

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: P451762

Luminaire Tested: **GALN-SA2C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9195 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

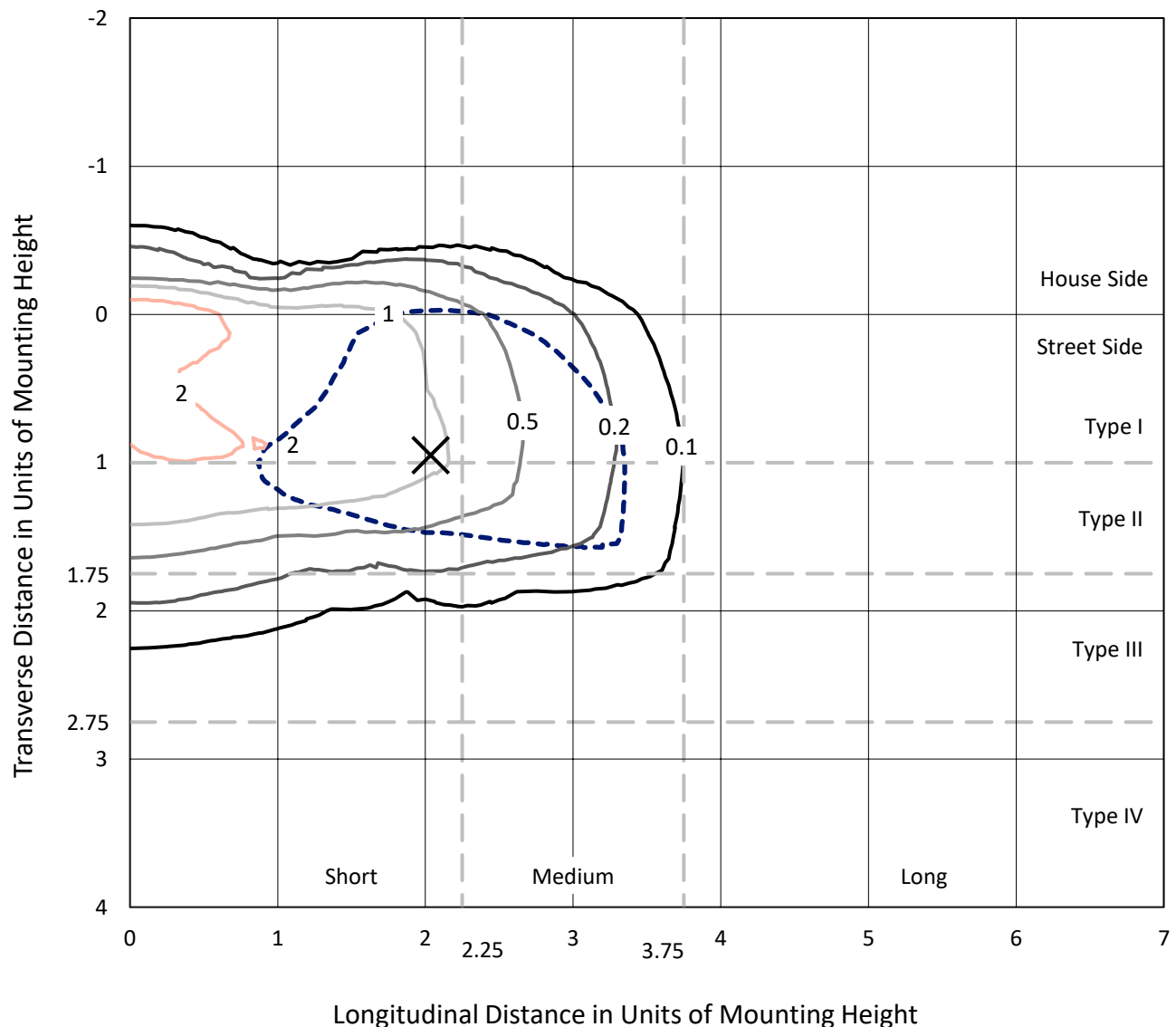


