

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: P450607

Luminaire Tested: **GALN-SA1B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4478 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

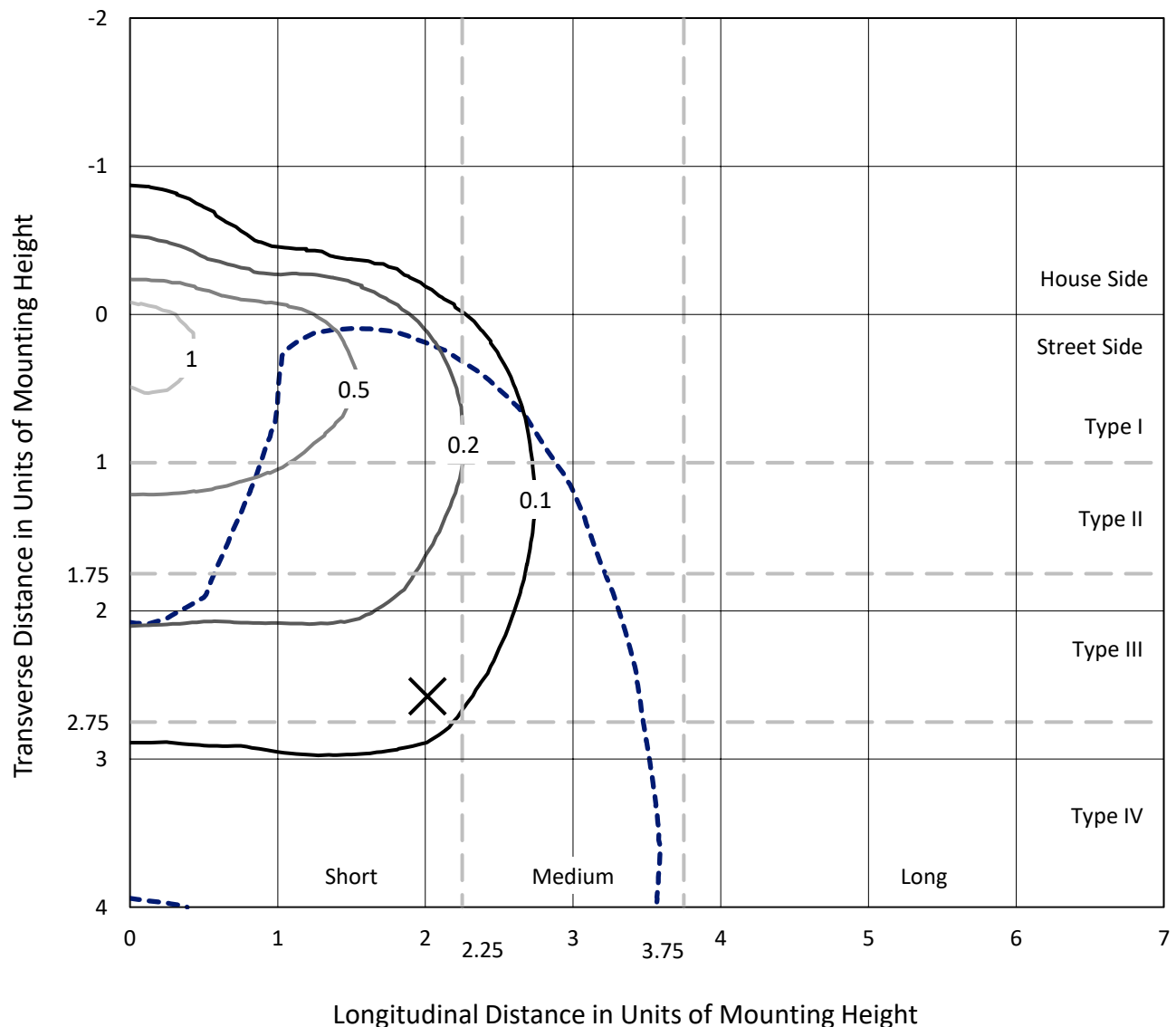


REPORT NUMBER: P450607

