

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: P451315

Luminaire Tested: **GALN-SA2A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451315
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-SA2A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 5722 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

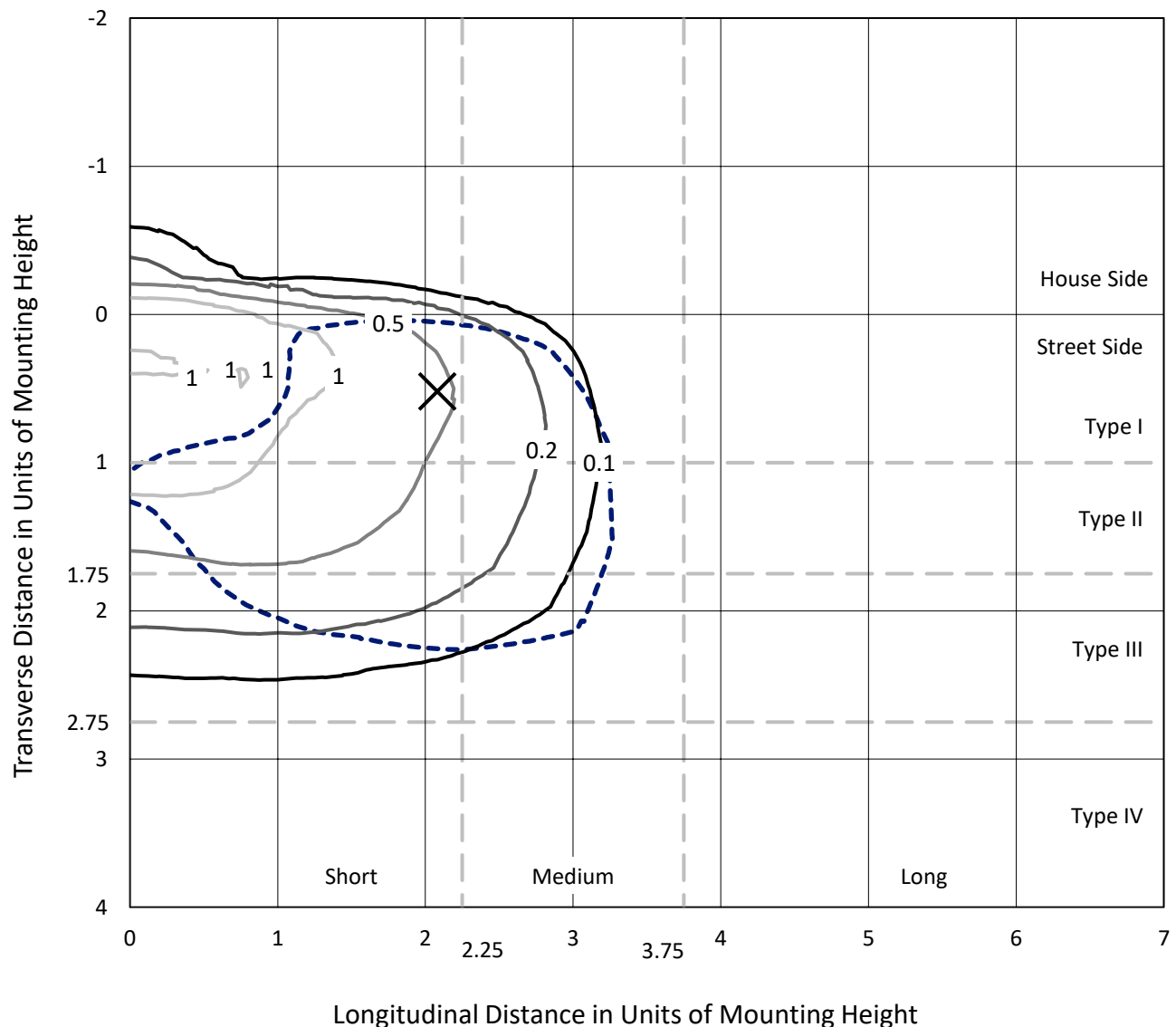


REPORT NUMBER: P451315

CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

