

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: P452463

Luminaire Tested: **GALN-SA3B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452463
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-SA3B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13213 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 121
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



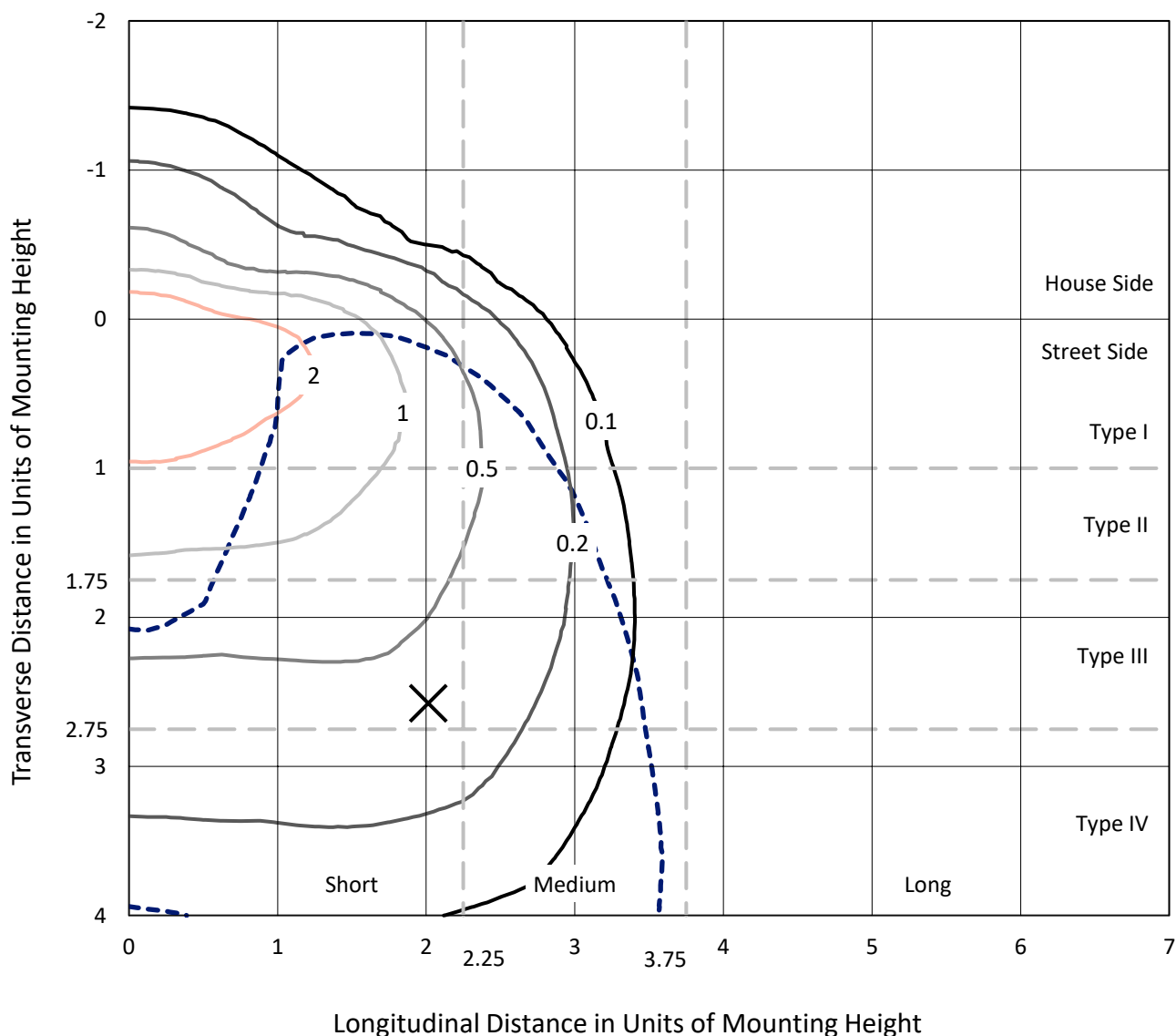
REPORT NUMBER: P452463

CATALOG NUMBER: GALN-SA3B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



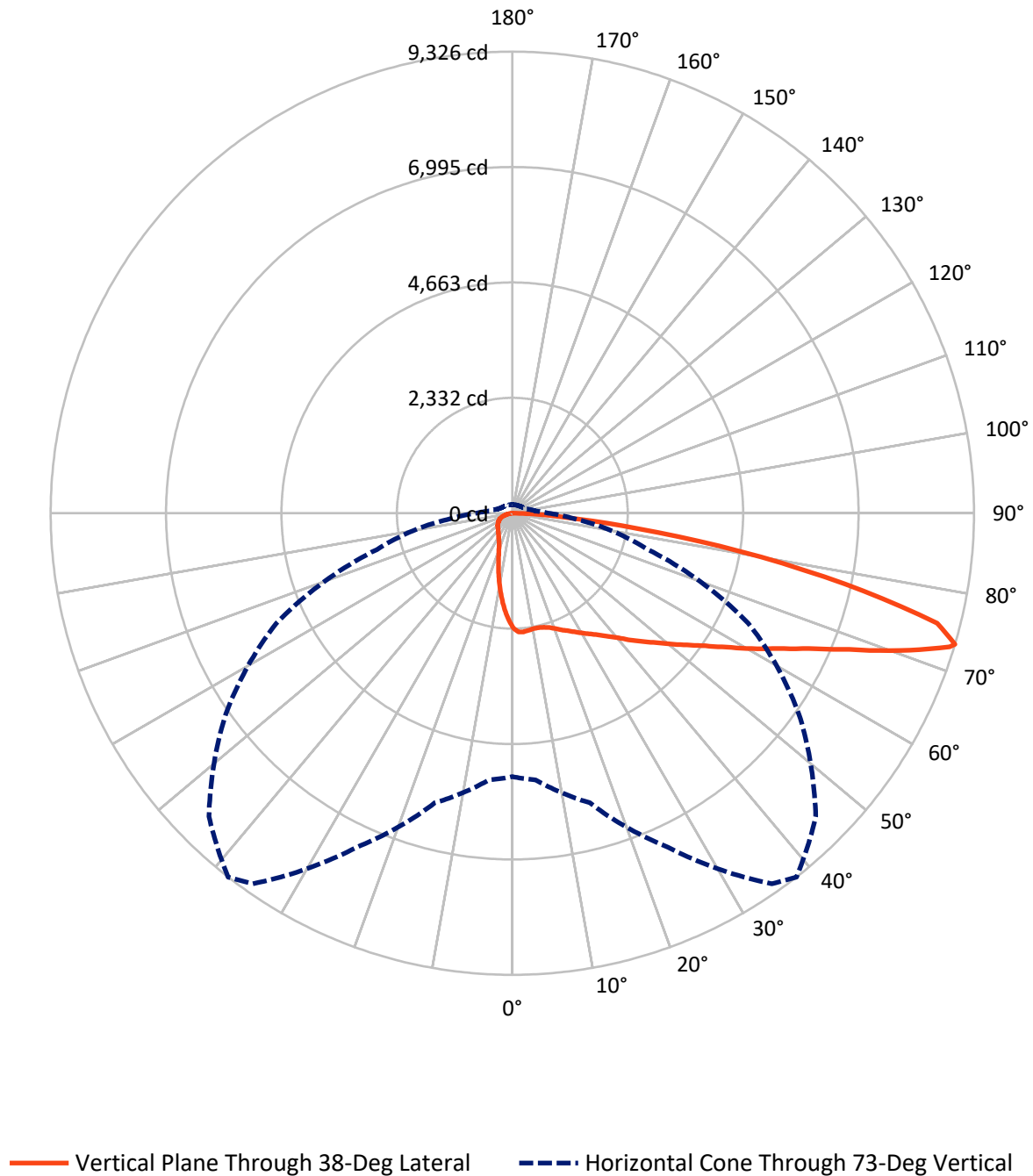
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - N/A

REPORT NUMBER: P452463

CATALOG NUMBER: GALN-SA3B-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P452463

