

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: P454558

Luminaire Tested: **GALN-SA5C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28137 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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

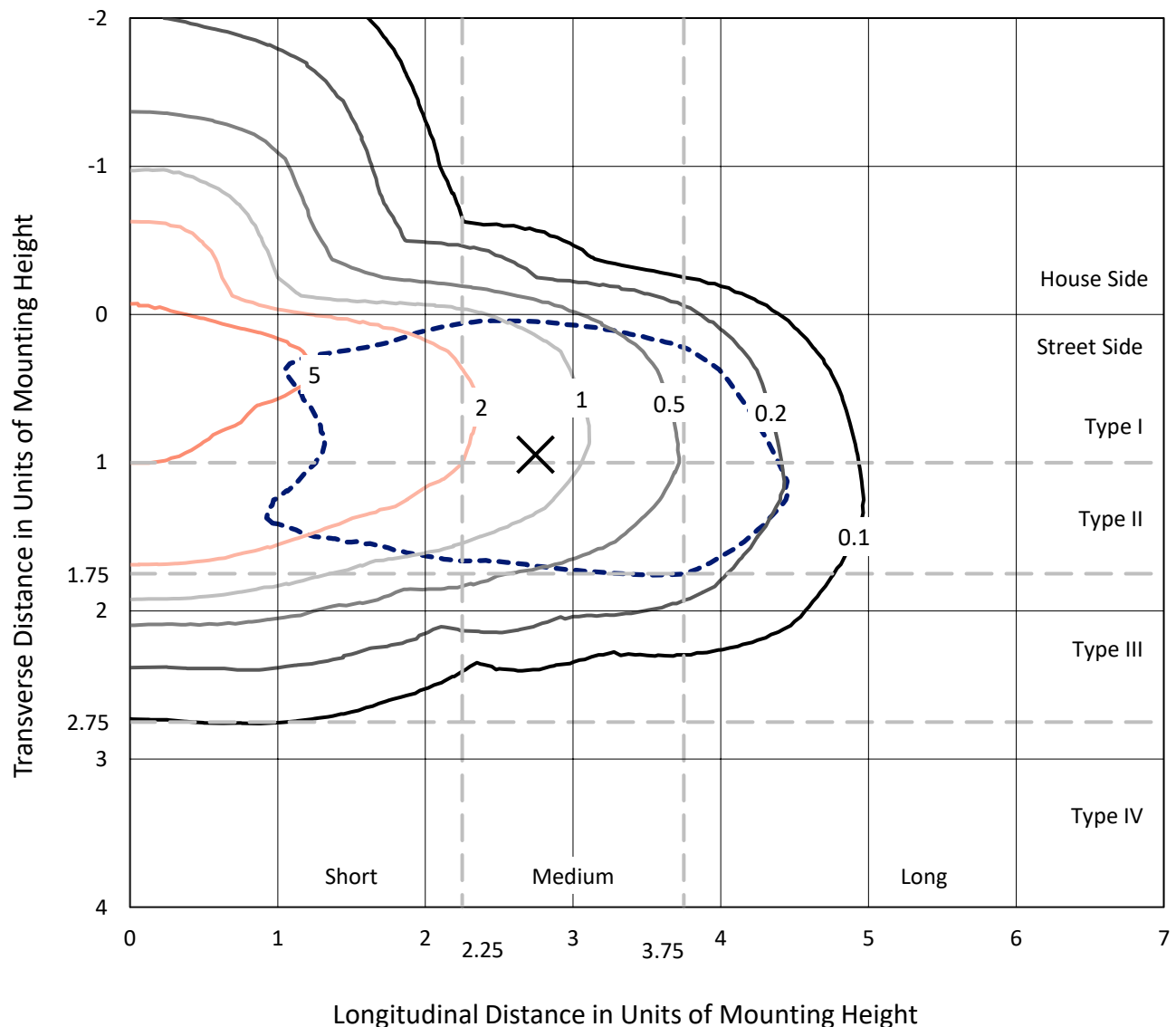


