

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: P456177

Luminaire Tested: **GALN-SA7B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27147 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
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

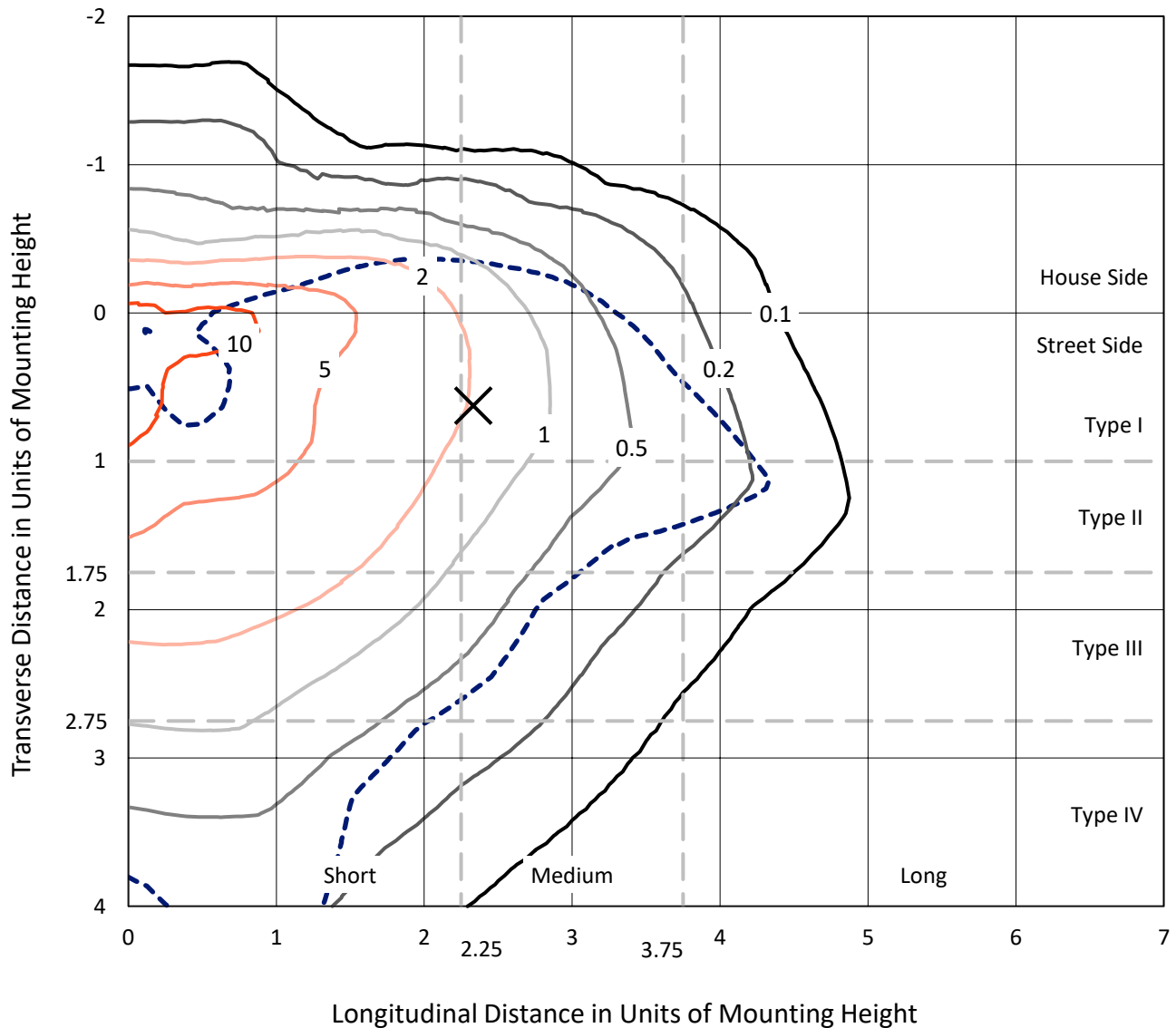


