

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: P454332

Luminaire Tested: **GALN-SA5B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23172 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 204
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

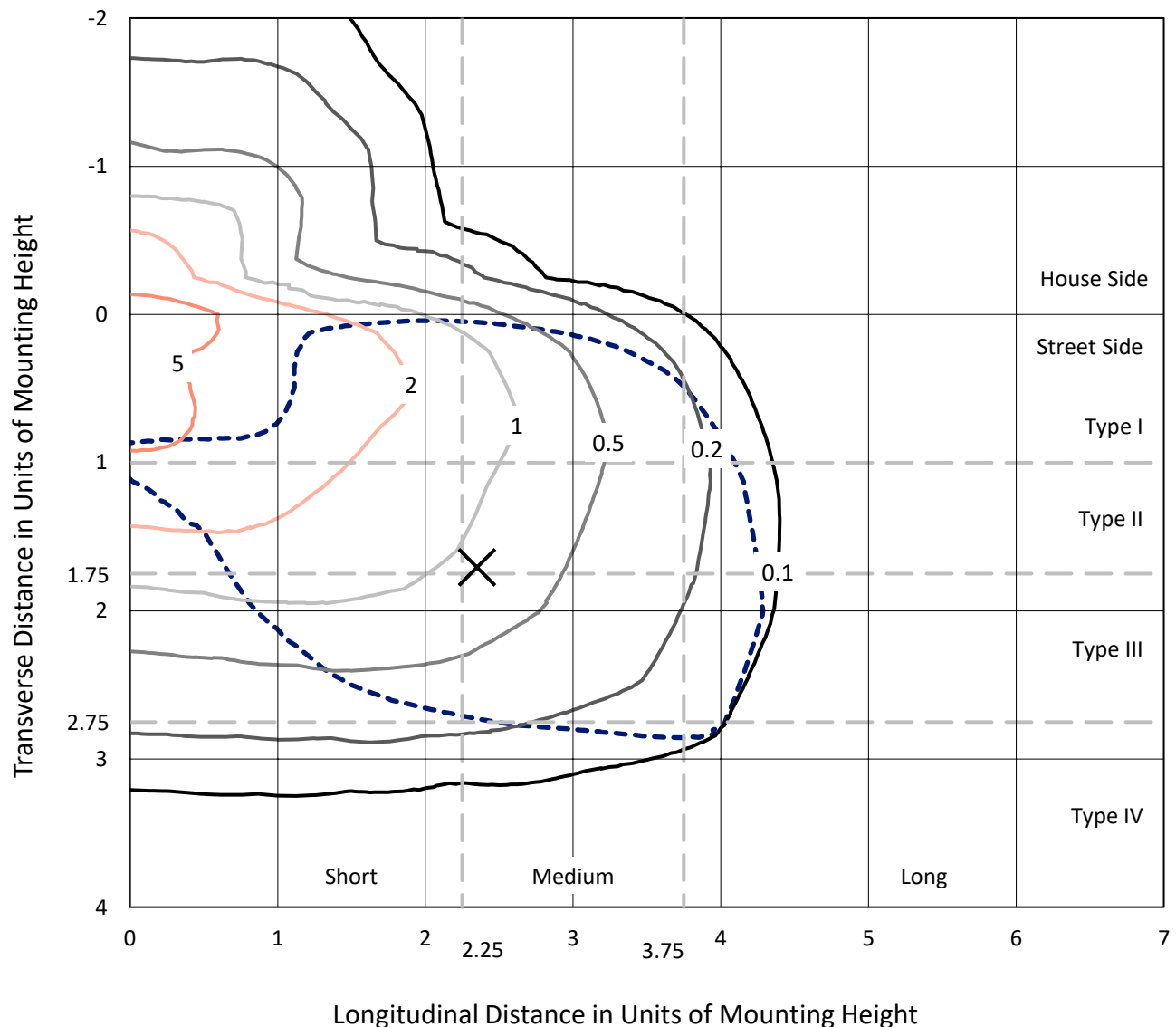