CATALOG NUMBER: GALN-SA3B-830-U-SL4

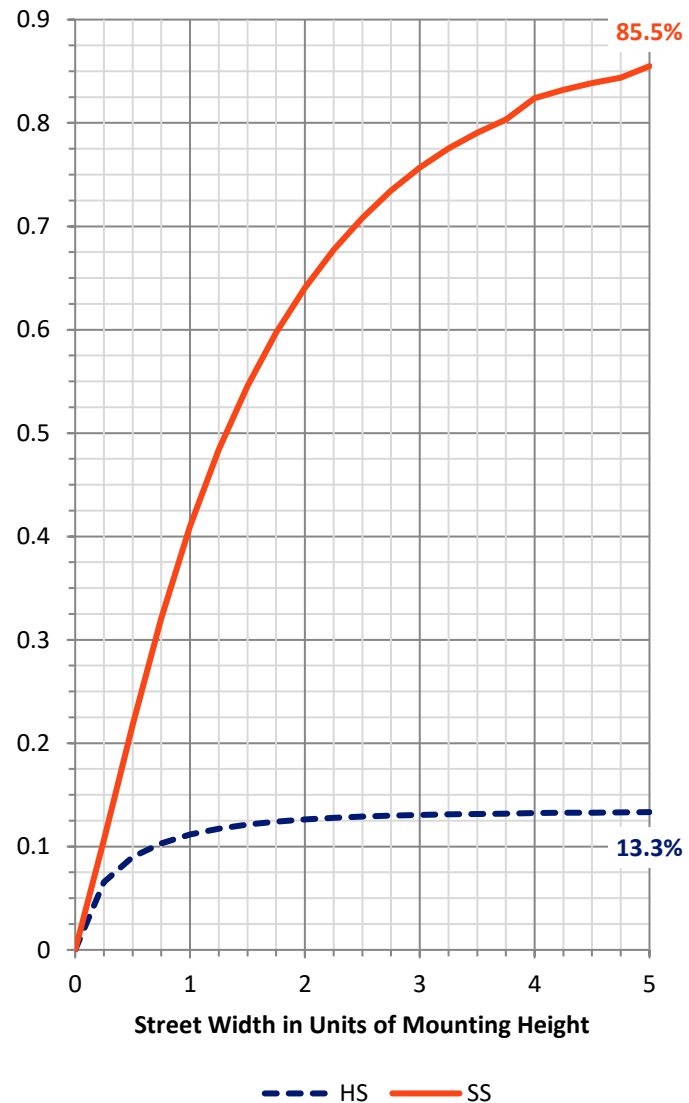
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.2	0.0	1776.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11436.8	0.0	11436.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	13213.0	0.0	13213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	1.5
10°-20°	519.6	3.9
20°-30°	809.1	6.1
30°-40°	1186.8	9.0
40°-50°	1760.4	13.3
50°-60°	2494.2	18.9
60°-70°	3164.0	23.9
70°-80°	2633.8	19.9
80°-90°	442.5	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°	13213.0	100.0
0°-180°	13213.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452463