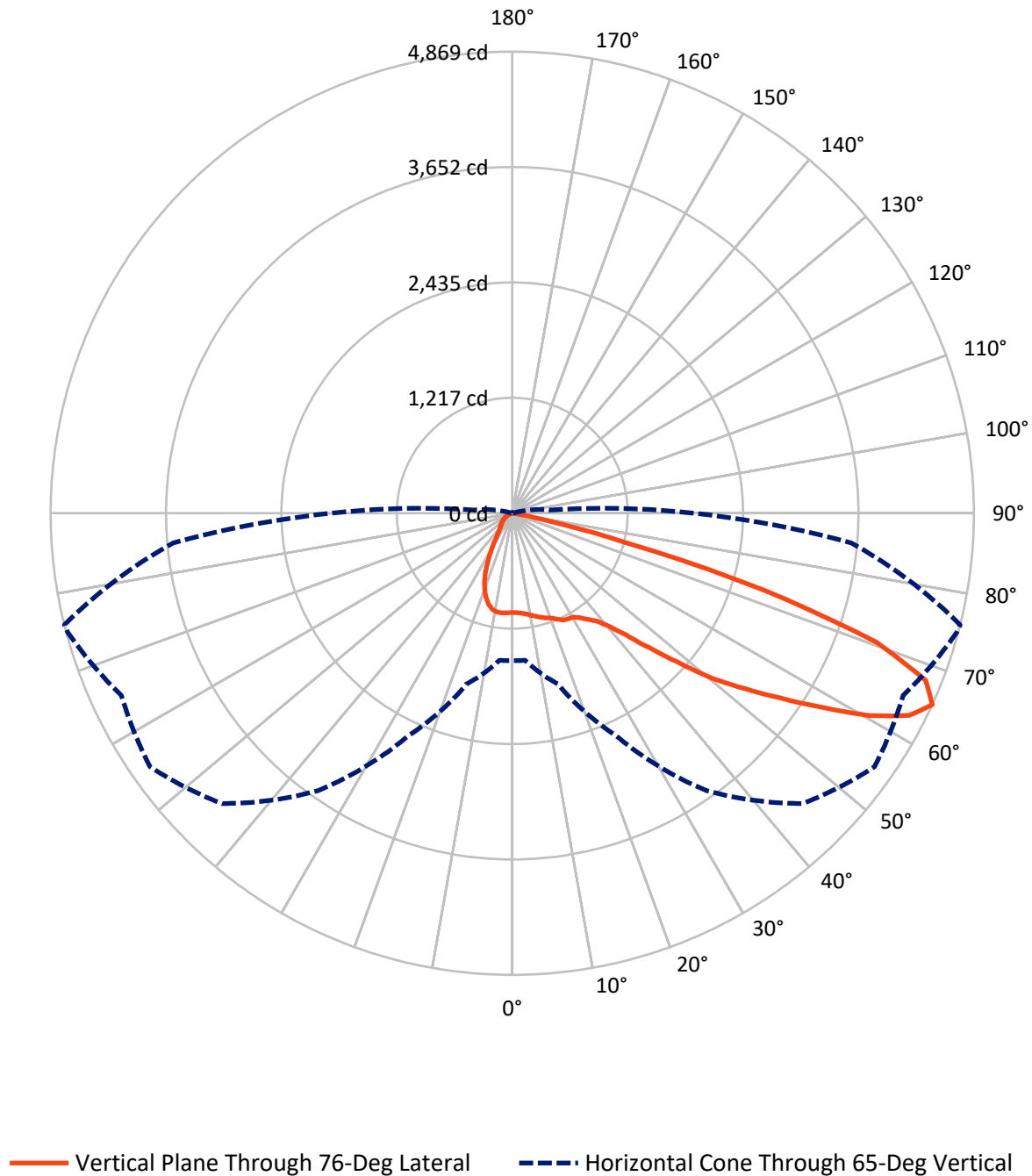


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

REPORT NUMBER: P451315

CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451315

CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

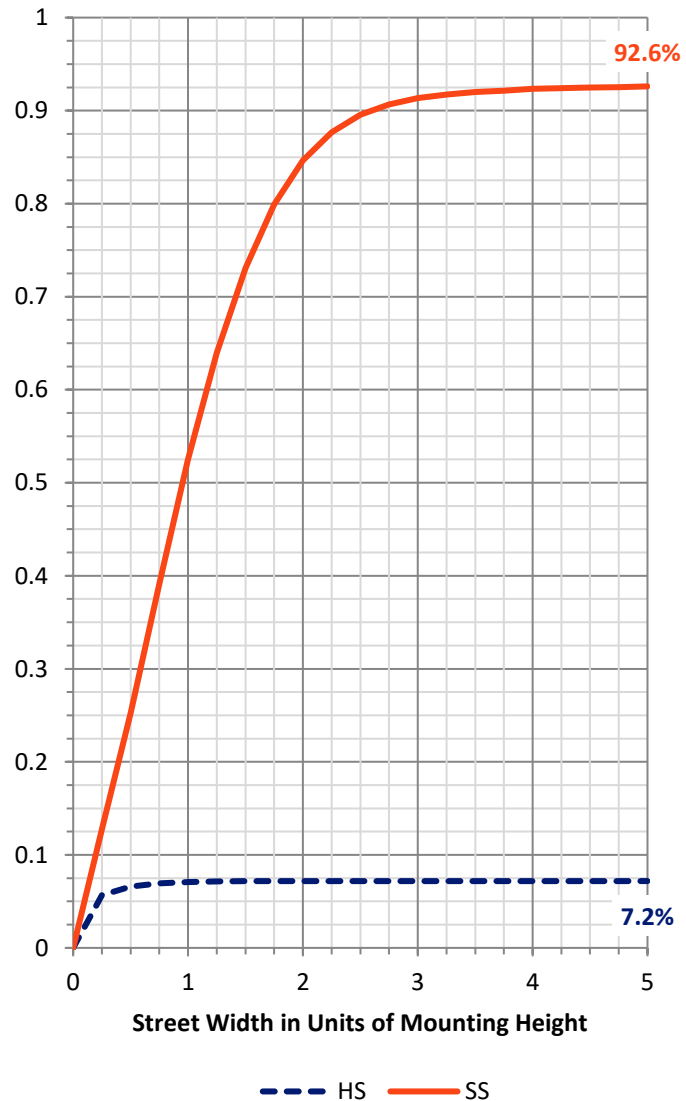
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.2	0.0	413.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5308.8	0.0	5308.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	5722.0	0.0	5722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.5
10°-20°	192.0	3.4
20°-30°	309.4	5.4
30°-40°	537.9	9.4
40°-50°	888.9	15.5
50°-60°	1373.2	24.0
60°-70°	1676.8	29.3
70°-80°	636.4	11.1
80°-90°	21.2	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°	5722.0	100.0
0°-180°	5722.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451315

