

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: P451547

Luminaire Tested: **GALN-SA2B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7119 lumens
Efficiency: N/A
Efficacy: 86.8 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): 82
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

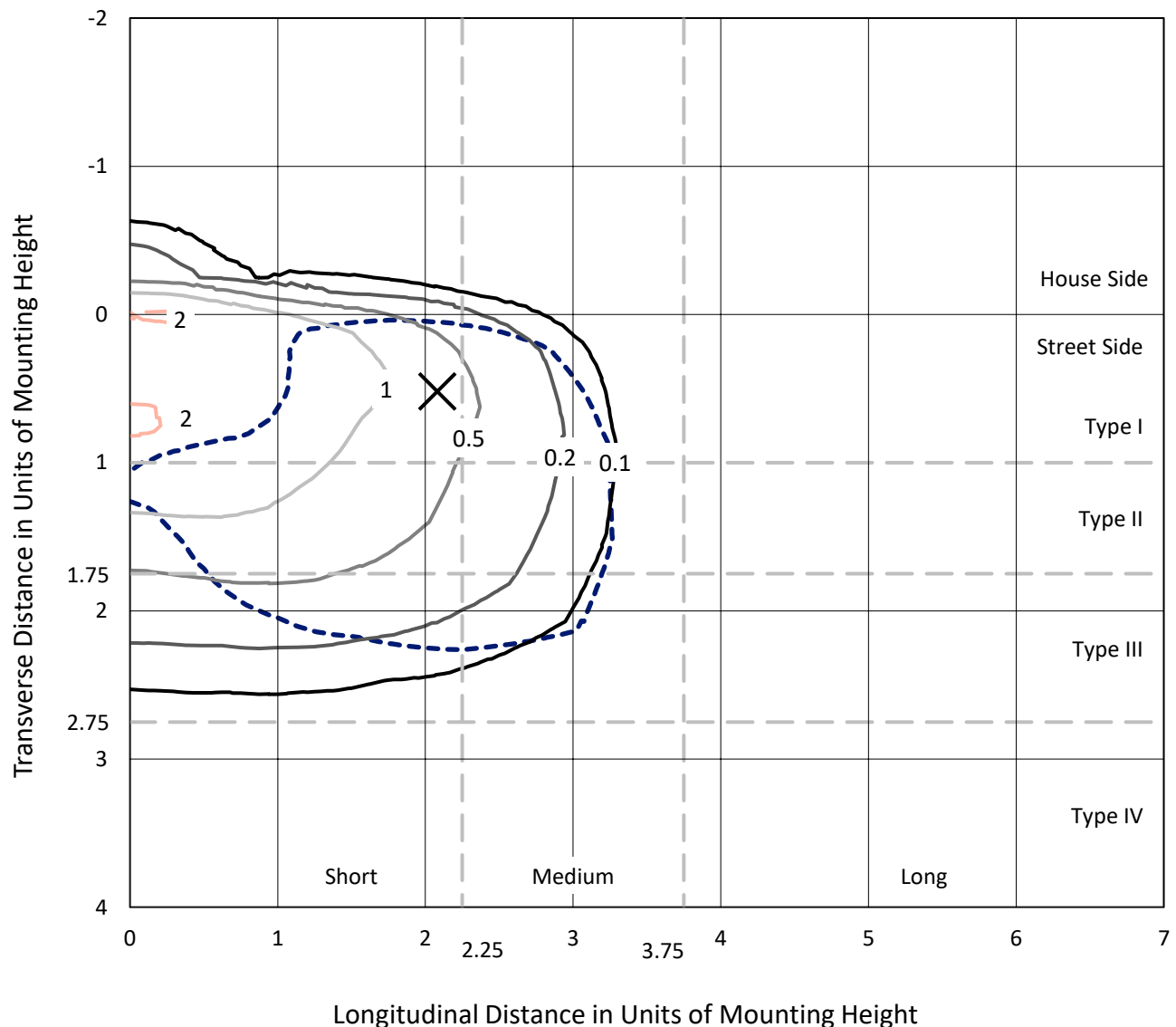


REPORT NUMBER: P451547

CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

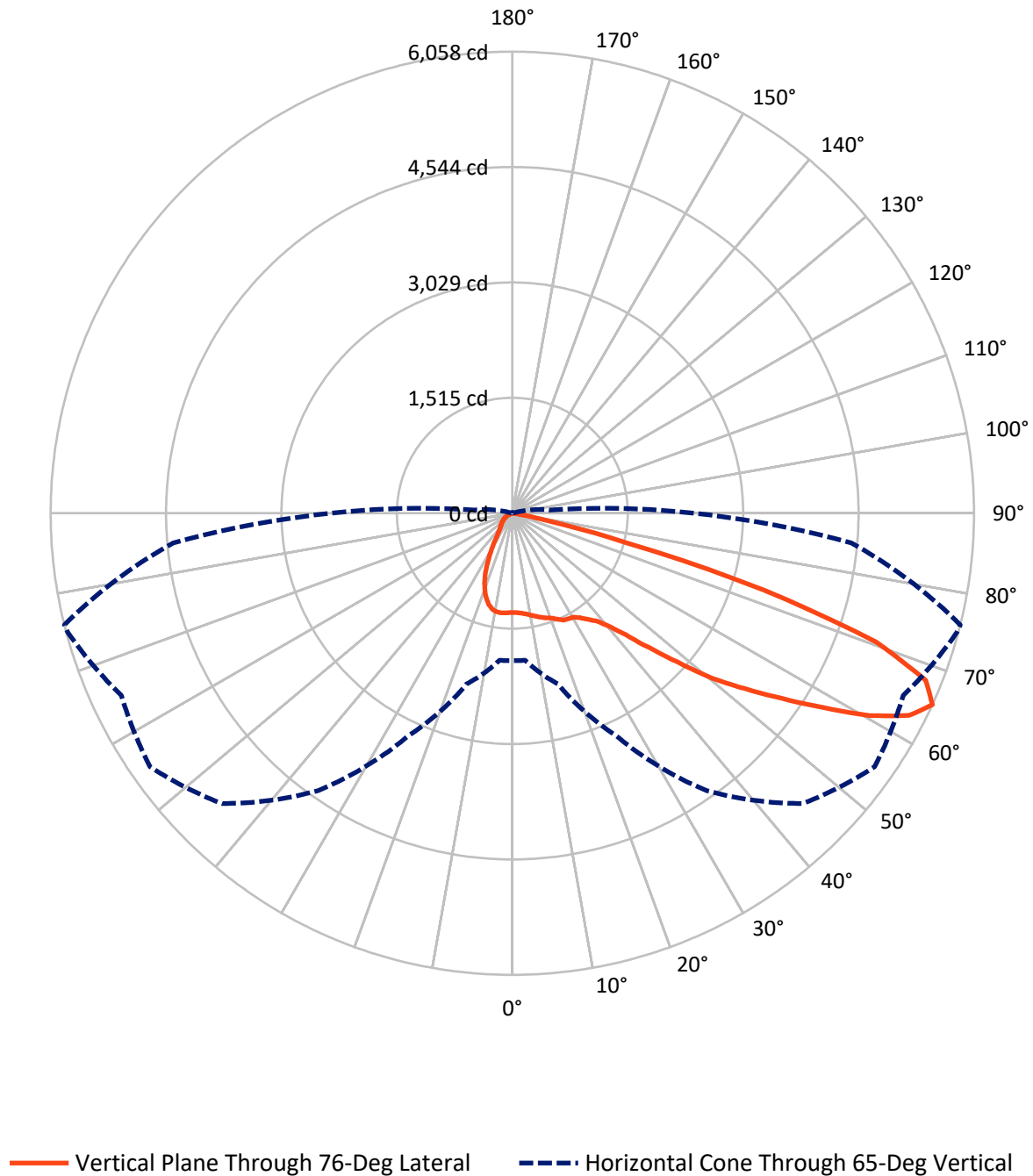
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

