

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: P454103

Luminaire Tested: **GALN-SA5A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454103
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-SA5A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 13165 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 154
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



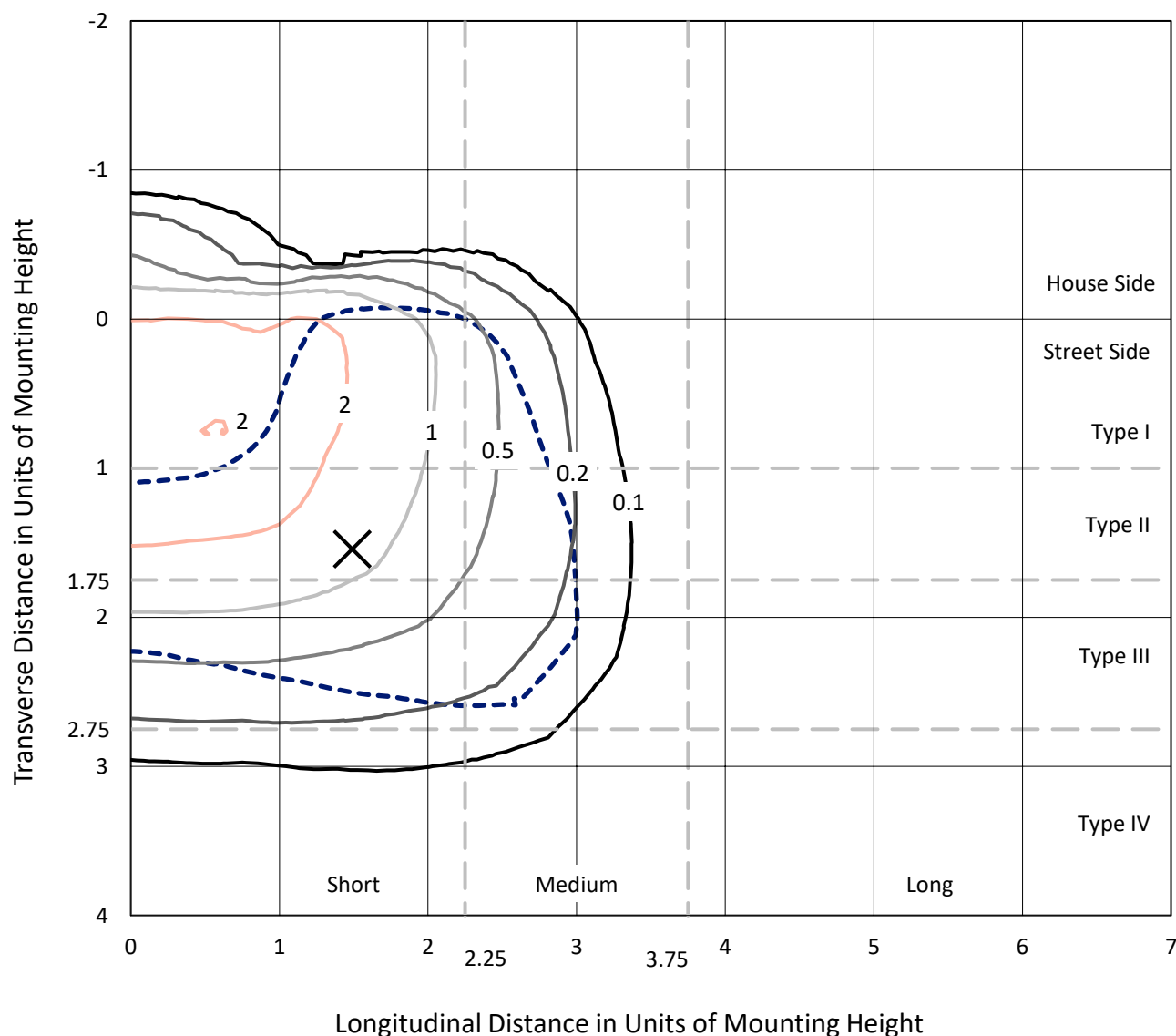
REPORT NUMBER: P454103

CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

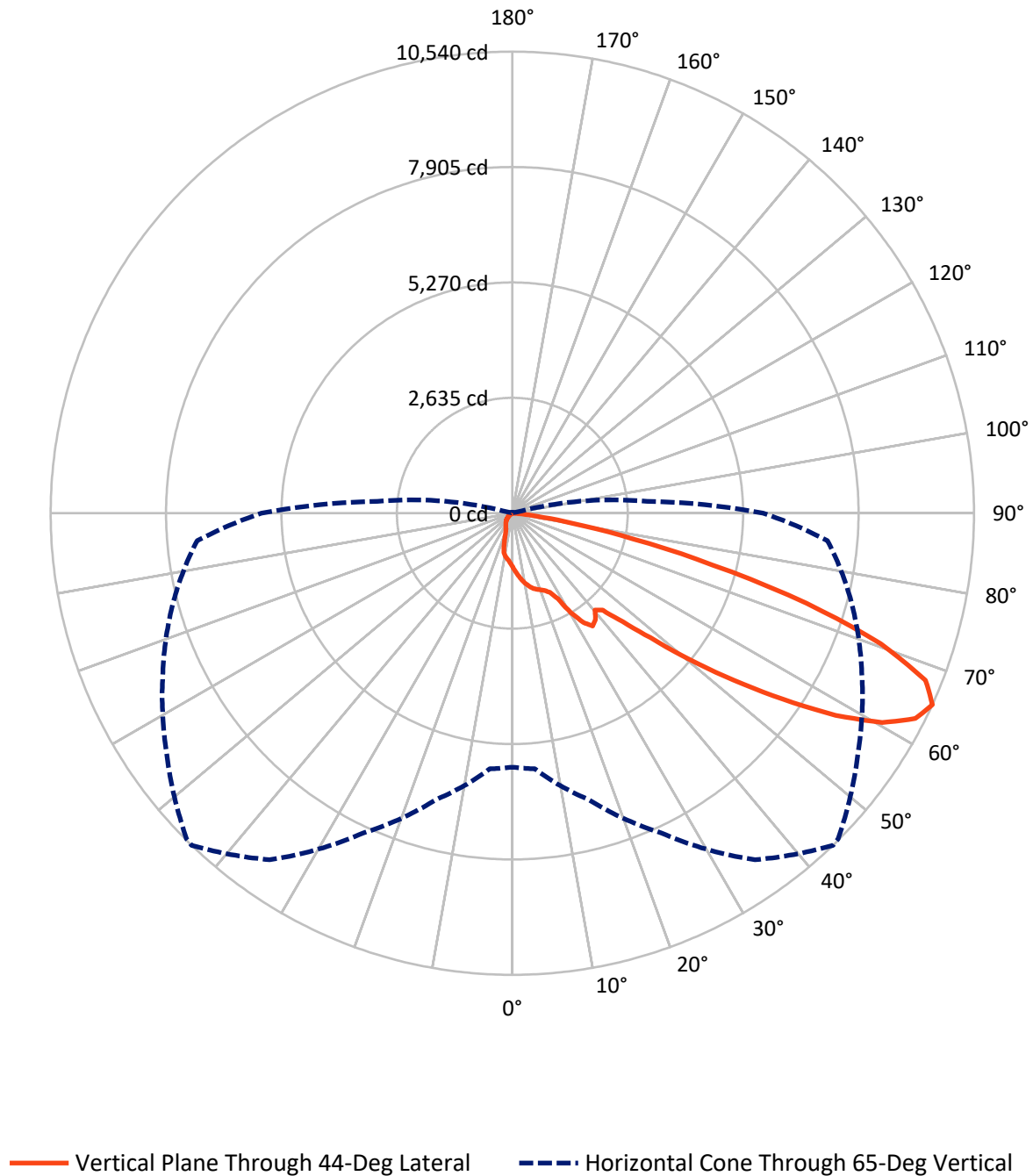
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

