

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: P452237

Luminaire Tested: **GALN-SA3A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8110 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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



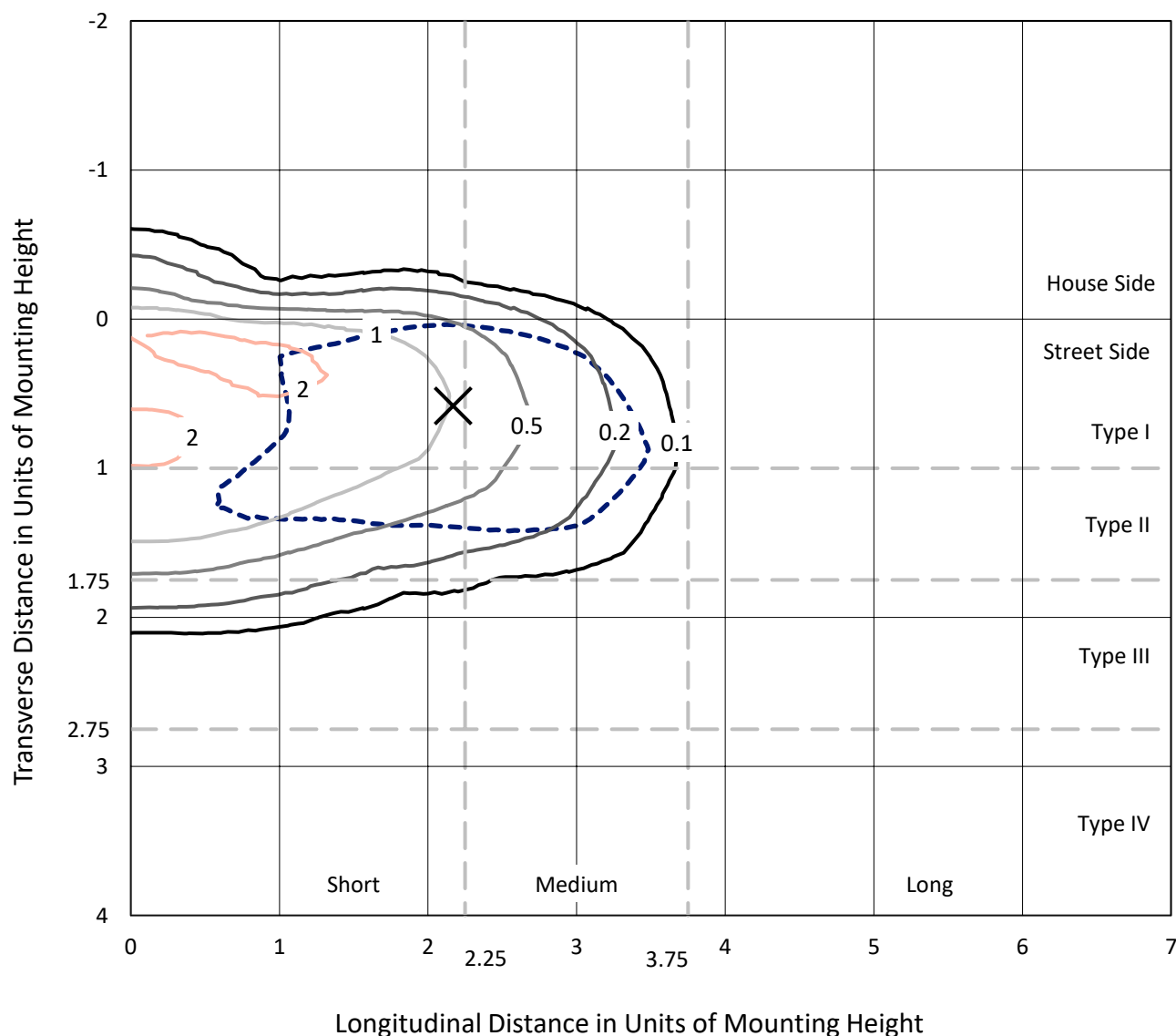
REPORT NUMBER: P452237

CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

