

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: P452479

Luminaire Tested: **GALN-SA3B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9765 lumens
Efficiency: N/A
Efficacy: 80.7 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 (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



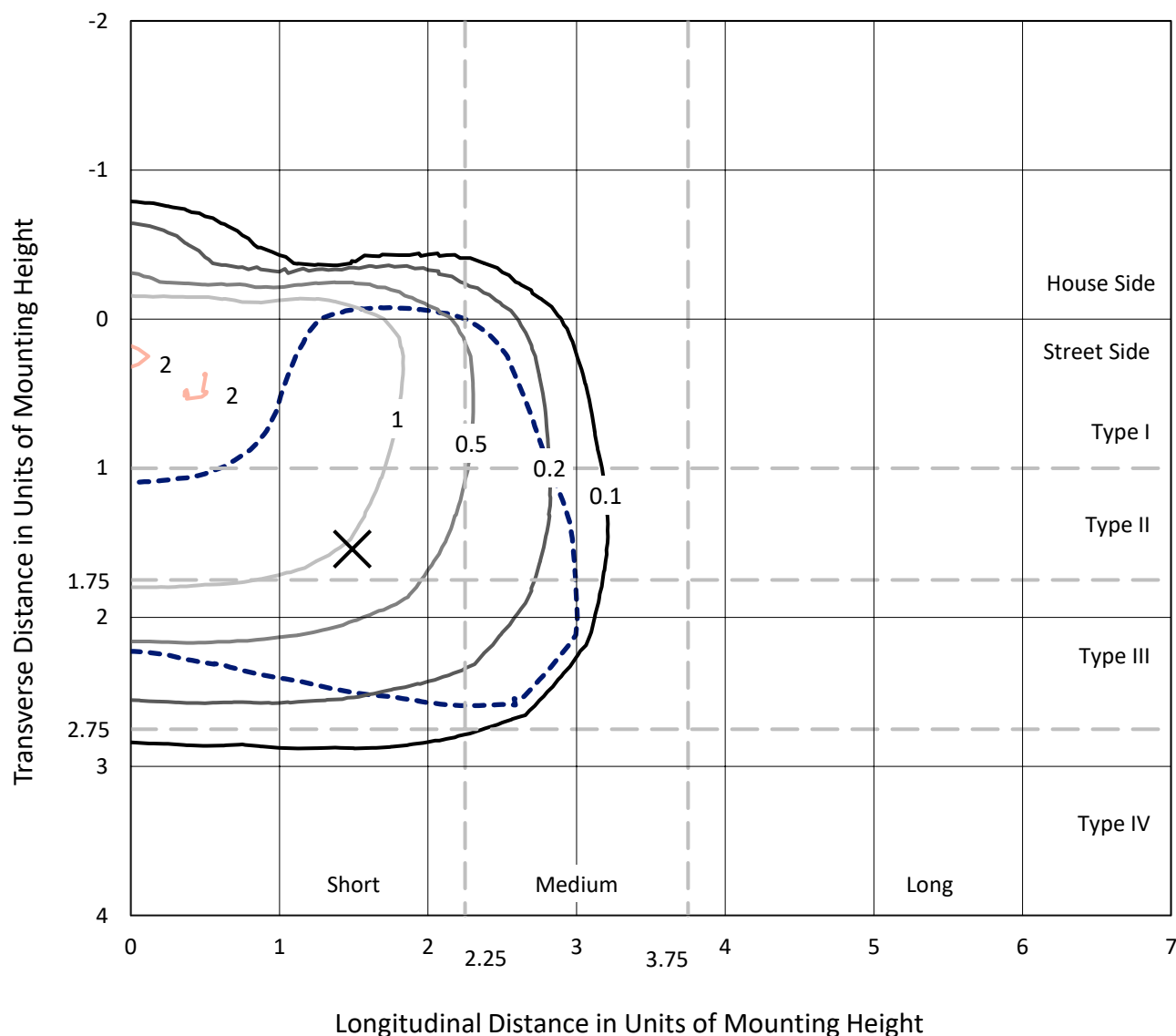
REPORT NUMBER: P452479

CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

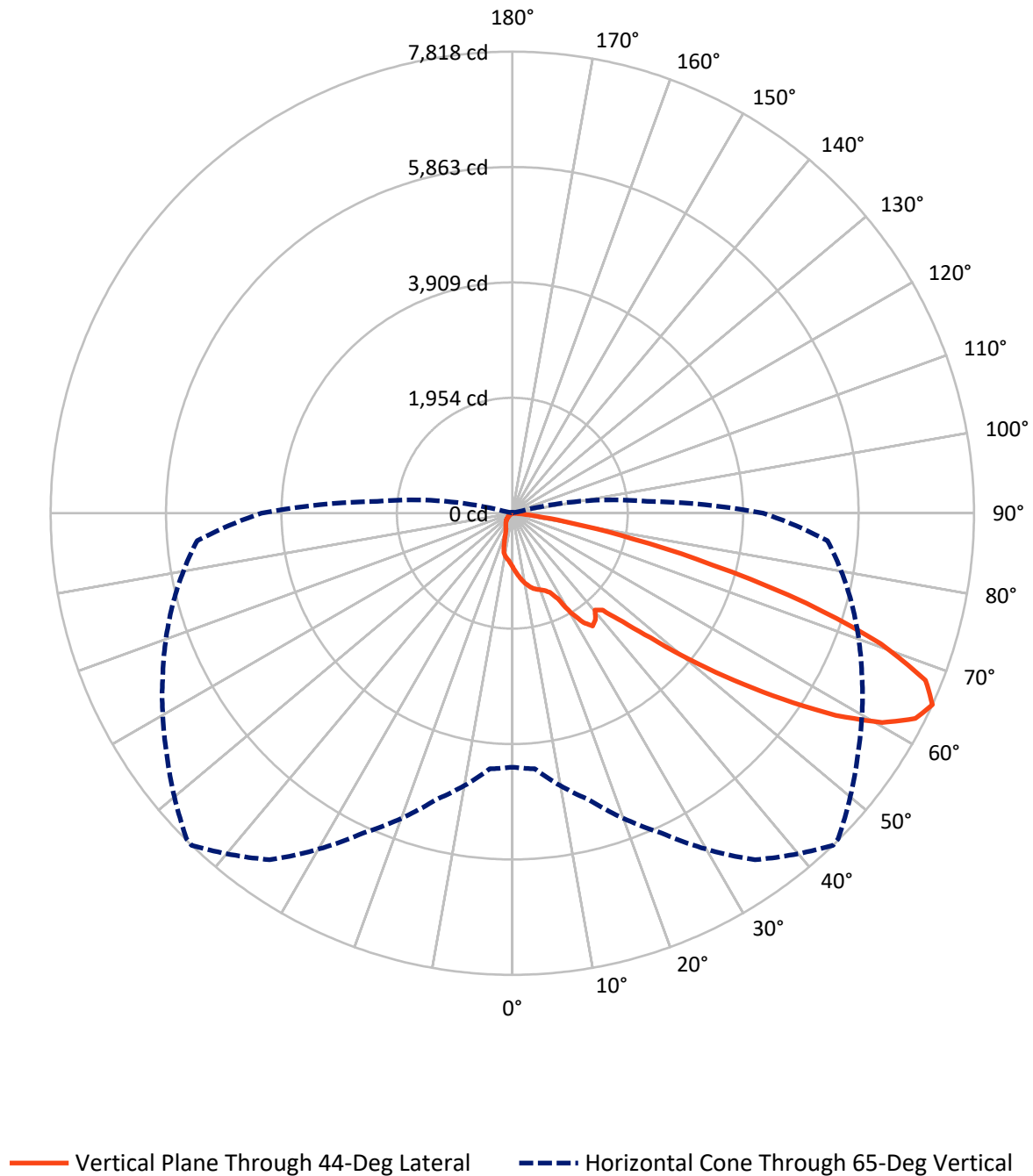
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P452479
CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452479

CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

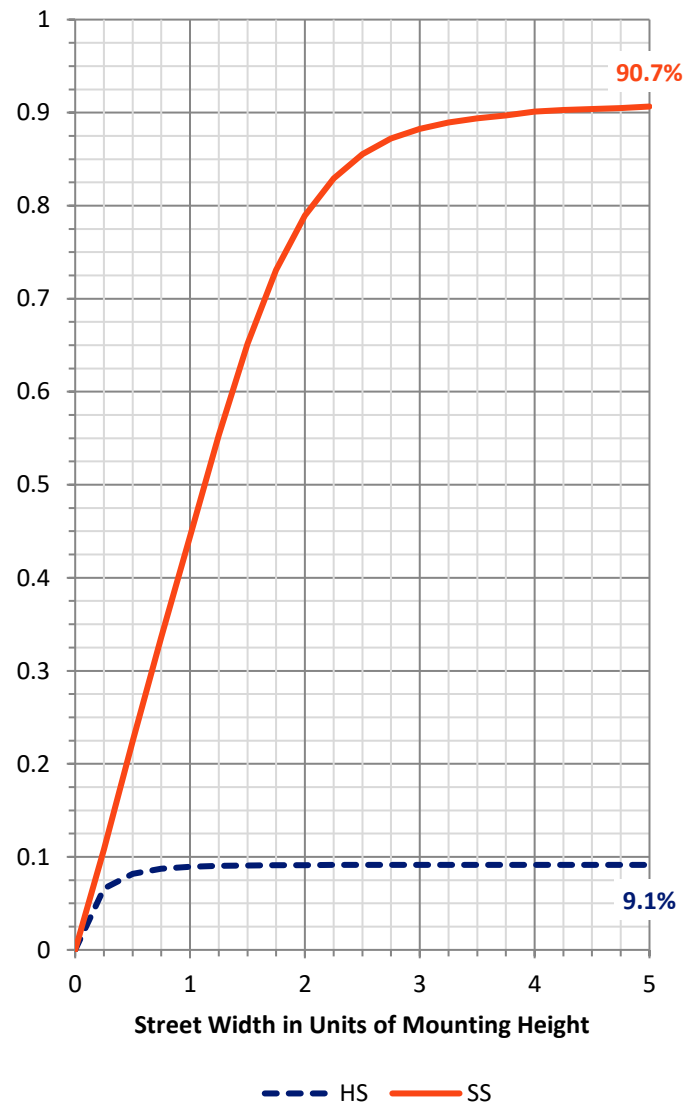
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.7	0.0	899.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8865.3	0.0	8865.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	9765.0	0.0	9765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	0.9
10°-20°	272.1	2.8
20°-30°	461.3	4.7
30°-40°	767.0	7.9
40°-50°	1339.2	13.7
50°-60°	2616.3	26.8
60°-70°	3035.5	31.1
70°-80°	1105.4	11.3
80°-90°	77.9	0.8
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°	9765.0	100.0
