

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: P454564

Luminaire Tested: **GALN-SA5C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454564
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-SA5C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28630 lumens
Efficiency: N/A
Efficacy: 106.4 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): 269
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

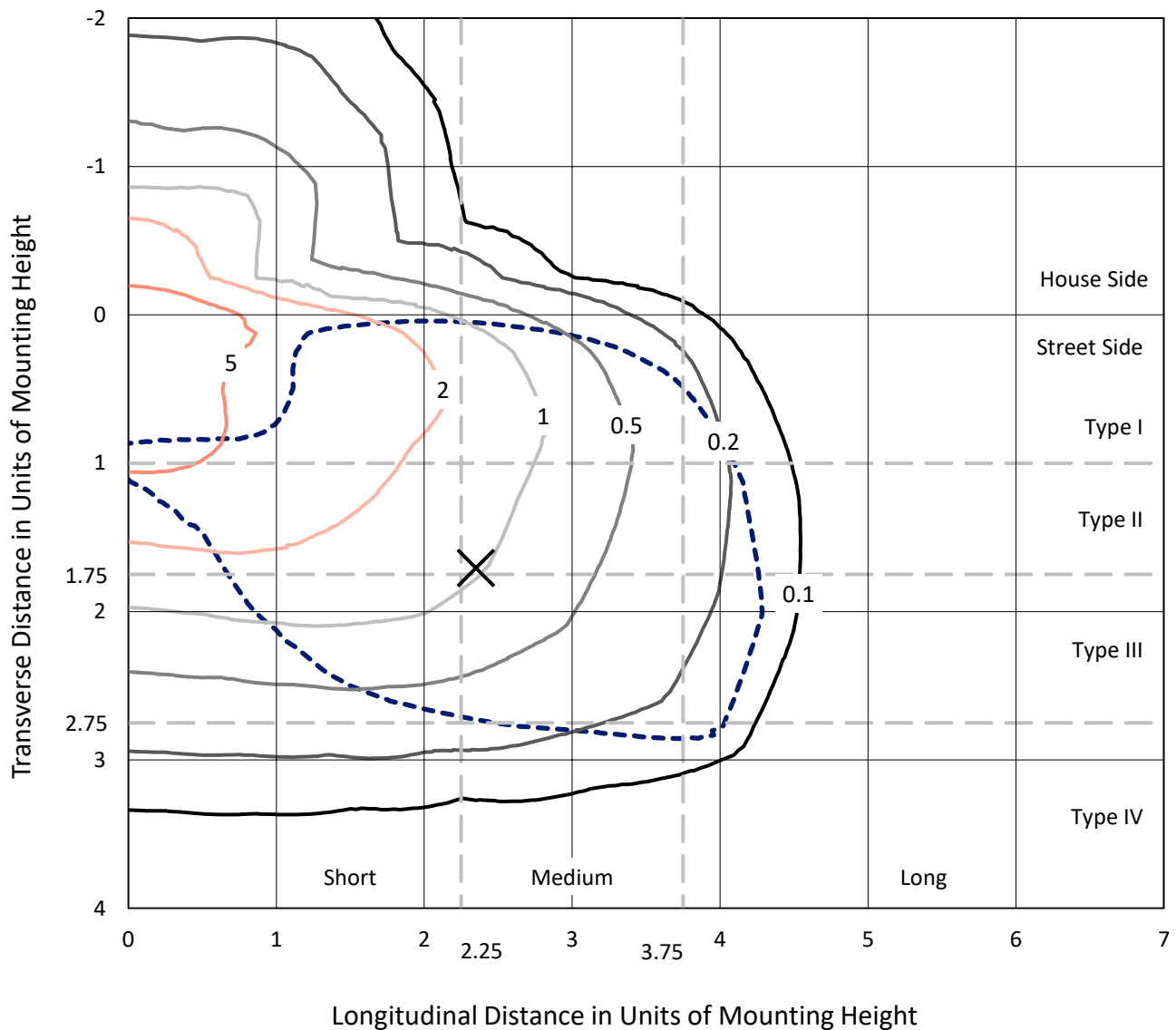


REPORT NUMBER: P454564

CATALOG NUMBER: GALN-SA5C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

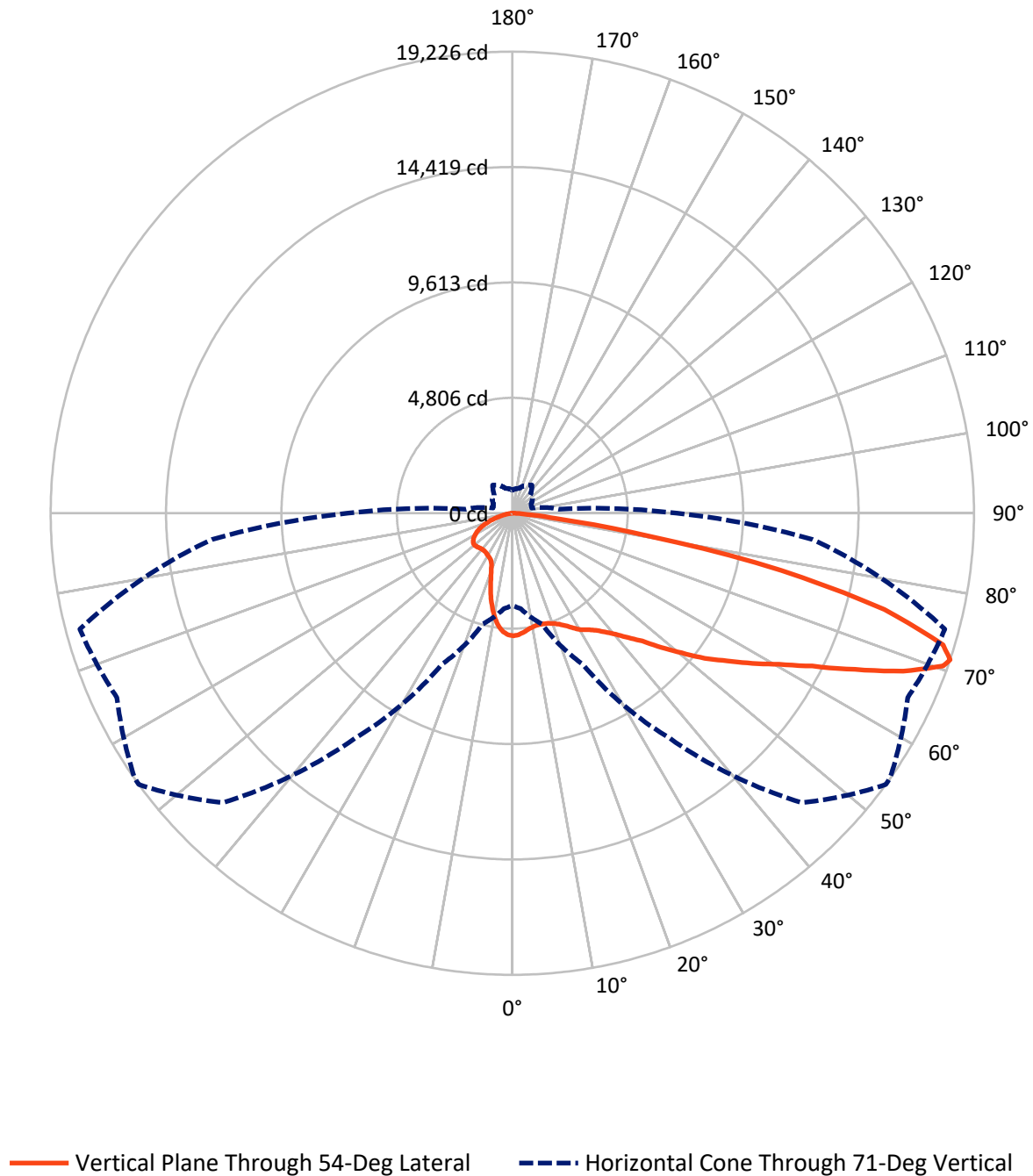


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P454564

CATALOG NUMBER: GALN-SA5C-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P454564

