

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: P453171

Luminaire Tested: **GALN-SA4A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11255 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

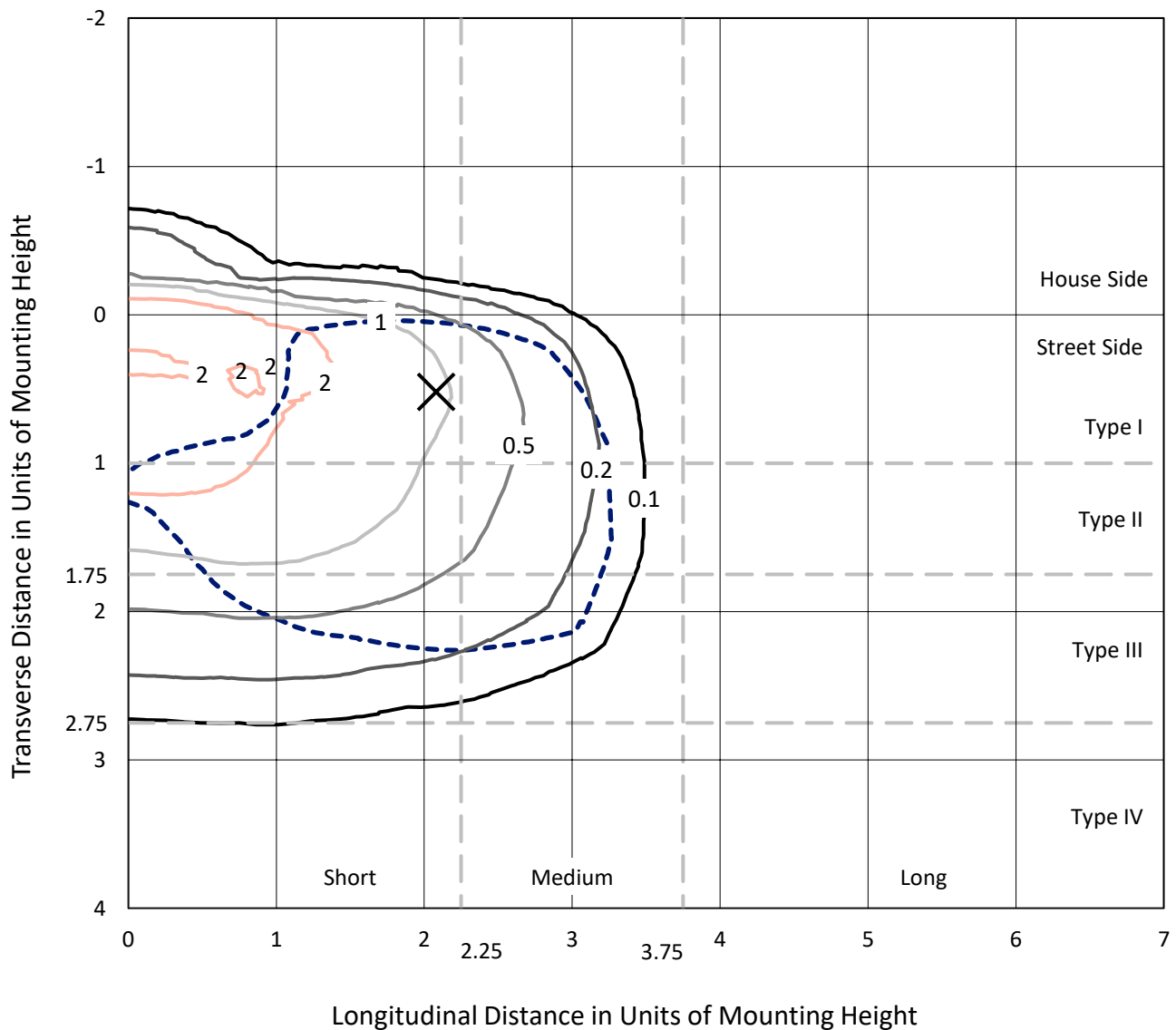