REPORT NUMBER: P451762

CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

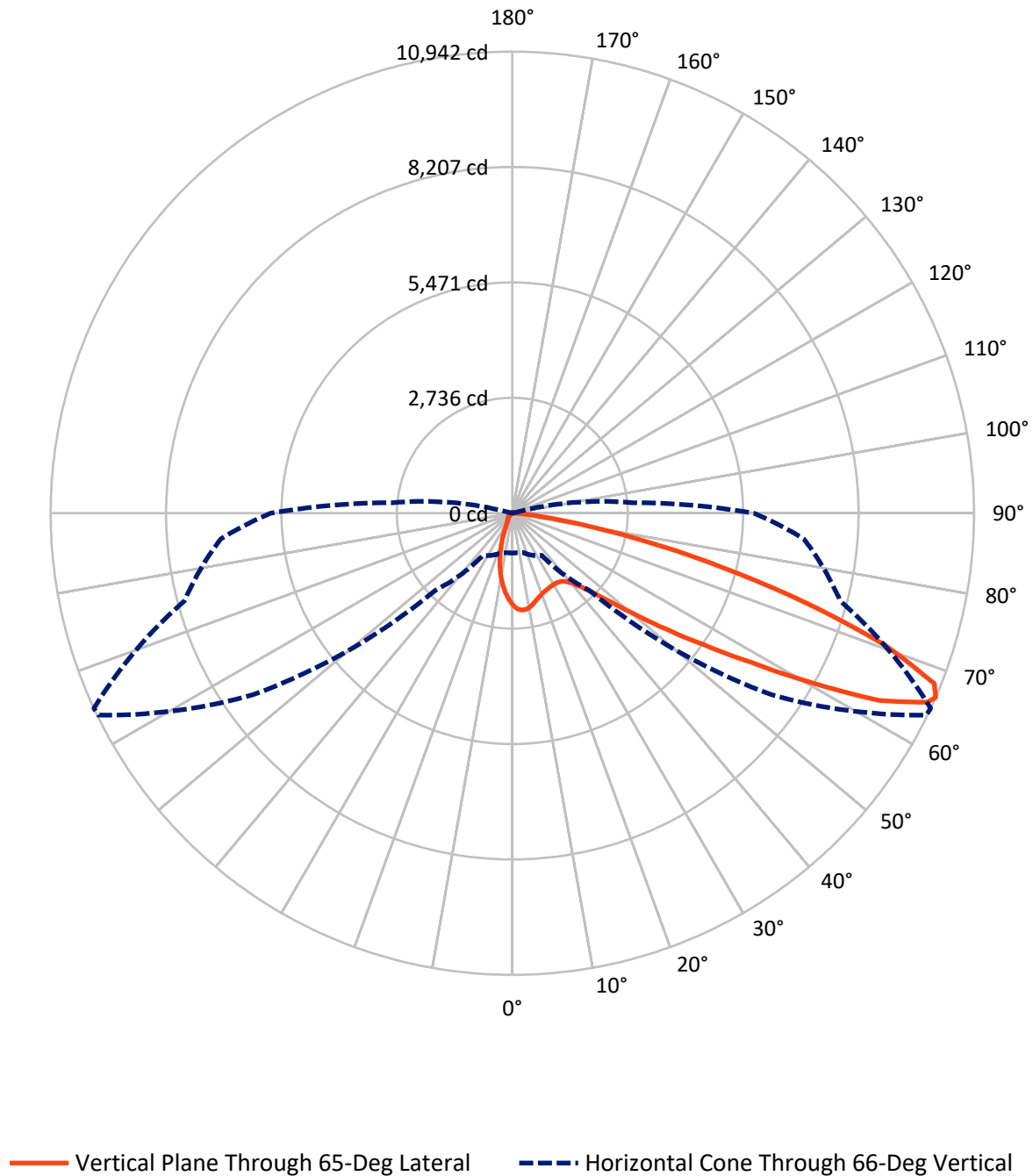
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P451762
CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451762

CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

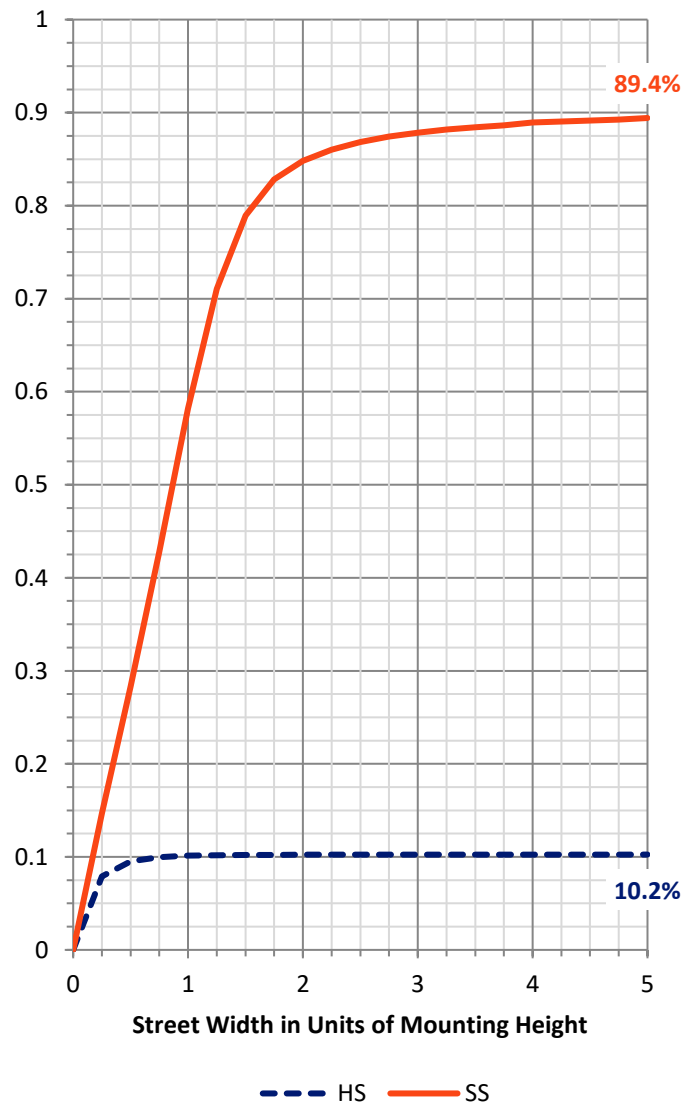
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.9	0.0	950.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8244.1	0.0	8244.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	9195.0	0.0	9195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	1.9
10°-20°	388.6	4.2
20°-30°	556.6	6.1
30°-40°	813.0	8.8
40°-50°	1363.2	14.8
50°-60°	2275.0	24.7
60°-70°	2414.8	26.3
70°-80°	1093.7	11.9
80°-90°	111.9	1.2
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°	9195.0	100.0
0°-180°	9195.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451762

