

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: P450367

Luminaire Tested: **GALN-SA1A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3013 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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

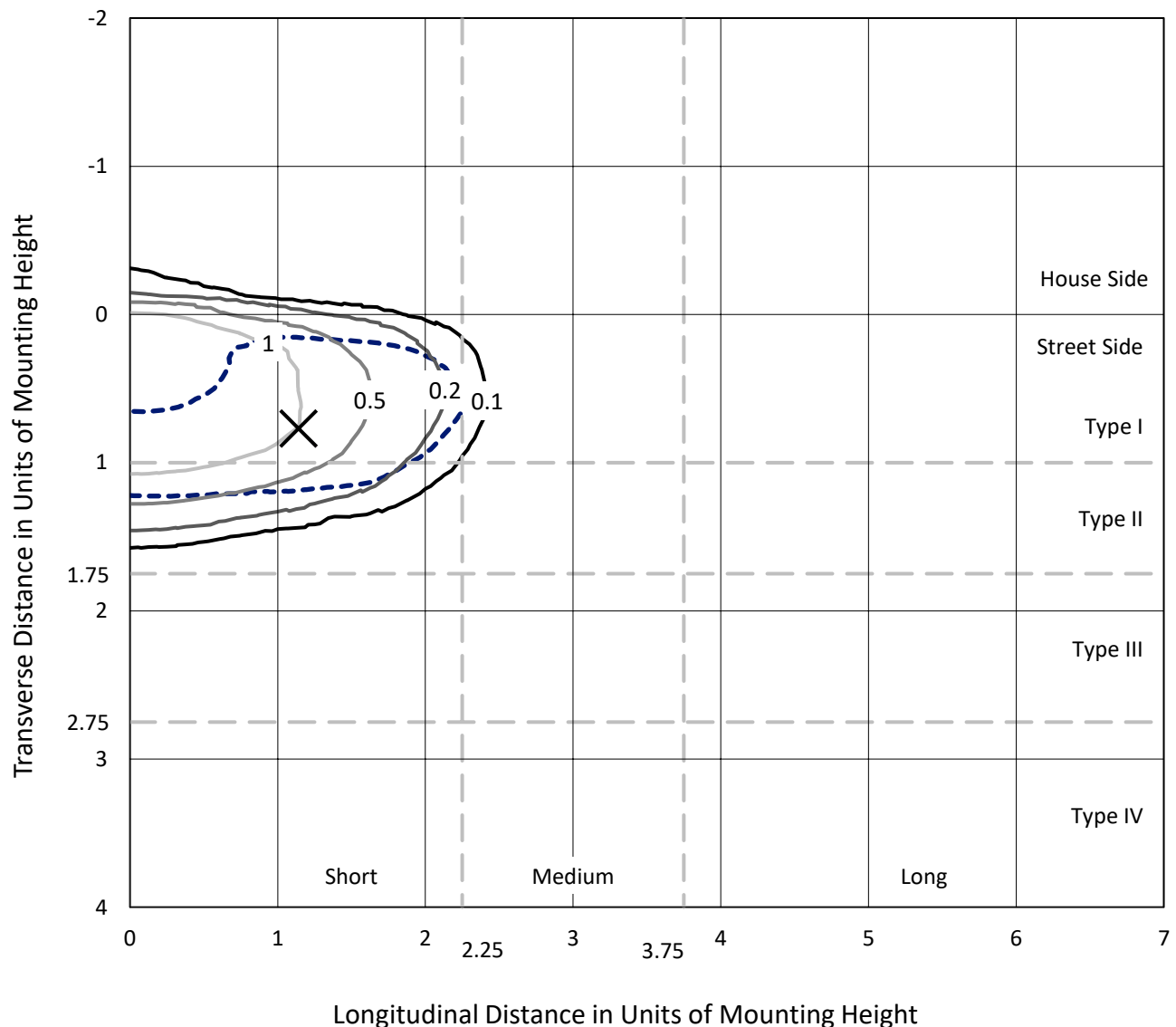


REPORT NUMBER: P450367

CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

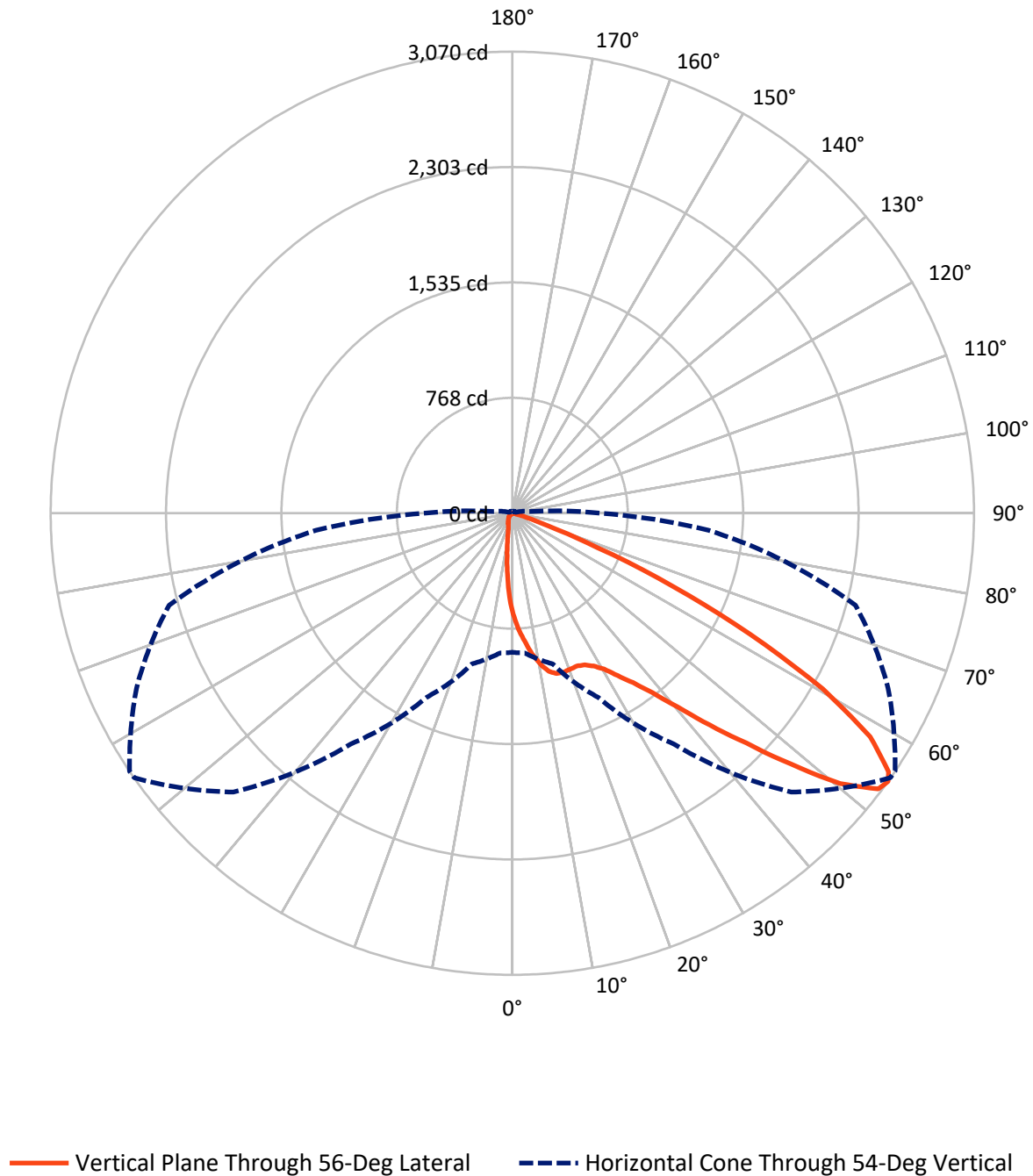
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

REPORT NUMBER: P450367
CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450367

CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

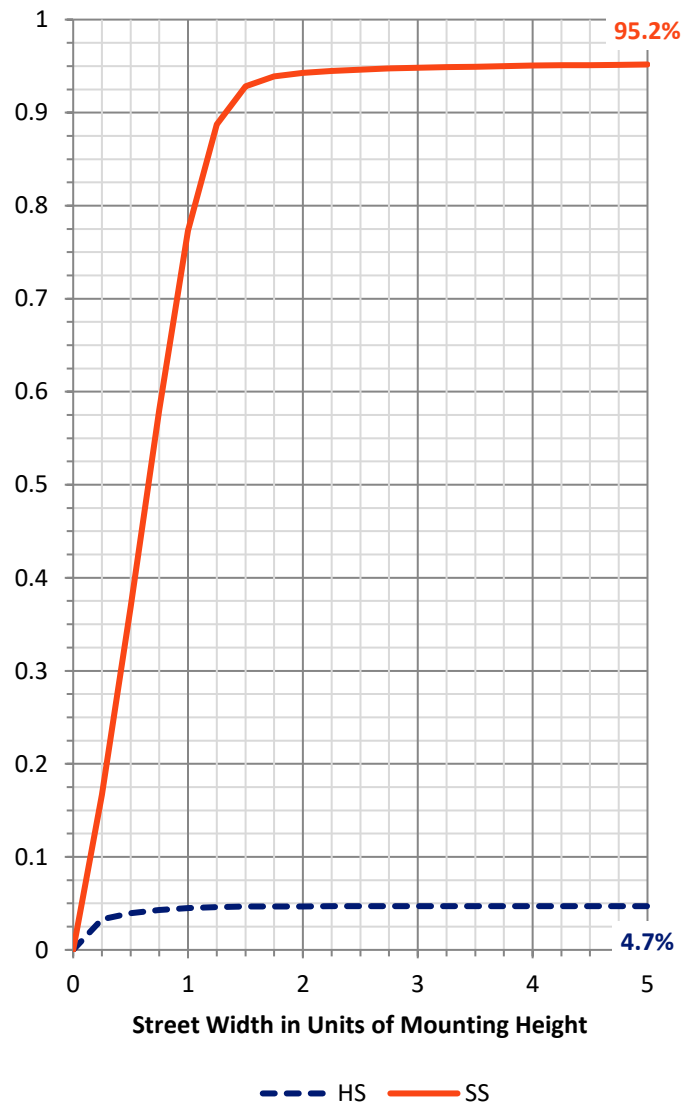
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	142.5	0.0	142.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	2870.5	0.0	2870.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	3013.0	0.0	3013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	2.0
10°-20°	159.9	5.3
20°-30°	276.9	9.2
30°-40°	478.1	15.9
40°-50°	813.7	27.0
50°-60°	805.2	26.7
60°-70°	367.5	12.2
70°-80°	47.2	1.6
80°-90°	5.3	0.2
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°	3013.0	100.0
0°-180°	3013.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450367

