

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: P451549

Luminaire Tested: **GALN-SA2B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6548 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - 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



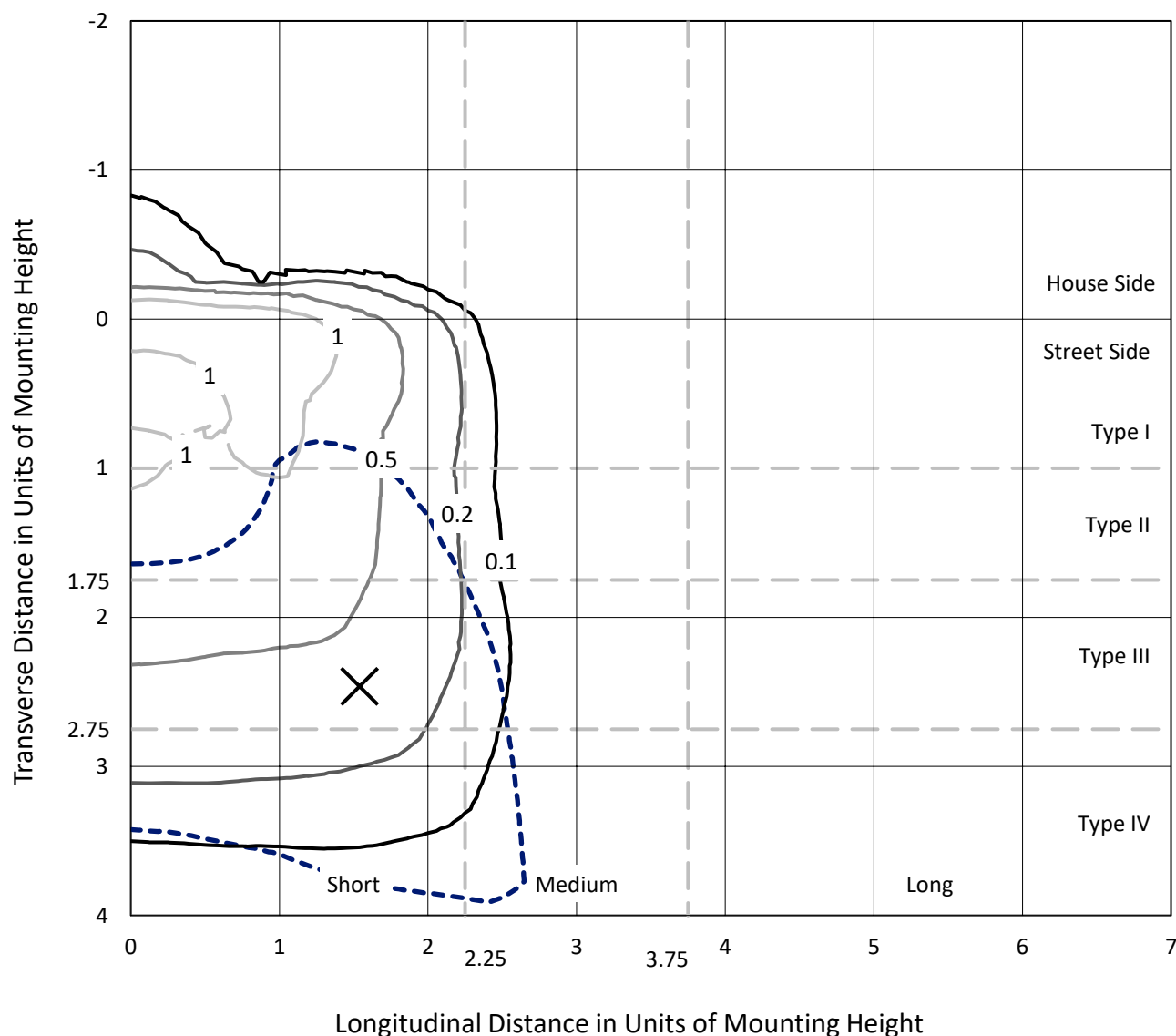
REPORT NUMBER: P451549

CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

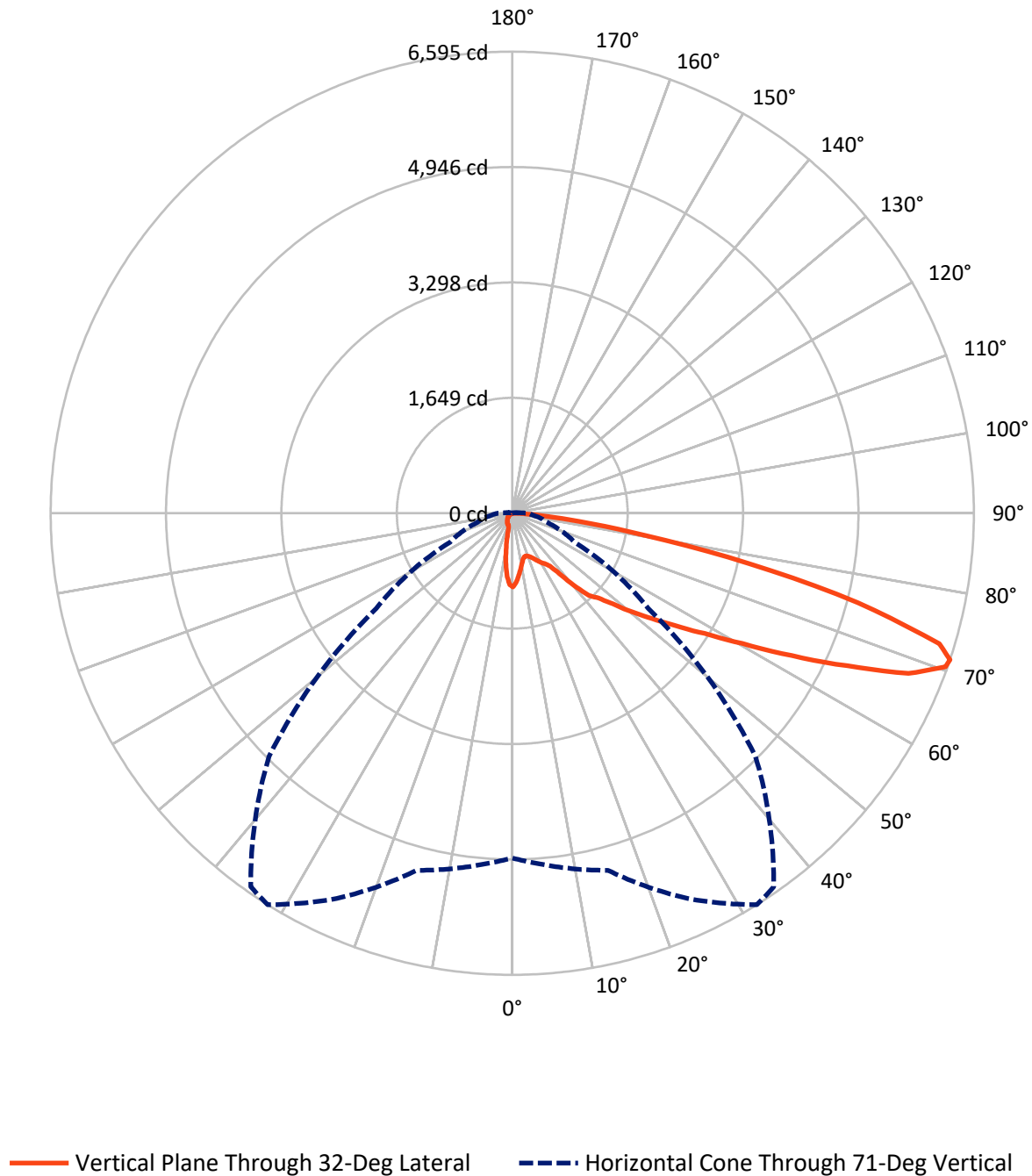
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P451549
CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451549

CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

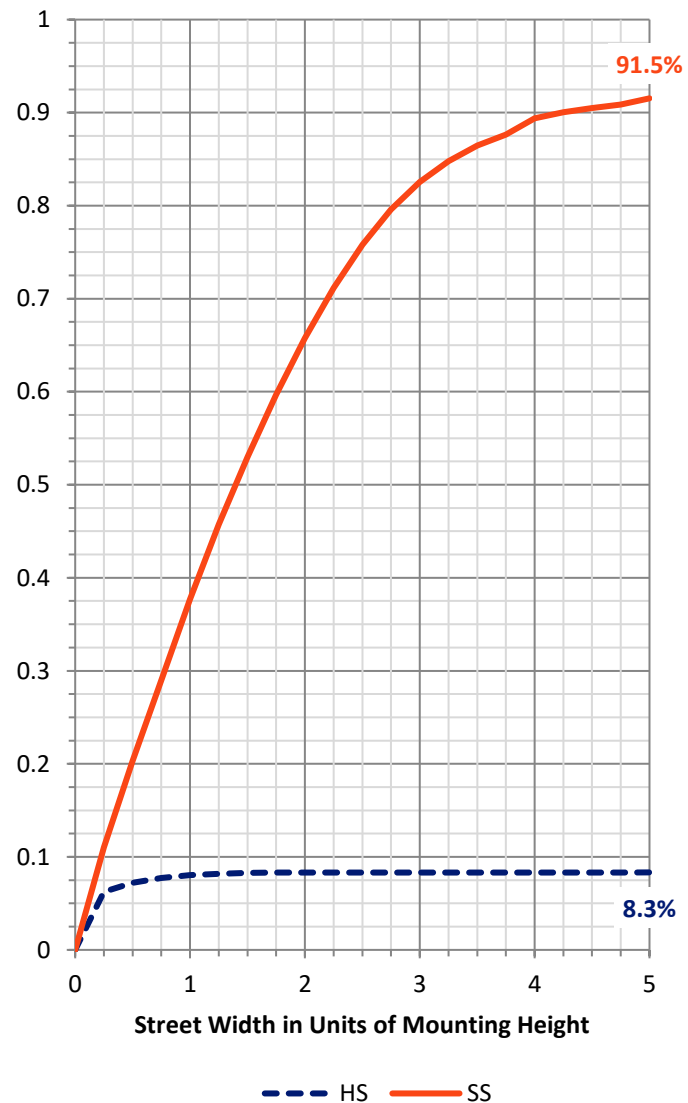
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.5	0.0	548.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5999.5	0.0	5999.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	6548.0	0.0	6548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.3
10°-20°	185.8	2.8
20°-30°	289.1	4.4
30°-40°	481.6	7.4
40°-50°	895.9	13.7
50°-60°	1438.4	22.0
60°-70°	1934.8	29.5
70°-80°	1147.9	17.5
80°-90°	88.7	1.4
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°	6548.0	100.0
0°-180°	6548.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451549