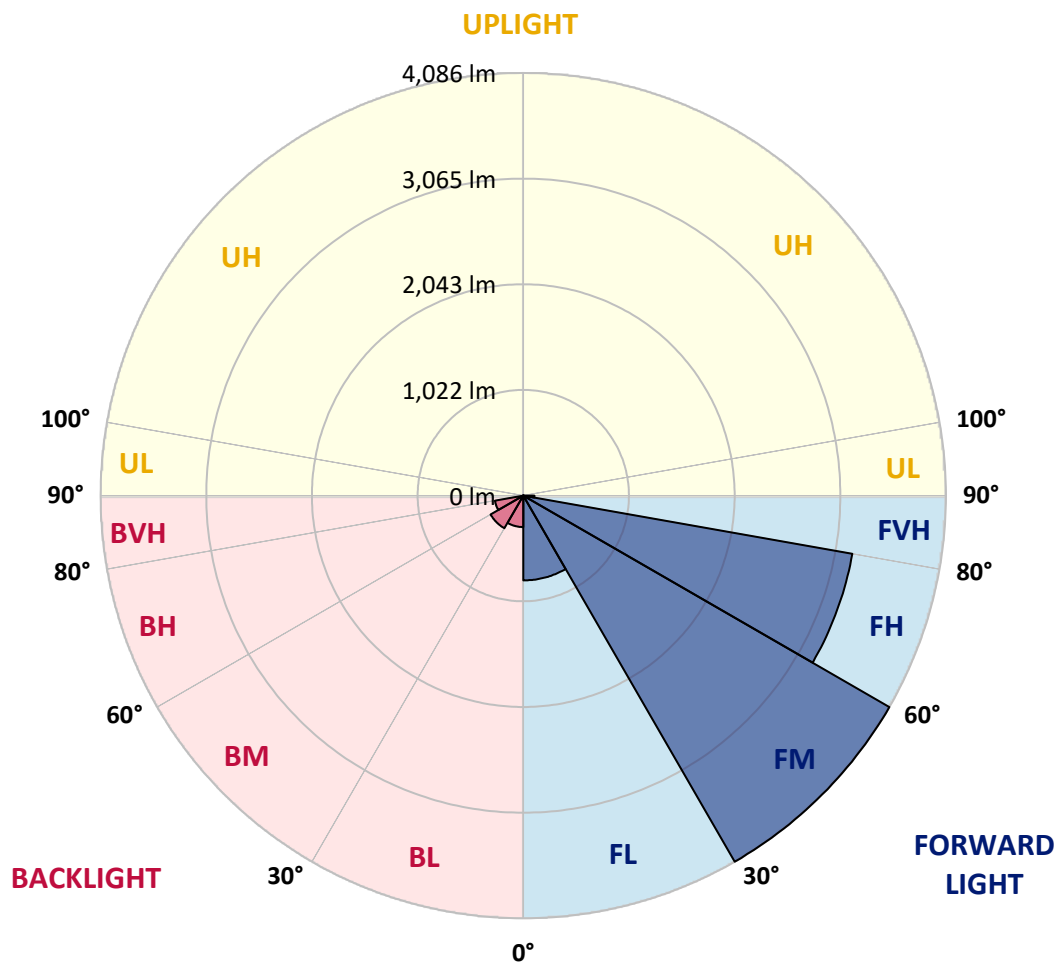
CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.3	8.9			
FM	(30°-60°)	4086.5	44.4			
FH	(60°-80°)	3230.0	35.1			G2/5000
FVH	(80°-90°)	108.3	1.2			G2/225
BL	(0°-30°)	304.2	3.3	B1/500		
BM	(30°-60°)	364.7	4.0	B1/1000		
BH	(60°-80°)	278.5	3.0	B1/500		G1/500
BVH	(80°-90°)	3.6	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 II Short





