

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: P650760

Luminaire Tested: **GALN-SA2C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650760
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-SA2C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11958.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

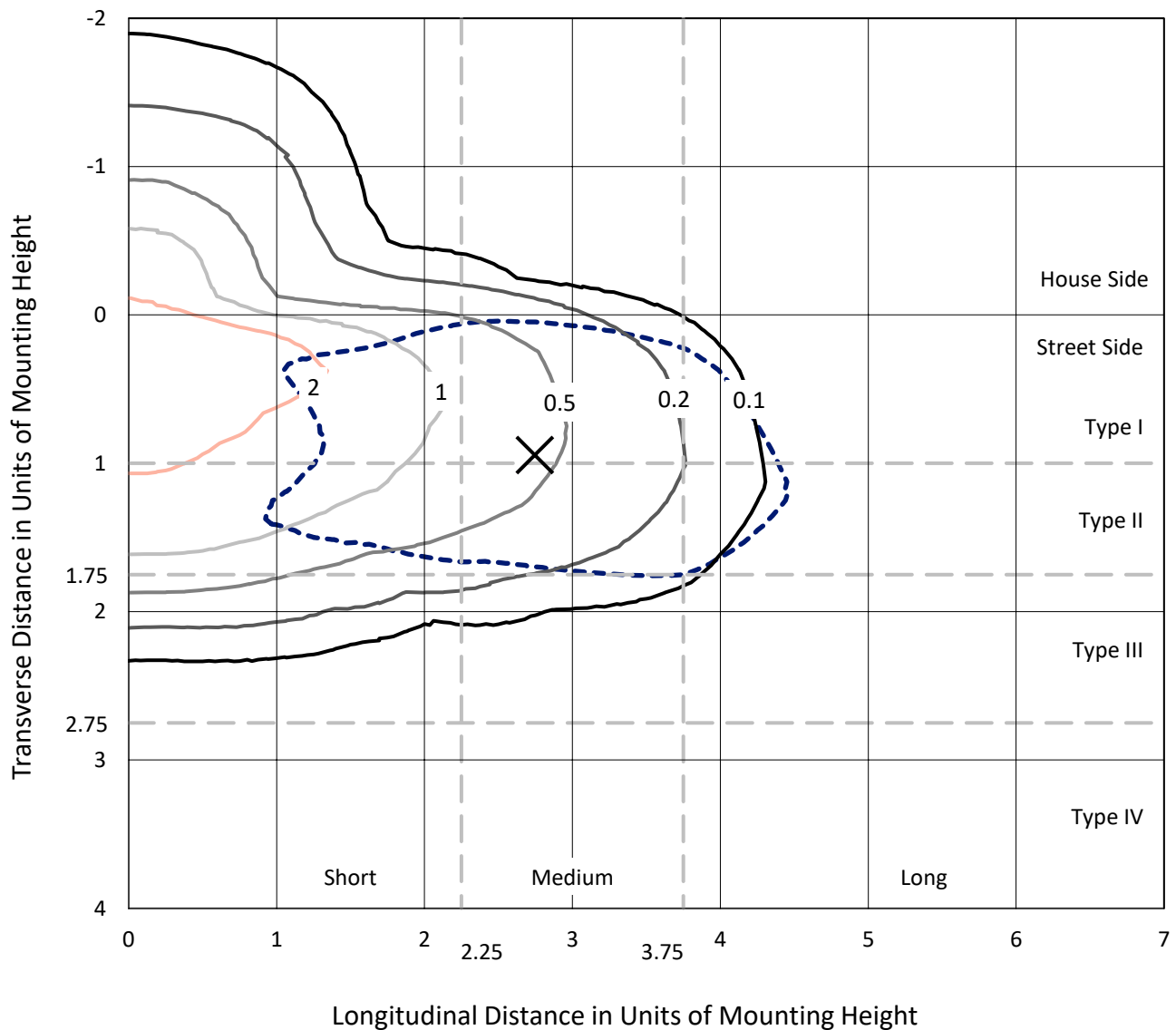
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650760
CATALOG NUMBER: GALN-SA2C-840-U-T2