REPORT NUMBER: P453171

CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

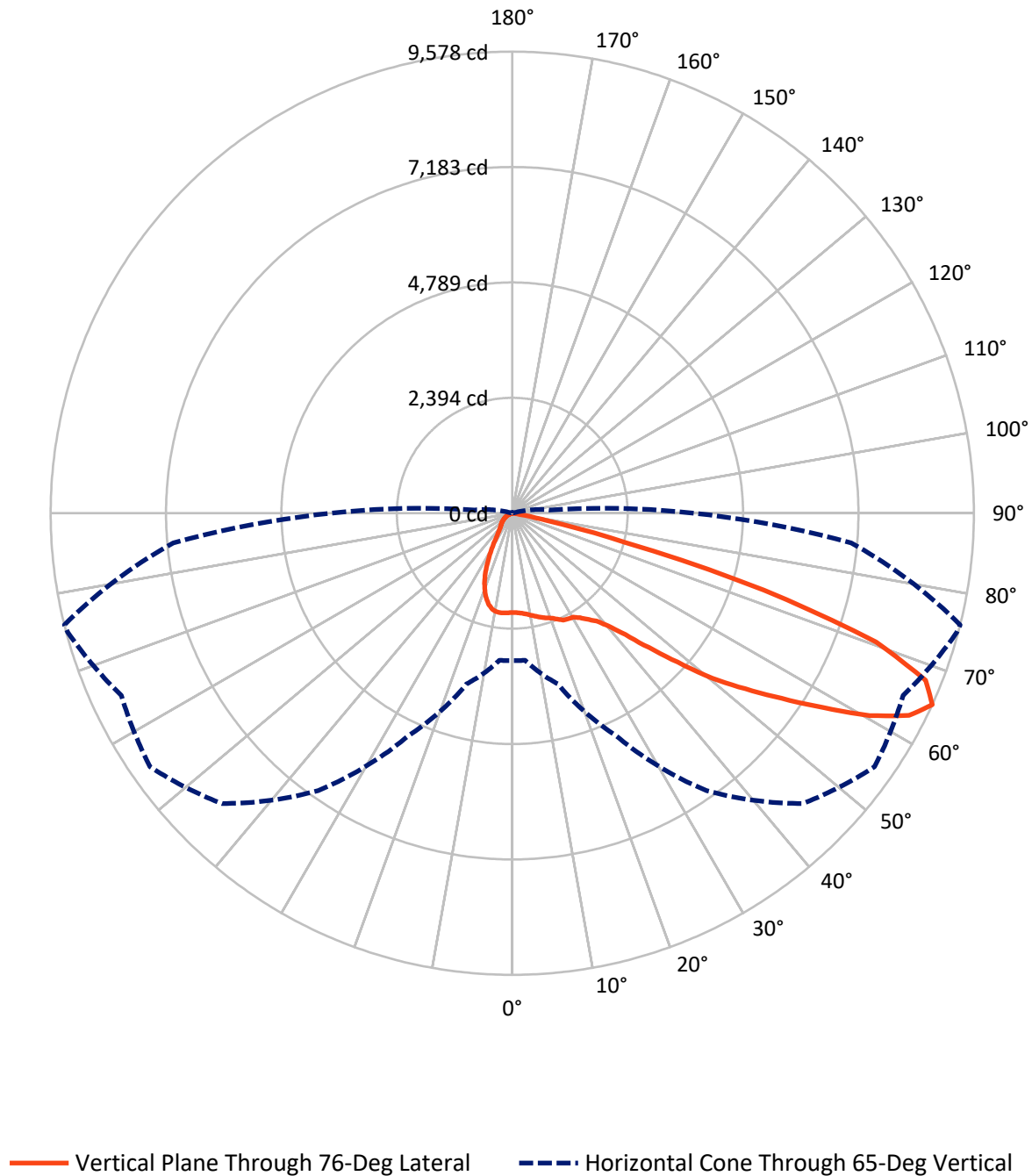
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P453171
CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P453171

CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

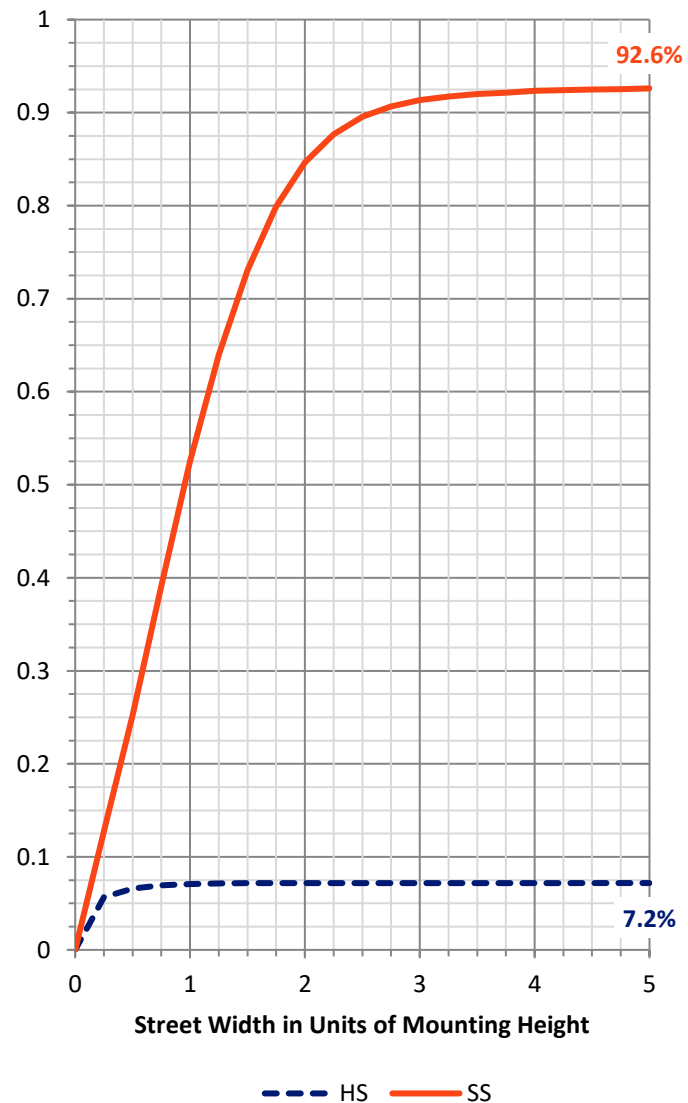
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	812.8	0.0	812.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10442.2	0.0	10442.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	11255.0	0.0	11255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.5
10°-20°	377.6	3.4
20°-30°	608.5	5.4
30°-40°	1058.1	9.4
40°-50°	1748.4	15.5
50°-60°	2700.9	24.0
60°-70°	3298.2	29.3
70°-80°	1251.8	11.1
80°-90°	41.8	0.4
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°	11255.0	100.0
0°-180°	11255.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453171