REPORT NUMBER: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

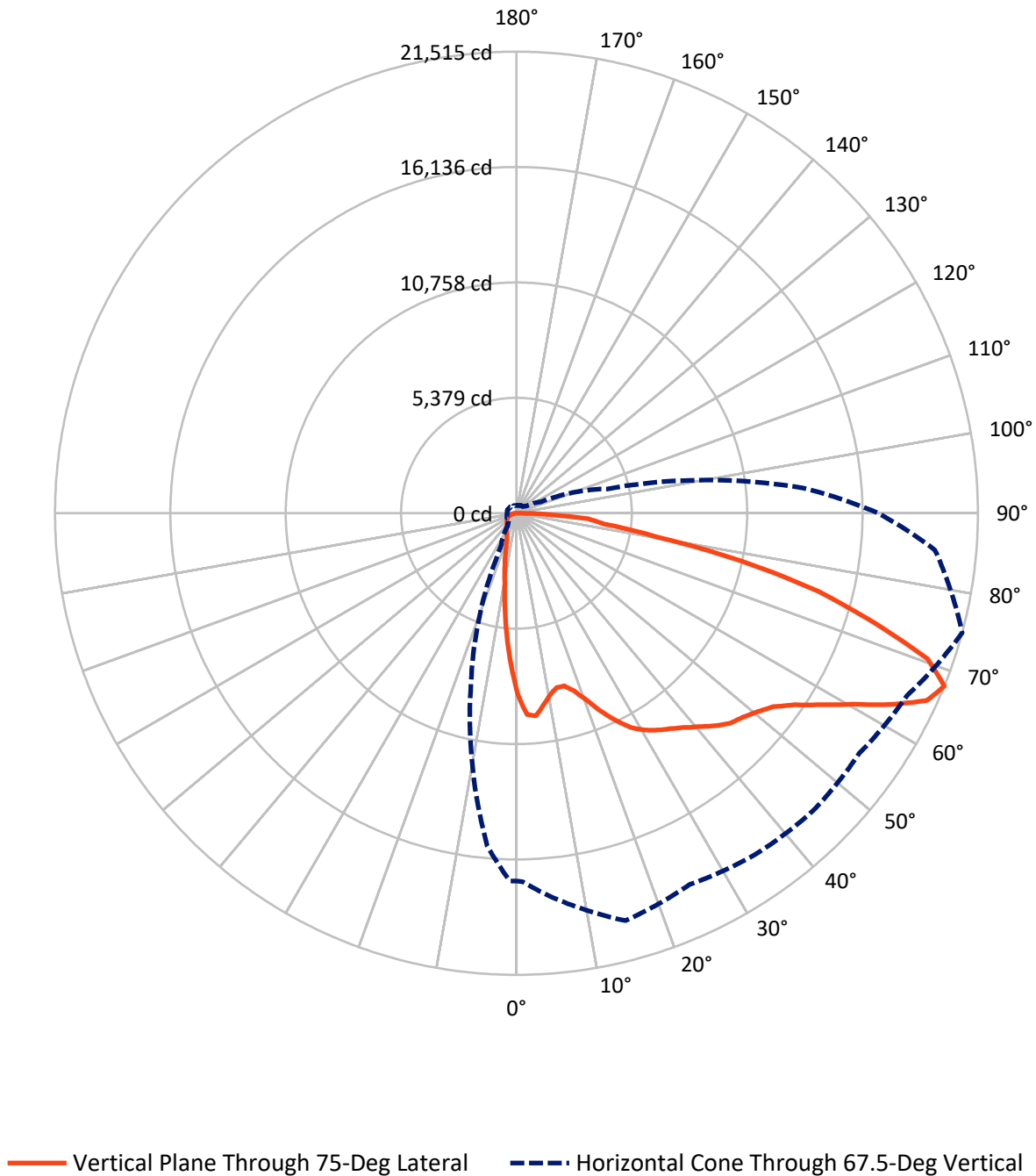
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
Type III - Medium - N/A

REPORT NUMBER: P456177
CATALOG NUMBER: GALN-SA7B-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