Iso-Footcandle Lines of Horizontal Illumination

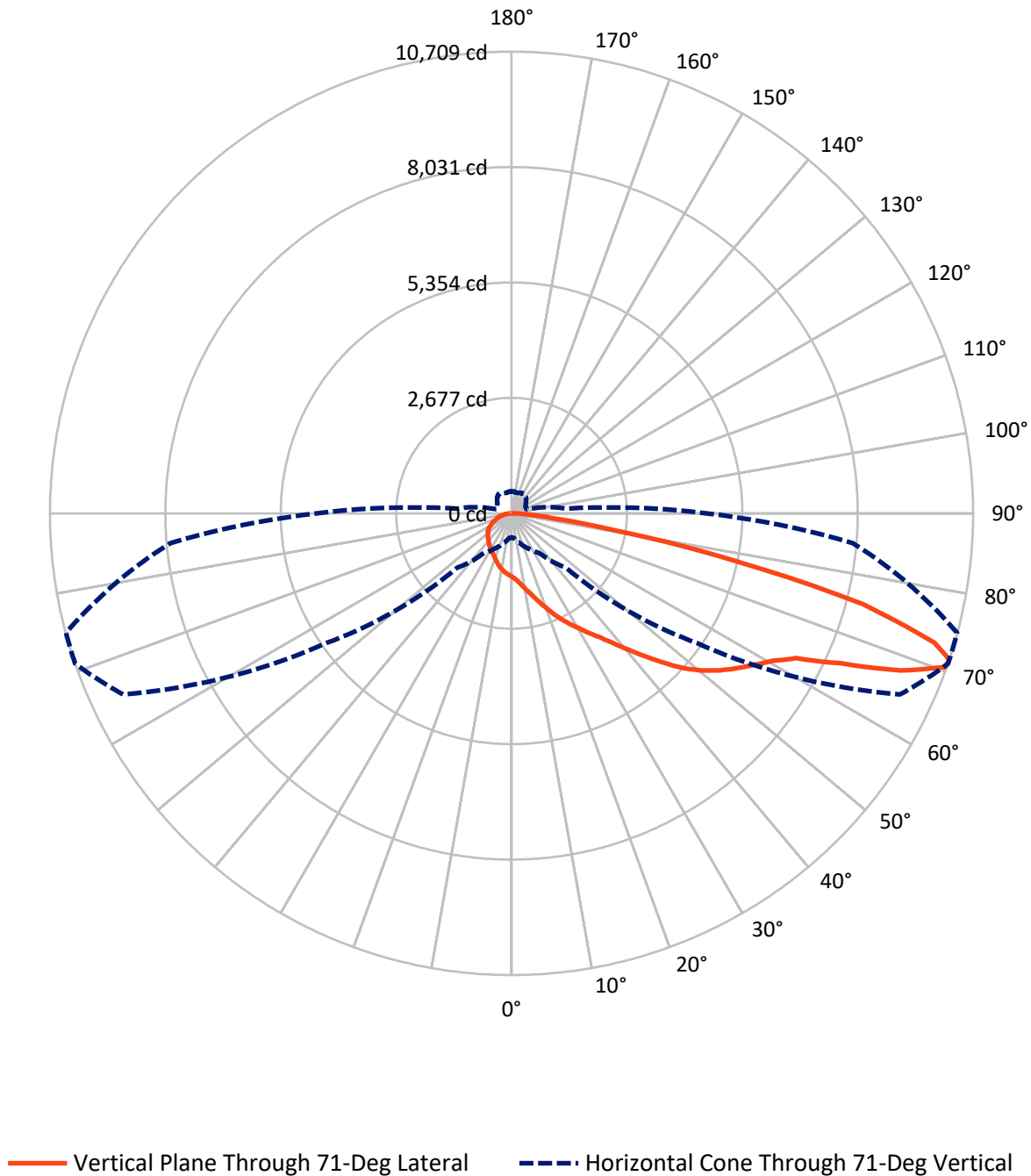
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