REPORT NUMBER: P454558

CATALOG NUMBER: GALN-SA5C-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

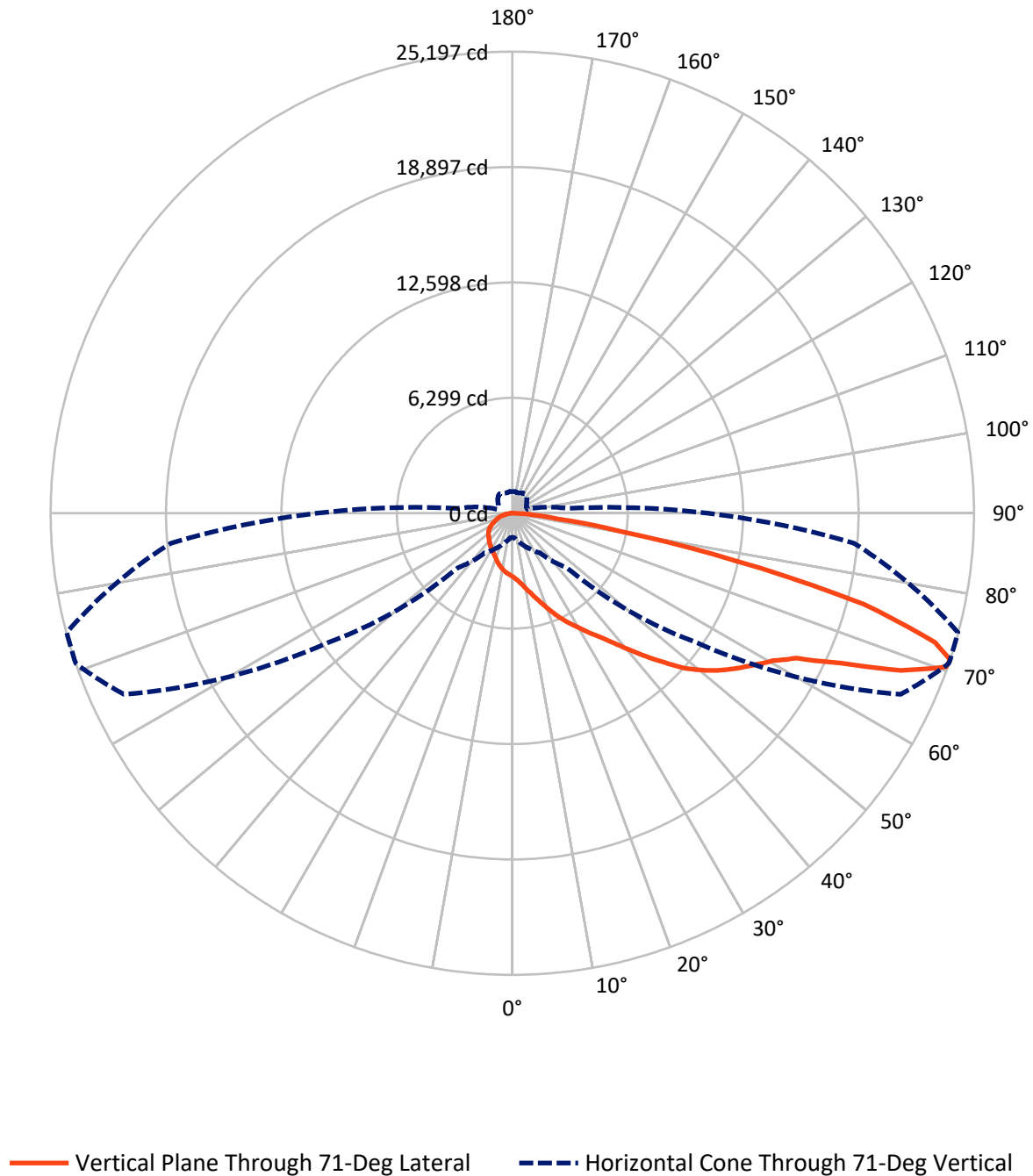


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P454558

CATALOG NUMBER: GALN-SA5C-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P454558