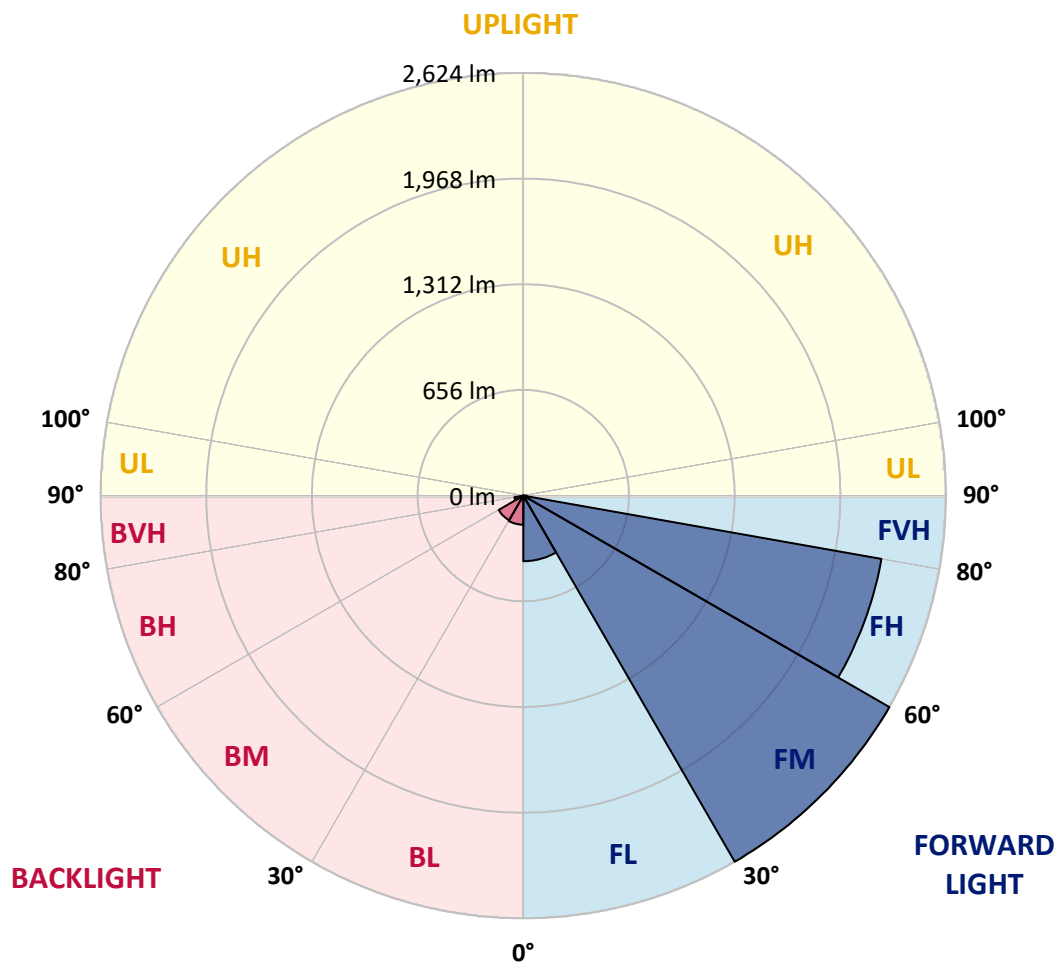
CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.1	7.1			
FM	(30°-60°)	2623.6	45.9			
FH	(60°-80°)	2257.1	39.4			G2/5000
FVH	(80°-90°)	20.9	0.4			G1/100
BL	(0°-30°)	180.5	3.2	B1/500		
BM	(30°-60°)	176.4	3.1	B0/220		
BH	(60°-80°)	56.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	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 III Short