REPORT NUMBER: P650760
CATALOG NUMBER: GALN-SA2C-840-U-T2

Luminous Intensity Polar Plot



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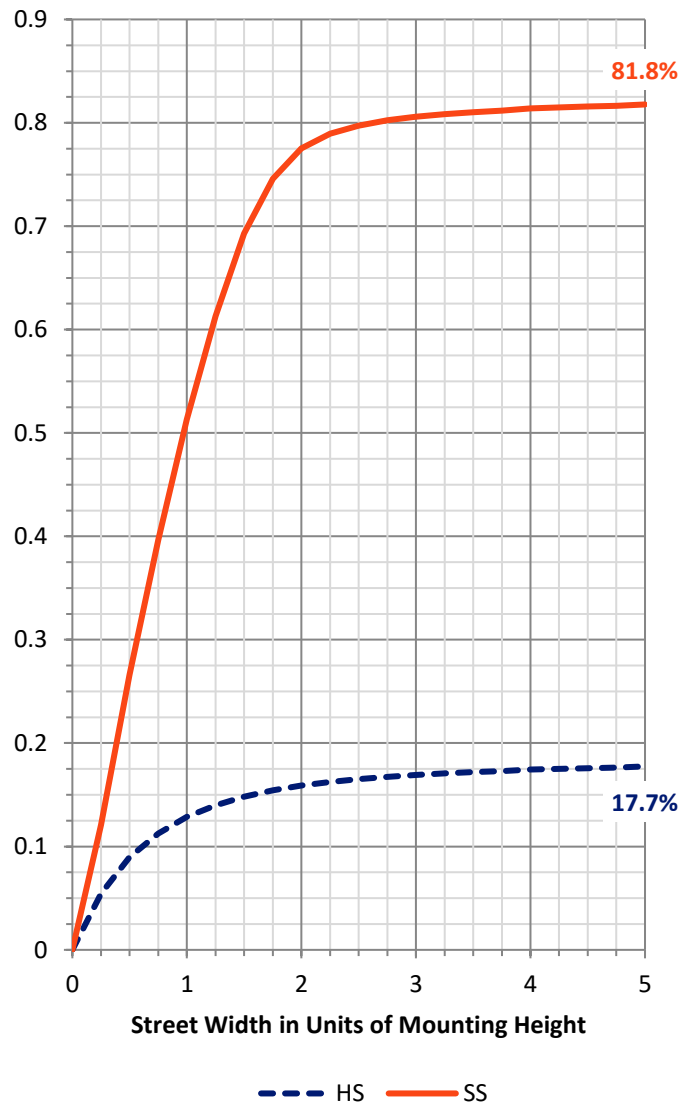
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.6	0.0	2150.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9807.5	0.0	9807.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	11958.2	0.0	11958.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.2
10°-20°	478.8	4.0
20°-30°	836.7	7.0
30°-40°	1244.4	10.4
40°-50°	1833.5	15.3
50°-60°	2567.0	21.5
60°-70°	2871.1	24.0
70°-80°	1753.8	14.7
80°-90°	225.6	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°	11958.2	100.0
0°-180°	11958.2	100.0