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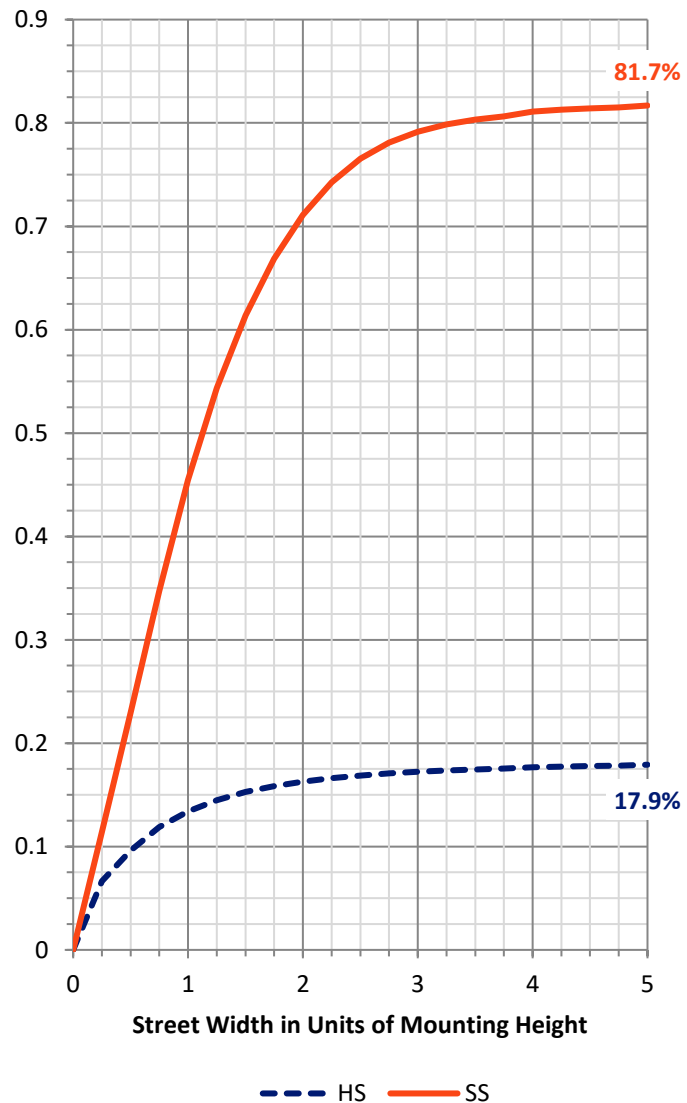
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5169.0	0.0	5169.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23461.0	0.0	23461.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	28630.0	0.0	28630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.2	1.6
10°-20°	1202.0	4.2
20°-30°	2001.3	7.0
30°-40°	2959.3	10.3
40°-50°	4168.3	14.6
50°-60°	5581.5	19.5
60°-70°	7035.0	24.6
70°-80°	4804.9	16.8
80°-90°	422.6	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°	28630.0	100.0
0°-180°	28630.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454564