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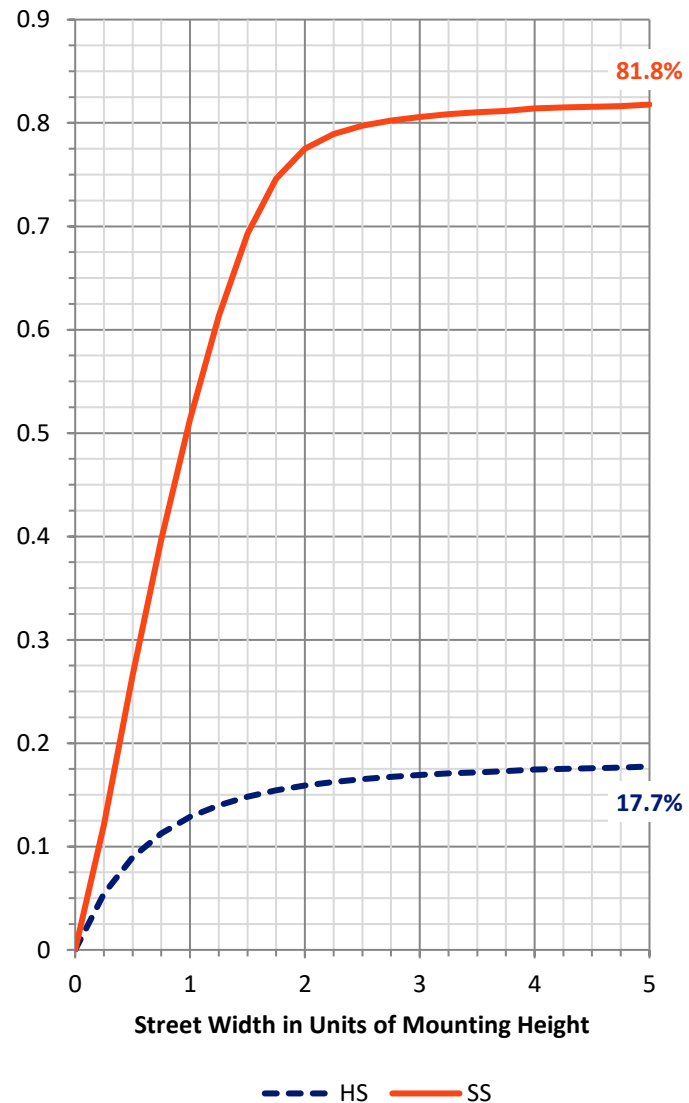
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5060.4	0.0	5060.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23076.6	0.0	23076.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	28137.0	0.0	28137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.2
10°-20°	1126.5	4.0
20°-30°	1968.7	7.0
30°-40°	2928.1	10.4
40°-50°	4314.2	15.3
50°-60°	6040.0	21.5
60°-70°	6755.5	24.0
70°-80°	4126.5	14.7
80°-90°	530.8	1.9
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°	28137.0	100.0
0°-180°	28137.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454558