Coefficient of Utilization



REPORT NUMBER: P650760

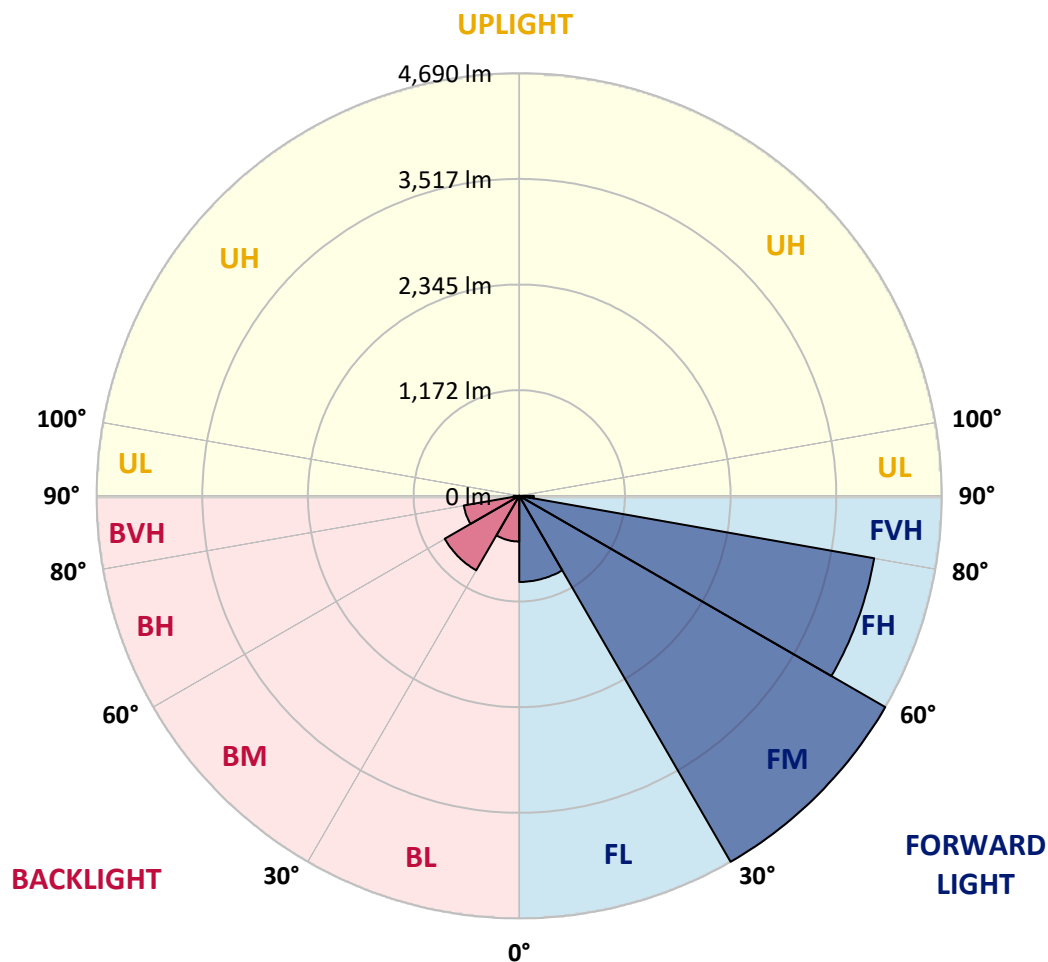
CATALOG NUMBER: GALN-SA2C-840-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.5	8.0			
FM	(30°-60°)	4689.8	39.2			
FH	(60°-80°)	4000.0	33.4			G2/5000
FVH	(80°-90°)	162.3	1.4			G2/225
BL	(0°-30°)	507.3	4.2	B2/1000		
BM	(30°-60°)	955.2	8.0	B1/1000		
BH	(60°-80°)	624.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	63.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P650760