CATALOG NUMBER: GALN-SA1B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

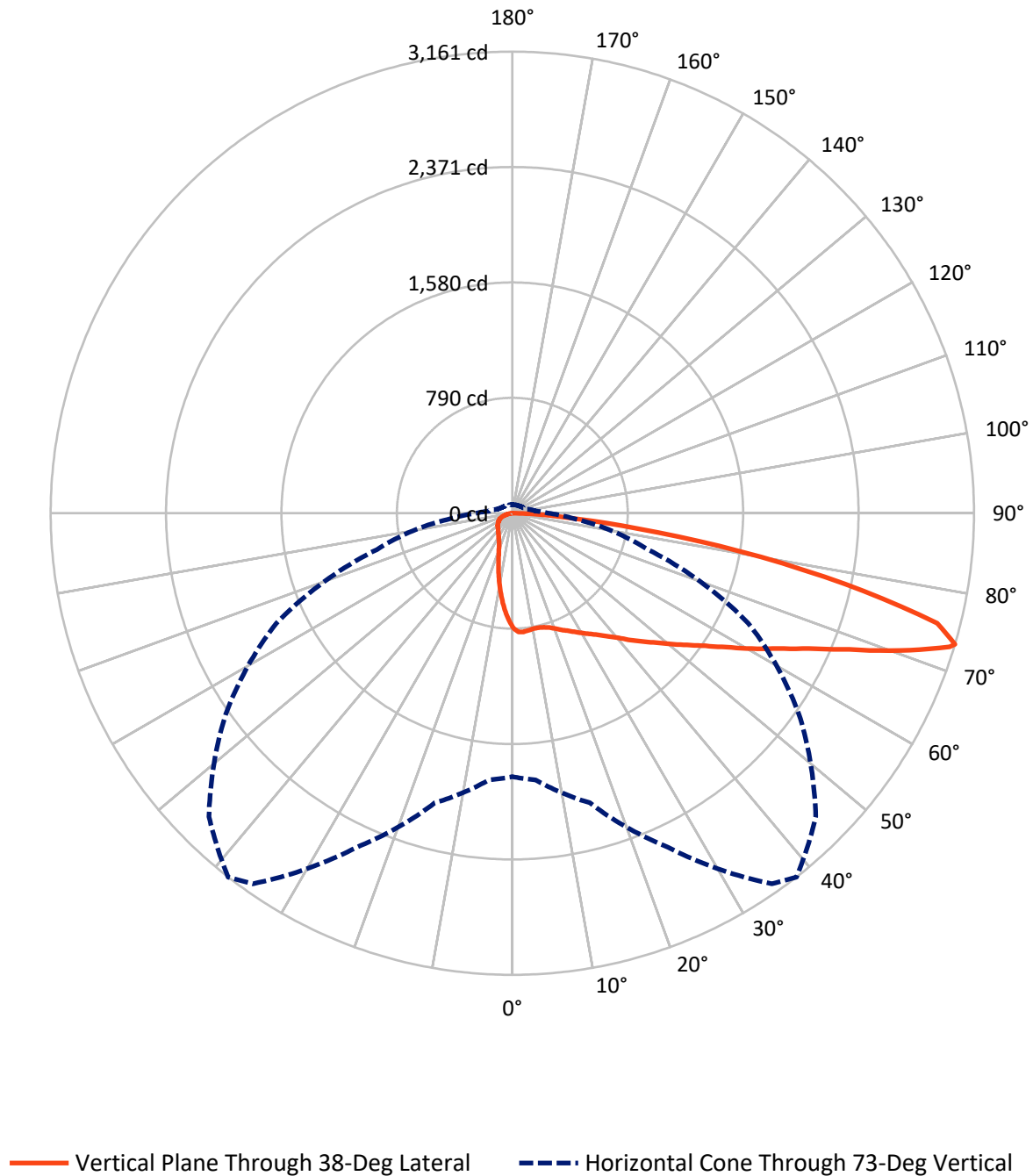


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P450607

CATALOG NUMBER: GALN-SA1B-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P450607