REPORT NUMBER: P451547
CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451547

CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

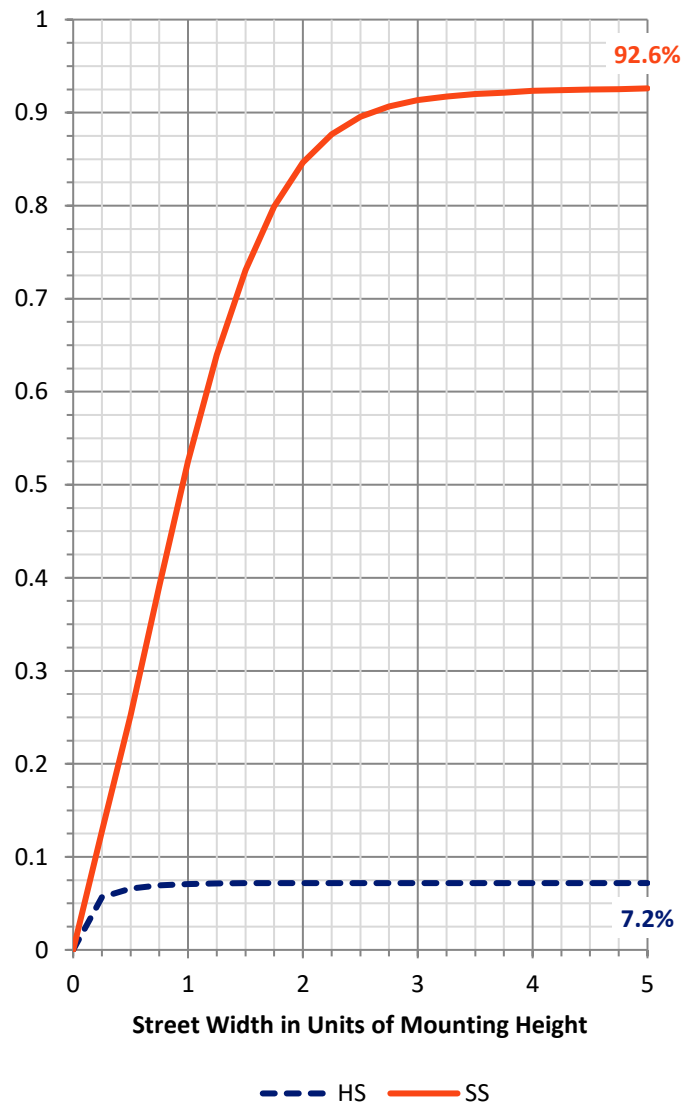
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.1	0.0	514.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6604.9	0.0	6604.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	7119.0	0.0	7119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.5
10°-20°	238.9	3.4
20°-30°	384.9	5.4
30°-40°	669.3	9.4
40°-50°	1105.9	15.5
50°-60°	1708.4	24.0
60°-70°	2086.2	29.3
70°-80°	791.8	11.1
80°-90°	26.4	0.4
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°	7119.0	100.0
0°-180°	7119.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451547