CATALOG NUMBER: GALN-SA2C-840-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6
2.5°	1629.4	1621.4	1622.1	1610.9	1596.5	1580.7	1558.3	1538.6	1522.8	1513.6	1486.7
5°	1805.5	1797.6	1787.7	1763.4	1752.9	1714.1	1664.8	1620.1	1586.0	1566.9	1513.0
7.5°	1948.1	1946.1	1943.5	1929.7	1902.8	1848.9	1806.8	1729.2	1678.6	1642.5	1550.5
10°	2036.1	2039.4	2041.4	2044.1	2032.9	2004.6	1946.7	1848.9	1784.4	1738.4	1599.1
12.5°	2080.8	2084.2	2095.3	2119.7	2134.7	2131.4	2084.2	1988.2	1899.5	1839.0	1651.0
15°	2108.5	2113.7	2133.4	2165.7	2216.2	2248.4	2225.5	2136.7	2039.4	1967.8	1712.8
17.5°	2138.7	2144.6	2166.2	2212.3	2278.7	2348.3	2373.3	2297.1	2191.2	2105.8	1781.8
20°	2155.7	2163.6	2194.5	2255.0	2332.6	2433.8	2516.6	2476.5	2360.9	2266.2	1861.3
22.5°	2183.4	2190.0	2216.2	2280.6	2373.3	2500.1	2659.9	2651.3	2549.5	2427.2	1948.8
25°	2258.3	2268.8	2282.0	2320.7	2410.1	2567.8	2778.8	2838.0	2732.2	2595.5	2028.9
27.5°	2399.6	2408.1	2407.5	2412.7	2463.4	2626.4	2882.0	3022.6	2913.6	2765.7	2106.5
30°	2560.6	2564.0	2566.6	2554.7	2565.9	2686.2	2976.6	3205.4	3096.3	2940.6	2174.2
32.5°	2756.5	2763.0	2740.7	2710.5	2701.3	2774.9	3054.8	3388.1	3312.5	3118.0	2241.2
35°	2987.8	3004.9	2959.6	2906.3	2868.9	2902.4	3160.1	3574.8	3534.1	3344.7	2329.9
37.5°	3252.1	3273.1	3231.0	3126.5	3073.3	3082.5	3297.4	3805.4	3814.0	3603.0	2462.0
40°	3468.3	3495.9	3497.2	3349.4	3268.5	3279.0	3471.6	4053.9	4151.8	3922.4	2617.8
42.5°	3610.9	3637.8	3666.1	3579.4	3494.6	3554.4	3674.7	4323.3	4531.7	4310.2	2835.3
45°	3767.3	3791.6	3807.5	3768.0	3720.7	3875.7	3919.8	4609.9	4936.6	4743.3	3073.3
47.5°	3948.7	3975.7	3990.8	3953.4	3935.6	4157.7	4184.1	4877.5	5369.0	5164.0	3336.2
50°	4190.6	4211.0	4203.1	4179.4	4175.5	4374.0	4437.7	5127.8	5725.9	5616.8	3608.9
52.5°	4491.6	4515.9	4524.5	4490.9	4475.9	4528.4	4642.2	5355.9	6050.6	6005.9	3900.1
55°	4673.7	4712.5	4842.6	4895.2	4931.3	4728.3	4862.3	5607.6	6341.7	6416.1	4213.0
57.5°	4440.4	4490.3	4781.5	5044.4	5384.2	5227.7	5174.5	5870.5	6633.0	6813.7	4587.6
60°	3871.2	3882.4	4257.6	4742.1	5425.5	5869.8	5825.9	6288.5	6948.4	7214.6	5081.2
62.5°	2685.5	2709.2	3152.8	3925.7	4914.2	6101.2	6934.0	7010.2	7400.6	7814.7	5804.8
65°	1384.8	1353.9	1758.1	2467.3	3704.9	5551.8	7831.7	8337.2	8381.2	8753.2	6823.5
67.5°	852.4	866.2	1055.5	1440.7	2190.6	4034.9	7737.8	9958.6	9726.6	9905.4	7769.3
70°	640.2	657.2	787.3	985.9	1335.5	2306.9	6222.8	10351.6	10675.7	10629.7	8057.2
71°	556.7	574.4	709.8	897.2	1121.9	1780.5	5242.9	9940.2	10708.5	10700.6	7948.7
72.5°	474.5	485.7	591.6	759.8	945.8	1248.1	3938.9	8914.9	10251.7	10513.9	7561.6
75°	372.6	381.2	428.5	579.7	744.6	766.3	2113.7	6683.5	8420.0	8919.5	6295.1
77.5°	303.7	309.6	333.9	430.5	574.4	542.9	1108.8	4350.3	5275.1	5777.8	3708.2
80°	241.2	247.8	262.2	291.8	430.5	387.1	529.1	2204.4	2548.1	2542.8	1480.2
82.5°	187.3	189.3	206.4	214.3	294.4	274.8	286.5	933.3	1033.8	1068.0	534.4
85°	118.3	124.2	182.7	164.3	176.1	161.1	141.3	370.7	456.7	450.2	213.6
87.5°	36.2	38.1	61.8	69.6	78.2	70.3	51.9	109.1	133.4	144.6	53.2
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: P650760