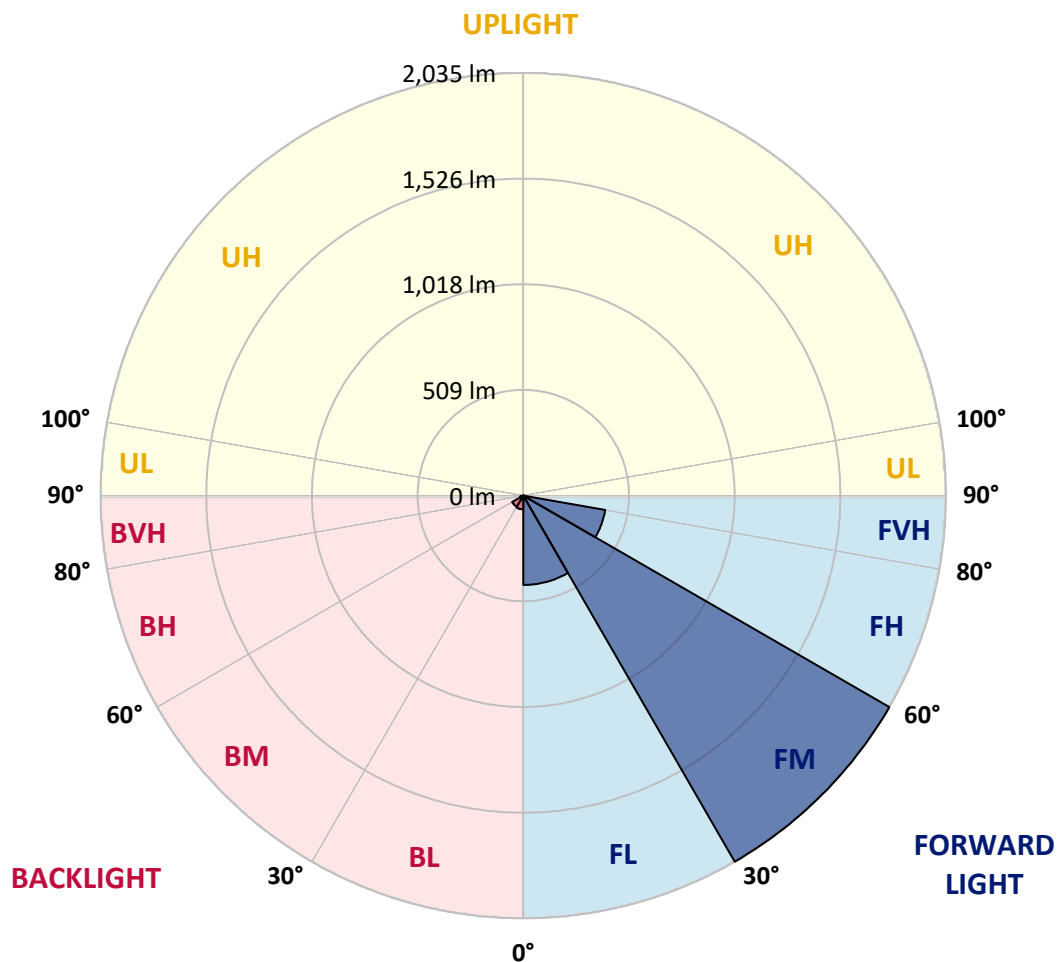
CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.1	14.3			
FM	(30°-60°)	2035.2	67.5			
FH	(60°-80°)	400.5	13.3			G0/660
FVH	(80°-90°)	4.7	0.2			G0/10
BL	(0°-30°)	65.9	2.2	B0/110		
BM	(30°-60°)	61.7	2.0	B0/220		
BH	(60°-80°)	14.3	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





