

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: P451783

Luminaire Tested: **GALN-SA2C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8127 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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



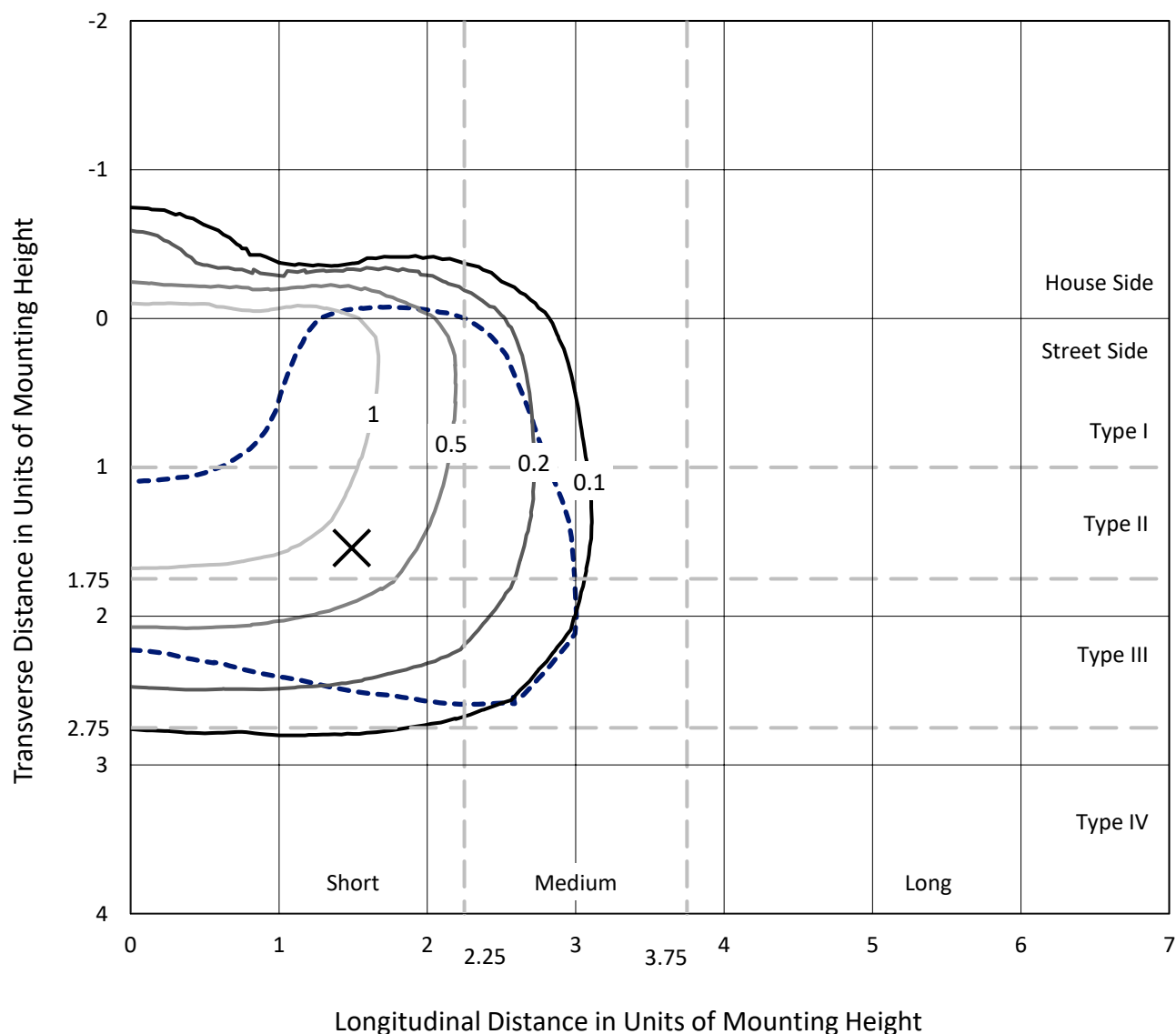
REPORT NUMBER: P451783

CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

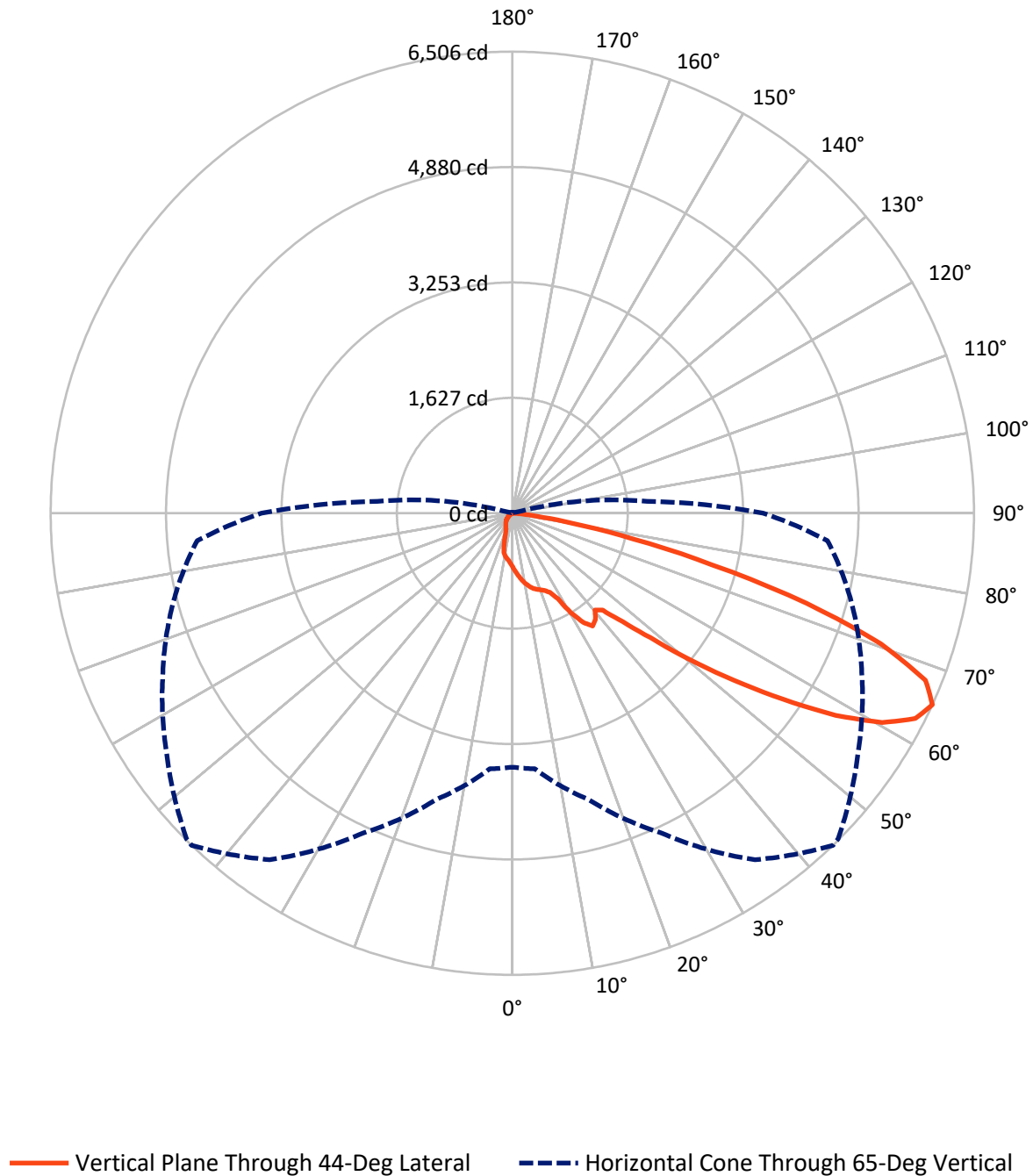
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P451783
CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451783

CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

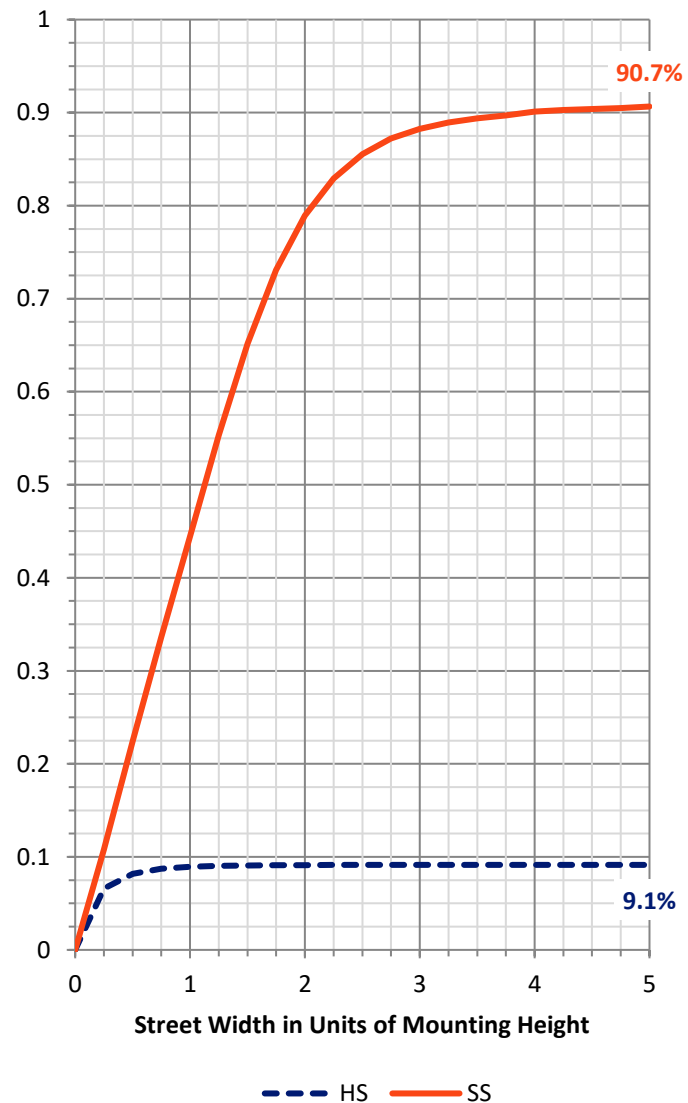
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.8	0.0	748.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7378.2	0.0	7378.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	8127.0	0.0	8127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	0.9
10°-20°	226.4	2.8
20°-30°	383.9	4.7
30°-40°	638.3	7.9
40°-50°	1114.5	13.7
50°-60°	2177.4	26.8
60°-70°	2526.3	31.1
70°-80°	920.0	11.3
80°-90°	64.8	0.8
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°	8127.0	100.0
0°-180°	8127.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451783