REPORT NUMBER: P454332

CATALOG NUMBER: GALN-SA5B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

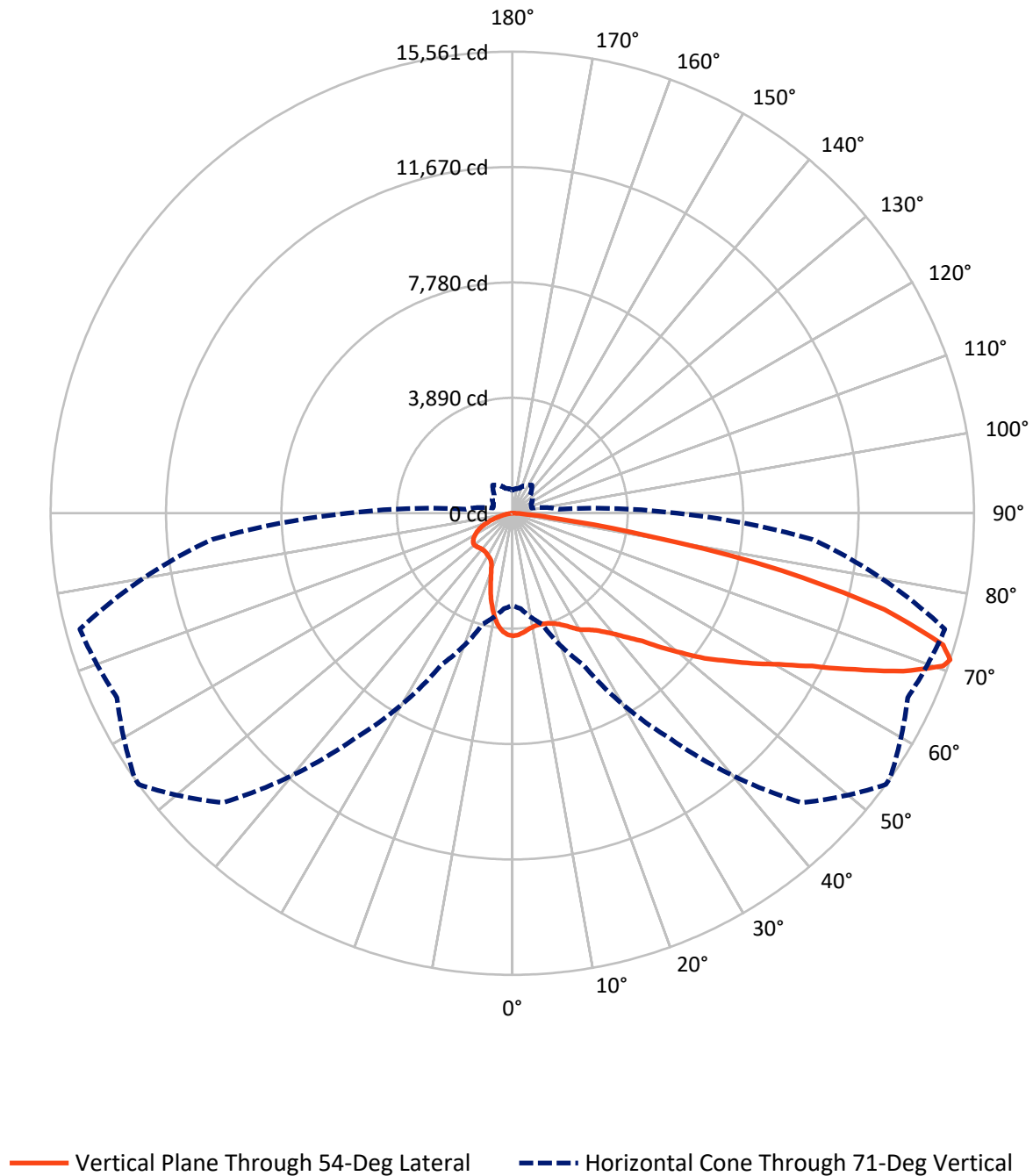


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P454332

CATALOG NUMBER: GALN-SA5B-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P454332