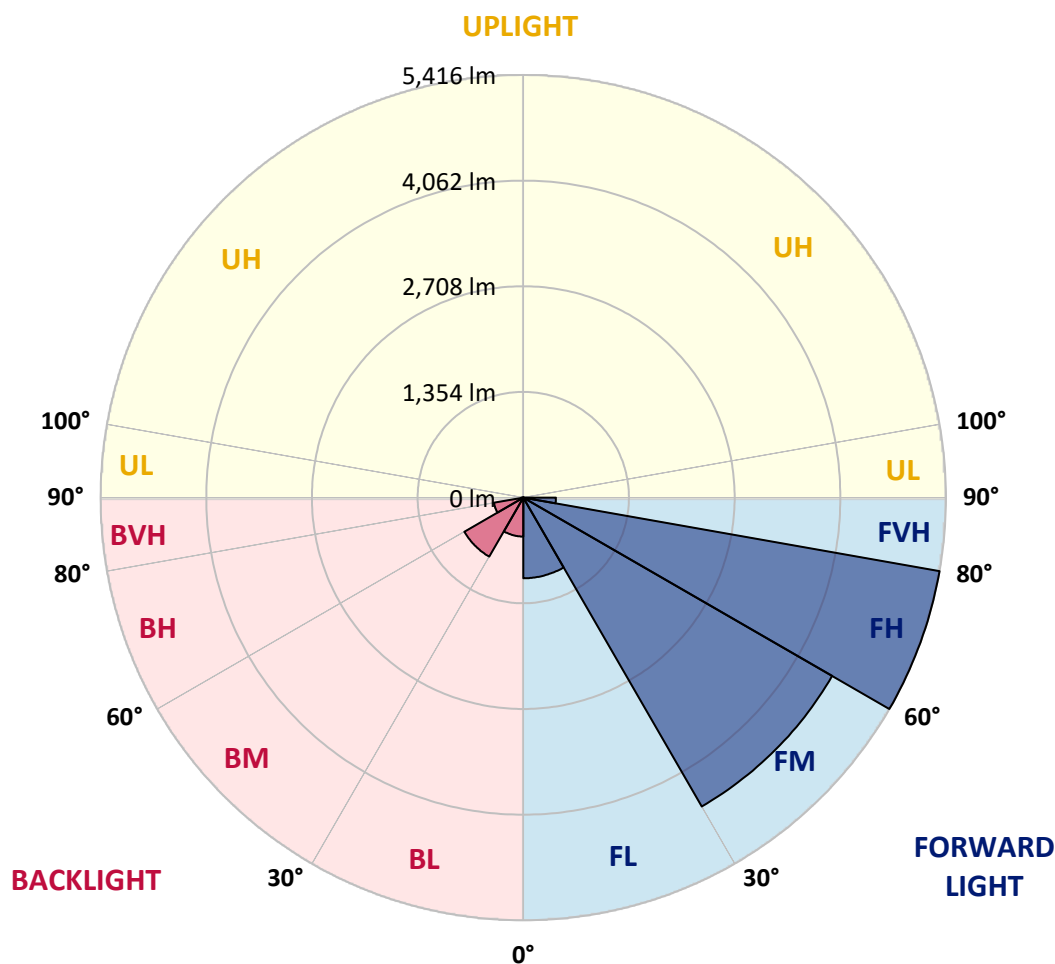
CATALOG NUMBER: GALN-SA3B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1032.9	7.8			
FM	(30°-60°)	4569.4	34.6			
FH	(60°-80°)	5416.0	41.0			G3/7500
FVH	(80°-90°)	418.5	3.2			G3/500
BL	(0°-30°)	498.4	3.8	B1/500		
BM	(30°-60°)	872.0	6.6	B1/1000		
BH	(60°-80°)	381.8	2.9	B1/500		G1/500
BVH	(80°-90°)	24.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P452463