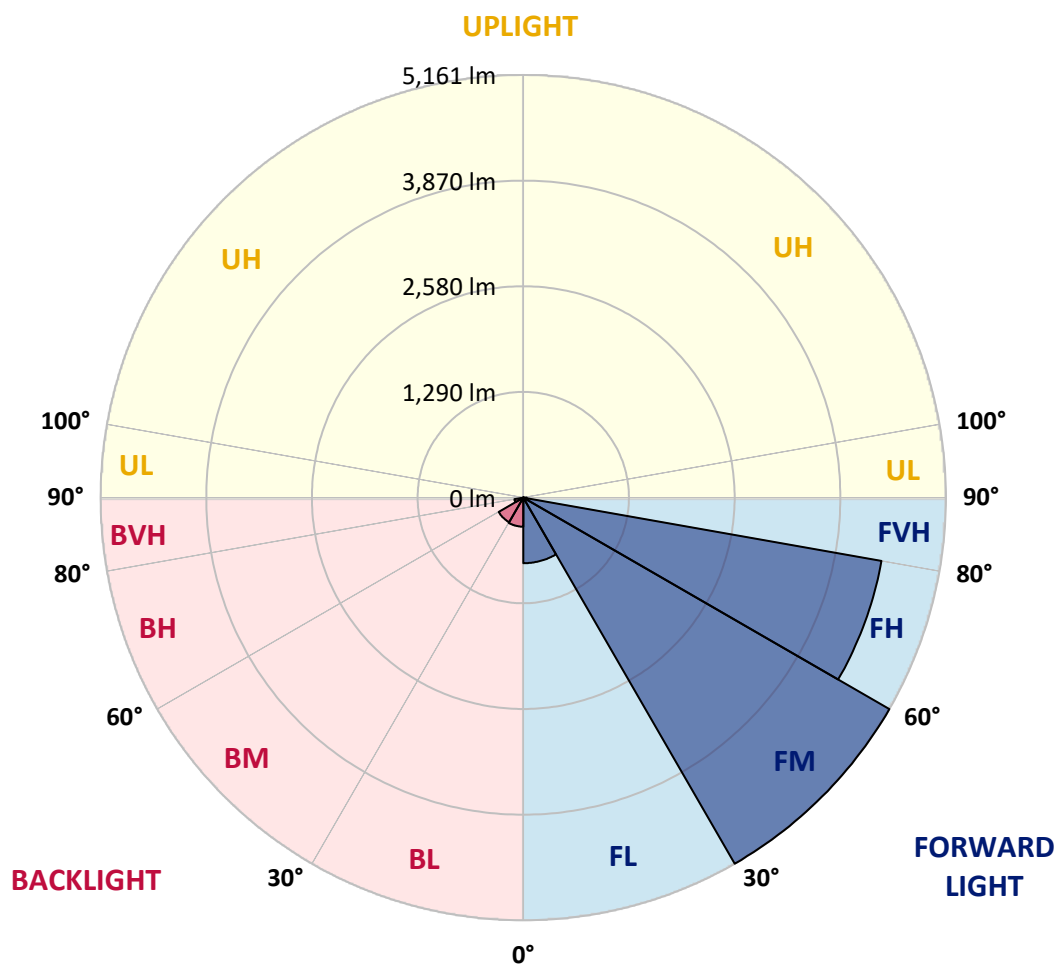
CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.7	7.1			
FM	(30°-60°)	5160.6	45.9			
FH	(60°-80°)	4439.7	39.4			G2/5000
FVH	(80°-90°)	41.2	0.4			G1/100
BL	(0°-30°)	355.1	3.2	B1/500		
BM	(30°-60°)	346.9	3.1	B1/1000		
BH	(60°-80°)	110.3	1.0	B1/500		G1/500
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: B1-U0-G2