REPORT NUMBER: P454103
CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454103

CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

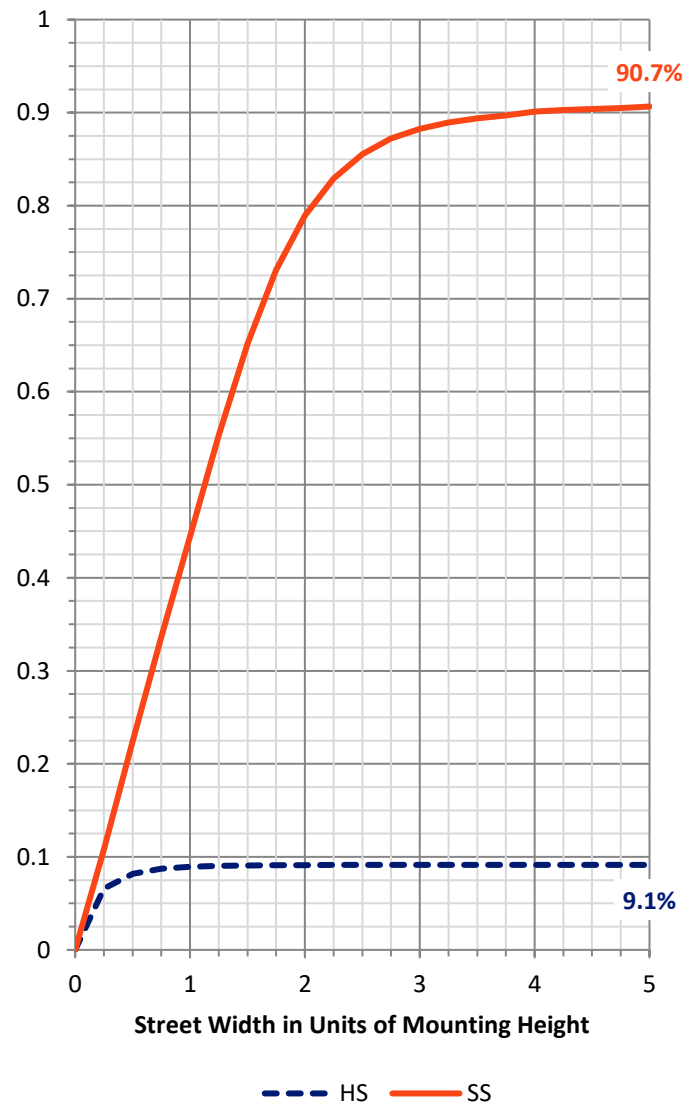
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.9	0.0	1212.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11952.0	0.0	11952.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	13165.0	0.0	13165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	0.9
10°-20°	366.8	2.8
20°-30°	621.9	4.7
30°-40°	1034.0	7.9
40°-50°	1805.5	13.7
50°-60°	3527.2	26.8
60°-70°	4092.4	31.1
70°-80°	1490.3	11.3
80°-90°	105.0	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°	13165.0	100.0
0°-180°	13165.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454103