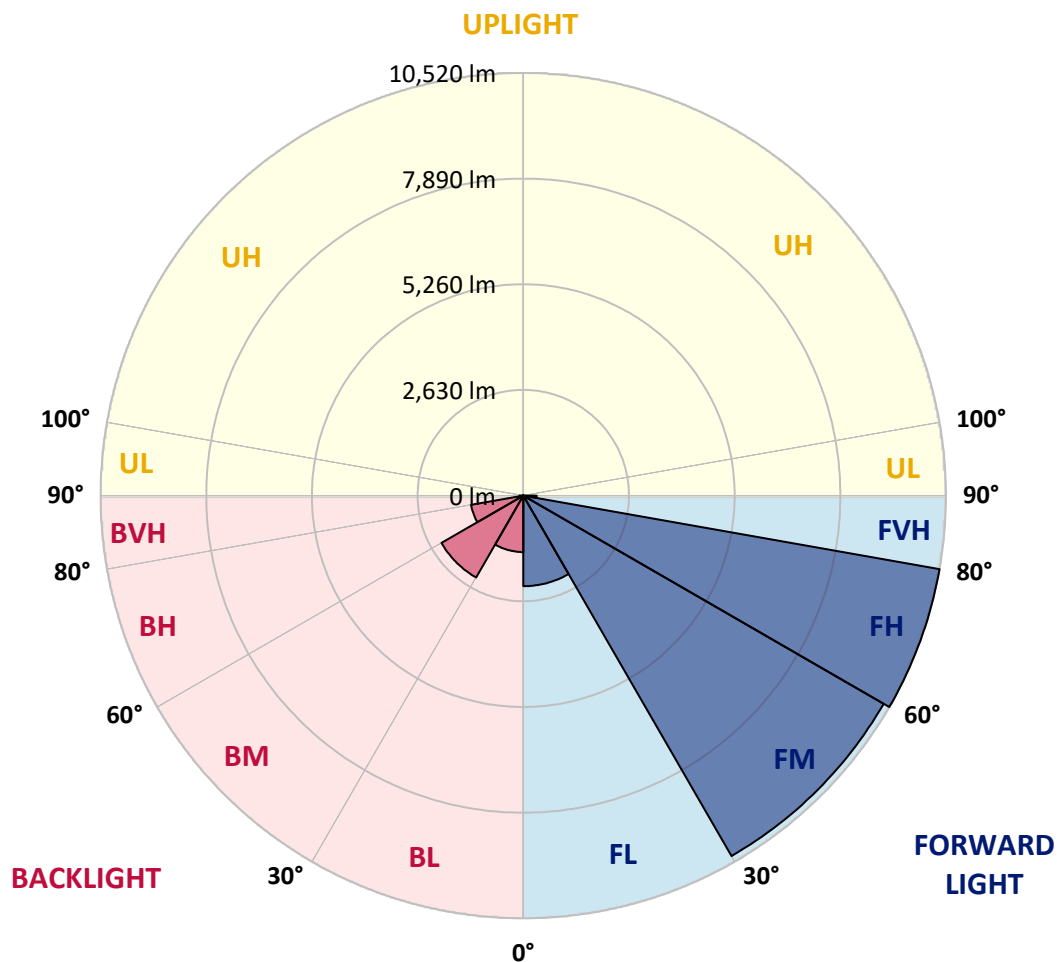
CATALOG NUMBER: GALN-SA5C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2253.6	7.9			
FM	(30°-60°)	10357.3	36.2			
FH	(60°-80°)	10519.8	36.7			G4/12000
FVH	(80°-90°)	330.3	1.2			G3/500
BL	(0°-30°)	1404.8	4.9	B3/2500		
BM	(30°-60°)	2351.7	8.2	B2/2500		
BH	(60°-80°)	1320.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	92.3	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: P454564