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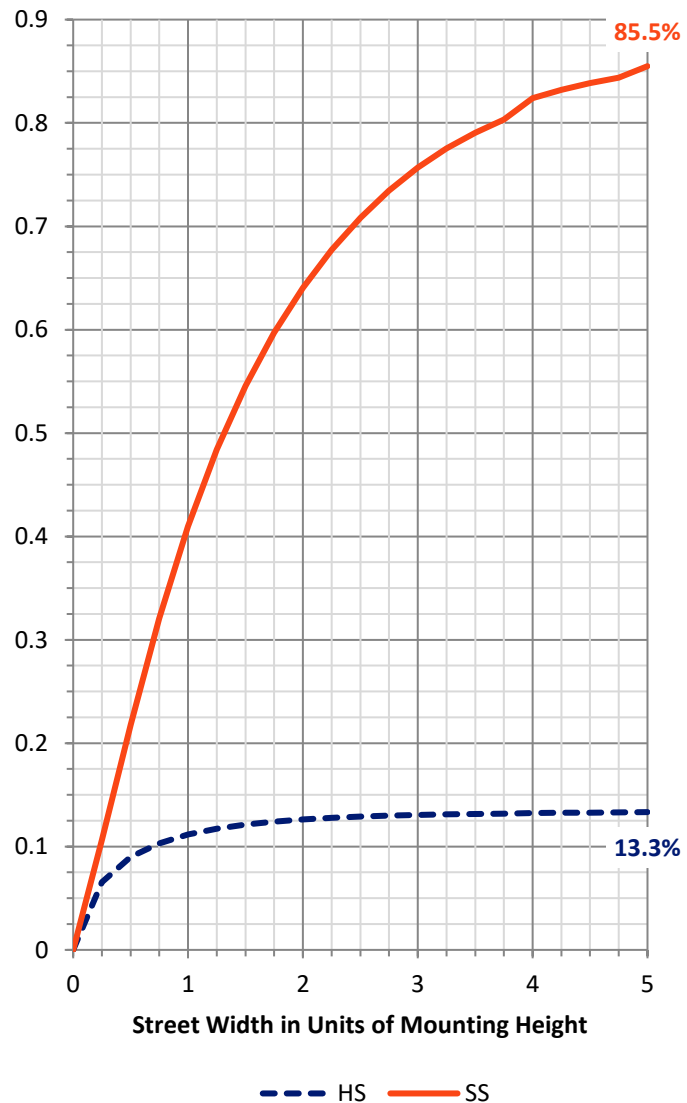
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.0	0.0	602.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3876.0	0.0	3876.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	4478.0	0.0	4478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.5
10°-20°	176.1	3.9
20°-30°	274.2	6.1
30°-40°	402.2	9.0
40°-50°	596.6	13.3
50°-60°	845.3	18.9
60°-70°	1072.3	23.9
70°-80°	892.6	19.9
80°-90°	150.0	3.3
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°	4478.0	100.0
0°-180°	4478.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450607

