

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: P450831

Luminaire Tested: **GALN-SA1C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450831
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-SA1C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4631 lumens
Efficiency: N/A
Efficacy: 81.2 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

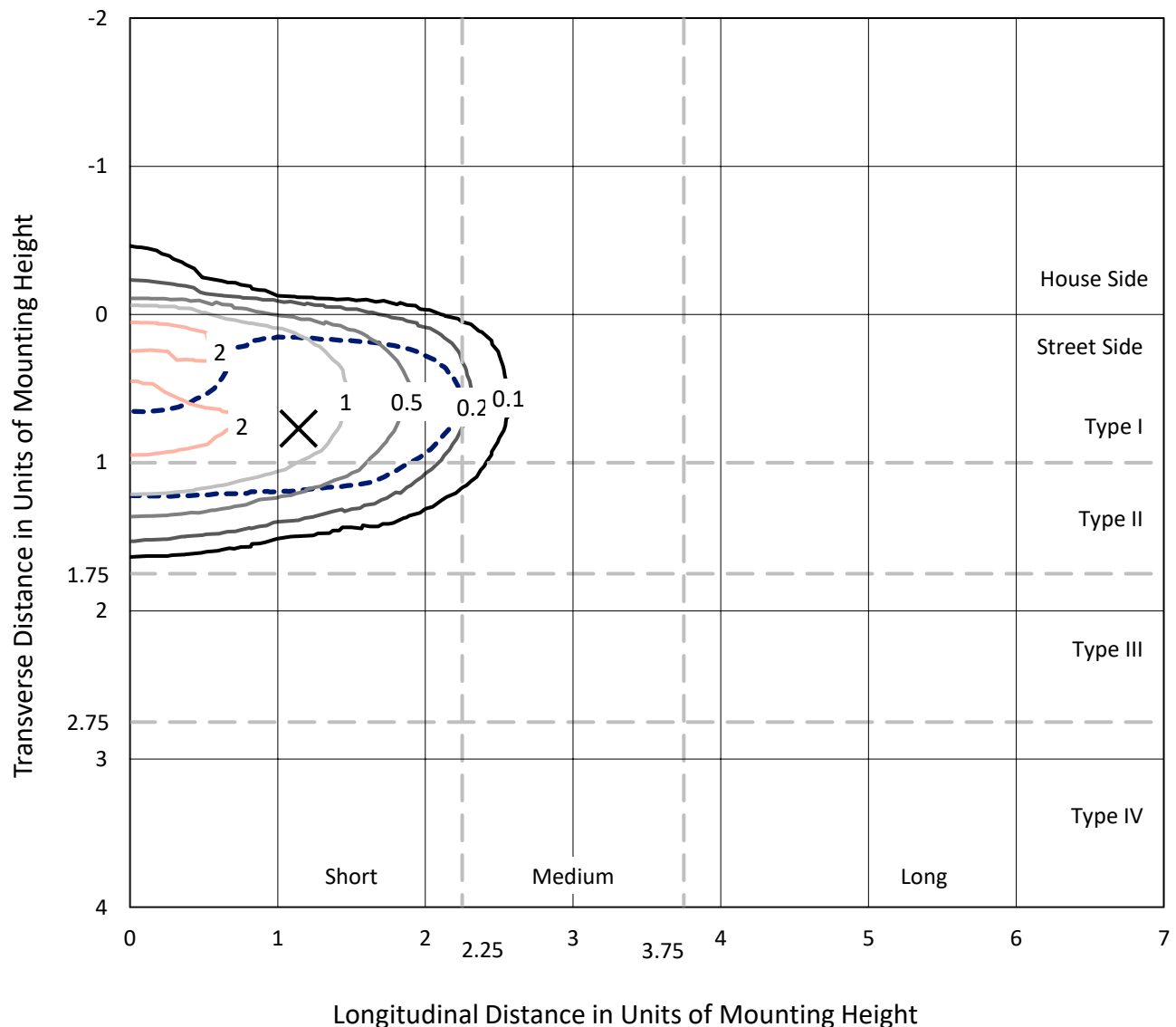
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450831
 CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

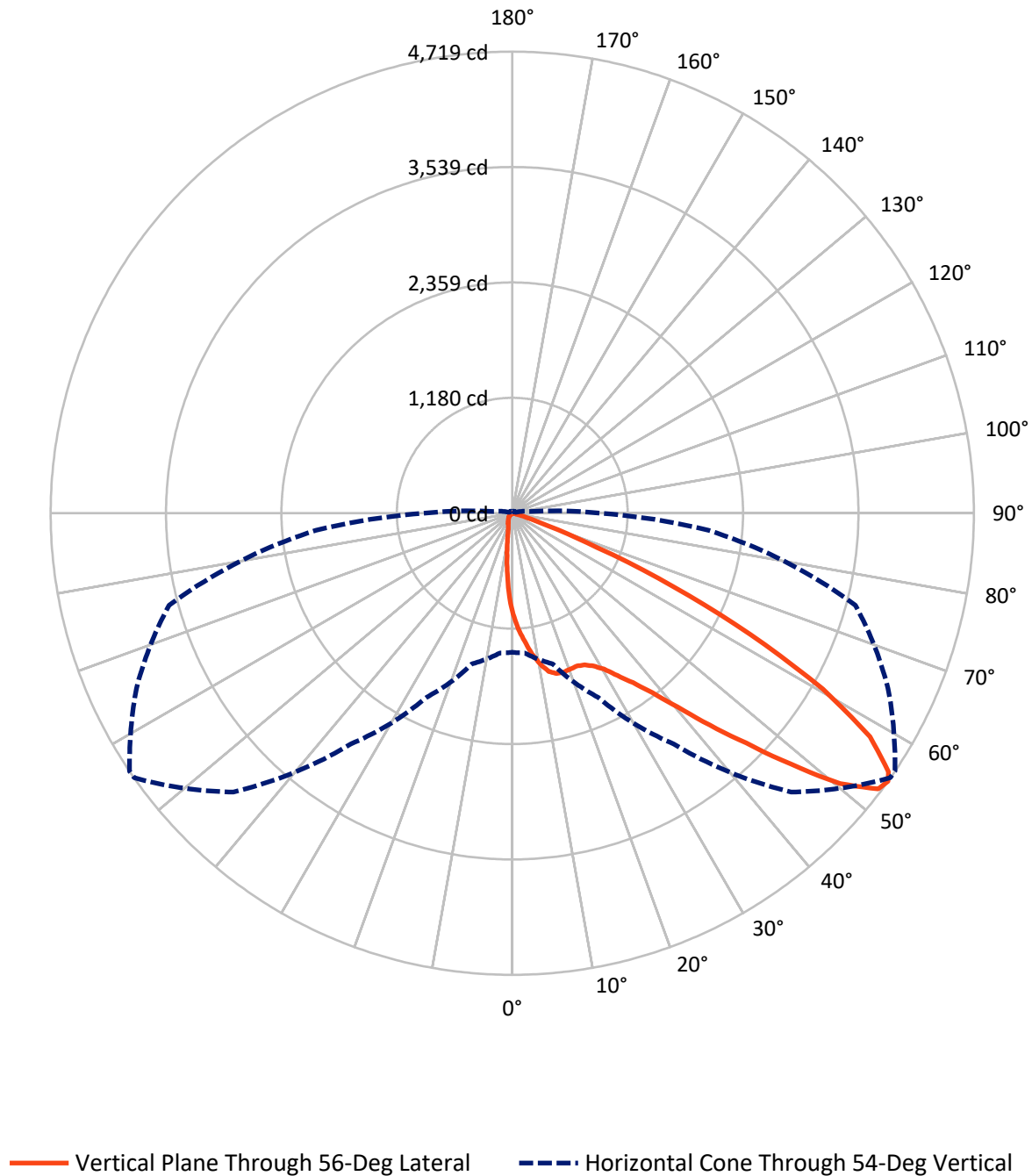
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P450831
CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450831

CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

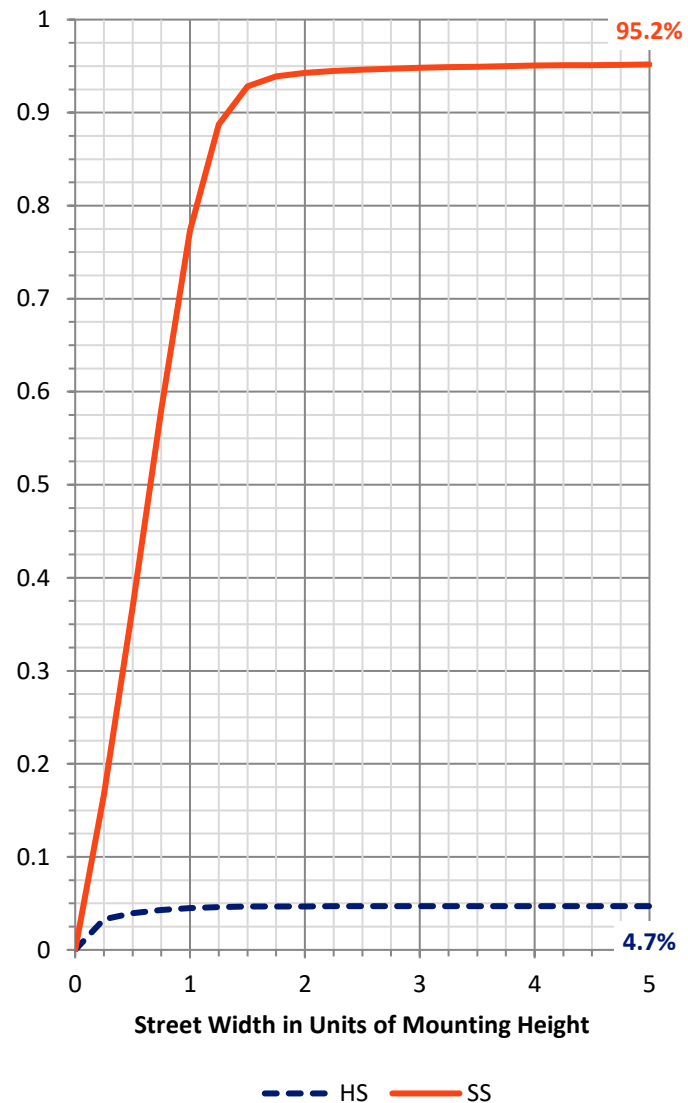
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	219.0	0.0	219.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4412.0	0.0	4412.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	4631.0	0.0	4631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	2.0
10°-20°	245.8	5.3
20°-30°	425.7	9.2
30°-40°	734.8	15.9
40°-50°	1250.6	27.0
50°-60°	1237.6	26.7