CATALOG NUMBER: GALN-SA5C-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0
2.5°	4934.8	4958.0	4964.2	4979.7	5012.1	5038.4	5064.7	5061.6	5098.7	5114.2	5128.1
5°	4715.2	4721.4	4744.6	4775.5	4832.7	4905.4	4976.6	4978.1	5069.4	5142.0	5177.6
7.5°	4554.4	4574.5	4589.9	4622.4	4682.7	4761.6	4874.5	4883.8	5046.2	5190.0	5265.8
10°	4449.2	4472.4	4489.4	4529.6	4589.9	4678.1	4800.3	4817.3	5029.1	5265.8	5398.8
12.5°	4353.3	4376.5	4392.0	4444.6	4523.4	4631.7	4769.3	4789.4	5035.3	5353.9	5544.1
15°	4412.1	4430.7	4424.5	4439.9	4492.5	4616.2	4781.7	4801.8	5058.5	5439.0	5687.9
17.5°	4673.5	4688.9	4637.9	4579.1	4554.4	4645.6	4820.4	4842.0	5104.9	5527.1	5834.9
20°	5058.5	5100.3	4988.9	4857.5	4738.4	4750.8	4900.8	4924.0	5169.9	5615.3	5984.9
22.5°	5559.6	5590.5	5454.4	5237.9	5018.3	4905.4	5021.4	5035.3	5267.3	5729.7	6148.8
25°	6148.8	6167.4	5978.7	5700.3	5383.3	5169.9	5186.9	5211.6	5428.1	5859.6	6294.2
27.5°	6721.0	6779.8	6561.7	6221.5	5803.9	5448.2	5414.2	5429.7	5602.9	5932.3	6394.7
30°	7399.9	7395.3	7164.8	6770.5	6235.4	5751.4	5629.2	5626.1	5697.2	5967.9	6467.4
32.5°	7941.2	8004.6	7778.8	7348.9	6728.7	6065.3	5777.6	5771.5	5769.9	6029.7	6575.6
35°	8556.7	8565.9	8358.7	7925.7	7262.3	6459.6	5984.9	5953.9	5918.4	6162.7	6722.5
37.5°	9107.2	9150.5	8960.3	8474.7	7786.5	6869.5	6269.4	6249.3	6141.1	6393.1	6957.6
40°	9537.1	9569.6	9455.2	8992.8	8303.0	7311.7	6631.3	6594.2	6462.7	6770.5	7271.5
42.5°	9677.9	9744.4	9789.2	9561.9	8896.9	7836.0	7076.7	7030.3	6929.8	7342.7	7633.4
45°	9688.7	9793.8	10030.5	10041.3	9493.8	8463.9	7596.3	7563.8	7556.1	8075.7	8142.2
47.5°	9606.7	9713.4	10110.9	10325.8	10025.8	9097.9	8346.3	8295.3	8299.9	8981.9	8712.9
50°	9408.8	9535.6	10018.1	10508.3	10441.8	9756.7	9138.1	9121.1	9217.0	10016.5	9305.2
52.5°	9036.1	9189.2	9922.2	10622.8	10751.1	10324.3	10038.2	9990.2	10233.0	11139.3	9953.1
55°	8004.6	8235.0	9571.2	10686.2	11044.9	10867.1	10848.5	10935.1	11256.8	12364.1	10666.1
57.5°	7466.4	7639.6	8808.7	10697.0	11416.1	11498.1	11795.0	11816.6	12379.6	13664.7	11471.8
60°	7172.6	7325.7	8391.2	10625.8	11934.2	12279.0	12763.1	12840.4	13476.0	15073.5	12306.9
62.5°	6915.8	7047.3	8140.7	10380.0	12518.7	13437.3	14017.3	14054.4	14720.9	16629.3	13131.1
65°	6311.2	6461.2	7636.5	10134.1	13022.9	14884.8	15681.3	15638.0	16046.3	17971.6	13647.7
67.5°	5496.2	5686.4	6694.7	9285.1	13271.9	16466.9	17555.6	17501.5	17354.6	18851.6	13796.1
70°	4455.4	4557.5	5490.0	7817.4	12277.5	17297.4	19035.6	18978.4	18164.9	18967.5	13094.0
71°	3833.7	3993.0	4780.2	6943.7	11450.1	17043.7	19225.8	19210.3	18166.5	18647.4	12565.1
72.5°	2992.4	3089.9	3785.8	5380.2	9732.0	15602.4	18755.7	18814.4	17772.1	17758.2	11474.9
75°	1892.9	1936.2	2375.4	3167.2	5340.0	11049.6	16010.7	16170.0	15780.3	14535.3	8533.5
77.5°	1099.5	1155.2	1422.8	1866.6	2307.3	5997.2	11456.3	11629.5	10964.5	8003.0	3493.5
80°	640.2	702.1	937.2	1084.1	1059.3	2225.4	5833.3	6128.7	4747.7	2021.2	980.5
82.5°	355.7	397.4	658.8	660.3	564.5	726.8	1835.7	1920.7	1354.7	815.0	400.5
85°	258.3	292.3	425.3	385.1	270.6	312.4	638.7	669.6	547.5	343.3	129.9
87.5°	91.2	129.9	233.5	185.6	74.2	65.0	184.0	150.0	139.2	95.9	29.4
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: P454564