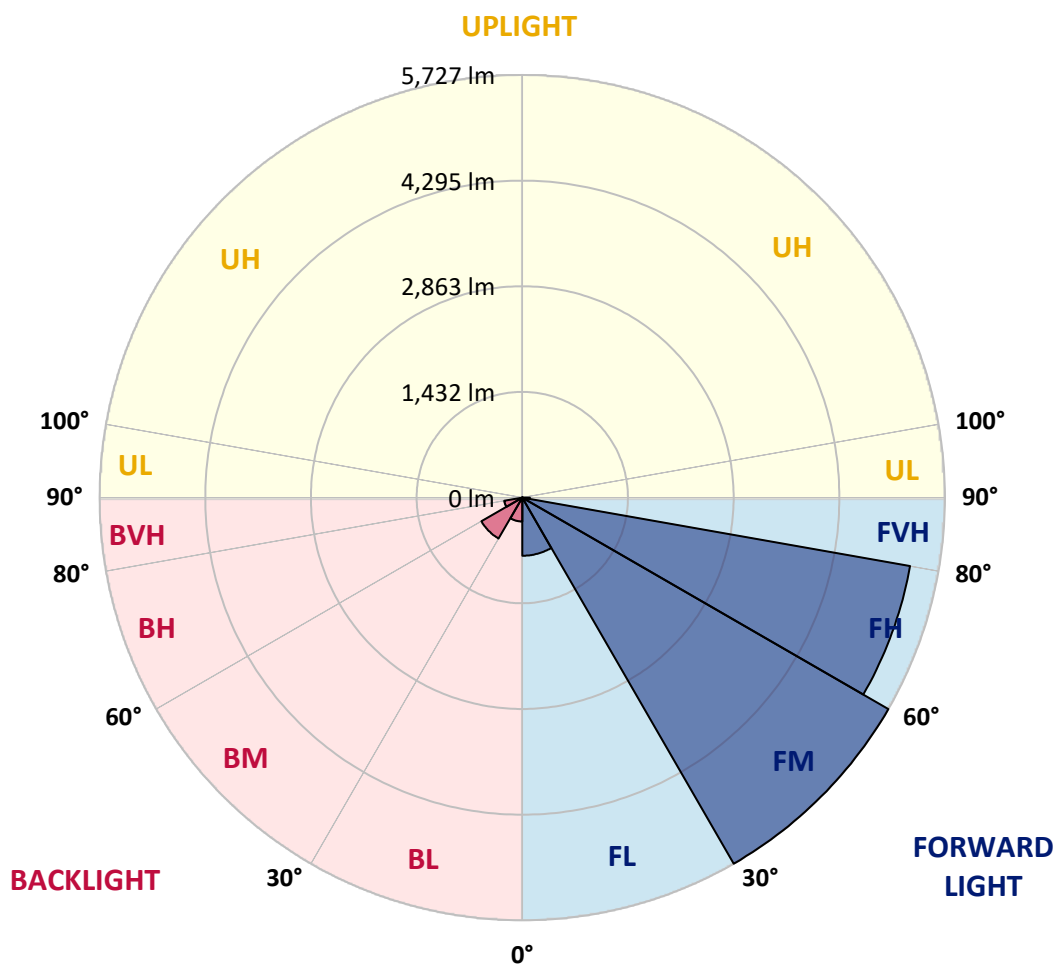
CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	787.4	6.0			
FM	(30°-60°)	5726.8	43.5			
FH	(60°-80°)	5334.3	40.5			G3/7500
FVH	(80°-90°)	103.6	0.8			G2/225
BL	(0°-30°)	323.2	2.5	B1/500		
BM	(30°-60°)	640.0	4.9	B1/1000		
BH	(60°-80°)	248.4	1.9	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G3