60°-70°	564.9	12.2
70°-80°	72.5	1.6
80°-90°	8.2	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°	4631.0	100.0
0°-180°	4631.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450831

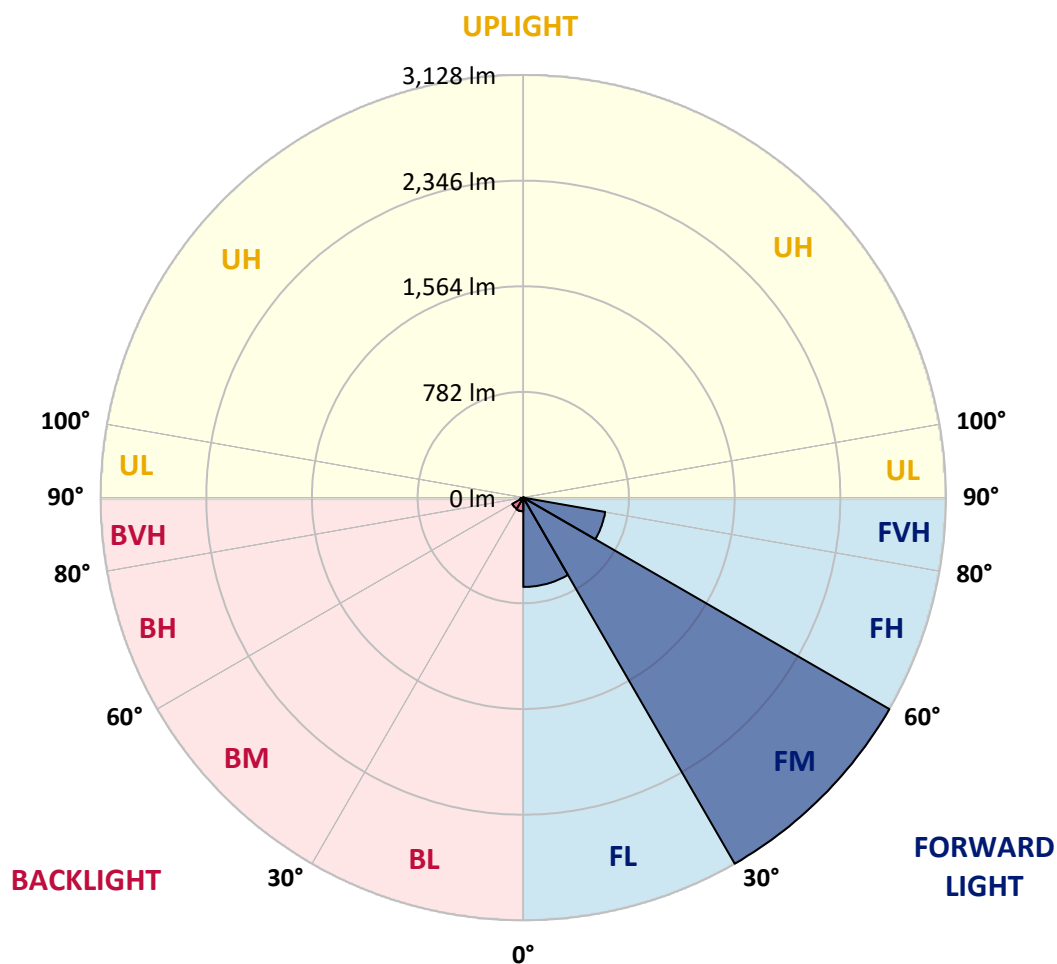
CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.1	14.3			
FM	(30°-60°)	3128.1	67.5			
FH	(60°-80°)	615.5	13.3			G0/660
FVH	(80°-90°)	7.3	0.2			G0/10
BL	(0°-30°)	101.3	2.2	B0/110		
BM	(30°-60°)	94.9	2.0	B0/220		
BH	(60°-80°)	21.9	0.5	B0/110		G0/110
BVH	(80°-90°)	0.9	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: P450831

CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9
2.5°	1307.6	1298.5	1286.0	1276.3	1253.5	1220.7	1186.0	1186.0	1152.6	1106.0	1058.6
5°	1508.2	1502.2	1490.0	1465.0	1439.4	1393.5	1323.8	1311.6	1252.0	1167.6	1078.9
7.5°	1589.7	1592.5	1593.1	1586.6	1574.4	1529.1	1460.0	1451.6	1356.3	1243.2	1105.4
10°	1511.6	1525.3	1538.8	1566.0	1604.4	1615.3	1576.3	1567.5	1473.8	1319.8	1134.2
12.5°	1395.4	1402.9	1410.4	1453.2	1530.3	1618.8	1659.7	1659.4	1580.0	1396.0	1170.7
15°	1341.3	1347.9	1348.5	1367.6	1434.4	1563.2	1695.3	1700.0	1683.8	1490.0	1210.1
17.5°	1352.6	1357.9	1353.5	1358.2	1393.2	1501.9	1691.3	1706.9	1767.8	1580.3	1245.7