CATALOG NUMBER: GALN-SA5C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0	5108.0
2.5°	5135.9	5138.9	5123.5	5095.6	5067.8	5032.2	4992.0	4961.1	4947.2	4945.6	4944.1
5°	5191.5	5199.3	5140.5	5053.9	4958.0	4840.5	4740.0	4625.5	4596.1	4549.7	4563.7
7.5°	5281.2	5276.6	5160.6	4976.6	4752.3	4503.3	4293.0	4170.9	4044.0	4008.5	4010.0
10°	5409.6	5380.2	5160.6	4818.8	4444.6	4075.0	3781.1	3595.6	3495.0	3411.5	3380.6
12.5°	5545.7	5471.4	5111.1	4597.7	4048.7	3595.6	3280.1	3029.5	2964.6	2896.6	2898.1
15°	5675.6	5551.9	5013.7	4286.8	3621.9	3083.7	2777.5	2627.5	2607.4	2615.1	2613.5
17.5°	5793.1	5609.1	4865.2	3940.4	3123.9	2644.5	2482.1	2492.9	2547.0	2585.7	2590.4
20°	5912.2	5643.1	4644.1	3476.5	2653.8	2378.5	2384.7	2469.7	2551.7	2604.3	2612.0
22.5°	6025.1	5658.6	4384.3	3028.0	2313.5	2265.6	2356.8	2448.1	2528.5	2579.5	2587.3
25°	6099.3	5623.0	4016.2	2559.4	2146.5	2225.4	2321.3	2398.6	2466.6	2519.2	2531.6
27.5°	6119.4	5508.6	3560.0	2180.5	2069.2	2186.7	2274.9	2332.1	2384.7	2434.2	2443.4
30°	6108.6	5340.0	3058.9	1957.8	2024.3	2141.9	2209.9	2251.7	2315.1	2353.7	2361.5
32.5°	6091.6	5143.6	2536.2	1838.8	1987.2	2100.1	2140.3	2177.4	2175.9	2160.4	2171.3
35°	6097.8	4908.5	2112.5	1767.6	1954.7	2069.2	2103.2	2056.8	1923.8	1917.6	1911.4
37.5°	6130.2	4676.5	1804.7	1718.1	1937.7	2064.5	2083.1	1869.7	1752.2	1698.0	1684.1
40°	6213.7	4405.9	1602.2	1681.0	1936.2	2100.1	1991.9	1775.4	1549.6	1444.4	1436.7
42.5°	6325.1	4139.9	1478.4	1657.8	1954.7	2154.2	1954.7	1642.4	1396.5	1334.6	1325.3
45°	6490.6	3835.3	1410.4	1647.0	1982.6	2174.3	1942.4	1544.9	1334.6	1285.1	1285.1
47.5°	6677.7	3544.5	1373.3	1639.3	2018.2	2160.4	1832.6	1514.0	1305.2	1311.4	1340.8
50°	6863.3	3292.5	1345.4	1622.3	2049.1	2152.7	1787.7	1512.5	1313.0	1391.8	1444.4
52.5°	7078.2	3114.6	1311.4	1594.4	2049.1	2103.2	1773.8	1543.4	1334.6	1357.8	1381.0
55°	7338.0	3058.9	1268.1	1534.1	2012.0	1979.5	1766.1	1588.2	1350.1	1295.9	1305.2
57.5°	7681.4	3148.6	1226.4	1458.3	1926.9	1851.1	1763.0	1600.6	1314.5	1269.7	1260.4
60°	8080.3	3326.5	1214.0	1381.0	1810.9	1741.3	1744.4	1565.0	1265.0	1218.6	1226.4
62.5°	8360.3	3433.2	1206.3	1322.2	1684.1	1620.7	1699.6	1521.7	1243.4	1203.2	1210.9
65°	8360.3	3303.3	1135.1	1232.5	1520.2	1475.3	1645.5	1467.6	1215.5	1169.1	1161.4
67.5°	8043.2	2924.4	1026.9	1098.0	1339.2	1309.9	1569.7	1402.7	1173.8	1138.2	1119.6
70°	7217.4	2217.6	890.8	940.3	1110.4	1136.7	1472.2	1314.5	1104.2	1060.9	1033.0
71°	6854.0	1931.6	833.6	859.8	1022.2	1060.9	1425.9	1277.4	1073.3	1011.4	961.9
72.5°	6153.4	1626.9	746.9	757.8	873.8	943.4	1328.4	1206.3	1014.5	926.3	870.7
75°	4675.0	1187.7	601.6	595.4	646.4	748.5	1124.3	1074.8	889.2	770.1	737.7
77.5°	2019.7	646.4	450.0	454.7	439.2	567.6	884.6	923.2	762.4	626.3	596.9
80°	612.4	372.7	307.7	313.9	293.8	380.4	623.2	723.8	612.4	487.1	446.9
82.5°	313.9	222.7	210.3	207.2	187.1	215.0	377.3	494.9	437.7	304.7	269.1
85°	136.1	119.1	103.6	100.5	88.1	77.3	134.5	247.4	232.0	170.1	162.4
87.5°	34.0	30.9	20.1	18.6	10.8	1.5	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)