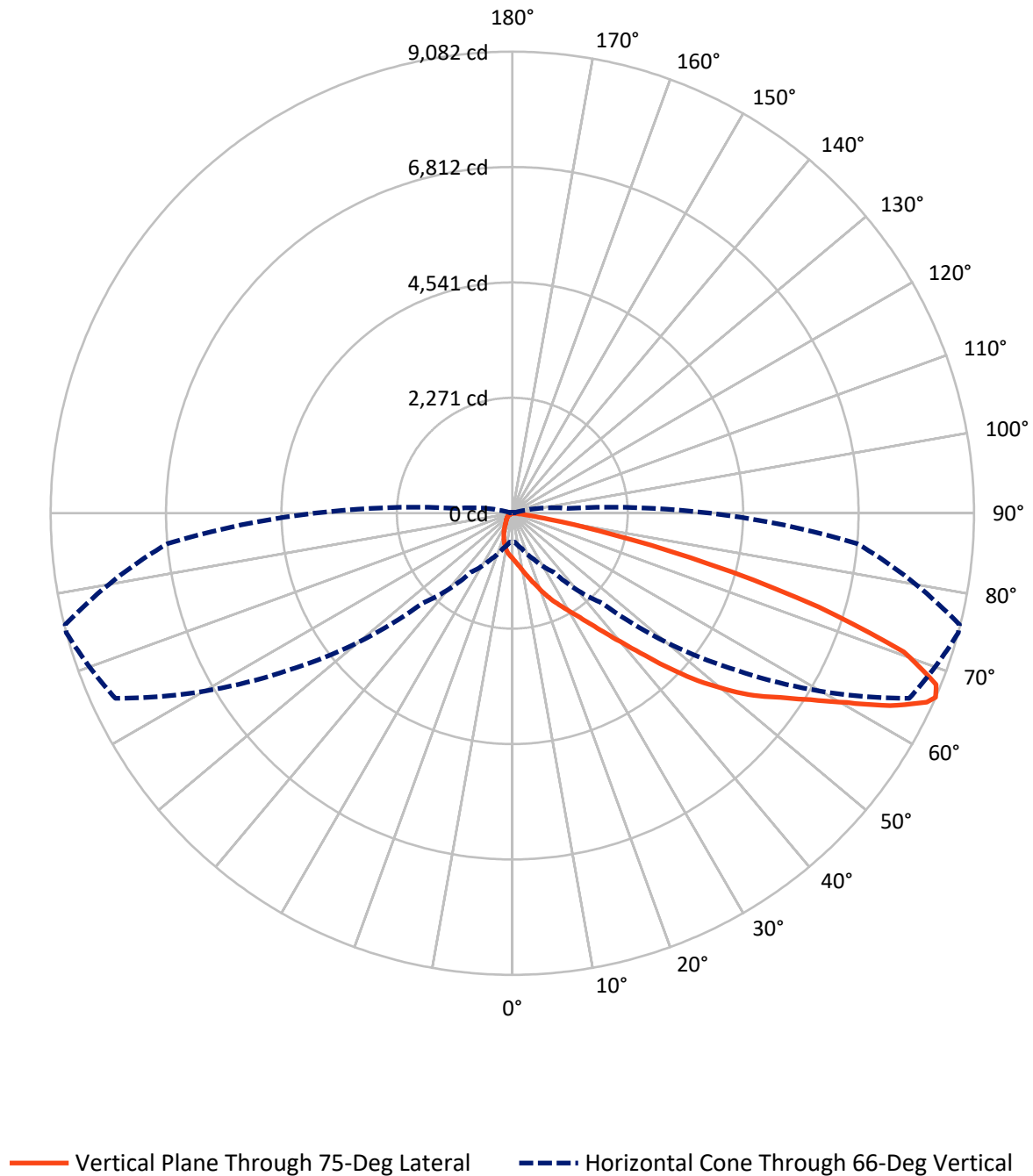


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P452237

CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452237

CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

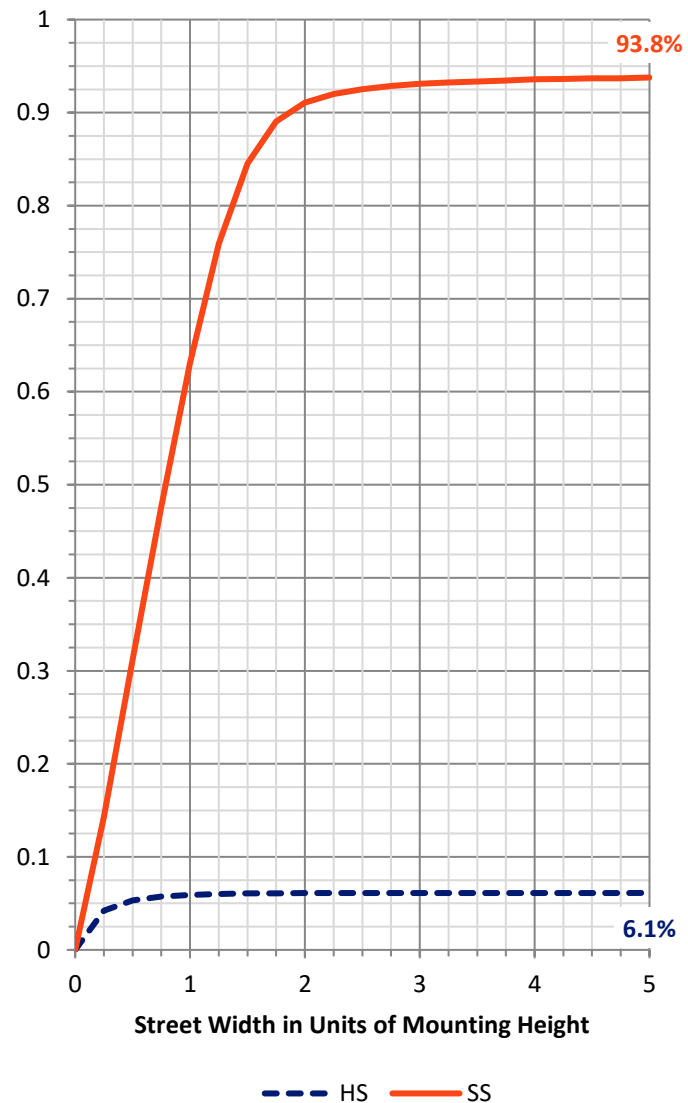
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.7	0.0	500.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7609.3	0.0	7609.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	8110.0	0.0	8110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.1
10°-20°	251.8	3.1
20°-30°	434.7	5.4
30°-40°	784.2	9.7
40°-50°	1416.6	17.5
50°-60°	2208.5	27.2
60°-70°	2098.0	25.9
70°-80°	786.3	9.7
80°-90°	44.4	0.5
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°	8110.0	100.0
0°-180°	8110.0	100.0