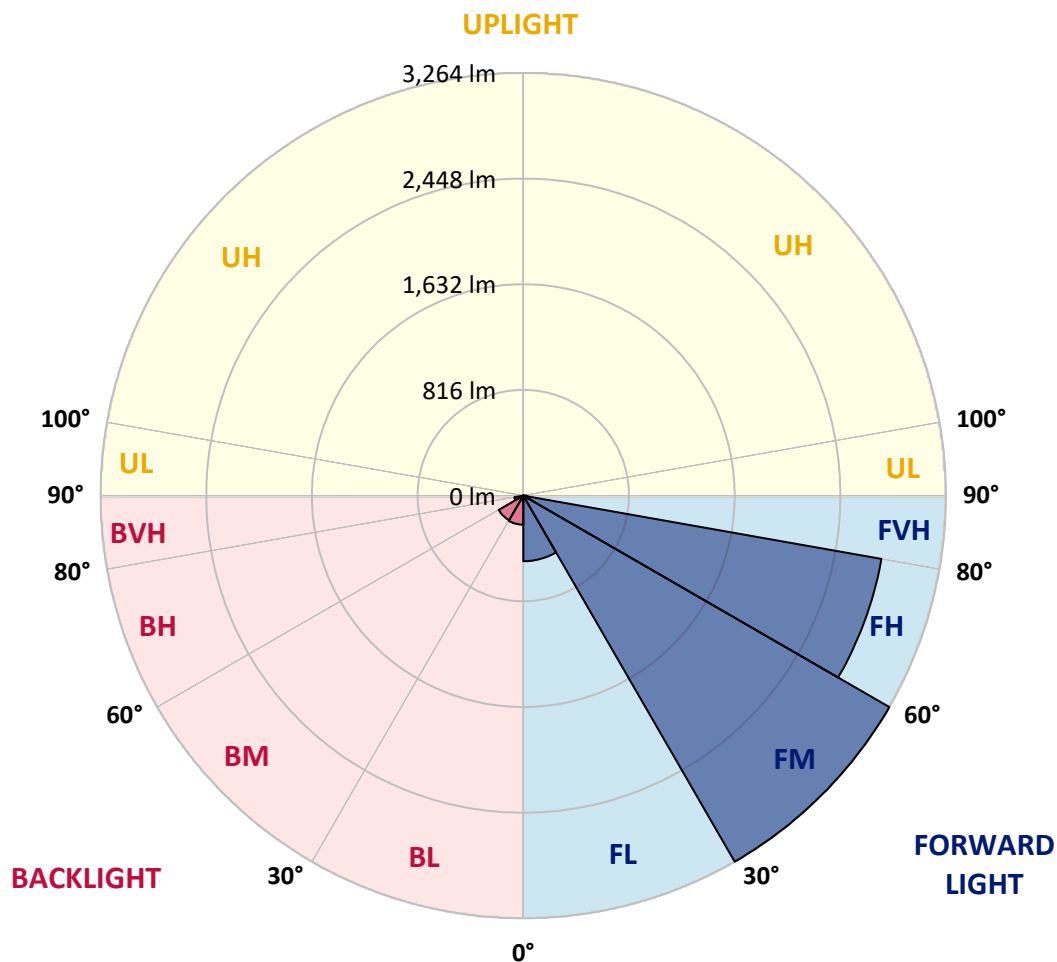
CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.4	7.1			
FM	(30°-60°)	3264.2	45.9			
FH	(60°-80°)	2808.2	39.4			G2/5000
FVH	(80°-90°)	26.1	0.4			G1/100
BL	(0°-30°)	224.6	3.2	B1/500		
BM	(30°-60°)	219.4	3.1	B0/220		
BH	(60°-80°)	69.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.4	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: P451547

CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1244.5	1245.0	1248.0	1255.5	1267.1	1276.7	1284.7	1297.8	1306.8	1307.8	1310.8
5°	1158.5	1152.5	1158.5	1178.1	1195.7	1222.4	1255.0	1287.7	1316.9	1318.9	1333.0
7.5°	1062.0	1067.1	1076.6	1096.7	1129.9	1170.6	1217.9	1276.2	1331.4	1336.5	1364.1
10°	964.0	975.1	990.7	1021.3	1067.6	1120.3	1184.7	1268.1	1354.6	1361.6	1409.4
12.5°	873.6	878.6	897.7	938.9	996.2	1070.6	1159.5	1263.6	1380.2	1388.7	1457.6
15°	804.2	810.7	827.3	864.5	928.3	1023.8	1138.9	1262.1	1405.3	1417.4	1505.9
17.5°	791.1	795.1	802.2	827.3	883.1	986.6	1120.3	1261.6	1429.5	1444.0	1550.6
20°	844.9	841.4	834.4	831.8	862.5	958.0	1106.8	1265.6	1452.6	1469.2	1597.8
22.5°	979.6	984.1	942.9	894.2	884.1	953.5	1104.8	1284.7	1489.3	1508.9	1650.6
25°	1265.6	1230.9	1166.6	1050.0	962.0	981.1	1127.4	1329.9	1532.0	1553.6	1698.4
27.5°	1581.7	1571.2	1471.2	1279.2	1115.3	1039.4	1167.6	1364.6	1546.1	1568.2	1725.5
30°	1892.4	1904.9	1790.3	1578.2	1338.0	1147.5	1205.3	1377.7	1558.6	1581.7	1760.2
32.5°	2180.4	2195.5	2094.9	1884.8	1600.3	1334.5	1270.1	1428.5	1611.4	1635.0	1818.0
35°	2407.1	2409.1	2333.2	2165.8	1886.8	1561.6	1410.4	1517.4	1682.8	1710.4	1879.3
37.5°	2615.1	2612.1	2523.2	2378.9	2125.6	1787.3	1586.8	1619.9	1764.2	1792.9	1967.8
40°	2769.4	2771.5	2742.8	2607.1	2348.2	1995.9	1726.5	1715.9	1900.9	1945.6	2096.4
42.5°	2872.5	2891.1	2905.2	2836.3	2628.2	2252.7	1941.1	1921.5	2138.2	2175.3	2278.4
45°	2955.9	2989.1	3059.5	3055.9	2897.1	2567.9	2235.7	2195.5	2474.4	2514.1	2510.1
47.5°	3016.7	3050.4	3167.0	3237.4	3149.9	2873.5	2606.1	2571.4	2876.0	2919.2	2765.9
50°	3047.9	3088.1	3236.9	3373.1	3347.5	3168.0	3028.3	3030.3	3361.0	3402.7	3062.5
52.5°	2975.0	3027.3	3274.1	3519.4	3569.1	3450.0	3423.9	3490.2	3792.8	3828.5	3330.4
55°	2742.3	2808.1	3223.3	3644.0	3826.0	3782.7	3873.2	3974.2	4264.7	4287.9	3605.3
57.5°	2595.0	2664.9	3073.5	3750.1	4134.6	4200.9	4344.2	4418.0	4751.8	4810.6	3921.0
60°	2470.9	2525.7	2950.4	3772.7	4448.2	4712.6	4851.8	4928.2	5352.9	5391.1	4268.3
62.5°	2264.3	2327.1	2742.3	3614.9	4606.0	5122.2	5410.7	5376.5	5817.8	5844.5	4481.4
65°	1932.1	1937.6	2320.1	3218.3	4443.2	5388.1	5803.3	5660.0	6040.0	6058.1	4464.8
67.5°	1442.0	1495.3	1784.8	2529.7	3753.1	5160.9	5930.4	5667.6	5899.8	5849.5	4110.4
70°	928.8	969.6	1209.8	1754.1	2706.1	4307.0	5508.7	5279.0	5178.0	5066.4	3364.5
72.5°	428.7	481.0	718.7	1002.2	1604.9	3068.0	4471.8	4288.9	3726.9	3451.5	2138.7
75°	187.0	200.0	354.9	528.8	752.4	1622.5	2948.4	2662.4	1683.3	1537.5	856.0
77.5°	114.1	122.6	186.0	283.5	295.5	618.2	1588.3	1161.6	520.2	458.9	232.2
80°	77.4	87.0	135.2	148.3	101.0	172.4	596.1	310.1	105.0	100.5	49.8
82.5°	37.7	47.7	100.0	82.9	43.7	55.3	173.4	66.3	30.7	28.6	17.6
85°	5.5	9.5	56.3	54.3	19.6	13.1	30.7	16.6	10.6	10.1	8.0
87.5°	0.0	0.0	19.1	8.5	2.0	2.0	3.5	3.5	4.0	3.5	4.0
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: P451547