0°-180°	9765.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452479

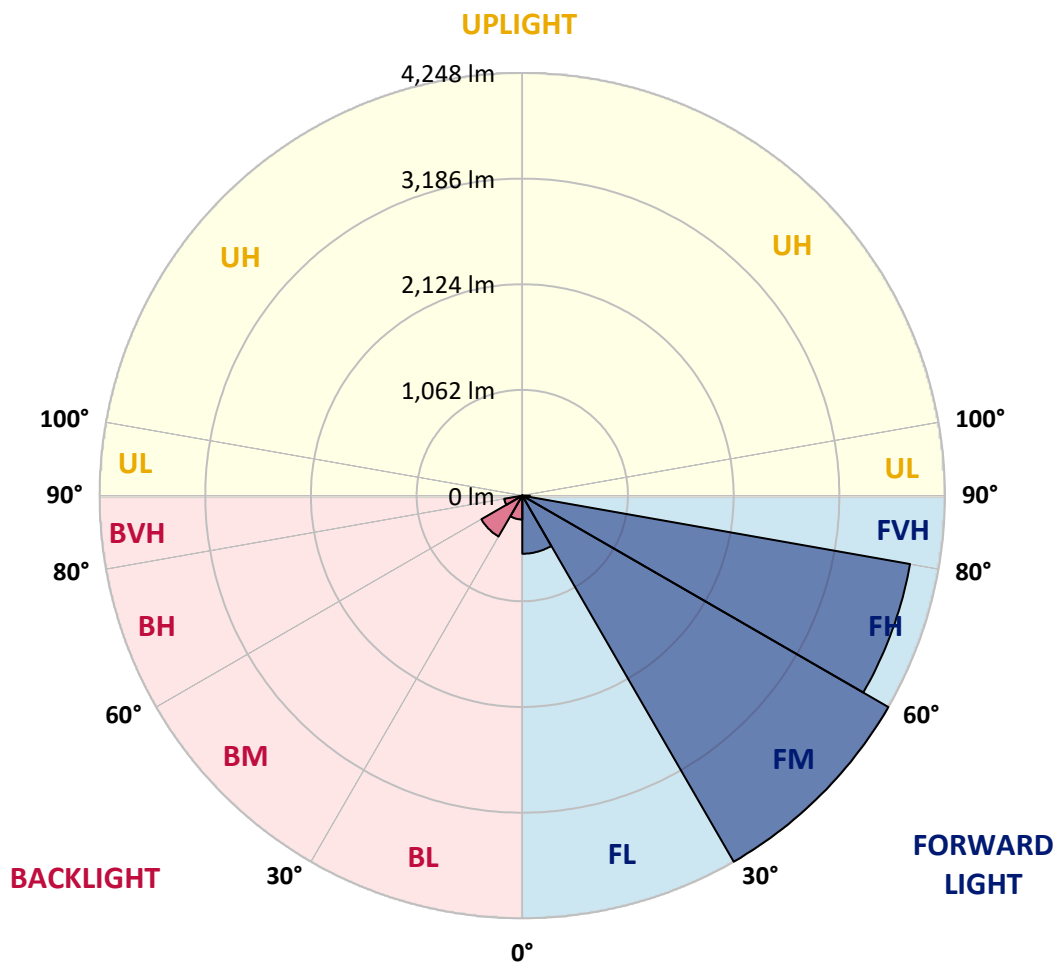
CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.0	6.0			
FM	(30°-60°)	4247.8	43.5			
FH	(60°-80°)	3956.7	40.5			G2/5000
FVH	(80°-90°)	76.8	0.8			G1/100
BL	(0°-30°)	239.7	2.5	B1/500		
BM	(30°-60°)	474.7	4.9	B1/1000		
BH	(60°-80°)	184.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.1	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: P452479

CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8
2.5°	1023.0	1018.5	1016.3	1004.3	995.4	984.2	984.2	970.0	953.6	935.7	919.3
5°	1137.2	1129.7	1120.0	1109.5	1088.7	1058.8	1058.8	1029.0	994.6	964.0	930.5
7.5°	1246.8	1240.1	1223.7	1203.6	1169.2	1137.9	1135.7	1092.4	1051.3	1005.1	957.3
10°	1343.1	1337.9	1323.7	1284.9	1249.1	1208.0	1207.3	1158.8	1111.0	1054.3	995.4
12.5°	1410.3	1411.0	1392.3	1355.0	1308.8	1270.0	1267.0	1219.2	1169.2	1108.1	1035.7
15°	1458.0	1458.0	1438.6	1396.8	1355.0	1320.7	1317.7	1275.9	1224.5	1158.0	1079.7
17.5°	1471.4	1475.9	1455.0	1417.7	1384.1	1354.3	1353.5	1318.5	1277.4	1213.3	1124.5
20°	1466.2	1470.7	1454.3	1425.2	1402.0	1384.9	1382.6	1368.5	1330.4	1270.0	1172.2