CATALOG NUMBER: GALN-SA5B-830-U-T3R

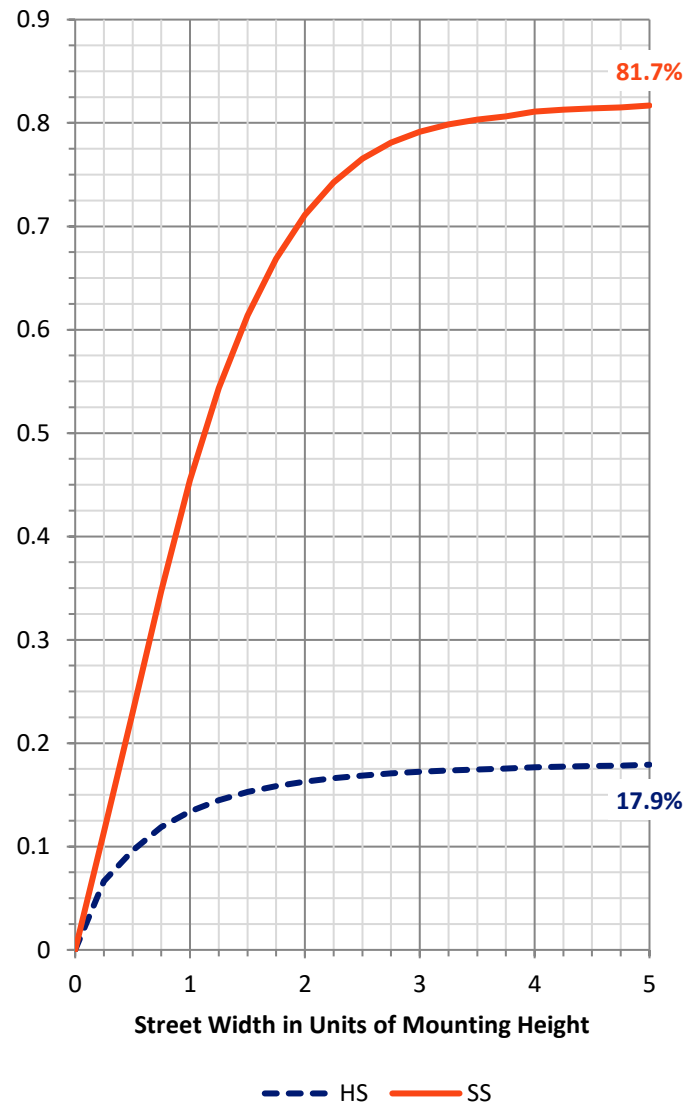
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.6	0.0	4183.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18988.4	0.0	18988.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	23172.0	0.0	23172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	1.6
10°-20°	972.8	4.2
20°-30°	1619.8	7.0
30°-40°	2395.1	10.3
40°-50°	3373.6	14.6
50°-60°	4517.4	19.5
60°-70°	5693.9	24.6
70°-80°	3888.9	16.8
80°-90°	342.0	1.5
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°	23172.0	100.0
0°-180°	23172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454332