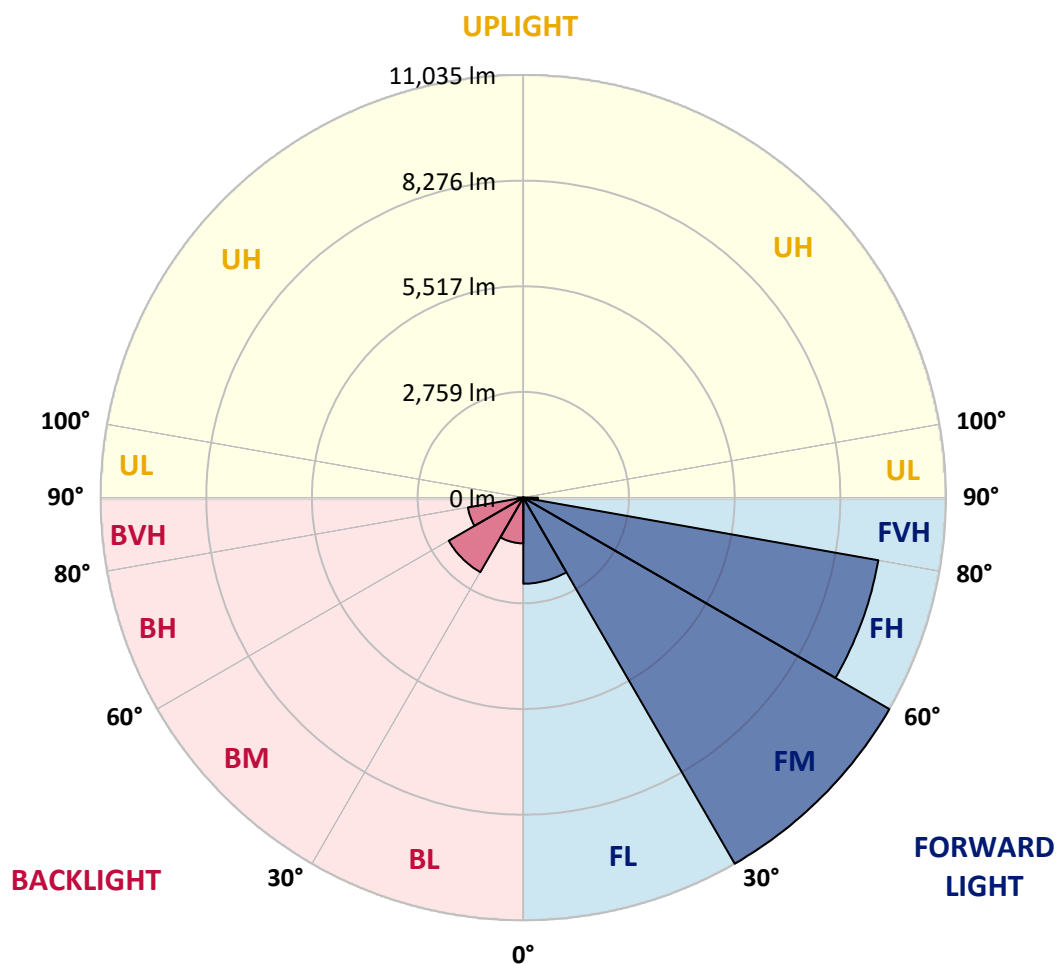
CATALOG NUMBER: GALN-SA5C-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2248.2	8.0			
FM	(30°-60°)	11034.8	39.2			
FH	(60°-80°)	9411.7	33.4			G4/12000
FVH	(80°-90°)	382.0	1.4			G3/500
BL	(0°-30°)	1193.7	4.2	B3/2500		
BM	(30°-60°)	2247.5	8.0	B2/2500		
BH	(60°-80°)	1470.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	148.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P454558