REPORT NUMBER: P451315

CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1000.3	1000.7	1003.1	1009.2	1018.5	1026.1	1032.6	1043.1	1050.4	1051.2	1053.6
5°	931.2	926.3	931.2	947.0	961.1	982.5	1008.8	1035.0	1058.5	1060.1	1071.4
7.5°	853.6	857.7	865.3	881.5	908.2	940.9	978.9	1025.7	1070.2	1074.2	1096.4
10°	774.9	783.7	796.3	820.9	858.1	900.5	952.2	1019.3	1088.8	1094.4	1132.8
12.5°	702.1	706.2	721.5	754.7	800.7	860.5	932.0	1015.6	1109.4	1116.2	1171.6
15°	646.4	651.6	665.0	694.9	746.2	822.9	915.4	1014.4	1129.6	1139.2	1210.4
17.5°	635.9	639.1	644.8	665.0	709.8	793.0	900.5	1014.0	1148.9	1160.7	1246.3
20°	679.1	676.3	670.6	668.6	693.2	770.0	889.6	1017.2	1167.5	1180.9	1284.3
22.5°	787.4	791.0	757.9	718.7	710.6	766.4	888.0	1032.6	1197.0	1212.8	1326.7
25°	1017.2	989.4	937.7	843.9	773.2	788.6	906.1	1069.0	1231.4	1248.7	1365.1
27.5°	1271.4	1262.9	1182.5	1028.2	896.5	835.4	938.5	1096.8	1242.7	1260.4	1386.9
30°	1521.0	1531.1	1439.0	1268.5	1075.4	922.3	968.8	1107.3	1252.8	1271.4	1414.8
32.5°	1752.5	1764.6	1683.8	1515.0	1286.3	1072.6	1020.9	1148.1	1295.2	1314.2	1461.2
35°	1934.7	1936.3	1875.3	1740.8	1516.6	1255.2	1133.6	1219.6	1352.6	1374.8	1510.5
37.5°	2102.0	2099.5	2028.0	1912.1	1708.5	1436.6	1275.4	1302.1	1418.0	1441.0	1581.6
40°	2226.0	2227.6	2204.6	2095.5	1887.4	1604.2	1387.7	1379.2	1527.9	1563.8	1685.0
42.5°	2308.8	2323.7	2335.1	2279.7	2112.5	1810.7	1560.2	1544.5	1718.6	1748.5	1831.3
45°	2375.9	2402.5	2459.1	2456.3	2328.6	2064.0	1796.9	1764.6	1988.8	2020.8	2017.5
47.5°	2424.7	2451.8	2545.5	2602.1	2531.8	2309.6	2094.7	2066.8	2311.6	2346.4	2223.2
50°	2449.8	2482.1	2601.7	2711.2	2690.6	2546.3	2434.0	2435.7	2701.5	2735.0	2461.5
52.5°	2391.2	2433.2	2631.6	2828.7	2868.7	2773.0	2752.0	2805.3	3048.5	3077.2	2676.8
55°	2204.2	2257.1	2590.8	2928.9	3075.2	3040.4	3113.1	3194.3	3427.8	3446.4	2897.8
57.5°	2085.8	2142.0	2470.4	3014.2	3323.2	3376.5	3491.7	3551.1	3819.3	3866.6	3151.5
60°	1986.0	2030.0	2371.4	3032.3	3575.3	3787.8	3899.7	3961.1	4302.5	4333.2	3430.7
62.5°	1820.0	1870.5	2204.2	2905.5	3702.2	4117.1	4348.9	4321.5	4676.2	4697.6	3602.0
65°	1552.9	1557.4	1864.8	2586.7	3571.3	4330.8	4664.5	4549.3	4854.7	4869.3	3588.6
67.5°	1159.0	1201.9	1434.6	2033.3	3016.6	4148.2	4766.7	4555.4	4742.0	4701.6	3303.8
70°	746.6	779.3	972.4	1409.9	2175.1	3461.8	4427.7	4243.1	4161.9	4072.2	2704.3
72.5°	344.6	386.6	577.7	805.6	1289.9	2466.0	3594.3	3447.2	2995.6	2774.2	1719.0
75°	150.3	160.8	285.2	425.0	604.8	1304.1	2369.8	2139.9	1353.0	1235.8	688.0
77.5°	91.7	98.6	149.5	227.8	237.5	496.9	1276.6	933.6	418.1	368.8	186.6
80°	62.2	69.9	108.7	119.2	81.2	138.6	479.1	249.3	84.4	80.8	40.0
82.5°	30.3	38.4	80.4	66.7	35.1	44.4	139.4	53.3	24.6	23.0	14.1
85°	4.4	7.7	45.2	43.6	15.8	10.5	24.6	13.3	8.5	8.1	6.5
87.5°	0.0	0.0	15.4	6.9	1.6	1.6	2.8	2.8	3.2	2.8	3.2
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: P451315