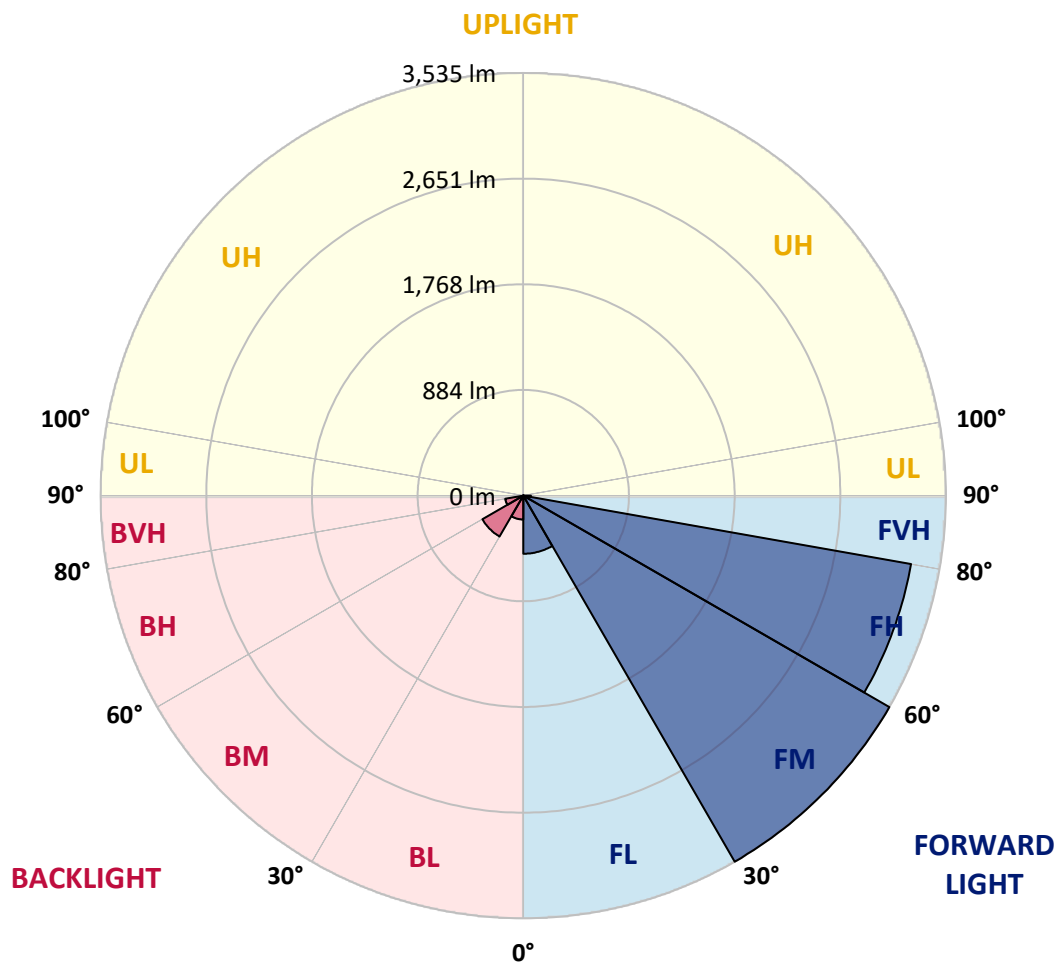
CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.1	6.0			
FM	(30°-60°)	3535.3	43.5			
FH	(60°-80°)	3293.0	40.5			G2/5000
FVH	(80°-90°)	63.9	0.8			G1/100
BL	(0°-30°)	199.5	2.5	B1/500		
BM	(30°-60°)	395.1	4.9	B1/1000		
BH	(60°-80°)	153.3	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G2