CATALOG NUMBER: GALN-SA3B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3
2.5°	2414.6	2426.5	2420.5	2412.3	2407.1	2401.9	2394.4	2372.8	2355.6	2337.0	2307.9
5°	2432.5	2439.9	2434.7	2424.3	2412.3	2407.1	2392.9	2364.6	2337.0	2305.6	2262.4
7.5°	2422.0	2425.0	2419.0	2406.4	2395.9	2386.2	2369.8	2338.5	2304.9	2266.8	2210.1
10°	2384.7	2395.9	2395.9	2385.5	2375.0	2369.8	2353.4	2323.5	2292.9	2249.7	2182.5
12.5°	2354.1	2366.1	2375.8	2372.8	2372.0	2372.0	2359.4	2337.0	2301.2	2260.1	2180.3
15°	2333.2	2347.4	2368.3	2380.2	2387.7	2389.9	2384.7	2365.3	2328.8	2281.0	2189.2
17.5°	2328.8	2345.9	2384.0	2410.1	2429.5	2428.7	2427.3	2400.4	2360.1	2310.9	2200.4
20°	2348.9	2371.3	2424.3	2465.3	2493.7	2488.4	2480.2	2445.2	2398.2	2342.9	2210.9
22.5°	2409.3	2432.5	2490.7	2535.4	2563.1	2563.1	2538.4	2492.2	2442.2	2380.2	2225.0
25°	2495.9	2521.3	2583.2	2628.7	2641.4	2631.7	2607.1	2551.1	2493.7	2434.0	2254.9
27.5°	2601.9	2632.4	2689.9	2728.0	2724.2	2716.8	2691.4	2619.8	2562.3	2507.8	2305.6
30°	2733.9	2756.3	2816.0	2825.0	2811.5	2810.0	2774.2	2702.6	2648.9	2607.1	2378.0
32.5°	2858.5	2878.7	2926.4	2930.2	2906.3	2909.3	2875.7	2810.0	2779.4	2764.5	2499.6
35°	2990.6	3001.1	3042.1	3037.6	3021.9	3019.7	3006.3	2943.6	2953.3	2980.2	2672.0
37.5°	3101.0	3121.9	3145.1	3148.8	3148.0	3155.5	3164.5	3134.6	3190.6	3274.9	2898.1
40°	3202.5	3220.4	3254.7	3266.7	3295.8	3310.7	3341.3	3342.0	3471.1	3609.9	3176.4
42.5°	3271.2	3301.8	3365.9	3387.6	3458.4	3503.2	3548.7	3597.2	3784.5	3962.8	3504.7
45°	3330.9	3371.1	3477.8	3545.0	3641.3	3695.7	3792.0	3893.5	4162.8	4396.4	3838.2
47.5°	3421.1	3457.0	3579.3	3698.0	3843.5	3906.1	4050.2	4201.6	4553.8	4809.7	4157.6
50°	3546.5	3568.1	3692.7	3886.0	4071.8	4152.4	4342.6	4561.3	4971.7	5217.9	4438.2
52.5°	3706.9	3715.9	3815.1	4072.5	4317.3	4417.3	4669.5	4924.6	5337.3	5572.3	4660.5
55°	3896.4	3881.5	3959.1	4270.3	4597.8	4728.4	4999.3	5292.5	5748.4	5858.8	4822.4
57.5°	4083.7	4060.6	4122.5	4510.5	4944.0	5101.5	5417.1	5671.6	6115.5	6126.7	4935.8
60°	4282.2	4265.0	4338.9	4792.6	5368.6	5555.2	5846.9	6064.8	6470.7	6313.2	4953.7
62.5°	4485.9	4458.3	4563.5	5109.7	5846.9	6016.3	6299.1	6482.6	6819.1	6382.6	4781.4
65°	4683.6	4671.0	4833.6	5486.5	6391.6	6584.1	6858.7	6983.3	7098.2	6278.2	4353.8
67.5°	4894.1	4919.4	5179.1	5989.4	7101.9	7343.7	7639.9	7522.8	7178.0	5783.5	3666.6
70°	5214.9	5231.3	5632.8	6648.3	8017.5	8309.2	8452.5	7714.5	6793.0	4844.1	2756.3
72.5°	5352.9	5425.3	6037.9	7340.0	9057.6	9236.0	8725.6	7287.0	5658.9	3290.6	1448.3
73°	5322.4	5408.9	6056.6	7445.2	9139.0	9326.2	8667.4	7066.9	5260.4	2833.9	1241.6
75°	4941.1	5047.8	5814.1	7357.1	8980.8	8868.8	7731.7	6023.0	3554.7	1288.6	565.6
77.5°	3898.7	3929.3	4606.8	5940.9	7072.1	6864.7	5786.5	3764.4	1452.0	479.0	320.8
80°	1955.7	2068.4	2596.6	3403.2	4729.2	4661.3	3652.4	1780.3	605.1	281.3	212.7
82.5°	940.9	1020.7	1264.7	1659.5	2613.0	2551.1	1808.7	973.0	384.3	164.2	125.4
85°	605.9	665.6	805.1	791.7	1074.5	1026.0	812.6	736.5	227.6	85.8	87.3
87.5°	399.9	438.0	525.3	420.1	391.0	353.7	358.9	414.9	44.8	32.8	11.9
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: P452463