REPORT NUMBER: P452237

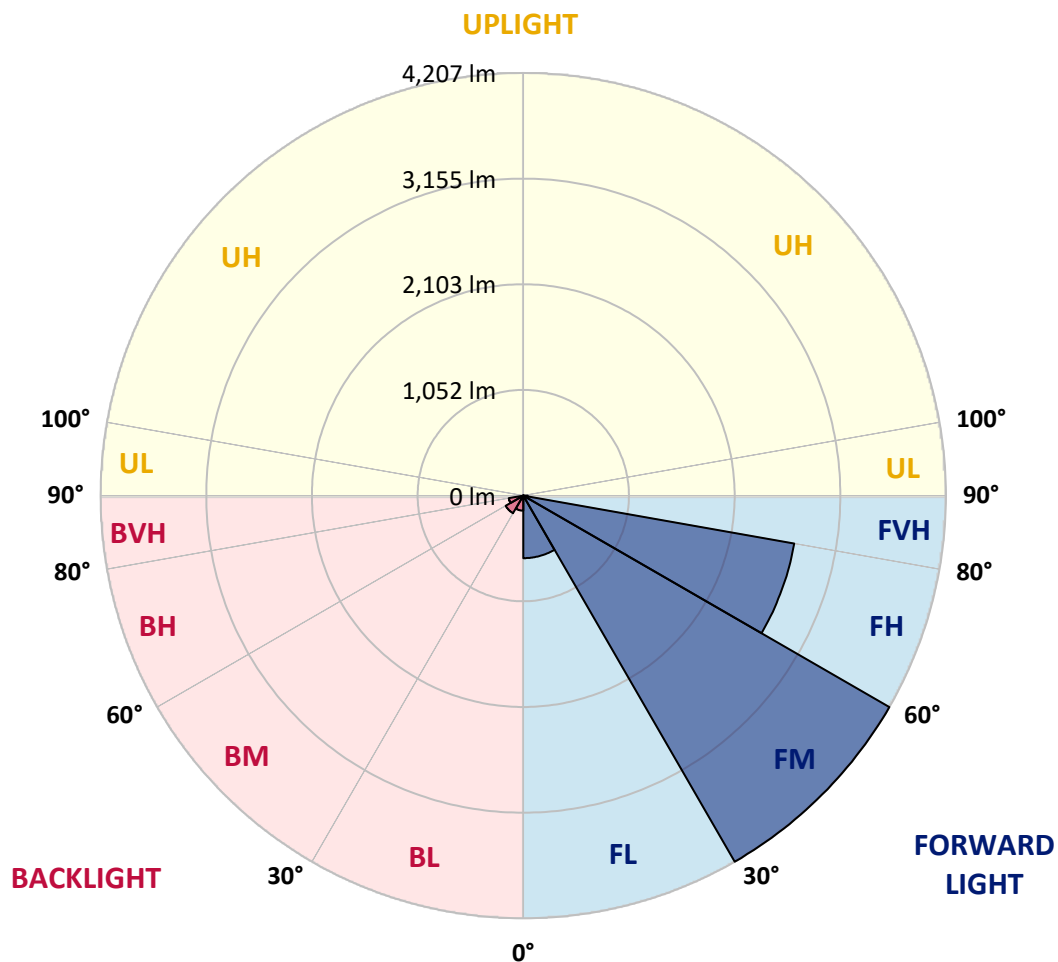
CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.5	7.7			
FM	(30°-60°)	4206.7	51.9			
FH	(60°-80°)	2738.1	33.8			G2/5000
FVH	(80°-90°)	42.1	0.5			G1/100
BL	(0°-30°)	149.5	1.8	B1/500		
BM	(30°-60°)	202.7	2.5	B0/220		
BH	(60°-80°)	146.2	1.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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 II Short