Type III Short





REPORT NUMBER: P453171

CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9
2.5°	1967.5	1968.3	1973.1	1985.0	2003.3	2018.4	2031.1	2051.7	2066.1	2067.6	2072.4
5°	1831.6	1822.1	1831.6	1862.6	1890.4	1932.6	1984.2	2035.9	2081.9	2085.1	2107.4
7.5°	1679.1	1687.0	1702.1	1733.9	1786.3	1850.7	1925.4	2017.6	2105.0	2112.9	2156.6
10°	1524.1	1541.6	1566.2	1614.7	1687.8	1771.2	1873.0	2004.9	2141.5	2152.7	2228.2
12.5°	1381.1	1389.0	1419.2	1484.4	1575.0	1692.6	1833.2	1997.7	2182.1	2195.6	2304.4
15°	1271.4	1281.7	1308.0	1366.8	1467.7	1618.7	1800.6	1995.3	2221.8	2240.9	2380.7
17.5°	1250.8	1257.1	1268.2	1308.0	1396.2	1559.9	1771.2	1994.5	2259.9	2283.0	2451.4
20°	1335.8	1330.2	1319.1	1315.1	1363.6	1514.6	1749.8	2000.9	2296.5	2322.7	2526.1
22.5°	1548.7	1555.9	1490.7	1413.7	1397.8	1507.4	1746.6	2031.1	2354.5	2385.5	2609.6
25°	2000.9	1946.1	1844.3	1660.0	1520.9	1551.1	1782.4	2102.6	2422.0	2456.2	2685.1
27.5°	2500.7	2484.0	2325.9	2022.3	1763.3	1643.3	1845.9	2157.4	2444.3	2479.3	2728.0
30°	2991.8	3011.7	2830.5	2495.2	2115.3	1814.2	1905.5	2178.1	2464.2	2500.7	2782.8
32.5°	3447.1	3471.0	3312.0	2979.9	2530.1	2109.8	2008.0	2258.4	2547.6	2584.9	2874.2
35°	3805.5	3808.7	3688.7	3424.1	2983.1	2468.9	2229.7	2399.0	2660.4	2704.1	2971.1
37.5°	4134.5	4129.7	3989.1	3761.0	3360.5	2825.7	2508.7	2561.1	2789.2	2834.5	3111.0
40°	4378.4	4381.6	4336.3	4121.8	3712.5	3155.5	2729.6	2712.9	3005.3	3076.0	3314.4
42.5°	4541.3	4570.7	4593.0	4484.1	4155.1	3561.6	3068.9	3037.9	3380.4	3439.2	3602.1
45°	4673.2	4725.7	4836.9	4831.4	4580.3	4059.8	3534.5	3471.0	3912.0	3974.8	3968.4
47.5°	4769.4	4822.6	5007.0	5118.2	4980.0	4542.9	4120.2	4065.4	4546.9	4615.2	4372.9
50°	4818.7	4882.2	5117.4	5332.8	5292.3	5008.6	4787.7	4790.9	5313.7	5379.7	4841.7
52.5°	4703.4	4786.1	5176.3	5564.0	5642.7	5454.4	5413.1	5517.9	5996.3	6052.7	5265.3
55°	4335.5	4439.6	5096.0	5761.1	6048.8	5980.4	6123.5	6283.2	6742.5	6779.0	5699.9
57.5°	4102.7	4213.2	4859.2	5928.8	6536.7	6641.6	6868.0	6984.8	7512.5	7605.4	6198.9
60°	3906.4	3993.0	4664.5	5964.5	7032.5	7450.5	7670.6	7791.4	8462.9	8523.3	6748.0
62.5°	3579.8	3679.2	4335.5	5715.0	7282.0	8098.1	8554.2	8500.2	9197.9	9240.0	7085.0
65°	3054.6	3063.3	3668.0	5088.0	7024.6	8518.5	9174.9	8948.4	9549.1	9577.7	7058.7
67.5°	2279.8	2364.0	2821.7	3999.4	5933.5	8159.3	9375.9	8960.3	9327.4	9248.0	6498.5
70°	1468.5	1532.9	1912.7	2773.3	4278.3	6809.2	8709.2	8346.0	8186.3	8009.9	5319.3
72.5°	677.8	760.5	1136.3	1584.5	2537.3	4850.5	7069.9	6780.6	5892.2	5456.8	3381.2
75°	295.6	316.3	561.0	836.0	1189.6	2565.1	4661.3	4209.2	2661.2	2430.8	1353.3
77.5°	180.4	193.9	294.0	448.2	467.2	977.4	2511.0	1836.4	822.4	725.5	367.1
80°	122.4	137.5	213.8	234.4	159.7	272.6	942.4	490.3	166.1	158.9	78.7
82.5°	59.6	75.5	158.1	131.1	69.1	87.4	274.1	104.9	48.5	45.3	27.8
85°	8.7	15.1	89.0	85.8	31.0	20.7	48.5	26.2	16.7	15.9	12.7
87.5°	0.0	0.0	30.2	13.5	3.2	3.2	5.6	5.6	6.4	5.6	6.4
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: P453171