Type III Short





REPORT NUMBER: P451783

CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4
2.5°	851.4	847.7	845.8	835.9	828.4	819.1	819.1	807.3	793.6	778.7	765.1
5°	946.4	940.2	932.1	923.4	906.0	881.2	881.2	856.4	827.8	802.3	774.4
7.5°	1037.7	1032.1	1018.4	1001.7	973.1	947.0	945.2	909.1	875.0	836.5	796.7
10°	1117.8	1113.5	1101.7	1069.4	1039.6	1005.4	1004.8	964.4	924.7	877.5	828.4
12.5°	1173.7	1174.3	1158.8	1127.7	1089.2	1056.9	1054.5	1014.7	973.1	922.2	862.0
15°	1213.4	1213.4	1197.3	1162.5	1127.7	1099.2	1096.7	1061.9	1019.1	963.8	898.6
17.5°	1224.6	1228.3	1211.0	1179.9	1152.0	1127.1	1126.5	1097.3	1063.2	1009.8	935.9
20°	1220.3	1224.0	1210.3	1186.1	1166.9	1152.6	1150.7	1138.9	1107.2	1056.9	975.6
22.5°	1211.0	1214.7	1204.7	1190.5	1181.1	1185.5	1182.4	1192.3	1175.6	1114.7	1022.8
25°	1212.8	1216.5	1209.1	1201.0	1209.1	1235.8	1243.9	1286.7	1271.8	1188.0	1073.7
27.5°	1271.2	1278.6	1268.1	1271.8	1300.4	1362.5	1378.0	1451.9	1386.1	1281.1	1153.2
30°	1401.0	1396.0	1376.1	1394.2	1493.5	1625.2	1620.8	1609.0	1505.9	1388.6	1247.6
32.5°	1519.0	1514.6	1513.4	1591.0	1771.1	1835.1	1832.0	1717.7	1613.4	1511.5	1340.7
35°	1566.8	1550.0	1546.3	1734.5	2035.6	1951.2	1931.9	1762.4	1743.8	1645.7	1435.8
37.5°	1710.9	1699.1	1641.3	1758.1	1930.1	1902.1	1887.2	1839.4	1882.9	1764.3	1543.2
40°	2007.7	1974.8	1922.6	1808.4	1780.4	1792.2	1807.1	1938.1	2047.4	1926.4	1686.6
42.5°	2376.6	2369.1	2272.2	2059.2	1850.0	1866.1	1885.4	2144.3	2284.0	2170.4	1920.8
45°	2819.4	2829.9	2690.2	2438.7	2164.2	2177.9	2205.8	2448.6	2604.5	2549.8	2289.0
47.5°	3221.8	3213.7	3166.5	2905.1	2651.7	2621.3	2666.6	2839.2	3047.9	3056.6	2746.1
50°	3626.7	3669.5	3599.3	3496.9	3308.7	3244.7	3228.0	3312.4	3630.4	3588.8	3295.0
52.5°	4208.5	4230.9	4099.2	4073.2	4116.0	3908.6	3891.8	3912.3	4196.7	4053.9	3706.1
55°	4574.3	4561.3	4512.2	4715.9	4885.4	4626.5	4605.4	4522.8	4666.8	4382.4	4101.7
57.5°	4689.8	4708.4	4822.7	5191.0	5592.1	5372.3	5333.8	5099.1	5005.9	4688.6	4465.6
60°	4638.3	4672.4	4919.0	5466.7	6023.1	5990.2	5957.3	5562.9	5249.3	4944.4	4720.9
62.5°	4271.3	4319.1	4713.4	5417.6	6169.0	6374.6	6333.6	5852.3	5411.4	5068.6	4765.6
65°	3579.5	3614.9	4181.2	4972.4	5961.6	6506.2	6491.3	5943.0	5436.9	4955.0	4459.4
67.5°	2551.7	2672.2	3196.9	4190.5	5348.1	6281.4	6306.9	5834.3	5197.8	4463.8	3693.1
70°	1604.1	1686.0	2062.4	3000.1	4287.4	5510.8	5594.6	5336.9	4511.0	3479.5	2472.2
72.5°	765.1	825.9	1094.2	1899.0	3026.1	4335.8	4402.3	4381.2	3488.2	2192.1	1275.5
75°	340.9	363.9	522.3	969.4	1953.7	2914.4	3086.4	3114.9	2179.7	1072.5	496.2
77.5°	173.9	174.5	244.7	469.5	975.6	1738.8	1773.0	1872.9	1181.8	472.6	172.6
80°	92.5	98.7	129.8	221.7	506.1	856.4	852.0	936.5	524.1	231.6	57.8
82.5°	41.6	46.0	73.3	116.1	247.2	324.8	350.2	383.2	224.8	147.8	25.5
85°	12.4	14.9	36.0	58.4	89.4	93.8	104.9	135.4	127.3	104.9	13.0
87.5°	1.9	1.9	14.9	16.1	13.0	16.8	17.4	19.3	41.0	38.5	6.8
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: P451783