22.5°	1455.0	1459.5	1447.6	1430.4	1419.2	1424.4	1420.7	1432.6	1412.5	1339.4	1228.9
25°	1457.3	1461.7	1452.8	1443.1	1452.8	1484.9	1494.6	1546.1	1528.1	1427.4	1290.1
27.5°	1527.4	1536.4	1523.7	1528.1	1562.5	1637.1	1655.7	1744.5	1665.4	1539.3	1385.6
30°	1683.4	1677.4	1653.5	1675.1	1794.5	1952.7	1947.5	1933.3	1809.5	1668.4	1499.0
32.5°	1825.1	1819.9	1818.4	1911.7	2128.1	2204.9	2201.2	2063.9	1938.5	1816.2	1611.0
35°	1882.6	1862.4	1858.0	2084.0	2445.9	2344.5	2321.3	2117.6	2095.2	1977.3	1725.1
37.5°	2055.7	2041.5	1972.1	2112.4	2319.1	2285.5	2267.6	2210.1	2262.4	2119.9	1854.2
40°	2412.4	2372.8	2310.1	2172.8	2139.3	2153.4	2171.3	2328.8	2460.1	2314.6	2026.6
42.5°	2855.6	2846.6	2730.2	2474.3	2222.8	2242.2	2265.4	2576.5	2744.4	2607.9	2307.9
45°	3387.6	3400.3	3232.4	2930.2	2600.4	2616.8	2650.4	2942.1	3129.4	3063.8	2750.4
47.5°	3871.1	3861.4	3804.7	3490.6	3186.1	3149.6	3204.0	3411.5	3662.2	3672.6	3299.5
50°	4357.6	4409.1	4324.8	4201.7	3975.6	3898.7	3878.6	3980.0	4362.1	4312.1	3959.2
52.5°	5056.8	5083.6	4925.4	4894.1	4945.6	4696.4	4676.2	4700.8	5042.6	4871.0	4453.1
55°	5496.3	5480.6	5421.6	5666.4	5870.1	5558.9	5533.6	5434.3	5607.4	5265.7	4928.4
