

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: P454326

Luminaire Tested: **GALN-SA5B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22773 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - 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

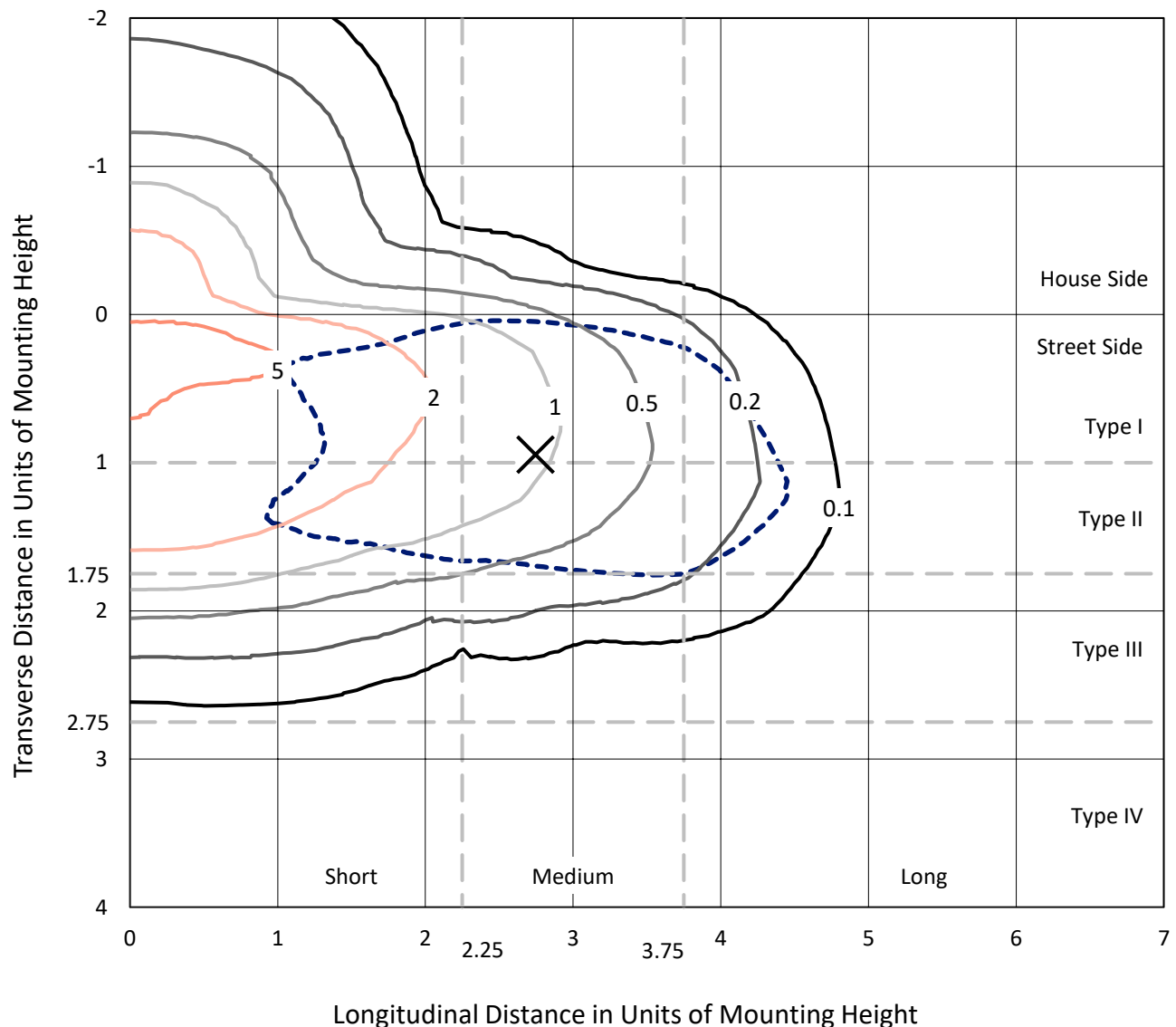