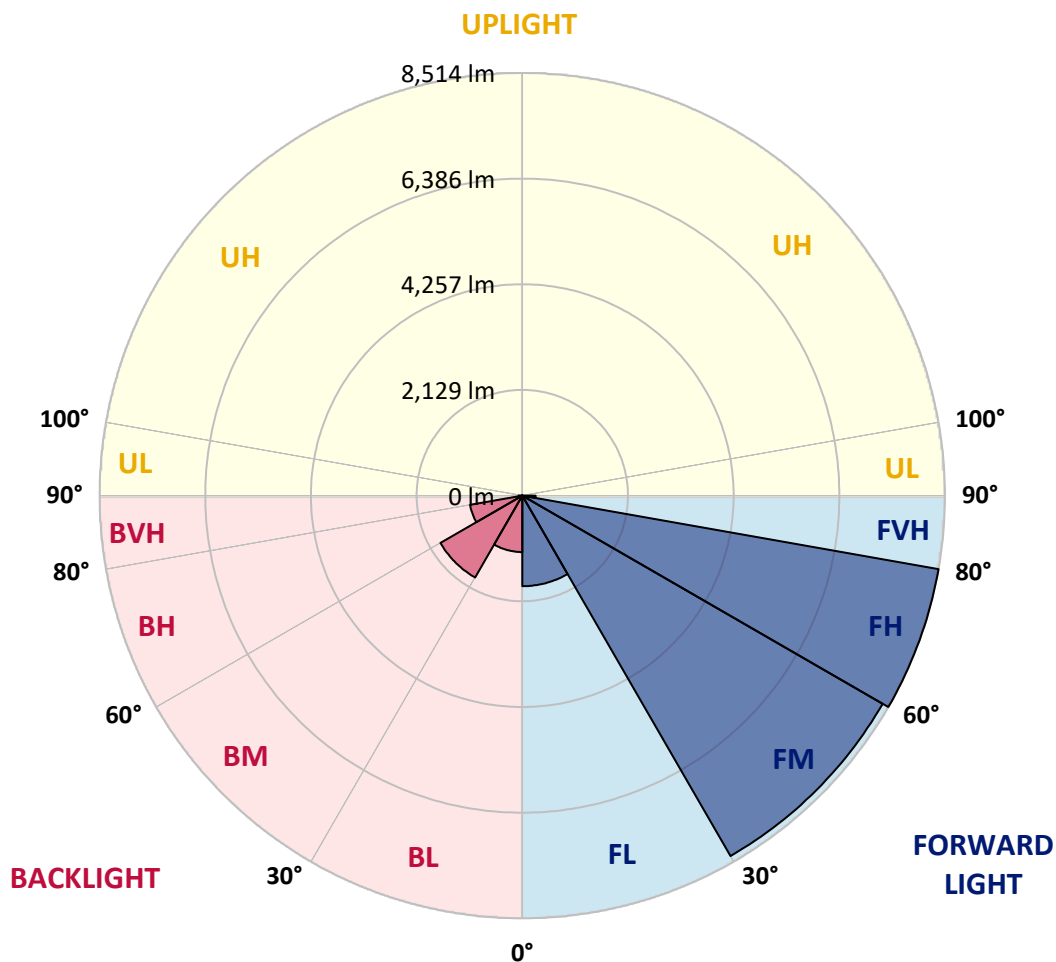
CATALOG NUMBER: GALN-SA5B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1824.0	7.9			
FM	(30°-60°)	8382.8	36.2			
FH	(60°-80°)	8514.3	36.7			G4/12000
FVH	(80°-90°)	267.3	1.2			G3/500
BL	(0°-30°)	1137.0	4.9	B3/2500		
BM	(30°-60°)	1903.4	8.2	B2/2500		
BH	(60°-80°)	1068.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	74.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