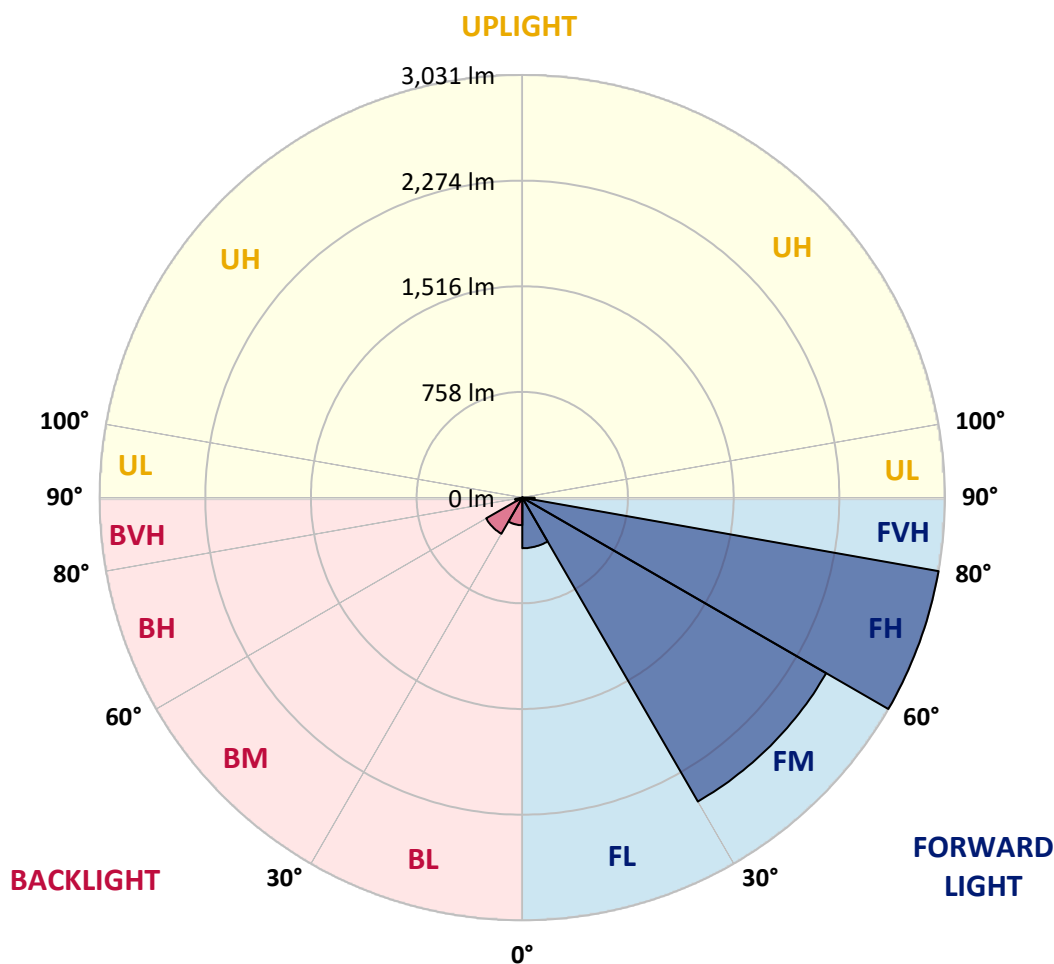
CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.9	5.5			
FM	(30°-60°)	2516.8	38.4			
FH	(60°-80°)	3031.4	46.3			G2/5000
FVH	(80°-90°)	88.4	1.3			G1/100
BL	(0°-30°)	197.6	3.0	B1/500		
BM	(30°-60°)	299.2	4.6	B1/1000		
BH	(60°-80°)	51.3	0.8	B0/110		G0/110
BVH	(80°-90°)	0.3	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 IV Short