REPORT NUMBER: P454326

CATALOG NUMBER: GALN-SA5B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

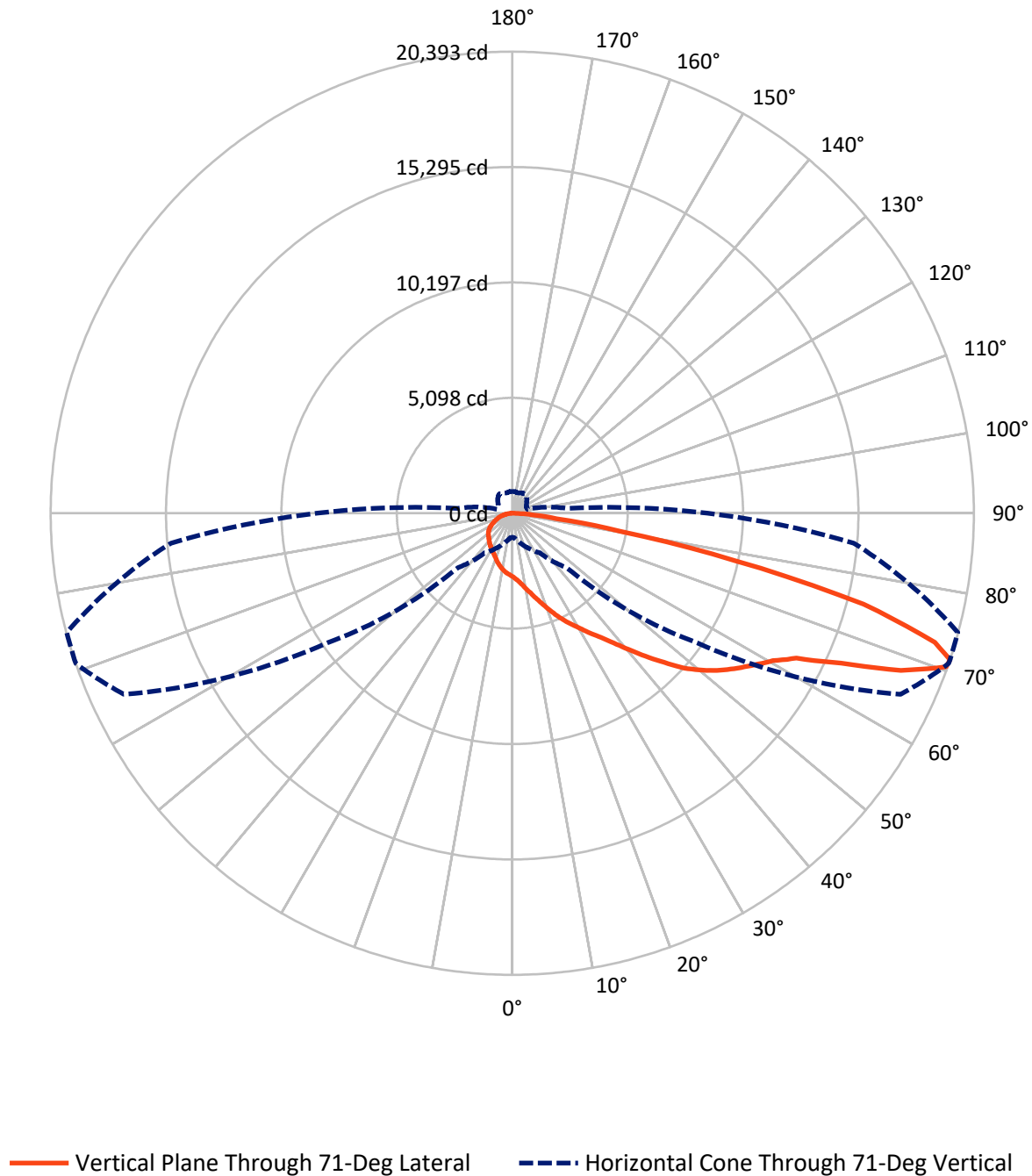


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P454326

CATALOG NUMBER: GALN-SA5B-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P454326