REPORT NUMBER: P450367

CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4
2.5°	850.7	844.8	836.7	830.4	815.6	794.2	771.7	771.7	749.9	719.6	688.7
5°	981.2	977.4	969.4	953.2	936.5	906.6	861.3	853.4	814.5	759.7	701.9
7.5°	1034.3	1036.1	1036.5	1032.3	1024.3	994.9	949.9	944.4	882.4	808.9	719.2
10°	983.5	992.4	1001.2	1018.8	1043.8	1051.0	1025.5	1019.9	958.9	858.7	737.9
12.5°	907.8	912.7	917.6	945.5	995.7	1053.2	1079.8	1079.6	1028.0	908.3	761.7
15°	872.7	877.0	877.4	889.8	933.3	1017.0	1103.0	1106.0	1095.5	969.4	787.3
17.5°	880.0	883.5	880.6	883.7	906.4	977.2	1100.4	1110.5	1150.2	1028.2	810.5
20°	927.8	934.5	923.5	915.0	921.9	966.6	1091.4	1105.6	1188.8	1085.5	831.6
22.5°	1013.6	1017.2	1003.4	980.0	967.8	988.8	1089.0	1103.0	1221.7	1132.5	843.8
25°	1108.9	1107.7	1092.4	1066.2	1040.6	1033.5	1105.0	1117.6	1249.0	1174.8	847.5
27.5°	1204.2	1207.9	1182.3	1149.8	1119.1	1100.6	1141.0	1150.4	1279.6	1222.9	851.9
30°	1315.0	1309.1	1283.9	1246.7	1211.6	1185.7	1198.9	1201.6	1321.9	1286.8	863.7
32.5°	1459.1	1442.9	1414.6	1349.6	1324.4	1280.7	1283.9	1287.2	1373.4	1350.0	878.0
35°	1654.7	1653.9	1598.6	1511.0	1449.6	1395.3	1381.1	1383.7	1451.2	1443.9	909.5
37.5°	1890.1	1893.4	1830.3	1742.1	1629.1	1542.9	1513.6	1514.0	1569.5	1573.6	957.5
40°	2081.8	2090.3	2052.7	1993.2	1881.6	1746.8	1697.6	1693.1	1735.8	1730.7	1026.0
42.5°	2164.3	2172.3	2186.3	2207.0	2145.6	2034.4	1918.4	1924.5	1937.5	1901.9	1102.8
45°	2123.9	2136.5	2191.6	2319.6	2377.4	2340.0	2201.5	2180.2	2125.1	2087.9	1180.0
47.5°	1955.4	1986.0	2078.1	2291.4	2493.4	2619.9	2521.1	2492.8	2312.9	2223.7	1229.2
50°	1678.3	1680.1	1808.4	2081.0	2433.3	2796.5	2847.3	2826.2	2487.9	2299.9	1254.0
52.5°	1216.6	1256.7	1374.2	1689.9	2172.7	2769.7	3055.3	3046.6	2668.5	2338.9	1289.8
54°	924.9	932.6	1037.1	1350.4	1873.2	2622.3	3068.1	3070.1	2758.1	2362.5	1311.0
55°	758.2	739.7	849.5	1150.4	1668.9	2492.0	3026.2	3036.0	2798.4	2374.7	1326.6
57.5°	359.4	359.6	443.6	606.8	1045.3	1935.0	2770.3	2804.9	2802.8	2395.7	1374.8
60°	181.9	183.2	201.7	280.1	516.3	1286.4	2290.6	2372.9	2587.1	2398.7	1390.6
62.5°	127.3	125.8	122.8	134.8	217.3	653.7	1705.3	1776.9	2198.1	2282.6	1340.2
65°	109.0	105.9	97.4	95.5	109.8	260.4	1062.1	1178.8	1678.3	1976.5	1196.7
67.5°	93.1	91.9	84.2	79.5	77.7	113.4	548.0	609.4	1147.1	1420.7	906.4
70°	79.1	78.5	73.8	67.9	62.8	67.9	203.3	251.9	639.3	764.9	427.7
72.5°	64.2	64.8	65.7	58.1	52.9	48.2	86.8	101.0	267.5	273.4	149.6
75°	56.3	55.7	55.7	50.6	44.1	35.8	47.8	51.4	81.9	76.0	34.8
77.5°	39.6	38.2	44.7	41.7	36.8	25.4	27.2	28.9	33.9	29.1	16.3
80°	27.4	27.4	28.7	37.4	33.1	18.5	16.7	17.9	20.1	17.3	9.4
82.5°	15.4	15.9	18.7	19.9	19.3	12.4	11.0	11.2	13.4	11.8	5.9
85°	1.8	3.0	10.8	10.6	7.9	5.5	6.1	6.3	8.3	7.3	3.5
87.5°	0.2	0.4	2.2	2.8	2.0	2.2	2.2	2.2	2.8	3.3	2.4
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: P450367