57.5°	5635.0	5657.4	5794.7	6237.2	6719.2	6455.1	6408.8	6126.8	6014.8	5633.6	5365.7
60°	5573.1	5614.2	5910.4	6568.5	7237.1	7197.5	7158.0	6684.2	6307.3	5941.0	5672.4
62.5°	5132.1	5189.6	5663.4	6509.6	7412.4	7659.4	7610.1	7031.9	6502.1	6090.2	5726.1
65°	4300.9	4343.4	5023.9	5974.6	7163.2	7817.6	7799.7	7140.8	6532.7	5953.7	5358.2
67.5°	3066.0	3210.8	3841.3	5035.1	6426.0	7547.5	7578.1	7010.2	6245.4	5363.4	4437.4
70°	1927.3	2025.8	2478.0	3604.7	5151.5	6621.5	6722.2	6412.6	5420.2	4180.8	2970.5
72.5°	919.3	992.4	1314.7	2281.8	3636.1	5209.7	5289.6	5264.2	4191.2	2634.0	1532.6
75°	409.6	437.3	627.5	1164.8	2347.4	3501.8	3708.4	3742.8	2619.0	1288.6	596.2
77.5°	208.9	209.7	294.0	564.1	1172.2	2089.3	2130.3	2250.4	1420.0	567.8	207.4
80°	111.2	118.6	155.9	266.4	608.1	1029.0	1023.7	1125.2	629.8	278.3	69.4
82.5°	50.0	55.2	88.0	139.5	297.0	390.2	420.8	460.4	270.1	177.6	30.6
85°	14.9	17.9	43.3	70.1	107.4	112.7	126.1	162.7	153.0	126.1	15.7
87.5°	2.2	2.2	17.9	19.4	15.7	20.1	20.9	23.1	49.2	46.3	8.2
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: P452479

CATALOG NUMBER: GALN-SA3B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8
2.5°	910.3	905.1	886.4	870.8	857.3	849.1	839.4	833.5	830.5	828.2	829.0