CATALOG NUMBER: GALN-SA2B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1312.3	1314.9	1305.3	1291.7	1277.2	1262.6	1242.0	1223.4	1212.3	1218.9	1202.8
5°	1336.0	1334.0	1308.8	1267.6	1212.8	1147.0	1081.6	1025.9	1007.8	980.6	977.6
7.5°	1368.6	1363.1	1309.8	1215.3	1091.7	968.0	847.4	767.5	721.8	683.1	684.1
10°	1414.4	1398.3	1298.3	1123.4	919.8	733.3	579.5	474.0	428.2	413.7	402.1
12.5°	1461.6	1430.5	1266.1	999.2	716.2	501.1	352.3	288.0	259.9	250.8	249.8
15°	1503.8	1454.6	1209.8	849.9	520.7	320.2	240.3	219.1	215.6	216.1	215.6
17.5°	1545.6	1473.7	1131.9	691.6	353.8	229.7	206.6	201.6	203.1	205.1	204.6
20°	1580.2	1477.7	1032.4	527.8	250.3	201.6	194.0	193.0	194.5	196.0	196.0
22.5°	1617.9	1480.7	914.3	365.4	204.6	187.5	183.5	183.5	185.5	187.5	188.0
25°	1646.1	1464.1	773.0	262.4	180.4	173.9	171.9	172.4	174.4	175.4	174.9
27.5°	1650.6	1417.4	623.3	201.0	163.9	157.3	155.3	157.3	154.8	156.3	155.3
30°	1654.6	1358.1	471.5	169.4	148.8	138.7	135.7	132.7	130.7	128.2	127.7
32.5°	1667.2	1288.2	344.3	152.3	134.7	123.6	116.6	108.1	101.5	99.5	99.0
35°	1672.7	1204.3	252.8	138.7	122.1	110.1	97.5	85.4	75.9	72.4	74.9
37.5°	1693.8	1122.9	196.0	128.7	111.1	96.0	79.9	64.8	55.8	53.8	54.8
40°	1737.1	1034.4	164.4	120.1	101.5	82.9	63.3	48.8	42.7	40.7	40.2
42.5°	1806.4	946.4	146.3	112.1	92.0	69.9	49.8	38.2	33.2	31.7	31.7
45°	1890.9	862.0	133.7	103.5	81.9	56.3	39.2	30.7	27.6	26.6	26.6
47.5°	2001.9	788.1	123.1	95.0	70.9	44.7	31.7	26.6	24.6	25.1	25.6
50°	2114.5	733.3	111.6	85.4	58.3	36.7	27.1	23.6	23.1	23.6	23.6
52.5°	2199.5	701.2	96.0	72.4	45.7	30.7	24.1	22.1	21.6	20.6	20.6
55°	2314.1	694.1	76.4	58.8	36.2	25.6	21.6	20.1	18.6	17.6	17.1
57.5°	2461.3	702.2	58.8	45.7	28.1	21.1	19.1	16.6	14.6	12.6	12.6
60°	2552.8	684.1	45.7	35.2	20.6	17.1	14.6	12.1	9.5	8.0	7.5
62.5°	2523.7	607.7	36.2	26.1	14.6	12.6	9.5	8.0	5.5	4.0	3.5
65°	2373.4	490.6	29.2	18.1	10.6	7.5	5.0	5.0	2.5	0.5	0.0
67.5°	2077.3	363.4	23.1	12.1	6.0	3.5	2.5	1.5	0.0	0.0	0.0
70°	1690.8	262.4	18.1	7.5	3.5	2.5	1.0	0.5	0.0	0.0	0.0
72.5°	1073.6	150.3	14.1	4.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0
75°	415.2	58.8	9.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	117.6	27.6	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.7	12.1	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.6	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.5	0.0	0.0	0.0	0.0	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)