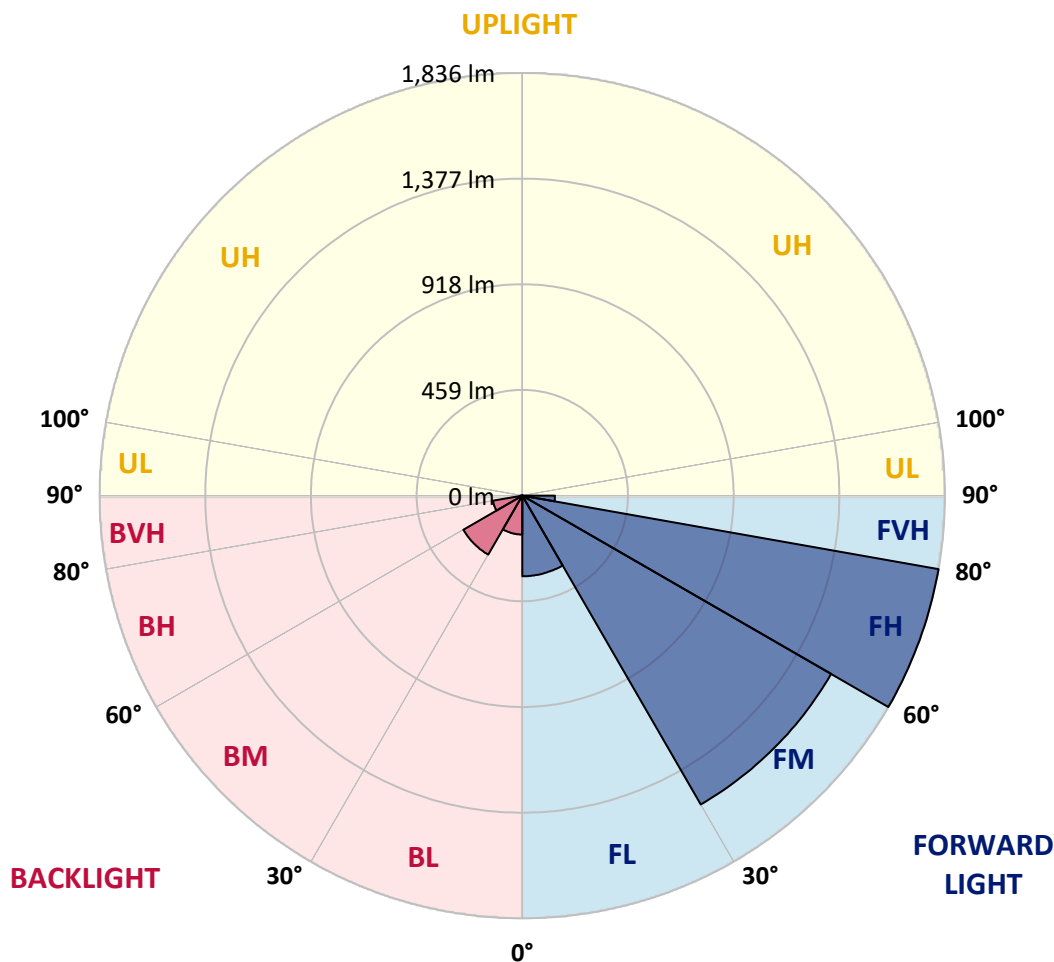
CATALOG NUMBER: GALN-SA1B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.1	7.8			
FM	(30°-60°)	1548.6	34.6			
FH	(60°-80°)	1835.5	41.0			G2/5000
FVH	(80°-90°)	141.8	3.2			G2/225
BL	(0°-30°)	168.9	3.8	B1/500		
BM	(30°-60°)	295.5	6.6	B1/1000		
BH	(60°-80°)	129.4	2.9	B1/500		G1/500
BVH	(80°-90°)	8.1	0.2			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: P450607