5°	914.1	901.4	869.3	843.9	824.5	803.6	789.4	781.2	777.5	771.5	771.5
7.5°	934.9	914.8	870.0	831.2	797.7	769.3	742.4	732.7	726.0	724.5	723.0
10°	964.8	939.4	878.2	824.5	776.8	738.0	699.9	666.3	640.2	624.5	622.3
12.5°	1002.1	965.5	890.9	820.0	758.9	690.2	589.5	521.6	476.1	461.9	464.1
15°	1036.4	996.9	903.6	816.3	726.0	572.3	458.1	380.5	357.4	355.2	355.9
17.5°	1077.5	1030.5	918.5	811.1	635.7	437.3	340.3	319.4	323.8	331.3	330.6
20°	1120.0	1066.3	936.4	779.7	507.4	329.1	300.7	302.9	309.7	316.4	317.9
22.5°	1165.5	1107.3	957.3	704.4	387.3	286.5	285.0	288.0	294.7	302.2	303.7
25°	1228.2	1158.8	973.0	605.9	293.2	264.9	267.9	273.1	279.1	287.3	288.8
27.5°	1308.8	1228.2	981.2	477.5	253.7	245.5	246.2	253.7	261.2	268.6	268.6
30°	1413.2	1311.0	964.8	361.1	234.3	226.8	223.8	228.3	238.0	245.5	246.2
32.5°	1506.5	1389.4	921.5	276.1	220.1	209.7	202.2	203.0	206.7	211.2	211.9
35°	1599.8	1465.5	847.6	232.1	205.2	193.3	182.1	176.1	173.1	170.9	173.1
37.5°	1719.2	1560.2	749.2	211.2	192.5	177.6	161.9	149.2	138.8	132.1	133.6
40°	1872.9	1691.6	632.7	197.7	180.6	162.7	141.8	125.4	107.4	101.5	98.5
42.5°	2126.6	1890.8	510.4	186.5	168.6	147.0	120.9	98.5	82.1	76.1	77.6