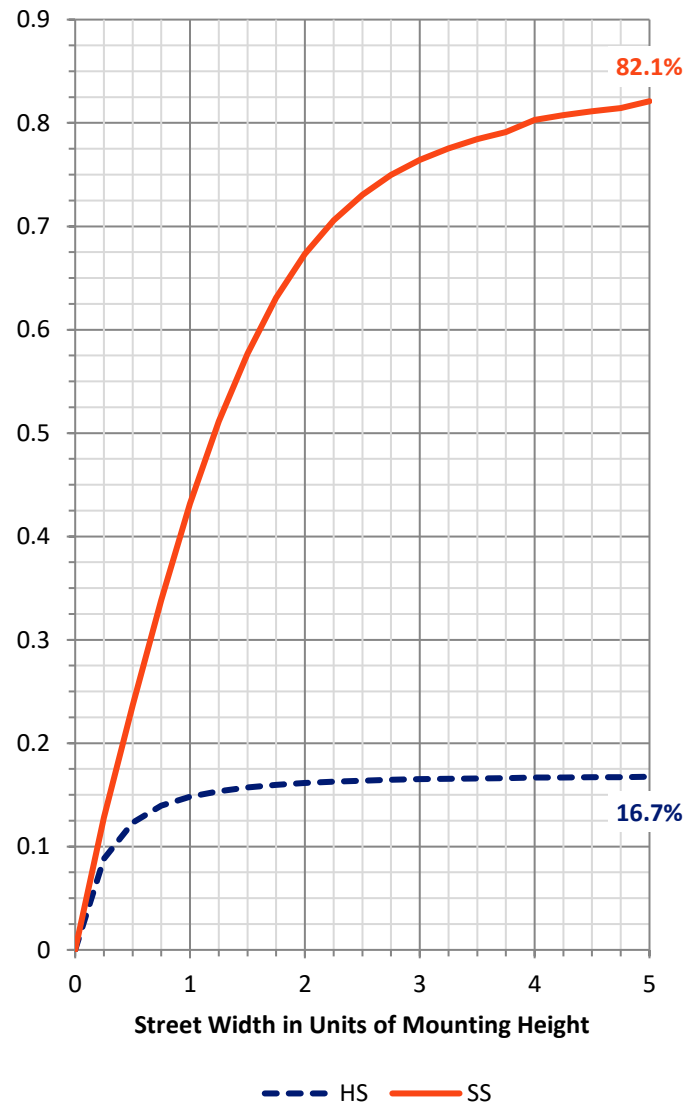
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4588.4	0.0	4588.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	22558.6	0.0	22558.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	27147.0	0.0	27147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.3	2.4
10°-20°	1341.6	4.9
20°-30°	1930.6	7.1
30°-40°	2780.6	10.2
40°-50°	3905.9	14.4
50°-60°	5447.4	20.1
60°-70°	6476.6	23.9
70°-80°	3814.4	14.1
80°-90°	806.6	3.0
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°	27147.0	100.0
0°-180°	27147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456177

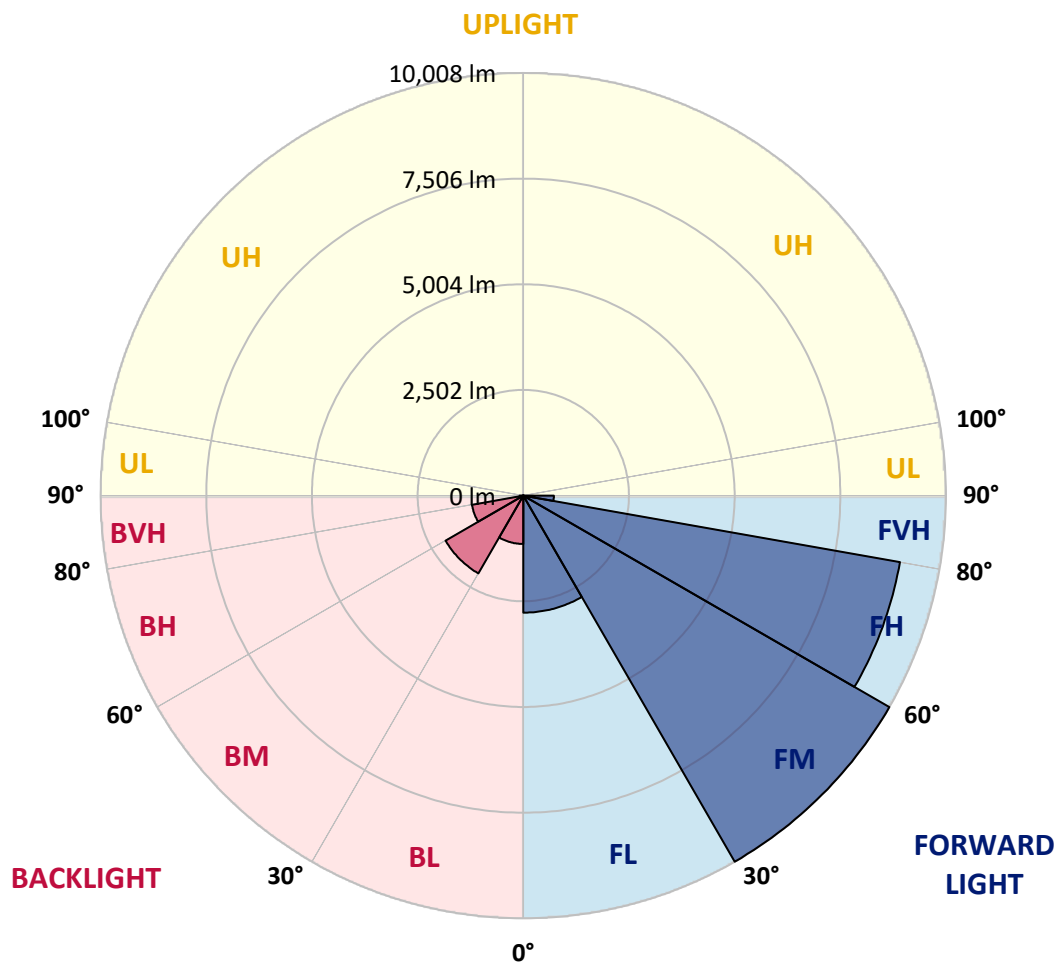
CATALOG NUMBER: GALN-SA7B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2771.0	10.2			
FM	(30°-60°)	10008.1	36.9			
FH	(60°-80°)	9056.3	33.4			G4/12000
FVH	(80°-90°)	723.2	2.7			G4/750
BL	(0°-30°)	1144.5	4.2	B3/2500		
BM	(30°-60°)	2125.8	7.8	B2/2500		
BH	(60°-80°)	1234.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	83.4	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 III Medium