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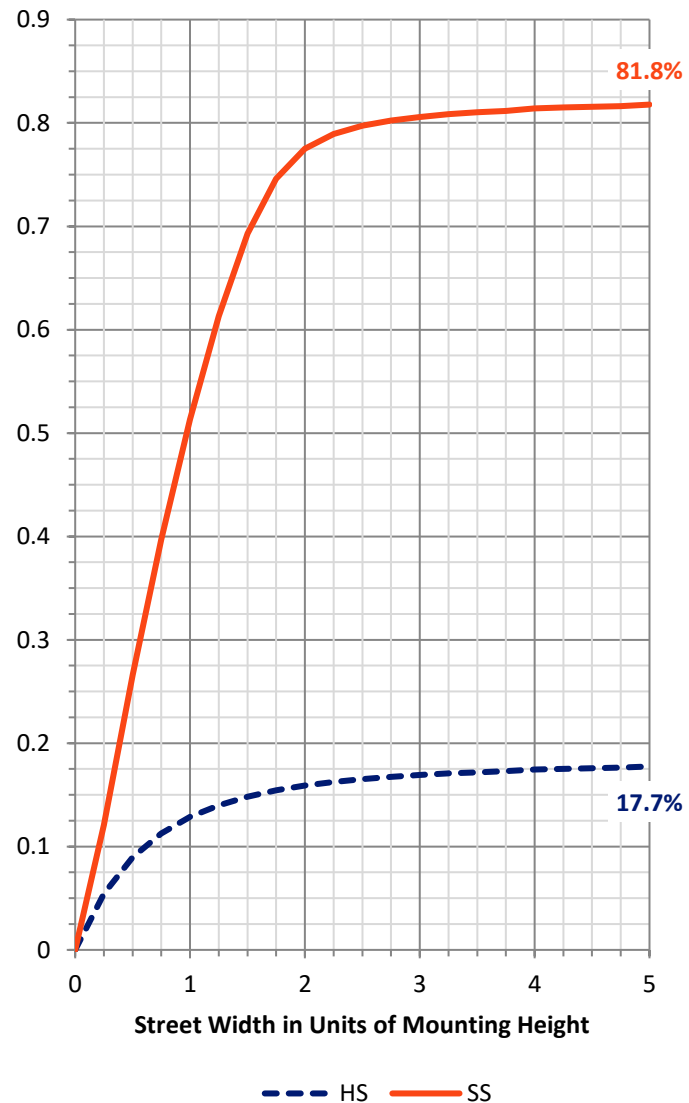
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4095.7	0.0	4095.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	18677.3	0.0	18677.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	22773.0	0.0	22773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.2
10°-20°	911.7	4.0
20°-30°	1593.4	7.0
30°-40°	2369.9	10.4
40°-50°	3491.8	15.3
50°-60°	4888.5	21.5
60°-70°	5467.6	24.0
70°-80°	3339.8	14.7
80°-90°	429.6	1.9
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°	22773.0	100.0
0°-180°	22773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454326