REPORT NUMBER: P451549

CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	976.6	986.7	985.2	988.7	997.2	1000.7	1010.3	1020.9	1035.4	1045.5	1052.0
5°	874.6	882.1	883.1	900.7	909.3	918.8	947.0	977.6	1011.8	1038.9	1057.0
7.5°	765.5	769.5	777.6	800.7	822.3	831.9	874.6	927.9	981.6	1032.4	1065.1
10°	675.5	680.1	694.6	719.3	739.4	751.9	811.3	878.1	953.5	1028.9	1076.6
12.5°	624.3	626.8	632.3	654.4	680.1	693.6	757.5	833.9	930.9	1030.4	1096.2
15°	620.8	619.7	613.2	622.3	645.4	659.5	721.8	803.7	910.8	1035.4	1119.4
17.5°	639.4	636.8	621.3	621.3	640.4	651.9	706.7	787.6	900.7	1047.0	1152.0
20°	668.0	664.0	638.3	636.3	654.9	667.0	715.8	788.6	902.7	1068.6	1195.8
22.5°	704.2	699.7	661.0	662.0	682.1	694.1	741.9	806.7	915.3	1095.2	1242.5
25°	751.4	746.4	700.7	698.7	719.8	730.3	780.6	838.9	932.9	1128.4	1303.8
27.5°	814.3	803.7	748.9	745.9	768.5	782.1	827.3	882.1	964.1	1174.2	1386.3
30°	866.0	854.5	802.2	794.2	818.3	828.8	875.6	940.4	1025.4	1254.1	1500.4
32.5°	933.9	916.8	855.5	834.4	860.0	873.6	945.5	1049.0	1116.4	1338.5	1636.1
35°	1086.7	1076.1	1001.2	927.4	925.9	942.9	1048.5	1158.6	1209.8	1470.2	1821.0
37.5°	1305.3	1297.8	1218.4	1119.4	1090.7	1082.7	1173.7	1279.2	1359.1	1651.2	2036.2
40°	1559.2	1541.6	1468.7	1384.8	1347.6	1323.9	1321.4	1458.6	1554.1	1896.9	2260.4
42.5°	1741.1	1709.0	1620.5	1614.5	1606.4	1581.8	1510.4	1721.0	1806.0	2161.3	2500.1
45°	1932.1	1883.4	1751.7	1729.1	1726.0	1724.5	1795.9	2031.7	2080.4	2447.8	2746.4
47.5°	2080.4	2041.7	1933.6	1923.6	1936.2	1970.3	2173.4	2361.4	2351.3	2703.2	2953.0
50°	2277.9	2248.8	2128.7	2147.8	2212.6	2268.4	2599.1	2720.8	2574.0	2904.2	3103.3
52.5°	2511.2	2457.4	2345.8	2397.6	2497.1	2590.1	3051.0	3035.4	2730.3	3055.5	3215.4
55°	2713.2	2675.0	2636.8	2690.6	2839.4	2955.5	3459.1	3271.1	2843.9	3177.2	3264.6
57.5°	3055.0	3046.0	3006.8	3061.6	3242.0	3362.6	3824.6	3454.1	2916.8	3240.5	3206.8
60°	3560.7	3546.1	3473.2	3543.1	3778.3	3967.8	4161.3	3618.5	2933.4	3215.9	3040.4
62.5°	4168.9	4119.1	4056.8	4159.8	4482.5	4565.9	4478.5	3716.0	2871.6	3019.8	2639.3
65°	4736.8	4685.6	4687.1	4904.2	5255.6	5312.4	4848.4	3701.4	2690.6	2528.8	1946.7
67.5°	5171.6	5163.1	5224.4	5648.1	6107.5	6068.3	5179.2	3483.3	2154.3	1639.1	1034.4
70°	5193.7	5210.3	5386.2	6101.5	6567.9	6505.6	5151.0	2831.3	1343.0	754.0	407.6
71°	4926.3	5037.9	5281.2	6087.4	6595.1	6514.2	4913.8	2371.4	985.2	525.8	294.0
72.5°	4198.0	4256.8	4782.6	5729.0	6380.5	6207.5	4312.1	1662.2	630.8	321.7	168.9
75°	2312.1	2456.9	3202.8	4494.6	5103.3	4951.5	2810.2	789.6	314.6	175.9	69.9
77.5°	1100.8	1072.6	1562.7	2673.0	3460.1	3452.1	1415.9	350.8	183.5	119.1	35.2
80°	314.6	353.9	598.1	1270.7	1921.1	1942.2	543.9	169.4	127.2	93.0	18.1
82.5°	95.0	97.0	219.7	561.9	955.5	900.7	204.1	86.5	91.5	73.9	10.6
85°	16.6	20.6	64.8	198.0	364.4	276.4	51.3	41.2	60.3	48.8	6.0
87.5°	1.0	1.5	21.6	22.6	32.2	18.6	9.0	6.0	13.1	13.1	3.5
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: P451549