CATALOG NUMBER: GALN-SA5C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3
2.5°	3833.7	3815.1	3816.7	3790.4	3756.4	3719.3	3666.7	3620.3	3583.2	3561.5	3498.1
5°	4248.1	4229.6	4206.4	4149.2	4124.4	4033.2	3917.2	3812.0	3731.6	3686.8	3560.0
7.5°	4583.7	4579.1	4572.9	4540.4	4477.0	4350.2	4251.2	4068.8	3949.7	3864.6	3648.1
10°	4791.0	4798.7	4803.3	4809.5	4783.2	4716.7	4580.6	4350.2	4198.7	4090.4	3762.6
12.5°	4896.1	4903.8	4930.1	4987.4	5022.9	5015.2	4903.8	4678.1	4469.3	4327.0	3884.7
15°	4961.1	4973.4	5019.8	5095.6	5214.7	5290.5	5236.3	5027.6	4798.7	4630.1	4030.1
17.5°	5032.2	5046.1	5097.2	5205.4	5361.6	5525.5	5584.3	5404.9	5155.9	4954.9	4192.5
20°	5072.4	5091.0	5163.7	5305.9	5488.4	5726.6	5921.4	5827.1	5554.9	5332.2	4379.6
22.5°	5137.4	5152.8	5214.7	5366.2	5584.3	5882.8	6258.6	6238.4	5998.7	5711.1	4585.3
25°	5313.7	5338.4	5369.3	5460.6	5670.9	6042.0	6538.5	6677.6	6428.7	6107.0	4773.9
27.5°	5646.2	5666.3	5664.7	5677.1	5796.2	6179.7	6781.3	7112.2	6855.5	6507.5	4956.4
30°	6025.0	6032.8	6039.0	6011.1	6037.4	6320.4	7004.0	7542.1	7285.4	6918.9	5115.7
32.5°	6485.9	6501.3	6448.8	6377.6	6356.0	6529.2	7188.0	7972.0	7794.2	7336.4	5273.5
35°	7030.2	7070.4	6963.7	6838.5	6750.3	6829.2	7435.4	8411.2	8315.4	7870.0	5482.2
37.5°	7651.9	7701.4	7602.4	7356.5	7231.3	7252.9	7758.6	8954.0	8974.2	8477.7	5793.1
40°	8160.7	8225.7	8228.8	7880.8	7690.6	7715.3	8168.4	9538.6	9769.0	9229.3	6159.6
42.5°	8496.3	8559.7	8626.2	8422.1	8222.6	8363.3	8646.3	10172.7	10662.9	10141.7	6671.5
45°	8864.4	8921.6	8958.7	8865.9	8754.6	9119.5	9223.1	10846.9	11615.5	11160.9	7231.3
47.5°	9291.2	9354.6	9390.2	9302.0	9260.2	9783.0	9844.8	11476.3	12633.1	12150.6	7849.9
50°	9860.3	9908.2	9889.7	9834.0	9824.7	10291.7	10441.7	12065.5	13472.8	13216.1	8491.7
52.5°	10568.6	10625.8	10645.9	10567.0	10531.4	10655.2	10922.7	12602.2	14236.8	14131.6	9176.7
55°	10996.9	11088.2	11394.4	11518.1	11603.1	11125.3	11440.8	13194.5	14921.9	15096.6	9912.9
57.5°	10447.9	10565.5	11250.6	11869.1	12668.7	12300.6	12175.3	13813.0	15606.9	16032.2	10794.3
60°	9108.7	9135.0	10018.0	11157.8	12766.1	13811.5	13707.9	14796.6	16349.3	16975.6	11955.7
62.5°	6318.9	6374.5	7418.4	9237.0	11562.9	14355.9	16315.2	16494.6	17413.2	18387.5	13658.4
65°	3258.4	3185.7	4136.8	5805.4	8717.4	13063.0	18427.7	19616.9	19720.6	20595.9	16055.4
67.5°	2005.8	2038.2	2483.6	3389.9	5154.4	9493.8	18206.6	23432.1	22886.2	23306.8	18280.8
70°	1506.3	1546.5	1852.7	2319.7	3142.4	5428.1	14642.0	24356.9	25119.3	25011.0	18958.1
71°	1309.9	1351.6	1670.2	2110.9	2639.8	4189.4	12336.2	23388.8	25196.6	25178.0	18703.0
72.5°	1116.5	1142.8	1391.8	1787.7	2225.4	2936.7	9268.0	20976.3	24121.8	24738.8	17792.1
75°	876.8	897.0	1008.3	1364.0	1752.1	1803.2	4973.4	15726.0	19811.8	20987.1	14812.1
77.5°	714.5	728.4	785.6	1012.9	1351.6	1277.4	2608.9	10236.1	12411.9	13595.0	8725.2
80°	567.6	583.0	617.0	686.6	1012.9	910.9	1244.9	5186.9	5995.7	5983.3	3482.6
82.5°	440.7	445.4	485.6	504.1	692.8	646.4	674.3	2196.0	2432.6	2513.0	1257.3
85°	278.4	292.3	429.9	386.6	414.5	378.9	332.5	872.2	1074.8	1059.3	502.6
87.5°	85.1	89.7	145.4	163.9	184.0	165.5	122.2	256.7	313.9	340.2	125.3
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: P454558