REPORT NUMBER: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4
2.5°	9144.6	9156.8	9235.1	9463.2	9619.9	9677.3	9717.4	9642.5	9569.4	9391.8	9123.7
5°	9116.8	9188.1	9391.8	9903.6	10307.5	10481.6	10533.8	10309.2	9938.4	9482.3	8934.0
7.5°	8584.1	8679.8	8993.2	9851.4	10563.4	10970.8	10916.8	10511.2	9842.7	9029.7	8263.8
10°	7952.2	8058.3	8436.1	9473.6	10391.1	10951.6	10951.6	10457.2	9569.4	8603.2	7720.6
12.5°	7450.8	7562.2	7993.9	9085.4	10032.5	10563.4	10652.2	10227.4	9372.7	8333.4	7363.7
15°	7285.4	7393.3	7858.1	8850.4	9652.9	9976.7	10006.3	9867.1	9276.9	8352.5	7348.1
17.5°	7490.8	7630.1	8100.1	8920.1	9304.8	9323.9	9346.6	9456.2	9287.4	8702.5	7664.9
20°	8084.5	8234.2	8725.1	9144.6	9000.1	8801.7	8813.9	9095.9	9411.0	9280.4	8422.2
22.5°	8940.9	9071.5	9574.6	9539.8	8871.3	8462.2	8376.9	8770.3	9593.8	10001.1	9228.2
25°	9865.3	10018.5	10596.5	10126.5	8907.9	8260.3	8206.3	8578.9	9783.5	10674.8	10159.5
27.5°	10923.8	11073.5	11529.6	10718.3	9099.4	8244.6	8180.2	8561.4	9954.1	11298.0	11049.1
30°	11710.6	11848.1	12158.0	11216.2	9334.4	8349.1	8269.0	8699.0	10100.3	11724.5	11916.0
32.5°	12328.6	12471.4	12640.2	11526.1	9644.2	8538.8	8390.8	8949.7	10291.8	12050.1	12558.4
35°	12972.7	13141.6	13129.4	11801.1	9933.2	8758.2	8613.7	9311.7	10593.0	12333.8	13373.1
37.5°	13789.2	13857.1	13770.0	12048.3	10279.7	9153.3	9073.3	9849.7	11021.2	12676.8	14325.4
40°	14617.8	14753.6	14306.2	12347.8	10700.9	9896.7	9888.0	10645.2	11529.6	13078.9	15248.0
42.5°	15328.1	15443.0	14807.6	12608.9	11211.0	10803.6	10869.8	11712.4	12196.3	13545.5	15989.6
45°	15862.5	15965.2	15270.6	12861.3	11883.0	11851.6	12241.6	12856.1	13037.1	13965.0	16424.8
47.5°	16316.9	16416.1	15592.7	13244.3	12713.3	13103.3	13782.2	14048.6	13756.1	14205.2	16912.2
50°	16699.9	16729.5	15813.8	13700.4	13743.9	14637.0	15295.0	15467.4	14466.4	14549.9	17335.3
52.5°	17098.5	17060.2	16195.0	14274.9	14858.1	16092.3	16571.0	16750.3	15147.0	14974.7	17951.5
55°	17991.6	18028.1	17049.8	14999.1	15984.4	17521.5	18151.7	17979.4	15900.8	15756.3	18734.9
57.5°	19070.9	19039.6	18252.7	16132.4	17131.6	18851.5	19321.6	19044.8	16907.0	16830.4	19528.7
60°	19490.4	19532.2	19258.9	17350.9	18263.1	20016.2	20496.6	20066.6	18113.4	18078.6	20127.6
62.5°	19069.1	19304.2	19488.7	18435.5	19227.6	20872.7	21349.6	20858.7	19372.1	19624.5	20547.1
65°	18230.1	18280.5	18909.0	19354.6	19692.4	21013.7	21262.6	21001.5	20423.5	21032.8	20528.0
67.5°	17140.3	17183.8	17920.2	19655.8	19093.5	19412.1	19586.2	19509.6	20098.0	21515.0	19582.7