CATALOG NUMBER: GALN-SA1B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7
2.5°	818.3	822.4	820.3	817.6	815.8	814.0	811.5	804.2	798.3	792.0	782.2
5°	824.4	826.9	825.1	821.6	817.6	815.8	811.0	801.4	792.0	781.4	766.7
7.5°	820.8	821.9	819.8	815.5	812.0	808.7	803.1	792.5	781.1	768.2	749.0
10°	808.2	812.0	812.0	808.5	804.9	803.1	797.6	787.5	777.1	762.4	739.7
12.5°	797.8	801.9	805.2	804.2	803.9	803.9	799.6	792.0	779.9	766.0	738.9
15°	790.8	795.6	802.6	806.7	809.2	810.0	808.2	801.6	789.2	773.1	741.9
17.5°	789.2	795.1	808.0	816.8	823.4	823.1	822.6	813.5	799.9	783.2	745.7
20°	796.1	803.7	821.6	835.5	845.1	843.4	840.6	828.7	812.8	794.0	749.3
22.5°	816.5	824.4	844.1	859.3	868.6	868.6	860.3	844.6	827.7	806.7	754.1
25°	845.9	854.5	875.5	890.9	895.2	891.9	883.6	864.6	845.1	824.9	764.2
27.5°	881.8	892.2	911.6	924.5	923.3	920.7	912.1	887.9	868.4	849.9	781.4
30°	926.6	934.1	954.4	957.4	952.9	952.3	940.2	915.9	897.7	883.6	805.9
32.5°	968.8	975.6	991.8	993.1	985.0	986.0	974.6	952.3	942.0	936.9	847.1
35°	1013.5	1017.1	1031.0	1029.5	1024.2	1023.4	1018.9	997.6	1000.9	1010.0	905.6
37.5°	1051.0	1058.0	1065.9	1067.2	1066.9	1069.4	1072.5	1062.3	1081.3	1109.9	982.2
40°	1085.4	1091.4	1103.1	1107.1	1117.0	1122.0	1132.4	1132.6	1176.4	1223.4	1076.5
42.5°	1108.6	1119.0	1140.7	1148.1	1172.1	1187.3	1202.7	1219.1	1282.6	1343.0	1187.8
45°	1128.9	1142.5	1178.7	1201.4	1234.1	1252.5	1285.1	1319.5	1410.8	1490.0	1300.8
47.5°	1159.5	1171.6	1213.1	1253.3	1302.6	1323.8	1372.6	1424.0	1543.3	1630.1	1409.0
50°	1201.9	1209.3	1251.5	1317.0	1380.0	1407.3	1471.8	1545.9	1684.9	1768.4	1504.1
52.5°	1256.3	1259.3	1293.0	1380.2	1463.2	1497.0	1582.5	1669.0	1808.8	1888.5	1579.5
55°	1320.5	1315.5	1341.8	1447.2	1558.2	1602.5	1694.3	1793.7	1948.2	1985.6	1634.4
57.5°	1384.0	1376.2	1397.2	1528.7	1675.6	1728.9	1835.9	1922.1	2072.6	2076.4	1672.8
60°	1451.3	1445.5	1470.5	1624.2	1819.5	1882.7	1981.6	2055.4	2193.0	2139.6	1678.9
62.5°	1520.3	1511.0	1546.6	1731.7	1981.6	2039.0	2134.8	2197.0	2311.1	2163.1	1620.5
65°	1587.3	1583.0	1638.2	1859.4	2166.2	2231.4	2324.5	2366.7	2405.6	2127.7	1475.6
67.5°	1658.6	1667.2	1755.2	2029.9	2406.9	2488.8	2589.2	2549.5	2432.7	1960.1	1242.7
70°	1767.4	1772.9	1909.0	2253.2	2717.2	2816.1	2864.6	2614.5	2302.2	1641.7	934.1
72.5°	1814.2	1838.7	2046.3	2487.6	3069.7	3130.1	2957.2	2469.6	1917.8	1115.2	490.8
73°	1803.8	1833.1	2052.6	2523.2	3097.3	3160.7	2937.5	2395.0	1782.8	960.4	420.8
75°	1674.6	1710.7	1970.4	2493.4	3043.7	3005.7	2620.3	2041.2	1204.7	436.7	191.7
77.5°	1321.3	1331.7	1561.3	2013.4	2396.8	2326.5	1961.1	1275.8	492.1	162.3	108.7
80°	662.8	701.0	880.0	1153.4	1602.8	1579.7	1237.8	603.4	205.1	95.3	72.1
82.5°	318.9	345.9	428.6	562.4	885.6	864.6	613.0	329.8	130.2	55.6	42.5
85°	205.3	225.6	272.9	268.3	364.1	347.7	275.4	249.6	77.1	29.1	29.6
87.5°	135.5	148.4	178.0	142.4	132.5	119.9	121.6	140.6	15.2	11.1	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: P450607