CATALOG NUMBER: GALN-SA1A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4
2.5°	672.0	656.6	619.8	577.1	549.9	505.6	468.2	441.1	434.4	421.4	425.3
5°	671.2	639.1	564.1	484.8	400.3	337.2	290.3	253.3	237.0	226.3	218.7
7.5°	671.6	621.4	501.1	374.8	273.8	212.0	168.5	146.0	130.9	124.6	125.4
10°	672.9	601.5	427.9	277.7	184.8	137.0	110.4	99.6	94.5	93.7	93.5
12.5°	675.7	579.8	358.0	206.1	129.3	99.6	89.4	85.8	84.2	84.2	83.5
15°	678.8	555.8	299.8	153.3	99.6	85.6	80.9	79.1	78.1	78.1	77.9
17.5°	678.8	528.1	245.6	118.9	85.8	78.7	75.0	72.6	71.8	71.8	71.6
20°	674.5	496.0	197.4	95.7	77.9	72.2	68.5	65.9	64.8	64.4	64.2
22.5°	659.6	453.1	157.1	82.3	71.4	66.5	61.8	58.7	57.9	57.5	57.7
25°	633.2	404.7	124.4	72.4	65.5	59.6	55.5	53.3	52.4	52.4	52.6
27.5°	606.0	354.1	98.6	64.8	58.3	53.1	49.8	48.4	48.2	48.8	49.0
30°	580.8	303.3	79.9	58.7	52.0	47.6	45.3	44.9	44.9	45.1	45.3
32.5°	552.7	258.8	66.9	53.5	47.0	43.1	41.9	41.9	42.3	42.3	42.7
35°	535.0	220.6	58.7	48.4	43.1	39.8	39.0	39.2	39.8	40.7	41.1
37.5°	525.5	190.1	53.5	44.3	39.4	37.2	36.4	36.8	38.2	39.6	39.8
40°	526.3	167.1	49.2	40.9	36.6	34.2	33.5	34.8	36.2	37.6	37.8
42.5°	535.2	150.0	45.1	36.8	34.2	30.7	30.5	31.7	32.3	33.7	33.9
45°	545.8	137.6	40.9	32.5	29.7	26.6	26.8	27.8	28.7	30.9	31.3
47.5°	549.1	129.1	36.0	27.6	24.4	23.4	23.6	24.2	25.8	27.8	28.1
50°	552.7	123.8	31.3	23.4	20.7	20.5	20.7	21.1	22.2	23.0	22.8
52.5°	568.4	123.6	27.4	20.3	17.7	18.1	18.3	18.1	17.3	16.1	15.7
54°	583.0	124.2	25.6	18.9	16.3	16.9	16.7	15.7	13.6	12.4	11.8
55°	594.8	124.8	24.6	17.9	15.4	15.7	15.9	13.8	11.2	10.0	9.6
57.5°	618.0	123.4	22.2	15.7	13.6	12.8	12.6	9.1	6.1	5.3	4.9
60°	606.4	111.4	20.1	13.4	11.6	10.4	8.5	5.1	3.0	2.2	2.2
62.5°	560.9	94.5	17.9	11.0	9.6	7.9	4.5	2.8	1.4	0.8	0.6
65°	501.7	79.5	16.1	8.7	7.5	5.1	2.4	1.8	0.6	0.0	0.0
67.5°	373.0	59.0	13.6	6.9	5.7	3.3	1.6	1.0	0.2	0.0	0.0
70°	172.8	36.0	11.6	5.3	4.1	2.4	1.2	0.6	0.0	0.0	0.0
72.5°	49.6	22.6	9.6	3.9	2.8	2.0	1.0	0.4	0.2	0.0	0.0
75°	17.3	18.1	7.1	2.8	2.2	1.4	0.8	0.4	0.2	0.0	0.0
77.5°	10.4	14.6	4.5	2.4	1.8	1.2	0.8	0.4	0.2	0.2	0.0
80°	5.9	9.8	2.8	2.0	1.6	1.0	0.6	0.4	0.2	0.2	0.0
82.5°	3.3	4.7	2.2	1.8	1.4	1.0	0.6	0.4	0.2	0.2	0.2
85°	2.6	2.4	1.8	1.6	1.2	0.8	0.6	0.2	0.0	0.0	0.0
87.5°	2.0	1.6	1.6	1.6	1.2	0.8	0.6	0.2	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)