REPORT NUMBER: P454332

CATALOG NUMBER: GALN-SA5B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2
2.5°	3994.0	4012.8	4017.8	4030.3	4056.6	4077.9	4099.2	4096.7	4126.7	4139.2	4150.5
5°	3816.3	3821.3	3840.1	3865.1	3911.4	3970.3	4027.8	4029.1	4102.9	4161.8	4190.6
7.5°	3686.1	3702.4	3714.9	3741.2	3790.0	3853.9	3945.2	3952.7	4084.2	4200.6	4261.9
10°	3601.0	3619.8	3633.6	3666.1	3714.9	3786.3	3885.1	3898.9	4070.4	4261.9	4369.5
12.5°	3523.4	3542.2	3554.7	3597.3	3661.1	3748.7	3860.1	3876.4	4075.4	4333.2	4487.2
15°	3571.0	3586.0	3581.0	3593.5	3636.1	3736.2	3870.1	3886.4	4094.2	4402.1	4603.6
17.5°	3782.5	3795.0	3753.7	3706.2	3686.1	3760.0	3901.4	3918.9	4131.7	4473.4	4722.5
20°	4094.2	4128.0	4037.9	3931.5	3835.1	3845.1	3966.5	3985.3	4184.3	4544.8	4843.9
22.5°	4499.7	4524.7	4414.6	4239.4	4061.6	3970.3	4064.1	4075.4	4263.1	4637.4	4976.6
25°	4976.6	4991.6	4838.9	4613.6	4357.0	4184.3	4198.1	4218.1	4393.3	4742.5	5094.2
27.5°	5439.7	5487.3	5310.8	5035.4	4697.5	4409.6	4382.1	4394.6	4534.8	4801.4	5175.6
30°	5989.2	5985.4	5798.9	5479.8	5046.7	4654.9	4556.0	4553.5	4611.1	4830.2	5234.4
32.5°	6427.3	6478.6	6295.8	5947.9	5446.0	4909.0	4676.2	4671.2	4669.9	4880.2	5322.1
35°	6925.4	6932.9	6765.2	6414.7	5877.8	5228.2	4843.9	4818.9	4790.1	4987.9	5441.0
37.5°	7371.0	7406.1	7252.1	6859.1	6302.1	5559.9	5074.2	5058.0	4970.3	5174.4	5631.2
40°	7719.0	7745.3	7652.6	7278.4	6720.2	5917.8	5367.1	5337.1	5230.7	5479.8	5885.3
42.5°	7832.9	7886.7	7923.0	7739.0	7200.8	6342.2	5727.6	5690.0	5608.7	5942.9	6178.2
45°	7841.6	7926.8	8118.3	8127.0	7683.9	6850.3	6148.1	6121.9	6115.6	6536.2	6590.0
47.5°	7775.3	7861.7	8183.3	8357.3	8114.5	7363.5	6755.2	6713.9	6717.7	7269.6	7051.8
50°	7615.1	7717.7	8108.2	8505.0	8451.2	7896.7	7396.0	7382.3	7459.9	8107.0	7531.2
52.5°	7313.4	7437.4	8030.6	8597.6	8701.5	8356.1	8124.5	8085.7	8282.2	9015.7	8055.7
55°	6478.6	6665.1	7746.5	8649.0	8939.3	8795.4	8780.4	8850.5	9110.8	10007.0	8632.7
57.5°	6043.0	6183.2	7129.4	8657.7	9239.7	9306.1	9546.4	9563.9	10019.5	11059.7	9284.8
60°	5805.2	5929.1	6791.5	8600.1	9659.0	9938.2	10329.9	10392.5	10907.0	12199.9	9960.7
62.5°	5597.4	5703.8	6588.7	8401.1	10132.2	10875.7	11345.0	11375.1	11914.5	13459.1	10627.8
65°	5108.0	5229.4	6180.7	8202.1	10540.2	12047.2	12691.8	12656.8	12987.2	14545.5	11045.9
67.5°	4448.4	4602.3	5418.4	7515.0	10741.7	13327.7	14208.8	14165.0	14046.1	15257.7	11166.0
70°	3606.0	3688.6	4443.4	6327.1	9936.9	13999.8	15406.7	15360.4	14702.0	15351.6	10597.8
71°	3102.9	3231.8	3868.9	5619.9	9267.3	13794.5	15560.6	15548.1	14703.2	15092.5	10169.7
72.5°	2422.0	2500.8	3064.1	4354.5	7876.7	12628.0	15180.1	15227.7	14384.1	14372.8	9287.3
75°	1532.0	1567.1	1922.5	2563.4	4322.0	8943.1	12958.4	13087.3	12771.9	11764.3	6906.7
77.5°	889.9	935.0	1151.5	1510.8	1867.5	4853.9	9272.3	9412.5	8874.3	6477.3	2827.5
80°	518.2	568.3	758.5	877.4	857.4	1801.1	4721.3	4960.3	3842.6	1635.9	793.6
82.5°	287.9	321.7	533.2	534.5	456.9	588.3	1485.7	1554.6	1096.5	659.6	324.2
85°	209.0	236.6	344.2	311.7	219.0	252.8	516.9	542.0	443.1	277.9	105.1
87.5°	73.8	105.1	189.0	150.2	60.1	52.6	148.9	121.4	112.6	77.6	23.8
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: P454332