CATALOG NUMBER: GALN-SA2A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1054.8	1056.8	1049.2	1038.3	1026.5	1014.8	998.3	983.3	974.4	979.7	966.7
5°	1073.8	1072.2	1052.0	1018.9	974.8	921.9	869.4	824.5	810.0	788.2	785.8
7.5°	1100.1	1095.6	1052.8	976.8	877.5	778.1	681.1	616.9	580.1	549.0	549.8
10°	1136.8	1123.9	1043.5	902.9	739.3	589.4	465.8	381.0	344.2	332.5	323.2
12.5°	1174.8	1149.8	1017.6	803.1	575.7	402.8	283.2	231.5	208.9	201.6	200.8
15°	1208.7	1169.1	972.4	683.1	418.5	257.3	193.1	176.1	173.3	173.7	173.3
17.5°	1242.3	1184.5	909.8	555.9	284.4	184.6	166.0	162.0	163.2	164.8	164.4
20°	1270.1	1187.7	829.8	424.2	201.2	162.0	155.9	155.1	156.3	157.6	157.6
22.5°	1300.4	1190.2	734.9	293.7	164.4	150.7	147.5	147.5	149.1	150.7	151.1
25°	1323.1	1176.8	621.3	210.9	145.0	139.8	138.2	138.6	140.2	141.0	140.6
27.5°	1326.7	1139.2	500.9	161.6	131.7	126.4	124.8	126.4	124.4	125.6	124.8
30°	1329.9	1091.6	378.9	136.1	119.6	111.5	109.1	106.7	105.0	103.0	102.6
32.5°	1340.0	1035.4	276.7	122.4	108.3	99.4	93.7	86.9	81.6	80.0	79.6
35°	1344.5	968.0	203.2	111.5	98.2	88.5	78.4	68.7	61.0	58.2	60.2
37.5°	1361.4	902.5	157.6	103.4	89.3	77.2	64.2	52.1	44.8	43.2	44.0
40°	1396.2	831.4	132.1	96.6	81.6	66.7	50.9	39.2	34.3	32.7	32.3
42.5°	1451.9	760.7	117.6	90.1	73.9	56.2	40.0	30.7	26.7	25.5	25.5
45°	1519.8	692.8	107.5	83.2	65.9	45.2	31.5	24.6	22.2	21.4	21.4
47.5°	1609.1	633.5	99.0	76.4	57.0	36.0	25.5	21.4	19.8	20.2	20.6
50°	1699.6	589.4	89.7	68.7	46.9	29.5	21.8	19.0	18.6	19.0	19.0
52.5°	1767.9	563.6	77.2	58.2	36.8	24.6	19.4	17.8	17.4	16.6	16.6
55°	1860.0	557.9	61.4	47.3	29.1	20.6	17.4	16.2	14.9	14.1	13.7
57.5°	1978.3	564.4	47.3	36.8	22.6	17.0	15.4	13.3	11.7	10.1	10.1
60°	2051.9	549.8	36.8	28.3	16.6	13.7	11.7	9.7	7.7	6.5	6.1
62.5°	2028.4	488.4	29.1	21.0	11.7	10.1	7.7	6.5	4.4	3.2	2.8
65°	1907.6	394.3	23.4	14.5	8.5	6.1	4.0	4.0	2.0	0.4	0.0
67.5°	1669.7	292.1	18.6	9.7	4.8	2.8	2.0	1.2	0.0	0.0	0.0
70°	1359.0	210.9	14.5	6.1	2.8	2.0	0.8	0.4	0.0	0.0	0.0
72.5°	862.9	120.8	11.3	3.6	2.0	0.8	0.0	0.0	0.0	0.0	0.0
75°	333.7	47.3	7.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	94.5	22.2	4.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.6	9.7	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.4	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)