Type III Short





REPORT NUMBER: P454103

CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3
2.5°	1379.2	1373.1	1370.1	1354.0	1342.0	1326.9	1326.9	1307.8	1285.6	1261.5	1239.4
5°	1533.1	1523.0	1510.0	1495.9	1467.7	1427.5	1427.5	1387.2	1341.0	1299.7	1254.4
7.5°	1681.0	1671.9	1649.8	1622.6	1576.4	1534.1	1531.1	1472.7	1417.4	1355.0	1290.7
10°	1810.7	1803.7	1784.6	1732.3	1684.0	1628.7	1627.7	1562.3	1497.9	1421.4	1342.0
12.5°	1901.3	1902.3	1877.1	1826.8	1764.5	1712.2	1708.1	1643.8	1576.4	1493.9	1396.3
15°	1965.7	1965.7	1939.5	1883.2	1826.8	1780.6	1776.5	1720.2	1650.8	1561.3	1455.6
17.5°	1983.8	1989.8	1961.6	1911.3	1866.1	1825.8	1824.8	1777.5	1722.2	1635.7	1516.0
20°	1976.7	1982.8	1960.6	1921.4	1890.2	1867.1	1864.1	1844.9	1793.6	1712.2	1580.4
22.5°	1961.6	1967.7	1951.6	1928.4	1913.4	1920.4	1915.4	1931.5	1904.3	1805.7	1656.8
25°	1964.7	1970.7	1958.6	1945.5	1958.6	2001.9	2015.0	2084.4	2060.2	1924.4	1739.3
27.5°	2059.2	2071.3	2054.2	2060.2	2106.5	2207.1	2232.2	2352.0	2245.3	2075.3	1868.1
30°	2269.5	2261.4	2229.2	2258.4	2419.4	2632.6	2625.6	2606.5	2439.5	2249.3	2021.0
32.5°	2460.6	2453.6	2451.5	2577.3	2869.0	2972.6	2967.6	2782.5	2613.5	2448.5	2171.9
35°	2538.1	2510.9	2504.9	2809.7	3297.6	3160.8	3129.6	2854.9	2824.8	2665.8	2325.8
37.5°	2771.4	2752.3	2658.8	2847.9	3126.5	3081.3	3057.1	2979.7	3050.1	2858.0	2499.8
40°	3252.3	3199.0	3114.5	2929.4	2884.1	2903.2	2927.4	3139.6	3316.7	3120.5	2732.2
42.5°	3849.8	3837.8	3680.8	3335.8	2996.8	3022.9	3054.1	3473.6	3699.9	3515.9	3111.5
45°	4567.1	4584.2	4357.9	3950.4	3505.8	3527.9	3573.2	3966.5	4219.0	4130.5	3708.0
47.5°	5219.0	5205.9	5129.4	4705.9	4295.5	4246.2	4319.6	4599.3	4937.3	4951.4	4448.4
50°	5874.9	5944.3	5830.6	5664.6	5359.8	5256.2	5229.0	5365.8	5880.9	5813.5	5337.7
52.5°	6817.4	6853.7	6640.4	6598.1	6667.6	6331.6	6304.4	6337.6	6798.3	6567.0	6003.6
55°	7410.0	7388.8	7309.4	7639.3	7913.9	7494.5	7460.3	7326.5	7559.8	7099.1	6644.4
57.5°	7597.1	7627.2	7812.3	8408.9	9058.7	8702.6	8640.3	8260.0	8109.1	7595.1	7233.9
60°	7513.6	7568.9	7968.3	8855.5	9756.9	9703.6	9650.2	9011.5	8503.4	8009.5	7647.4
62.5°	6919.0	6996.5	7635.3	8776.1	9993.3	10326.3	10259.9	9480.2	8766.0	8210.7	7719.8
65°	5798.4	5855.7	6773.2	8054.8	9657.3	10539.5	10515.4	9627.1	8807.2	8026.6	7223.9
67.5°	4133.5	4328.7	5178.7	6788.3	8663.4	10175.4	10216.6	9451.1	8420.0	7230.9	5982.5
70°	2598.4	2731.2	3340.8	4859.8	6945.2	8927.0	9062.8	8645.3	7307.4	5636.4	4004.8
72.5°	1239.4	1337.9	1772.5	3076.2	4902.1	7023.7	7131.3	7097.1	5650.5	3551.1	2066.3
75°	552.3	589.5	846.0	1570.3	3164.8	4721.0	4999.7	5045.9	3530.9	1737.3	803.8
77.5°	281.7	282.7	396.4	760.5	1580.4	2816.7	2872.0	3034.0	1914.4	765.5	279.7
80°	149.9	159.9	210.2	359.1	819.9	1387.2	1380.2	1517.0	849.0	375.2	93.6
82.5°	67.4	74.4	118.7	188.1	400.4	526.1	567.4	620.7	364.2	239.4	41.2
85°	20.1	24.1	58.3	94.6	144.9	151.9	170.0	219.3	206.2	170.0	21.1
87.5°	3.0	3.0	24.1	26.2	21.1	27.2	28.2	31.2	66.4	62.4	11.1
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: P454103