20°	1426.0	1436.3	1419.4	1406.3	1416.9	1485.7	1677.5	1699.4	1827.2	1668.4	1278.2
22.5°	1557.8	1563.5	1542.2	1506.3	1487.5	1519.7	1673.8	1695.3	1877.8	1740.6	1297.0
25°	1704.4	1702.5	1679.1	1638.8	1599.4	1588.5	1698.4	1717.8	1919.7	1805.6	1302.6
27.5°	1850.9	1856.5	1817.2	1767.2	1720.0	1691.6	1753.7	1768.1	1966.8	1879.7	1309.4
30°	2021.2	2012.1	1973.4	1916.2	1862.2	1822.5	1842.8	1846.9	2031.8	1977.8	1327.6
32.5°	2242.7	2217.7	2174.3	2074.3	2035.6	1968.4	1973.4	1978.4	2110.9	2074.9	1349.4
35°	2543.3	2542.0	2457.1	2322.4	2228.0	2144.6	2122.7	2126.8	2230.5	2219.3	1397.9
37.5°	2905.1	2910.1	2813.2	2677.6	2503.9	2371.4	2326.5	2327.1	2412.4	2418.6	1471.6
40°	3199.7	3212.9	3155.1	3063.5	2892.0	2684.8	2609.2	2602.3	2668.0	2660.1	1576.9
42.5°	3326.6	3338.8	3360.3	3392.2	3297.8	3126.9	2948.5	2957.9	2977.9	2923.2	1695.0
45°	3264.4	3283.8	3368.4	3565.3	3654.0	3596.5	3383.8	3351.0	3266.3	3209.1	1813.7
47.5°	3005.4	3052.6	3194.1	3521.9	3832.4	4026.8	3874.9	3831.5	3555.0	3417.8	1889.3
50°	2579.5	2582.3	2779.5	3198.5	3739.9	4298.3	4376.4	4343.9	3824.0	3535.0	1927.5
52.5°	1870.0	1931.5	2112.1	2597.3	3339.4	4257.0	4696.0	4682.6	4101.4	3595.0	1982.5
