°	4398.5	1927.2	1148.6	1023.8	1023.8	1144.3	1266.9	1355.0	1423.9	1645.4	1645.4
72.5°	3013.4	1602.4	987.2	899.1	901.2	1013.1	1137.8	1236.7	1318.5	1507.8	1512.1
75°	1905.7	1251.8	810.9	765.7	774.3	879.7	1008.8	1112.0	1275.5	1490.5	1497.0
77.5°	1013.1	879.7	645.3	634.5	645.3	742.0	886.2	1028.1	1279.8	1292.7	1271.2
80°	656.0	623.8	509.8	488.2	492.5	597.9	789.4	976.5	1028.1	1041.0	993.7
82.5°	357.0	395.8	361.3	339.8	339.8	466.7	673.2	776.5	737.7	613.0	585.0
85°	152.7	185.0	187.1	163.5	157.0	288.2	451.7	423.7	393.6	376.4	372.1
87.5°	43.0	60.2	60.2	45.2	34.4	79.6	90.3	25.8	0.0	2.2	4.3
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)