REPORT NUMBER: P451762

CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5
2.5°	2297.9	2300.3	2303.4	2307.8	2310.9	2301.6	2288.5	2273.6	2270.5	2238.9	2200.3
5°	2174.9	2178.6	2205.9	2220.8	2254.4	2284.8	2304.1	2306.5	2305.3	2275.5	2214.0
7.5°	1999.8	2010.3	2037.0	2063.1	2125.8	2183.6	2251.9	2299.7	2302.8	2294.7	2218.4
10°	1857.5	1864.4	1878.0	1929.6	1981.7	2069.9	2165.6	2255.6	2263.1	2295.4	2214.6
12.5°	1746.4	1756.3	1773.1	1812.8	1875.5	1958.8	2067.4	2188.5	2204.1	2283.6	2204.1
15°	1668.7	1673.7	1690.5	1729.6	1790.5	1867.5	1977.4	2118.4	2132.0	2268.0	2202.2
17.5°	1632.1	1637.7	1649.5	1680.5	1730.8	1802.3	1909.7	2061.9	2079.2	2258.1	2209.0
20°	1642.0	1647.0	1647.6	1663.8	1697.9	1758.2	1860.0	2009.1	2031.4	2251.9	2220.2
22.5°	1698.5	1699.2	1691.7	1684.3	1696.1	1739.5	1829.6	1975.5	1998.5	2250.7	2233.3
25°	1783.0	1784.9	1772.4	1746.4	1722.8	1745.1	1822.8	1953.8	1974.3	2247.5	2241.3
27.5°	1899.8	1899.1	1895.4	1851.9	1784.9	1770.0	1828.3	1942.0	1959.4	2238.9	2244.4
30°	2063.1	2058.1	2050.1	2001.0	1898.5	1830.2	1851.9	1934.5	1950.7	2226.4	2236.4
32.5°	2223.9	2242.6	2241.3	2194.8	2066.8	1937.6	1901.0	1944.5	1956.3	2218.4	2224.6
35°	2411.5	2410.9	2458.7	2441.3	2291.6	2074.9	1984.8	1977.4	1986.7	2223.9	2219.0
37.5°	2585.4	2601.5	2676.1	2694.1	2557.4	2268.7	2103.5	2048.2	2051.3	2261.8	2232.6
40°	2802.1	2833.2	2944.4	3004.6	2884.1	2556.2	2278.6	2178.0	2178.6	2355.0	2284.2
42.5°	3081.6	3130.7	3234.4	3335.0	3270.4	2896.5	2541.3	2383.6	2382.3	2518.9	2402.2
45°	3421.3	3455.5	3573.5	3733.1	3692.1	3371.6	2923.9	2702.1	2686.0	2787.9	2611.5
47.5°	3714.4	3761.0	3880.9	4062.8	4249.2	3951.7	3380.9	3140.0	3129.4	3215.7	2970.4
50°	3842.4	3883.4	4009.4	4264.7	4716.2	4713.1	4061.6	3779.0	3761.0	3807.6	3525.6
52.5°	3702.0	3740.5	3867.8	4185.8	4936.0	5640.9	5047.8	4580.8	4559.1	4499.4	4188.9
55°	3221.3	3253.0	3441.2	3806.4	4851.6	6259.5	6406.7	5571.4	5486.9	5255.2	4939.8
57.5°	2564.9	2548.8	2665.5	3089.7	4356.0	6466.9	7801.5	6805.4	6654.5	5908.6	5575.1
60°	1777.4	1827.1	1874.3	2153.8	3275.4	6107.3	8669.1	8356.7	8158.0	6551.4	6183.7
62.5°	1306.7	1339.6	1370.6	1499.8	2059.4	4876.4	8822.5	9950.3	9773.9	7233.9	6764.4
65°	1033.4	1035.9	1048.3	1175.6	1357.0	3171.0	8085.3	10849.0	10803.6	7890.9	6999.7
66°	941.5	942.1	961.4	1098.0	1217.9	2582.3	7494.7	10917.3	10942.1	8048.7	6930.8
67.5°	822.9	820.4	848.3	986.8	1109.2	1861.9	6437.7	10640.3	10787.5	8169.8	6683.0
70°	637.8	634.7	668.9	827.8	1021.6	1242.1	4279.0	9136.1	9373.4	7922.0	5912.9
72.5°	424.8	427.3	485.7	653.3	975.0	1093.7	2574.2	6950.1	7285.4	6542.0	4651.6
75°	247.8	252.1	318.6	485.7	846.5	1042.7	1457.0	4955.9	5170.2	4517.4	2897.8
77.5°	129.8	131.7	178.2	320.5	649.0	968.2	970.7	3166.1	3266.7	2195.4	1147.1
80°	68.9	67.1	95.6	193.1	446.5	850.2	787.5	1676.2	1742.6	652.1	290.0
82.5°	26.1	28.6	50.9	126.7	263.9	610.5	678.2	740.9	717.9	143.5	121.7
85°	5.0	6.2	21.7	75.1	132.9	255.2	499.9	363.3	336.6	54.0	70.2
87.5°	0.6	1.2	6.2	18.0	19.3	86.3	147.8	100.6	86.9	19.9	29.2
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: P451762