CATALOG NUMBER: GALN-SA3B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3	2321.3
2.5°	2295.9	2286.2	2254.1	2222.8	2193.0	2164.6	2146.0	2121.3	2104.9	2109.4	2116.1
5°	2238.5	2216.8	2160.1	2104.9	2052.7	1990.8	1940.8	1900.5	1869.9	1858.7	1856.4
7.5°	2178.0	2141.5	2060.1	1965.4	1876.6	1799.7	1710.9	1666.9	1615.4	1597.5	1591.6
10°	2141.5	2092.2	1978.1	1846.0	1712.4	1584.8	1488.6	1410.2	1339.4	1325.9	1319.2
12.5°	2131.0	2066.1	1912.4	1742.3	1564.7	1408.0	1265.5	1162.5	1093.9	1078.2	1055.1
15°	2125.1	2044.5	1851.2	1637.8	1412.5	1221.5	1071.5	951.4	888.7	846.9	847.6
17.5°	2119.8	2019.9	1782.6	1523.7	1281.2	1061.0	895.4	787.2	729.7	707.4	705.1
20°	2112.4	1990.8	1703.5	1403.5	1131.2	914.8	764.8	684.2	645.4	626.8	626.0
22.5°	2109.4	1962.4	1625.9	1281.2	998.4	802.1	678.3	621.6	596.9	584.2	584.2
25°	2116.9	1942.3	1544.5	1164.8	880.5	705.9	618.6	579.8	565.6	558.9	556.6
27.5°	2140.0	1933.3	1464.0	1048.4	772.3	640.2	578.3	551.4	541.0	535.7	536.5
30°	2184.0	1932.6	1384.9	933.4	691.7	590.2	546.2	527.5	519.3	516.3	515.6
32.5°	2254.9	1949.0	1307.3	838.7	623.8	548.4	516.3	502.9	499.2	496.9	496.2
35°	2375.0	1995.2	1230.4	752.1	571.6	511.1	488.0	481.3	476.0	478.3	479.0
37.5°	2536.9	2075.1	1157.3	684.2	532.0	483.5	464.1	458.1	455.2	457.4	459.6
40°	2754.1	2190.0	1096.1	629.8	503.7	460.4	443.2	438.0	435.0	438.7	439.5
42.5°	2993.6	2322.8	1045.4	587.2	480.5	441.0	424.6	418.6	416.4	418.6	419.3
45°	3239.8	2477.2	1019.3	556.6	461.1	426.8	409.6	402.9	397.7	396.2	398.4
47.5°	3482.3	2611.6	1018.5	538.0	445.5	414.1	395.5	388.0	381.3	377.6	376.8
50°	3680.1	2718.3	1036.4	529.8	432.0	399.9	381.3	373.8	364.9	357.4	358.9
52.5°	3829.3	2787.6	1044.6	526.0	424.6	385.0	366.4	359.6	349.2	339.5	339.5
55°	3925.5	2804.1	1024.5	522.3	418.6	369.3	349.2	343.2	332.8	323.1	323.1
57.5°	3958.4	2753.3	952.1	513.4	412.6	355.9	332.0	326.8	318.6	308.9	307.4
60°	3882.3	2581.7	825.3	486.5	400.7	341.7	313.4	311.1	308.2	300.0	299.2
62.5°	3589.0	2217.6	687.2	451.4	380.5	326.8	296.2	300.0	302.2	297.7	297.0
65°	3101.0	1800.5	587.2	402.9	353.7	305.9	277.6	287.3	293.2	293.2	291.7
67.5°	2515.3	1382.6	494.7	361.1	320.1	277.6	256.7	264.1	268.6	267.1	270.9
70°	1787.8	936.4	402.9	313.4	277.6	245.5	229.8	229.8	226.8	225.3	225.3
72.5°	867.0	535.0	326.8	261.9	236.5	209.7	197.0	191.8	185.8	185.0	181.3
73°	724.5	479.8	311.9	252.2	226.8	204.4	190.3	182.1	178.3	175.3	174.6
75°	441.0	364.1	260.4	212.7	193.3	176.1	163.4	155.9	152.2	150.0	149.2
77.5°	290.3	271.6	202.2	162.7	147.7	137.3	132.1	124.6	122.4	119.4	119.4
80°	216.4	207.4	144.8	114.9	106.0	97.0	95.5	94.0	88.0	84.3	82.8
82.5°	139.5	147.7	98.5	76.9	67.2	59.7	60.4	62.7	56.7	51.5	50.0
85°	99.2	106.7	59.7	35.1	28.4	24.6	27.6	24.6	25.4	20.1	16.4
87.5°	16.4	28.4	10.4	4.5	2.2	1.5	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)