CATALOG NUMBER: GALN-SA2C-840-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6	1467.6
2.5°	1476.2	1469.0	1443.3	1422.3	1402.5	1380.8	1362.5	1357.2	1352.6	1350.6	1350.0
5°	1490.0	1468.3	1417.7	1376.3	1343.4	1313.1	1294.1	1285.6	1277.1	1277.1	1279.7
7.5°	1509.7	1470.2	1392.0	1330.3	1288.8	1260.6	1246.8	1245.5	1247.5	1249.4	1250.1
10°	1531.4	1469.0	1354.6	1277.6	1240.9	1227.8	1228.4	1239.5	1250.1	1258.0	1259.3
12.5°	1552.4	1461.1	1310.5	1228.4	1204.7	1207.3	1225.8	1250.7	1271.1	1282.3	1282.9
15°	1576.1	1448.5	1257.3	1181.7	1173.9	1194.2	1228.4	1266.5	1297.4	1315.8	1317.8
17.5°	1595.8	1427.5	1201.5	1136.4	1146.2	1183.7	1231.1	1280.3	1317.8	1340.8	1344.8
20°	1618.2	1400.6	1143.6	1093.0	1121.2	1171.8	1225.8	1279.0	1317.8	1340.1	1345.3
22.5°	1635.9	1362.5	1088.4	1057.5	1098.9	1157.4	1208.0	1250.7	1282.3	1294.1	1302.0
25°	1643.1	1314.5	1036.4	1028.6	1081.2	1133.8	1167.9	1192.3	1202.1	1200.8	1204.1
27.5°	1639.2	1259.3	991.8	1005.6	1058.8	1096.9	1114.1	1112.1	1094.3	1077.9	1085.7
30°	1622.7	1193.5	954.3	982.0	1029.9	1050.9	1048.3	1022.7	989.2	958.2	960.3
32.5°	1593.2	1122.6	919.5	955.0	989.2	998.4	980.6	947.1	899.1	859.0	853.1
35°	1568.2	1054.9	888.6	924.1	948.4	943.8	926.7	883.3	840.0	804.5	798.5
37.5°	1564.3	997.0	859.0	889.3	903.1	896.5	875.5	838.6	822.8	795.9	792.6
40°	1585.3	956.3	828.8	852.4	859.0	853.8	830.7	809.7	824.2	817.6	817.6
42.5°	1642.5	934.6	801.8	815.6	820.9	824.9	808.5	790.7	808.5	778.2	768.3
45°	1733.1	935.3	777.5	779.5	795.2	809.0	797.9	771.6	762.4	701.9	690.1
47.5°	1866.6	957.6	757.8	745.3	773.6	796.6	780.8	742.7	701.9	661.9	654.6
50°	2022.4	997.7	740.1	709.8	744.6	780.8	769.0	724.3	682.2	657.9	653.3
52.5°	2195.2	1048.3	718.4	670.4	709.1	773.6	771.6	721.7	663.8	647.4	643.4
55°	2408.8	1098.3	691.4	624.4	677.6	767.7	764.4	700.0	659.8	648.1	646.7
57.5°	2657.2	1170.6	652.6	577.7	641.4	743.4	736.1	686.8	646.7	638.2	637.6
60°	3057.5	1282.9	597.4	535.0	604.7	700.6	709.8	664.5	625.7	623.7	623.1
62.5°	3583.9	1440.7	540.3	491.0	562.0	645.4	671.7	634.3	603.3	613.2	614.5
65°	4310.9	1573.4	481.1	453.5	514.6	592.1	635.5	605.9	578.4	597.4	597.4
67.5°	4784.8	1576.1	427.2	414.7	466.7	547.5	597.4	572.5	546.1	578.4	579.7
70°	4686.1	1380.8	382.5	374.0	420.0	499.5	555.4	535.6	505.4	534.4	523.9
71°	4527.1	1272.4	364.7	358.2	401.6	476.5	535.6	519.2	489.0	508.0	502.2
72.5°	4273.4	1104.8	335.8	337.2	374.0	447.6	508.0	491.0	460.7	471.2	469.3
75°	3612.3	964.9	287.2	293.2	321.4	398.3	452.9	439.7	408.8	408.8	406.9
77.5°	2258.3	674.3	238.6	241.9	272.7	341.1	389.1	377.9	348.3	338.5	335.8
80°	842.6	348.3	186.6	190.6	209.7	268.8	322.0	311.5	281.3	270.1	259.6
82.5°	318.7	174.8	137.3	134.1	154.5	205.0	252.4	239.9	216.2	189.3	181.4
85°	120.3	86.8	84.1	81.5	90.7	121.6	156.4	153.8	128.8	109.8	107.8
87.5°	31.5	28.3	32.9	24.3	25.7	23.0	23.6	9.8	4.6	1.9	1.3
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)