54°	1421.6	1433.5	1594.1	2075.6	2879.2	4030.5	4715.7	4718.8	4239.2	3631.2	2014.9
55°	1165.4	1137.0	1305.7	1768.1	2565.2	3830.2	4651.3	4666.3	4301.1	3650.0	2039.0
57.5°	552.4	552.7	681.8	932.6	1606.6	2974.1	4258.0	4311.1	4308.0	3682.1	2113.1
60°	279.6	281.5	309.9	430.5	793.6	1977.1	3520.6	3647.1	3976.5	3686.8	2137.4
62.5°	195.6	193.4	188.7	207.1	334.0	1004.8	2621.1	2731.1	3378.4	3508.4	2059.9
65°	167.5	162.8	149.7	146.8	168.7	400.2	1632.5	1811.9	2579.5	3037.9	1839.4
67.5°	143.1	141.2	129.4	122.2	119.4	174.3	842.3	936.7	1763.1	2183.7	1393.2
70°	121.5	120.6	113.4	104.4	96.5	104.4	312.4	387.1	982.6	1175.7	657.4
72.5°	98.7	99.7	100.9	89.4	81.2	74.0	133.4	155.3	411.2	420.2	230.0
75°	86.5	85.6	85.6	77.8	67.8	55.0	73.4	79.0	125.9	116.9	53.4
77.5°	60.9	58.7	68.7	64.1	56.6	39.1	41.9	44.4	52.2	44.7	25.0
80°	42.2	42.2	44.1	57.5	50.9	28.4	25.6	27.5	30.9	26.6	14.4
82.5°	23.7	24.4	28.7	30.6	29.7	19.1	16.9	17.2	20.6	18.1	9.1
85°	2.8	4.7	16.6	16.2	12.2	8.4	9.4	9.7	12.8	11.2	5.3
87.5°	0.3	0.6	3.4	4.4	3.1	3.4	3.4	3.4	4.4	5.0	3.7
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: P450831