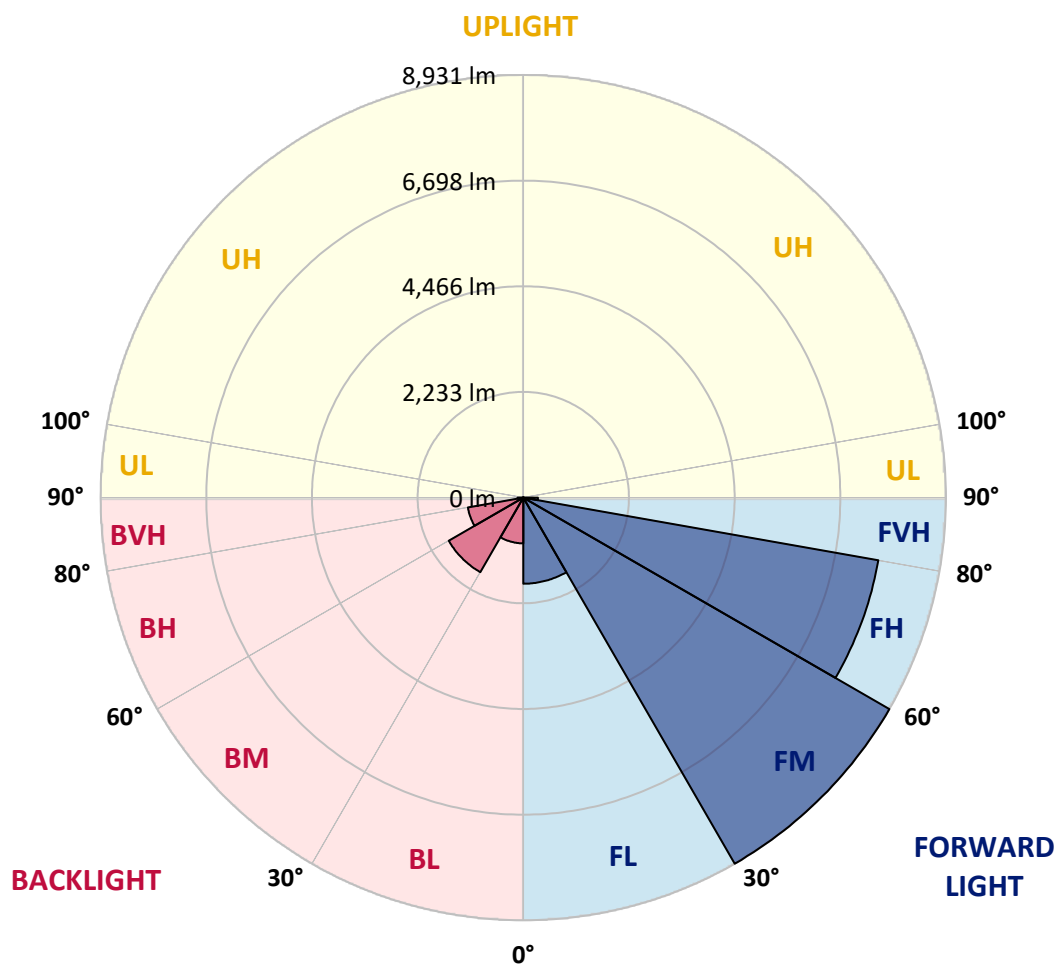
CATALOG NUMBER: GALN-SA5B-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1819.6	8.0			
FM	(30°-60°)	8931.1	39.2			
FH	(60°-80°)	7617.5	33.4			G4/12000
FVH	(80°-90°)	309.1	1.4			G3/500
BL	(0°-30°)	966.2	4.2	B2/1000		
BM	(30°-60°)	1819.0	8.0	B2/2500		
BH	(60°-80°)	1190.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	120.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P454326