CATALOG NUMBER: GALN-SA5B-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2
2.5°	4156.8	4159.3	4146.7	4124.2	4101.7	4072.9	4040.4	4015.3	4004.1	4002.8	4001.6
5°	4201.8	4208.1	4160.5	4090.4	4012.8	3917.7	3836.3	3743.7	3719.9	3682.4	3693.6
7.5°	4274.4	4270.7	4176.8	4027.8	3846.3	3644.8	3474.6	3375.7	3273.1	3244.3	3245.6
10°	4378.3	4354.5	4176.8	3900.2	3597.3	3298.1	3060.3	2910.1	2828.7	2761.2	2736.1
12.5°	4488.4	4428.4	4136.7	3721.2	3276.8	2910.1	2654.8	2452.0	2399.4	2344.4	2345.6
15°	4593.6	4493.5	4057.9	3469.6	2931.4	2495.8	2248.0	2126.6	2110.3	2116.6	2115.3
17.5°	4688.7	4539.8	3937.7	3189.2	2528.4	2140.3	2008.9	2017.7	2061.5	2092.8	2096.5
20°	4785.1	4567.3	3758.7	2813.7	2147.8	1925.1	1930.1	1998.9	2065.2	2107.8	2114.1
22.5°	4876.5	4579.8	3548.5	2450.7	1872.5	1833.7	1907.5	1981.4	2046.5	2087.8	2094.0
25°	4936.5	4551.0	3250.6	2071.5	1737.3	1801.1	1878.7	1941.3	1996.4	2039.0	2049.0
27.5°	4952.8	4458.4	2881.3	1764.8	1674.7	1769.8	1841.2	1887.5	1930.1	1970.1	1977.6
30°	4944.1	4322.0	2475.8	1584.6	1638.4	1733.5	1788.6	1822.4	1873.7	1905.0	1911.3
32.5°	4930.3	4163.0	2052.7	1488.2	1608.4	1699.8	1732.3	1762.3	1761.1	1748.6	1757.3
35°	4935.3	3972.8	1709.8	1430.6	1582.1	1674.7	1702.3	1664.7	1557.1	1552.1	1547.0
37.5°	4961.6	3785.0	1460.7	1390.6	1568.3	1671.0	1686.0	1513.3	1418.1	1374.3	1363.1
40°	5029.2	3566.0	1296.7	1360.6	1567.1	1699.8	1612.1	1436.9	1254.2	1169.0	1162.8
42.5°	5119.3	3350.7	1196.6	1341.8	1582.1	1743.6	1582.1	1329.3	1130.2	1080.2	1072.7
45°	5253.2	3104.1	1141.5	1333.0	1604.6	1759.8	1572.1	1250.4	1080.2	1040.1	1040.1
47.5°	5404.7	2868.8	1111.5	1326.8	1633.4	1748.6	1483.2	1225.4	1056.4	1061.4	1085.2
50°	5554.9	2664.8	1088.9	1313.0	1658.4	1742.3	1446.9	1224.1	1062.7	1126.5	1169.0
52.5°	5728.8	2520.8	1061.4	1290.5	1658.4	1702.3	1435.7	1249.2	1080.2	1099.0	1117.7
55°	5939.1	2475.8	1026.4	1241.6	1628.4	1602.1	1429.4	1285.5	1092.7	1048.9	1056.4
57.5°	6217.0	2548.4	992.6	1180.3	1559.6	1498.2	1426.9	1295.5	1063.9	1027.6	1020.1
60°	6539.9	2692.3	982.6	1117.7	1465.7	1409.4	1411.9	1266.7	1023.9	986.3	992.6
62.5°	6766.5	2778.7	976.3	1070.2	1363.1	1311.7	1375.6	1231.6	1006.3	973.8	980.0
65°	6766.5	2673.5	918.7	997.6	1230.4	1194.1	1331.8	1187.8	983.8	946.3	940.0
67.5°	6509.9	2366.9	831.1	888.7	1083.9	1060.2	1270.4	1135.3	950.0	921.2	906.2
70°	5841.5	1794.9	721.0	761.0	898.7	920.0	1191.6	1063.9	893.7	858.6	836.1
71°	5547.4	1563.3	674.6	695.9	827.3	858.6	1154.0	1033.9	868.7	818.6	778.5
72.5°	4980.3	1316.7	604.6	613.3	707.2	763.5	1075.2	976.3	821.1	749.7	704.7
75°	3783.8	961.3	486.9	481.9	523.2	605.8	910.0	869.9	719.7	623.3	597.0
77.5°	1634.7	523.2	364.2	368.0	355.5	459.4	715.9	747.2	617.1	506.9	483.1
80°	495.7	301.6	249.1	254.1	237.8	307.9	504.4	585.8	495.7	394.3	361.7
82.5°	254.1	180.2	170.2	167.7	151.5	174.0	305.4	400.5	354.2	246.6	217.8
85°	110.1	96.4	83.9	81.4	71.3	62.6	108.9	200.3	187.7	137.7	131.4
87.5°	27.5	25.0	16.3	15.0	8.8	1.3	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)