CATALOG NUMBER: GALN-SA1B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7
2.5°	778.1	774.8	763.9	753.3	743.2	733.6	727.3	718.9	713.4	714.9	717.2
5°	758.6	751.3	732.1	713.4	695.7	674.7	657.7	644.1	633.7	629.9	629.2
7.5°	738.2	725.8	698.2	666.1	636.0	609.9	579.9	564.9	547.5	541.4	539.4
10°	725.8	709.1	670.4	625.6	580.4	537.1	504.5	477.9	453.9	449.4	447.1
12.5°	722.2	700.2	648.1	590.5	530.3	477.2	428.9	394.0	370.7	365.4	357.6
15°	720.2	692.9	627.4	555.1	478.7	414.0	363.1	322.4	301.2	287.0	287.3
17.5°	718.4	684.5	604.1	516.4	434.2	359.6	303.5	266.8	247.3	239.7	239.0
20°	715.9	674.7	577.3	475.7	383.4	310.0	259.2	231.9	218.7	212.4	212.2
22.5°	714.9	665.1	551.0	434.2	338.4	271.8	229.9	210.6	202.3	198.0	198.0
25°	717.4	658.2	523.5	394.7	298.4	239.2	209.6	196.5	191.7	189.4	188.6
27.5°	725.3	655.2	496.1	355.3	261.7	217.0	196.0	186.9	183.3	181.6	181.8
30°	740.2	655.0	469.3	316.4	234.4	200.0	185.1	178.8	176.0	175.0	174.7
32.5°	764.2	660.5	443.0	284.2	211.4	185.9	175.0	170.4	169.2	168.4	168.2
35°	804.9	676.2	417.0	254.9	193.7	173.2	165.4	163.1	161.3	162.1	162.3
37.5°	859.8	703.3	392.2	231.9	180.3	163.9	157.3	155.3	154.3	155.0	155.8
40°	933.4	742.2	371.5	213.4	170.7	156.0	150.2	148.4	147.4	148.7	148.9
42.5°	1014.6	787.2	354.3	199.0	162.9	149.5	143.9	141.9	141.1	141.9	142.1
45°	1098.0	839.6	345.4	188.6	156.3	144.6	138.8	136.6	134.8	134.3	135.0
47.5°	1180.2	885.1	345.2	182.3	151.0	140.3	134.0	131.5	129.2	128.0	127.7
50°	1247.2	921.2	351.2	179.5	146.4	135.5	129.2	126.7	123.7	121.1	121.6
52.5°	1297.8	944.8	354.0	178.3	143.9	130.5	124.2	121.9	118.3	115.1	115.1
55°	1330.4	950.3	347.2	177.0	141.9	125.2	118.3	116.3	112.8	109.5	109.5
57.5°	1341.5	933.1	322.7	174.0	139.8	120.6	112.5	110.8	108.0	104.7	104.2
60°	1315.7	875.0	279.7	164.9	135.8	115.8	106.2	105.5	104.4	101.7	101.4
62.5°	1216.4	751.6	232.9	153.0	129.0	110.8	100.4	101.7	102.4	100.9	100.6
65°	1051.0	610.2	199.0	136.6	119.9	103.7	94.1	97.4	99.4	99.4	98.9
67.5°	852.5	468.6	167.7	122.4	108.5	94.1	87.0	89.5	91.0	90.5	91.8
70°	605.9	317.4	136.6	106.2	94.1	83.2	77.9	77.9	76.9	76.4	76.4
72.5°	293.8	181.3	110.8	88.8	80.2	71.1	66.8	65.0	63.0	62.7	61.4
73°	245.5	162.6	105.7	85.5	76.9	69.3	64.5	61.7	60.4	59.4	59.2
75°	149.5	123.4	88.3	72.1	65.5	59.7	55.4	52.9	51.6	50.8	50.6
77.5°	98.4	92.0	68.5	55.1	50.1	46.5	44.8	42.2	41.5	40.5	40.5
80°	73.3	70.3	49.1	38.9	35.9	32.9	32.4	31.9	29.8	28.6	28.1
82.5°	47.3	50.1	33.4	26.0	22.8	20.2	20.5	21.2	19.2	17.4	16.9
85°	33.6	36.2	20.2	11.9	9.6	8.3	9.4	8.3	8.6	6.8	5.6
87.5°	5.6	9.6	3.5	1.5	0.8	0.5	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)