CATALOG NUMBER: GALN-SA5B-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	3102.8	3087.8	3089.1	3067.8	3040.3	3010.2	2967.7	2930.1	2900.1	2882.6	2831.2
5°	3438.3	3423.3	3404.5	3358.2	3338.2	3264.3	3170.4	3085.3	3020.2	2983.9	2881.3
7.5°	3709.9	3706.1	3701.1	3674.8	3623.5	3520.9	3440.8	3293.1	3196.7	3127.9	2952.6
10°	3877.6	3883.9	3887.6	3892.6	3871.4	3817.5	3707.4	3520.9	3398.2	3310.6	3045.3
12.5°	3962.7	3969.0	3990.3	4036.6	4065.4	4059.1	3969.0	3786.2	3617.3	3502.1	3144.1
15°	4015.3	4025.3	4062.9	4124.2	4220.6	4281.9	4238.1	4069.1	3883.9	3747.4	3261.8
17.5°	4072.9	4084.1	4125.4	4213.1	4339.5	4472.1	4519.7	4374.5	4173.0	4010.3	3393.2
20°	4105.4	4120.4	4179.3	4294.4	4442.1	4634.9	4792.6	4716.2	4495.9	4315.7	3544.7
22.5°	4158.0	4170.5	4220.6	4343.2	4519.7	4761.3	5065.4	5049.2	4855.2	4622.3	3711.1
25°	4300.7	4320.7	4345.7	4419.6	4589.8	4890.2	5292.0	5404.6	5203.1	4942.8	3863.8
27.5°	4569.8	4586.0	4584.8	4594.8	4691.2	5001.6	5488.5	5756.3	5548.6	5266.9	4011.5
30°	4876.4	4882.7	4887.7	4865.2	4886.4	5115.5	5668.7	6104.3	5896.5	5599.9	4140.5
32.5°	5249.4	5261.9	5219.4	5161.8	5144.3	5284.5	5817.7	6452.3	6308.3	5937.8	4268.1
35°	5690.0	5722.5	5636.2	5534.8	5463.5	5527.3	6017.9	6807.7	6730.1	6369.7	4437.1
37.5°	6193.2	6233.2	6153.1	5954.1	5852.7	5870.2	6279.5	7247.1	7263.3	6861.6	4688.7
40°	6605.0	6657.5	6660.0	6378.4	6224.5	6244.5	6611.2	7720.2	7906.7	7469.9	4985.3
42.5°	6876.6	6927.9	6981.7	6816.5	6655.0	6768.9	6998.0	8233.4	8630.1	8208.3	5399.6
45°	7174.5	7220.8	7250.8	7175.7	7085.6	7381.0	7464.8	8779.1	9401.2	9033.2	5852.7
47.5°	7519.9	7571.2	7600.0	7528.7	7494.9	7917.9	7968.0	9288.5	10224.7	9834.2	6353.4
50°	7980.5	8019.3	8004.3	7959.2	7951.7	8329.7	8451.1	9765.4	10904.4	10696.6	6872.8
52.5°	8553.8	8600.1	8616.4	8552.5	8523.7	8623.9	8840.4	10199.7	11522.7	11437.6	7427.3
55°	8900.5	8974.3	9222.2	9322.3	9391.1	9004.4	9259.7	10679.1	12077.2	12218.6	8023.1
57.5°	8456.2	8551.3	9105.8	9606.4	10253.5	9955.6	9854.2	11179.7	12631.7	12975.9	8736.5
60°	7372.2	7393.5	8108.2	9030.7	10332.4	11178.5	11094.6	11975.8	13232.5	13739.4	9676.5
62.5°	5114.2	5159.3	6004.2	7476.1	9358.6	11619.1	13204.9	13350.1	14093.6	14882.1	11054.6
65°	2637.2	2578.4	3348.2	4698.7	7055.6	10572.7	14914.7	15877.2	15961.1	16669.5	12994.6
67.5°	1623.4	1649.7	2010.2	2743.6	4171.8	7683.9	14735.7	18965.0	18523.2	18863.6	14795.8
70°	1219.1	1251.7	1499.5	1877.5	2543.4	4393.3	11850.6	19713.5	20330.6	20243.0	15344.0
71°	1060.1	1093.9	1351.8	1708.5	2136.6	3390.7	9984.4	18930.0	20393.1	20378.1	15137.5
72.5°	903.7	925.0	1126.5	1446.9	1801.1	2376.9	7501.1	16977.4	19523.3	20022.7	14400.2
75°	709.7	726.0	816.1	1104.0	1418.1	1459.4	4025.3	12728.0	16034.9	16986.2	11988.3
77.5°	578.3	589.5	635.8	819.8	1093.9	1033.9	2111.5	8284.7	10045.8	11003.3	7061.8
80°	459.4	471.9	499.4	555.7	819.8	737.2	1007.6	4198.0	4852.7	4842.6	2818.7
82.5°	356.7	360.5	393.0	408.0	560.7	523.2	545.7	1777.3	1968.8	2033.9	1017.6
85°	225.3	236.6	348.0	312.9	335.4	306.7	269.1	705.9	869.9	857.4	406.8
87.5°	68.8	72.6	117.7	132.7	148.9	133.9	98.9	207.8	254.1	275.4	101.4
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: P454326