CATALOG NUMBER: GALN-SA2C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4	756.4
2.5°	757.6	753.3	737.8	724.7	713.5	706.7	698.6	693.7	691.2	689.3	689.9
5°	760.7	750.2	723.5	702.4	686.2	668.8	657.0	650.2	647.1	642.1	642.1
7.5°	778.1	761.3	724.1	691.8	663.9	640.3	617.9	609.8	604.2	603.0	601.8
10°	803.0	781.8	730.9	686.2	646.5	614.2	582.5	554.6	532.8	519.8	517.9
12.5°	834.0	803.6	741.5	682.5	631.6	574.4	490.6	434.1	396.2	384.4	386.3
15°	862.6	829.7	752.0	679.4	604.2	476.3	381.3	316.7	297.5	295.6	296.2
17.5°	896.7	857.6	764.5	675.0	529.1	363.9	283.2	265.8	269.5	275.7	275.1
20°	932.1	887.4	779.4	648.9	422.3	273.9	250.3	252.1	257.7	263.3	264.5
22.5°	970.0	921.6	796.7	586.2	322.3	238.5	237.2	239.7	245.3	251.5	252.7
25°	1022.2	964.4	809.8	504.3	244.1	220.5	222.9	227.3	232.3	239.1	240.3
27.5°	1089.2	1022.2	816.6	397.4	211.1	204.3	204.9	211.1	217.4	223.6	223.6
30°	1176.2	1091.1	803.0	300.6	195.0	188.8	186.3	190.0	198.1	204.3	204.9
32.5°	1253.8	1156.3	766.9	229.8	183.2	174.5	168.3	168.9	172.0	175.7	176.4
35°	1331.4	1219.6	705.5	193.1	170.8	160.8	151.5	146.6	144.1	142.2	144.1
37.5°	1430.8	1298.5	623.5	175.7	160.2	147.8	134.8	124.2	115.5	109.9	111.2
40°	1558.7	1407.8	526.6	164.6	150.3	135.4	118.0	104.3	89.4	84.5	82.0
42.5°	1769.9	1573.6	424.8	155.3	140.3	122.3	100.6	82.0	68.3	63.3	64.6
45°	2103.3	1782.9	327.3	145.3	130.4	108.1	84.5	64.6	53.4	50.9	52.2
47.5°	2545.5	2053.7	252.1	134.1	118.0	92.5	66.4	50.9	44.1	43.5	42.8
50°	2961.6	2305.8	210.5	121.7	103.1	77.0	54.6	42.8	38.5	37.9	37.9
52.5°	3337.9	2486.5	171.4	107.4	86.9	63.3	46.0	37.9	34.2	32.3	32.3
55°	3672.6	2604.5	139.1	90.0	68.3	50.3	39.7	34.2	29.8	27.3	26.7
57.5°	3925.4	2618.8	104.3	72.0	50.9	39.1	34.2	29.8	24.8	21.7	20.5
60°	4033.4	2495.2	77.0	54.6	37.9	31.1	27.3	24.2	18.6	15.5	14.9
62.5°	3924.7	2254.9	57.1	41.6	29.2	23.0	19.3	18.0	13.0	9.3	8.7
65°	3535.4	1907.7	45.3	31.7	21.7	16.8	12.4	11.8	8.1	4.3	3.7
67.5°	2832.4	1494.1	36.0	23.6	15.5	11.2	8.1	7.5	4.3	1.2	1.2
70°	1841.9	955.1	29.2	17.4	9.9	7.5	5.0	3.7	2.5	0.6	0.0
72.5°	911.0	446.5	23.6	13.7	6.8	3.7	1.9	1.2	1.9	0.0	0.0
75°	353.4	159.0	17.4	9.3	3.7	1.9	1.2	0.0	0.6	0.0	0.0
77.5°	117.4	52.8	10.6	5.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0
80°	43.5	20.5	5.6	3.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	8.1	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	5.0	2.5	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.7	2.5	1.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
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)