CATALOG NUMBER: GALN-SA5C-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3	3453.3
2.5°	3473.4	3456.4	3396.0	3346.6	3300.2	3249.1	3205.8	3193.5	3182.6	3178.0	3176.4
5°	3505.8	3454.8	3335.7	3238.3	3161.0	3089.8	3045.0	3024.9	3004.8	3004.8	3011.0
7.5°	3552.2	3459.4	3275.4	3130.1	3032.6	2966.1	2933.6	2930.6	2935.2	2939.8	2941.4
10°	3603.3	3456.4	3187.3	3006.3	2919.7	2888.8	2890.3	2916.6	2941.4	2959.9	2963.0
12.5°	3652.8	3437.8	3083.7	2890.3	2834.7	2840.9	2884.2	2942.9	2990.9	3017.2	3018.7
15°	3708.4	3408.4	2958.4	2780.5	2762.0	2809.9	2890.3	2980.0	3052.7	3096.0	3100.7
17.5°	3754.8	3358.9	2826.9	2673.8	2697.0	2785.2	2896.5	3012.5	3100.7	3154.8	3164.1
20°	3807.4	3295.5	2690.9	2571.8	2638.3	2757.4	2884.2	3009.4	3100.7	3153.2	3165.6
22.5°	3849.2	3205.8	2561.0	2488.3	2585.7	2723.3	2842.4	2942.9	3017.2	3045.0	3063.6
25°	3866.2	3092.9	2438.8	2420.2	2543.9	2667.7	2748.1	2805.3	2828.5	2825.4	2833.1
27.5°	3856.9	2963.0	2333.6	2366.1	2491.4	2581.1	2621.3	2616.6	2574.9	2536.2	2554.8
30°	3818.2	2808.4	2245.5	2310.4	2423.3	2472.8	2466.6	2406.3	2327.4	2254.7	2259.4
32.5°	3748.6	2641.4	2163.5	2247.0	2327.4	2349.1	2307.3	2228.5	2115.6	2021.2	2007.3
35°	3689.9	2482.1	2090.8	2174.3	2231.6	2220.7	2180.5	2078.5	1976.4	1892.9	1879.0
37.5°	3680.6	2346.0	2021.2	2092.4	2124.8	2109.4	2059.9	1973.3	1936.2	1872.8	1865.0
40°	3730.1	2250.1	1950.1	2005.8	2021.2	2008.9	1954.7	1905.2	1939.3	1923.8	1923.8
42.5°	3864.6	2199.1	1886.7	1919.2	1931.5	1940.8	1902.2	1860.4	1902.2	1831.0	1807.8
45°	4078.0	2200.6	1829.5	1834.1	1871.2	1903.7	1877.4	1815.6	1793.9	1651.6	1623.8
47.5°	4392.0	2253.2	1783.1	1753.7	1820.2	1874.3	1837.2	1747.5	1651.6	1557.3	1540.3
50°	4758.5	2347.5	1741.3	1670.2	1752.1	1837.2	1809.4	1704.2	1605.2	1548.0	1537.2
52.5°	5165.2	2466.6	1690.3	1577.4	1668.6	1820.2	1815.6	1698.0	1561.9	1523.3	1514.0
55°	5667.8	2584.1	1626.9	1469.1	1594.4	1806.3	1798.5	1647.0	1552.7	1524.8	1521.7
57.5°	6252.4	2754.3	1535.6	1359.3	1509.4	1749.1	1732.0	1616.1	1521.7	1501.6	1500.1
60°	7194.2	3018.7	1405.7	1258.8	1422.8	1648.5	1670.2	1563.5	1472.2	1467.6	1466.1
62.5°	8432.9	3389.9	1271.2	1155.2	1322.2	1518.6	1580.5	1492.3	1419.7	1442.9	1445.9
65°	10143.3	3702.2	1132.0	1067.1	1210.9	1393.4	1495.4	1425.8	1360.9	1405.7	1405.7
67.5°	11258.3	3708.4	1005.2	975.8	1098.0	1288.2	1405.7	1347.0	1285.1	1360.9	1364.0
70°	11026.3	3249.1	900.0	879.9	988.2	1175.3	1306.8	1260.4	1189.2	1257.3	1232.5
71°	10652.1	2994.0	858.3	842.8	944.9	1121.2	1260.4	1221.7	1150.6	1195.4	1181.5
72.5°	10055.1	2599.6	790.2	793.3	879.9	1053.1	1195.4	1155.2	1084.1	1108.8	1104.2
75°	8499.4	2270.2	675.8	689.7	756.2	937.2	1065.5	1034.6	961.9	961.9	957.3
77.5°	5313.7	1586.7	561.4	569.1	641.8	802.6	915.5	889.2	819.6	796.4	790.2
80°	1982.6	819.6	439.2	448.5	493.3	632.5	757.8	733.0	661.9	635.6	610.9
82.5°	750.0	411.4	323.2	315.5	363.4	482.5	593.8	564.5	508.8	445.4	426.8
85°	283.0	204.1	197.9	191.8	213.4	286.1	368.1	361.9	303.1	258.3	253.6
87.5°	74.2	66.5	77.3	57.2	60.3	54.1	55.7	23.2	10.8	4.6	3.1
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)