CATALOG NUMBER: GALN-SA4A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9
2.5°	2074.8	2078.8	2063.7	2042.2	2019.2	1996.1	1963.5	1934.1	1916.7	1927.0	1901.6
5°	2112.1	2109.0	2069.2	2004.1	1917.5	1813.4	1710.1	1621.8	1593.2	1550.3	1545.6
7.5°	2163.8	2155.0	2070.8	1921.4	1725.9	1530.5	1339.8	1213.4	1141.1	1079.9	1081.5
10°	2236.1	2210.7	2052.5	1776.0	1454.2	1159.4	916.2	749.3	677.0	654.0	635.7
12.5°	2310.8	2261.5	2001.7	1579.7	1132.4	792.3	557.0	455.3	410.8	396.5	394.9
15°	2377.5	2299.7	1912.7	1343.7	823.2	506.2	379.8	346.5	340.9	341.7	340.9
17.5°	2443.5	2329.9	1789.5	1093.4	559.4	363.1	326.6	318.6	321.0	324.2	323.4
20°	2498.3	2336.2	1632.2	834.4	395.7	318.6	306.7	305.1	307.5	309.9	309.9
22.5°	2557.9	2341.0	1445.4	577.7	323.4	296.4	290.0	290.0	293.2	296.4	297.2
25°	2602.4	2314.8	1222.1	414.8	285.3	274.9	271.8	272.6	275.7	277.3	276.5
27.5°	2609.6	2240.9	985.3	317.9	259.1	248.7	245.5	248.7	244.7	247.1	245.5
30°	2615.9	2147.1	745.4	267.8	235.2	219.3	214.6	209.8	206.6	202.6	201.8
32.5°	2635.8	2036.6	544.3	240.8	213.0	195.5	184.4	170.8	160.5	157.3	156.5
35°	2644.5	1903.9	399.7	219.3	193.1	174.0	154.2	135.1	120.0	114.4	118.4
37.5°	2677.9	1775.2	309.9	203.4	175.6	151.8	126.3	102.5	88.2	85.0	86.6
40°	2746.3	1635.4	259.8	189.9	160.5	131.1	100.1	77.1	67.5	64.4	63.6
42.5°	2855.9	1496.3	231.2	177.2	145.4	110.5	78.7	60.4	52.4	50.1	50.1
45°	2989.4	1362.8	211.4	163.7	129.5	89.0	62.0	48.5	43.7	42.1	42.1
47.5°	3165.0	1246.0	194.7	150.2	112.0	70.7	50.1	42.1	38.9	39.7	40.5
50°	3343.0	1159.4	176.4	135.1	92.2	58.0	42.9	37.3	36.6	37.3	37.3
52.5°	3477.3	1108.5	151.8	114.4	72.3	48.5	38.1	35.0	34.2	32.6	32.6
55°	3658.5	1097.4	120.8	93.0	57.2	40.5	34.2	31.8	29.4	27.8	27.0
57.5°	3891.3	1110.1	93.0	72.3	44.5	33.4	30.2	26.2	23.0	19.9	19.9
60°	4036.0	1081.5	72.3	55.6	32.6	27.0	23.0	19.1	15.1	12.7	11.9
62.5°	3989.9	960.7	57.2	41.3	23.0	19.9	15.1	12.7	8.7	6.4	5.6
65°	3752.3	775.6	46.1	28.6	16.7	11.9	7.9	7.9	4.0	0.8	0.0
67.5°	3284.2	574.5	36.6	19.1	9.5	5.6	4.0	2.4	0.0	0.0	0.0
70°	2673.2	414.8	28.6	11.9	5.6	4.0	1.6	0.8	0.0	0.0	0.0
72.5°	1697.3	237.6	22.2	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0
75°	656.4	93.0	15.1	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	185.9	43.7	8.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.5	19.1	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.0	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.5	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	0.8	0.0	0.0	0.0	0.0	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)