REPORT NUMBER: P452237

CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9
2.5°	1059.6	1046.4	1050.6	1044.6	1030.8	1010.4	992.5	966.7	940.9	936.7	907.9
5°	1199.3	1195.7	1190.9	1173.5	1164.0	1132.8	1095.6	1051.2	997.8	988.3	936.1
7.5°	1294.7	1292.9	1295.3	1286.3	1277.9	1249.7	1210.1	1149.6	1066.8	1061.4	974.5
10°	1325.9	1330.7	1339.7	1354.0	1367.2	1358.2	1328.3	1252.7	1156.2	1140.6	1018.2
12.5°	1307.9	1313.3	1334.9	1373.2	1415.8	1440.4	1428.4	1373.2	1250.9	1238.3	1067.4
15°	1261.7	1268.3	1298.9	1358.2	1434.4	1504.0	1534.0	1494.4	1361.2	1340.9	1126.8
17.5°	1193.3	1202.9	1246.7	1325.3	1429.6	1549.5	1634.1	1620.9	1478.8	1459.6	1191.5
20°	1141.8	1149.0	1186.1	1276.1	1409.2	1574.7	1729.4	1766.6	1623.9	1590.9	1267.7
22.5°	1175.9	1178.3	1190.9	1244.9	1372.6	1581.3	1813.4	1918.3	1778.0	1748.6	1346.9
25°	1343.3	1319.3	1306.7	1294.7	1364.8	1575.3	1889.6	2076.6	1931.5	1900.3	1425.4
27.5°	1607.1	1596.3	1532.8	1447.6	1431.4	1583.1	1939.9	2226.6	2076.0	2042.5	1502.2
30°	1894.4	1875.8	1836.8	1712.1	1586.7	1638.3	1976.5	2372.3	2247.0	2202.6	1572.3
32.5°	2158.2	2170.2	2112.0	1983.7	1838.6	1755.8	2023.9	2531.2	2443.0	2387.9	1653.9
35°	2465.8	2489.8	2400.5	2277.5	2107.8	1968.1	2116.2	2710.5	2691.9	2622.3	1779.8
37.5°	2778.3	2792.7	2738.1	2565.4	2412.5	2238.0	2290.1	2931.8	2998.3	2939.0	1930.3
40°	3040.9	3060.7	3020.5	2867.0	2703.9	2550.4	2542.6	3172.8	3362.9	3301.8	2154.6
42.5°	3241.8	3256.8	3258.0	3149.5	3002.5	2933.0	2864.6	3480.5	3819.9	3749.1	2414.9
45°	3495.5	3517.1	3504.5	3430.7	3321.0	3308.4	3273.0	3852.3	4366.8	4277.4	2752.5
47.5°	3887.6	3902.0	3870.9	3783.9	3672.4	3692.2	3671.2	4269.0	4924.5	4847.7	3102.1
50°	4159.9	4183.9	4228.3	4263.0	4182.1	4108.9	4046.6	4658.2	5454.0	5385.0	3459.5
52.5°	4156.9	4196.5	4336.8	4511.9	4688.8	4666.6	4487.3	5088.2	5959.5	5874.3	3795.3
55°	3876.9	3953.6	4159.9	4470.5	4960.5	5204.5	5123.0	5585.9	6396.1	6338.5	4184.5
57.5°	3298.8	3345.5	3632.2	4066.3	4808.7	5457.6	5859.4	6260.5	6919.6	6892.6	4788.9
60°	2218.8	2239.8	2608.6	3145.3	4093.9	5205.1	6399.1	7076.7	7564.2	7551.0	5494.8
62.5°	1271.3	1280.3	1547.7	2000.5	2913.2	4411.2	6444.6	8083.5	8337.2	8344.4	6311.5
65°	684.2	689.0	904.9	1174.1	1772.6	3144.1	5795.2	8635.2	8962.0	8975.8	6817.6
66°	590.7	567.9	720.2	1000.8	1410.4	2502.4	5384.4	8615.4	9082.0	9067.0	6799.6
67.5°	449.2	469.5	575.1	769.4	1045.2	1779.2	4445.3	8232.2	8990.8	8944.0	6523.2
70°	321.4	329.8	409.6	548.7	711.8	976.3	2840.6	6837.4	8171.7	8108.7	5683.1
72.5°	207.5	216.5	290.2	397.0	514.5	533.1	1590.3	4940.1	6300.1	6291.1	4279.8
75°	148.1	156.5	191.9	284.2	386.8	329.8	765.8	3329.4	4005.2	3978.2	2647.5
77.5°	107.3	111.5	128.3	185.9	276.4	236.3	355.0	1778.0	1993.9	2088.0	1170.0
80°	61.8	65.4	89.4	113.3	187.1	161.3	169.7	713.6	735.8	700.4	365.8
82.5°	30.6	34.8	53.4	77.4	116.9	108.5	78.0	214.7	226.7	220.7	92.3
85°	7.2	9.0	30.0	51.0	57.0	48.6	37.8	63.0	78.0	76.2	35.4
87.5°	0.6	1.2	10.8	9.0	9.6	16.2	13.2	16.2	25.2	23.4	12.6
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: P452237