CATALOG NUMBER: GALN-SA2B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1056.5	1059.6	1057.5	1053.0	1045.5	1036.4	1024.4	1014.3	1005.8	1001.2	1006.8
5°	1063.1	1067.1	1057.0	1034.4	1000.2	963.0	920.8	888.2	862.5	854.5	851.5
7.5°	1073.1	1075.6	1048.5	998.2	925.9	837.9	761.0	696.1	645.9	630.8	608.7
10°	1086.2	1084.7	1033.4	939.9	812.8	680.6	561.4	473.0	406.1	382.0	380.0
12.5°	1106.3	1098.3	1014.3	860.5	678.1	505.1	357.9	280.0	237.7	223.7	220.7
15°	1131.4	1112.3	984.2	767.5	519.2	326.2	220.7	197.0	191.5	190.5	189.5
17.5°	1161.1	1130.9	944.5	653.4	364.9	211.6	184.5	184.0	184.5	183.5	183.0
20°	1201.3	1150.5	897.2	518.2	241.3	178.4	175.9	175.9	176.4	175.9	175.9
22.5°	1244.0	1173.7	838.9	395.6	182.0	169.4	168.9	169.9	170.9	170.4	170.4
25°	1296.8	1203.8	762.0	270.9	162.9	161.8	162.4	164.4	166.4	166.9	166.4
27.5°	1373.2	1241.0	679.6	186.5	149.3	150.3	155.3	160.3	163.4	163.9	163.9
30°	1459.1	1282.2	572.0	151.3	138.2	138.2	144.3	153.8	160.3	161.3	161.8
32.5°	1569.7	1330.0	452.9	136.2	127.7	126.7	132.2	143.8	155.8	159.3	159.3
35°	1706.4	1386.3	336.8	126.7	120.1	117.6	120.6	130.2	145.8	155.8	156.8
37.5°	1866.8	1439.5	246.3	118.1	113.1	109.6	111.6	119.1	131.7	146.8	150.8
40°	2015.1	1486.8	184.0	111.1	106.1	103.5	105.1	108.6	119.1	133.2	135.7
42.5°	2176.9	1523.5	146.3	103.5	99.0	98.0	98.0	99.5	106.6	114.6	115.1
45°	2338.3	1536.6	122.6	94.5	91.5	92.5	92.0	91.0	94.0	93.0	93.0
47.5°	2453.4	1521.0	101.5	86.0	86.0	87.5	84.9	81.4	79.9	73.9	74.4
50°	2532.3	1464.2	83.4	75.9	79.9	81.9	76.9	71.4	65.8	59.3	57.8
52.5°	2564.9	1363.1	68.4	62.8	70.9	73.4	67.4	60.8	52.3	46.7	45.2
55°	2543.8	1238.5	56.8	51.3	59.8	62.8	56.8	49.3	39.7	33.7	32.7
57.5°	2450.8	1089.7	48.3	40.7	47.8	49.8	45.7	37.7	28.1	22.1	22.1
60°	2290.0	935.9	39.2	32.2	35.7	38.7	34.7	27.1	19.1	13.6	12.6
62.5°	1963.8	760.0	31.7	25.1	25.1	27.6	24.1	19.6	12.1	7.0	6.5
65°	1417.9	521.2	25.1	18.6	18.1	18.1	15.1	13.1	7.0	3.0	2.0
67.5°	770.5	294.0	20.1	14.1	12.6	12.1	9.6	7.5	3.0	0.5	0.0
70°	303.1	113.1	15.6	9.6	8.0	7.5	5.0	3.5	2.0	0.0	0.0
71°	205.6	77.9	13.6	8.0	6.5	5.5	4.0	3.0	1.5	0.0	0.0
72.5°	117.6	48.3	10.6	6.0	5.0	4.0	3.0	2.0	1.5	0.0	0.0
75°	51.3	24.6	6.5	4.5	3.5	2.5	2.0	1.5	0.5	0.0	0.0
77.5°	26.1	13.6	4.5	3.5	2.0	1.5	1.0	0.5	0.0	0.0	0.0
80°	14.6	7.0	3.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0
82.5°	8.0	4.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5	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)