45°	2527.3	2142.2	393.2	174.6	156.7	129.8	101.5	77.6	64.2	61.2	62.7
47.5°	3058.5	2467.6	302.9	161.2	141.8	111.2	79.8	61.2	53.0	52.2	51.5
50°	3558.5	2770.5	253.0	146.2	123.9	92.5	65.7	51.5	46.3	45.5	45.5
52.5°	4010.6	2987.6	205.9	129.1	104.5	76.1	55.2	45.5	41.0	38.8	38.8
55°	4412.8	3129.4	167.1	108.2	82.1	60.4	47.8	41.0	35.8	32.8	32.1
57.5°	4716.5	3146.6	125.4	86.6	61.2	47.0	41.0	35.8	29.8	26.1	24.6
60°	4846.3	2998.1	92.5	65.7	45.5	37.3	32.8	29.1	22.4	18.7	17.9
62.5°	4715.8	2709.3	68.6	50.0	35.1	27.6	23.1	21.6	15.7	11.2	10.4
65°	4247.9	2292.2	54.5	38.1	26.1	20.1	14.9	14.2	9.7	5.2	4.5
67.5°	3403.3	1795.3	43.3	28.4	18.7	13.4	9.7	9.0	5.2	1.5	1.5
70°	2213.1	1147.6	35.1	20.9	11.9	9.0	6.0	4.5	3.0	0.7	0.0
72.5°	1094.6	536.5	28.4	16.4	8.2	4.5	2.2	1.5	2.2	0.0	0.0
75°	424.6	191.0	20.9	11.2	4.5	2.2	1.5	0.0	0.7	0.0	0.0
77.5°	141.0	63.4	12.7	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	52.2	24.6	6.7	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	9.7	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	6.0	3.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.5	3.0	2.2	1.5	0.7	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)