CATALOG NUMBER: GALN-SA1C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9	1028.9
2.5°	1032.9	1009.2	952.6	887.0	845.2	777.0	719.6	678.0	667.7	647.7	653.6
5°	1031.7	982.3	867.0	745.2	615.2	518.3	446.2	389.3	364.3	347.7	336.2
7.5°	1032.3	955.1	770.2	576.1	420.9	325.9	259.0	224.3	201.2	191.5	192.8
10°	1034.2	924.5	657.7	426.8	284.0	210.6	169.7	153.1	145.3	144.0	143.7
12.5°	1038.6	891.1	550.2	316.8	198.7	153.1	137.5	131.9	129.4	129.4	128.4
15°	1043.2	854.2	460.9	235.6	153.1	131.5	124.4	121.5	120.0	120.0	119.7
17.5°	1043.2	811.7	377.4	182.8	131.9	120.9	115.3	111.5	110.3	110.3	110.0
20°	1036.7	762.4	303.4	147.2	119.7	110.9	105.3	101.2	99.7	99.0	98.7
22.5°	1013.9	696.4	241.5	126.5	109.7	102.2	95.0	90.3	89.0	88.4	88.7
25°	973.3	622.1	191.2	111.2	100.6	91.5	85.3	81.9	80.6	80.6	80.9
27.5°	931.4	544.3	151.5	99.7	89.7	81.5	76.5	74.4	74.0	75.0	75.3
30°	892.6	466.2	122.8	90.3	80.0	73.1	69.7	69.0	69.0	69.4	69.7
32.5°	849.5	397.7	102.8	82.2	72.2	66.2	64.4	64.4	65.0	65.0	65.6
35°	822.4	339.0	90.3	74.4	66.2	61.2	60.0	60.3	61.2	62.5	63.1
37.5°	807.7	292.1	82.2	68.1	60.6	57.2	55.9	56.6	58.7	60.9	61.2
40°	808.9	256.8	75.6	62.8	56.2	52.5	51.6	53.4	55.6	57.8	58.1