CATALOG NUMBER: GALN-SA5A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3	1225.3
2.5°	1227.3	1220.2	1195.1	1174.0	1155.9	1144.8	1131.7	1123.7	1119.6	1116.6	1117.6
5°	1232.3	1215.2	1172.0	1137.7	1111.6	1083.4	1064.3	1053.2	1048.2	1040.2	1040.2
7.5°	1260.5	1233.3	1173.0	1120.6	1075.4	1037.2	1000.9	987.9	978.8	976.8	974.8
10°	1300.7	1266.5	1184.0	1111.6	1047.2	994.9	943.6	898.3	863.1	842.0	839.0
12.5°	1351.0	1301.7	1201.1	1105.6	1023.1	930.5	794.7	703.2	641.8	622.7	625.7
15°	1397.3	1344.0	1218.2	1100.5	978.8	771.6	617.7	513.0	481.9	478.8	479.8
17.5°	1452.6	1389.2	1238.3	1093.5	857.1	589.5	458.7	430.6	436.6	446.6	445.6
20°	1510.0	1437.5	1262.5	1051.2	684.1	443.6	405.4	408.4	417.5	426.5	428.5
22.5°	1571.3	1492.9	1290.7	949.6	522.1	386.3	384.3	388.3	397.4	407.4	409.4
25°	1655.8	1562.3	1311.8	816.8	395.3	357.1	361.1	368.2	376.2	387.3	389.3
27.5°	1764.5	1655.8	1322.8	643.8	342.0	331.0	332.0	342.0	352.1	362.1	362.1
30°	1905.3	1767.5	1300.7	486.9	315.9	305.8	301.8	307.8	320.9	331.0	332.0
32.5°	2031.0	1873.1	1242.4	372.2	296.8	282.7	272.6	273.6	278.7	284.7	285.7
35°	2156.8	1975.7	1142.8	312.9	276.6	260.5	245.5	237.4	233.4	230.4	233.4
37.5°	2317.8	2103.5	1010.0	284.7	259.5	239.4	218.3	201.2	187.1	178.1	180.1
40°	2525.0	2280.5	853.1	266.6	243.4	219.3	191.1	169.0	144.9	136.8	132.8
42.5°	2867.0	2549.1	688.1	251.5	227.3	198.2	163.0	132.8	110.7	102.6	104.6
45°	3407.2	2888.1	530.1	235.4	211.3	175.0	136.8	104.6	86.5	82.5	84.5
47.5°	4123.5	3326.7	408.4	217.3	191.1	149.9	107.6	82.5	71.4	70.4	69.4
50°	4797.5	3735.2	341.0	197.2	167.0	124.7	88.5	69.4	62.4	61.4	61.4
52.5°	5407.1	4027.9	277.6	174.0	140.8	102.6	74.4	61.4	55.3	52.3	52.3
55°	5949.3	4219.0	225.3	145.9	110.7	81.5	64.4	55.3	48.3	44.3	43.3
57.5°	6358.7	4242.2	169.0	116.7	82.5	63.4	55.3	48.3	40.2	35.2	33.2
60°	6533.8	4042.0	124.7	88.5	61.4	50.3	44.3	39.2	30.2	25.1	24.1
62.5°	6357.7	3652.7	92.5	67.4	47.3	37.2	31.2	29.2	21.1	15.1	14.1
65°	5727.0	3090.3	73.4	51.3	35.2	27.2	20.1	19.1	13.1	7.0	6.0
67.5°	4588.2	2420.4	58.3	38.2	25.1	18.1	13.1	12.1	7.0	2.0	2.0
70°	2983.7	1547.2	47.3	28.2	16.1	12.1	8.0	6.0	4.0	1.0	0.0
72.5°	1475.8	723.3	38.2	22.1	11.1	6.0	3.0	2.0	3.0	0.0	0.0
75°	572.4	257.5	28.2	15.1	6.0	3.0	2.0	0.0	1.0	0.0	0.0
77.5°	190.1	85.5	17.1	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	70.4	33.2	9.1	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.2	13.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	6.0	4.0	3.0	2.0	1.0	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)