CATALOG NUMBER: GALN-SA5B-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9	2794.9
2.5°	2811.2	2797.4	2748.6	2708.6	2671.0	2629.7	2594.7	2584.7	2575.9	2572.1	2570.9
5°	2837.5	2796.2	2699.8	2621.0	2558.4	2500.8	2464.5	2448.2	2432.0	2432.0	2437.0
7.5°	2875.0	2799.9	2651.0	2533.3	2454.5	2400.7	2374.4	2371.9	2375.6	2379.4	2380.6
10°	2916.3	2797.4	2579.7	2433.2	2363.1	2338.1	2339.3	2360.6	2380.6	2395.7	2398.2
12.5°	2956.4	2782.4	2495.8	2339.3	2294.3	2299.3	2334.3	2381.9	2420.7	2442.0	2443.2
15°	3001.5	2758.6	2394.4	2250.5	2235.4	2274.2	2339.3	2411.9	2470.8	2505.8	2509.6
17.5°	3039.0	2718.6	2288.0	2164.1	2182.9	2254.2	2344.3	2438.2	2509.6	2553.4	2560.9
20°	3081.6	2667.3	2177.9	2081.5	2135.3	2231.7	2334.3	2435.7	2509.6	2552.1	2562.1
22.5°	3115.4	2594.7	2072.7	2013.9	2092.8	2204.2	2300.5	2381.9	2442.0	2464.5	2479.5
25°	3129.1	2503.3	1973.9	1958.8	2059.0	2159.1	2224.2	2270.5	2289.3	2286.8	2293.0
27.5°	3121.6	2398.2	1888.7	1915.0	2016.4	2089.0	2121.5	2117.8	2084.0	2052.7	2067.7
30°	3090.3	2273.0	1817.4	1870.0	1961.3	2001.4	1996.4	1947.6	1883.7	1824.9	1828.7
32.5°	3034.0	2137.8	1751.1	1818.6	1883.7	1901.3	1867.5	1803.6	1712.3	1635.9	1624.6
35°	2986.4	2008.9	1692.2	1759.8	1806.1	1797.4	1764.8	1682.2	1599.6	1532.0	1520.8
37.5°	2978.9	1898.8	1635.9	1693.5	1719.8	1707.3	1667.2	1597.1	1567.1	1515.7	1509.5
40°	3019.0	1821.2	1578.3	1623.4	1635.9	1625.9	1582.1	1542.0	1569.6	1557.1	1557.1
42.5°	3127.9	1779.8	1527.0	1553.3	1563.3	1570.8	1539.5	1505.7	1539.5	1482.0	1463.2
45°	3300.6	1781.1	1480.7	1484.5	1514.5	1540.8	1519.5	1469.4	1451.9	1336.8	1314.2
47.5°	3554.7	1823.7	1443.2	1419.4	1473.2	1517.0	1487.0	1414.4	1336.8	1260.4	1246.6
50°	3851.3	1900.0	1409.4	1351.8	1418.1	1487.0	1464.4	1379.3	1299.2	1252.9	1244.1
52.5°	4180.5	1996.4	1368.1	1276.7	1350.5	1473.2	1469.4	1374.3	1264.2	1232.9	1225.4
55°	4587.3	2091.5	1316.7	1189.1	1290.5	1461.9	1455.7	1333.0	1256.7	1234.1	1231.6
57.5°	5060.4	2229.2	1242.9	1100.2	1221.6	1415.6	1401.8	1308.0	1231.6	1215.4	1214.1
60°	5822.7	2443.2	1137.8	1018.8	1151.5	1334.3	1351.8	1265.4	1191.6	1187.8	1186.6
62.5°	6825.3	2743.6	1028.9	935.0	1070.2	1229.1	1279.2	1207.8	1149.0	1167.8	1170.3
65°	8209.6	2996.5	916.2	863.6	980.0	1127.7	1210.3	1154.0	1101.5	1137.8	1137.8
67.5°	9112.0	3001.5	813.6	789.8	888.7	1042.6	1137.8	1090.2	1040.1	1101.5	1104.0
70°	8924.3	2629.7	728.5	712.2	799.8	951.3	1057.6	1020.1	962.5	1017.6	997.6
71°	8621.4	2423.2	694.7	682.1	764.8	907.4	1020.1	988.8	931.2	967.5	956.3
72.5°	8138.2	2104.0	639.6	642.1	712.2	852.4	967.5	935.0	877.4	897.4	893.7
75°	6879.1	1837.4	547.0	558.2	612.1	758.5	862.4	837.4	778.5	778.5	774.8
77.5°	4300.7	1284.2	454.3	460.6	519.4	649.6	741.0	719.7	663.4	644.6	639.6
80°	1604.6	663.4	355.5	363.0	399.3	511.9	613.3	593.3	535.7	514.4	494.4
82.5°	607.1	332.9	261.6	255.3	294.1	390.5	480.6	456.9	411.8	360.5	345.5
85°	229.1	165.2	160.2	155.2	172.7	231.6	297.9	292.9	245.3	209.0	205.3
87.5°	60.1	53.8	62.6	46.3	48.8	43.8	45.1	18.8	8.8	3.8	2.5
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)