CATALOG NUMBER: GALN-SA2C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5	2180.5
2.5°	2181.7	2164.9	2109.1	2053.8	1997.3	1946.3	1911.6	1855.0	1840.8	1820.3	1808.5
5°	2177.4	2138.2	2030.8	1913.4	1804.1	1686.1	1596.1	1509.1	1462.6	1439.0	1430.3
7.5°	2164.9	2102.8	1935.2	1751.3	1576.2	1399.8	1246.4	1129.7	1054.5	1003.0	968.2
10°	2140.1	2054.4	1824.0	1571.2	1306.7	1073.8	879.4	731.6	617.3	581.3	582.5
12.5°	2114.6	2000.4	1699.8	1371.3	1043.3	749.6	543.4	426.7	372.0	354.0	350.3
15°	2091.0	1948.8	1578.1	1177.5	776.9	485.7	350.3	309.3	294.4	291.3	290.6
17.5°	2078.6	1901.0	1448.3	955.8	542.2	329.8	280.7	269.5	265.2	262.1	260.8
20°	2068.1	1859.4	1324.1	748.4	370.8	270.2	251.5	241.0	233.5	230.4	228.5
22.5°	2060.6	1816.5	1195.5	579.4	283.8	239.7	223.0	209.3	198.7	195.0	192.5
25°	2049.4	1769.3	1065.7	423.5	239.1	213.0	193.8	177.6	164.0	157.1	155.9
27.5°	2033.3	1715.9	923.5	313.6	213.6	189.4	165.8	145.9	132.3	124.8	125.5
30°	2007.2	1660.0	781.3	249.0	193.1	165.2	139.7	120.5	107.4	101.9	101.2
32.5°	1976.2	1592.3	650.9	213.6	174.5	143.5	116.8	100.0	90.1	85.7	85.1
35°	1947.0	1524.0	517.9	191.9	155.3	123.6	98.1	83.8	76.4	72.7	73.3
37.5°	1930.8	1463.2	403.7	174.5	139.7	106.2	84.5	72.0	65.2	62.1	61.5
40°	1941.4	1413.5	321.1	159.0	122.3	91.3	72.7	62.1	55.3	50.9	50.9
42.5°	1991.1	1391.8	259.0	144.1	106.2	78.9	63.3	53.4	46.0	41.6	42.2
45°	2142.6	1414.7	216.7	130.4	91.3	68.3	54.7	44.1	37.3	34.2	33.5
47.5°	2394.1	1501.1	187.6	116.1	78.3	58.4	46.0	36.6	29.8	27.3	26.7
50°	2833.8	1679.3	165.8	101.9	66.5	49.7	37.9	29.2	23.6	21.1	21.1
52.5°	3438.7	2068.1	150.3	85.7	55.9	42.2	31.1	23.6	18.6	16.8	16.1
55°	4070.9	2478.0	142.2	72.0	46.6	34.8	24.8	18.6	14.3	12.4	11.8
57.5°	4678.9	2799.7	132.9	58.4	37.3	26.7	19.3	14.3	9.9	8.7	8.1
60°	5262.1	3059.9	113.0	46.6	29.2	19.3	14.3	9.9	6.8	5.6	5.6
62.5°	5783.8	3211.4	88.8	37.3	22.4	13.7	9.3	7.5	5.0	3.7	3.7
65°	5844.6	3014.5	67.1	28.6	16.1	8.7	5.6	5.6	3.7	2.5	2.5
66°	5722.3	2847.5	59.0	26.1	14.3	7.5	5.0	4.3	3.1	1.9	1.9
67.5°	5449.0	2562.4	50.9	22.4	11.8	5.6	3.7	3.7	2.5	1.2	1.2
70°	4708.1	2092.9	40.4	16.8	8.7	4.3	2.5	2.5	1.9	1.2	1.2
72.5°	3588.4	1562.5	32.9	12.4	6.2	3.1	1.9	1.9	1.9	1.2	1.2
75°	2164.3	841.5	25.5	9.3	5.6	2.5	1.2	1.9	2.5	1.9	1.2
77.5°	797.4	286.3	19.9	7.5	4.3	2.5	1.2	1.2	2.5	1.9	1.9
80°	195.6	74.5	14.3	6.2	4.3	2.5	1.2	1.2	2.5	2.5	2.5
82.5°	90.7	31.7	9.9	5.6	4.3	2.5	1.2	1.2	1.9	2.5	2.5
85°	52.2	14.9	8.1	6.2	4.3	2.5	1.2	1.2	1.9	2.5	2.5
87.5°	21.1	7.5	7.5	6.2	5.0	3.1	1.2	1.2	1.2	1.9	1.9
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)