CATALOG NUMBER: GALN-SA3A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9
2.5°	894.7	883.3	850.3	817.9	791.0	762.8	737.0	722.0	716.0	709.4	712.4
5°	907.3	879.7	813.1	755.6	699.2	651.2	612.9	588.3	576.3	574.5	571.5
7.5°	924.1	876.7	773.6	683.6	609.9	556.5	512.7	477.3	466.5	456.9	449.2
10°	944.5	871.3	724.4	608.1	529.5	462.3	404.8	362.8	341.2	335.2	339.4
12.5°	966.1	861.1	672.8	538.5	448.0	362.2	308.8	287.8	281.8	279.4	280.0
15°	987.7	848.5	618.9	471.3	356.8	289.0	264.5	259.1	256.7	255.5	254.3
17.5°	1007.4	828.1	558.3	406.0	289.0	247.1	238.1	233.3	228.5	226.7	223.7
20°	1030.8	804.8	503.7	332.8	244.7	223.7	212.9	203.9	196.7	191.9	191.3
22.5°	1053.0	774.8	446.8	275.8	223.1	200.9	183.5	173.9	165.5	159.5	161.3
25°	1065.0	738.2	395.8	240.5	203.3	178.1	158.9	146.9	137.9	134.9	134.3
27.5°	1065.0	693.2	346.0	220.1	185.3	157.7	137.9	126.5	120.5	116.3	116.9
30°	1056.6	643.4	299.8	204.5	169.7	139.7	121.1	110.9	106.1	103.1	102.5
32.5°	1050.0	596.1	260.3	189.5	153.5	124.1	107.9	100.1	95.3	92.3	92.3
35°	1060.2	555.3	229.7	174.5	138.5	112.1	97.7	90.5	85.8	83.4	82.8
37.5°	1087.2	518.1	206.3	158.3	124.7	101.9	90.5	82.2	77.4	74.4	73.2
40°	1153.8	497.1	188.9	143.3	111.5	93.5	82.2	74.4	68.4	65.4	64.8
42.5°	1260.5	497.7	172.1	129.5	101.3	86.4	75.0	66.0	59.4	56.4	55.8
45°	1421.2	520.5	158.9	116.3	92.3	78.6	67.2	57.6	51.6	48.6	48.6
47.5°	1613.7	564.9	147.5	104.9	84.0	71.4	59.4	49.8	43.8	41.4	41.4
50°	1822.4	622.5	136.1	92.9	76.8	63.6	51.0	43.2	38.4	36.6	36.6
52.5°	2035.3	692.0	124.7	83.4	69.0	55.2	43.8	38.4	34.2	33.0	32.4
55°	2314.7	780.8	112.7	73.2	60.6	47.4	39.0	33.6	28.8	27.0	26.4
57.5°	2744.7	914.5	99.5	64.2	49.8	39.6	33.6	28.2	22.8	19.8	19.2
60°	3263.4	1077.6	85.8	56.4	40.2	32.4	27.0	21.6	16.8	13.2	12.6
62.5°	3749.1	1181.3	72.6	47.4	31.8	24.6	19.2	16.2	12.0	8.4	7.8
65°	3963.8	1146.6	60.0	38.4	25.2	17.4	12.6	11.4	7.2	3.6	3.0
66°	3892.4	1095.0	55.2	34.8	22.8	15.0	10.8	9.6	5.4	1.8	1.8
67.5°	3682.0	973.3	48.0	30.0	19.8	12.0	8.4	7.2	3.0	0.6	0.0
70°	3154.9	787.4	37.8	22.2	14.4	8.4	4.8	3.6	1.8	0.0	0.0
72.5°	2423.3	586.5	30.0	16.8	10.2	4.8	2.4	1.2	1.8	0.0	0.0
75°	1484.8	335.2	23.4	12.6	6.6	3.0	1.8	0.0	1.8	0.6	0.0
77.5°	659.0	150.5	15.6	8.4	4.8	2.4	1.2	0.0	1.2	0.6	0.0
80°	166.7	49.2	9.0	6.0	3.6	1.8	0.6	0.0	1.2	1.2	0.6
82.5°	45.6	18.0	6.6	4.8	3.0	1.8	0.6	0.0	1.2	1.2	1.2
85°	18.0	8.4	6.0	4.8	3.6	1.8	0.6	0.0	1.2	1.2	1.2
87.5°	8.4	6.0	6.0	5.4	4.2	1.8	0.6	0.0	1.2	0.6	1.2
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)