42.5°	822.7	230.6	69.4	56.6	52.5	47.2	46.9	48.7	49.7	51.9	52.2
45°	838.9	211.5	62.8	50.0	45.6	40.9	41.2	42.8	44.1	47.5	48.1
47.5°	843.9	198.4	55.3	42.5	37.5	35.9	36.2	37.2	39.7	42.8	43.1
50°	849.5	190.3	48.1	35.9	31.9	31.6	31.9	32.5	34.1	35.3	35.0
52.5°	873.6	190.0	42.2	31.2	27.2	27.8	28.1	27.8	26.6	24.7	24.1
54°	896.1	190.9	39.4	29.1	25.0	25.9	25.6	24.1	20.9	19.1	18.1
55°	914.2	191.8	37.8	27.5	23.7	24.1	24.4	21.2	17.2	15.3	14.7
57.5°	949.8	189.7	34.1	24.1	20.9	19.7	19.4	14.1	9.4	8.1	7.5
60°	932.0	171.2	30.9	20.6	17.8	15.9	13.1	7.8	4.7	3.4	3.4
62.5°	862.0	145.3	27.5	16.9	14.7	12.2	6.9	4.4	2.2	1.2	0.9
65°	771.1	122.2	24.7	13.4	11.6	7.8	3.7	2.8	0.9	0.0	0.0
67.5°	573.3	90.6	20.9	10.6	8.7	5.0	2.5	1.6	0.3	0.0	0.0
70°	265.6	55.3	17.8	8.1	6.2	3.7	1.9	0.9	0.0	0.0	0.0
72.5°	76.2	34.7	14.7	5.9	4.4	3.1	1.6	0.6	0.3	0.0	0.0
75°	26.6	27.8	10.9	4.4	3.4	2.2	1.2	0.6	0.3	0.0	0.0
77.5°	15.9	22.5	6.9	3.7	2.8	1.9	1.2	0.6	0.3	0.3	0.0
80°	9.1	15.0	4.4	3.1	2.5	1.6	0.9	0.6	0.3	0.3	0.0
82.5°	5.0	7.2	3.4	2.8	2.2	1.6	0.9	0.6	0.3	0.3	0.3
85°	4.1	3.7	2.8	2.5	1.9	1.2	0.9	0.3	0.0	0.0	0.0
87.5°	3.1	2.5	2.5	2.5	1.9	1.2	0.9	0.3	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)