70°	16102.8	16067.9	16846.1	18888.1	16621.5	16137.6	16282.1	16041.8	17342.2	20336.5	17728.7
72.5°	14083.4	14208.7	15044.3	16753.8	13160.7	12373.9	12689.0	12067.5	13338.3	17417.1	14389.8
75°	11031.7	11061.3	12455.7	14060.8	9928.0	8686.8	9113.3	8853.9	10217.0	14529.0	9936.7
77.5°	7638.8	7572.6	9071.5	10739.2	7080.0	6359.3	6366.2	6242.6	7134.0	10697.5	6751.0
80°	4851.7	4750.7	5678.6	6634.3	4865.6	5205.1	5034.5	5029.3	4644.6	6599.5	4082.3
82.5°	2621.7	2733.1	3587.9	4158.9	3490.4	4023.1	3687.1	3579.2	3187.5	4131.0	2611.3
85°	1194.2	1298.7	1913.2	2828.9	2651.3	2680.9	1791.3	2113.4	2637.4	3354.6	1394.4
87.5°	116.6	149.7	395.2	1335.2	905.2	713.7	266.3	513.5	663.3	1192.5	111.4
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: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4
2.5°	9014.1	8923.5	8615.4	8361.2	8091.4	7886.0	7617.9	7438.6	7315.0	7128.7	7106.1
5°	8599.7	8378.7	7842.5	7295.9	6824.1	6469.0	6108.6	5777.8	5582.9	5521.9	5443.6
7.5°	7901.7	7529.1	6839.8	6213.1	5671.7	5142.4	4735.1	4446.1	4252.9	4139.7	4003.9
10°	7327.2	6895.5	6056.4	5288.7	4843.0	4514.0	4155.4	3845.5	3607.0	3403.3	3291.9
12.5°	6940.7	6453.3	5509.8	4886.5	4541.8	4191.9	3772.4	3424.2	3072.6	2841.0	2741.8
15°	6824.1	6308.8	5340.9	4686.3	4191.9	3734.1	3264.1	2809.7	2461.5	2242.2	2169.1
17.5°	7109.6	6486.4	5339.2	4420.0	3781.1	3234.5	2632.1	2205.6	1848.8	1685.1	1632.9
20°	7642.3	6827.6	5354.8	4157.1	3335.4	2566.0	1914.9	1565.0	1394.4	1324.8	1298.7
22.5°	8385.6	7348.1	5401.8	3897.7	2848.0	1970.6	1434.5	1256.9	1196.0	1183.8	1178.5
25°	9301.3	7992.2	5560.2	3664.5	2437.2	1504.1	1199.4	1119.4	1084.5	1072.4	1070.6
27.5°	10143.9	8824.3	5751.7	3464.3	2040.3	1296.9	1084.5	1016.6	981.8	980.1	983.6
30°	10904.6	9520.6	5911.9	3239.7	1739.1	1152.4	1009.7	941.8	908.7	907.0	917.4
32.5°	11562.6	10093.4	6030.3	3018.6	1572.0	1063.7	941.8	868.7	840.8	835.6	840.8
35°	12265.9	10664.4	5976.3	2846.3	1476.2	990.5	891.3	819.9	786.9	771.2	771.2
37.5°	13068.5	11252.8	5884.0	2703.5	1432.7	929.6	847.8	778.2	745.1	729.4	727.7
40°	13944.1	11841.2	5757.0	2576.4	1389.2	893.1	818.2	745.1	705.0	689.4	685.9
42.5°	14717.0	12344.3	5652.5	2492.9	1317.8	900.0	792.1	720.7	670.2	649.3	647.6
45°	15389.0	12850.9	5633.4	2444.1	1258.6	889.6	785.1	701.6	642.4	619.7	616.3
47.5°	15914.7	13378.3	5743.0	2416.3	1194.2	833.9	830.4	689.4	618.0	593.6	590.1
50°	16555.4	14126.9	5993.7	2358.8	1135.0	781.6	877.4	687.6	598.8	567.5	558.8
52.5°	17408.4	15101.8	6333.2	2256.1	1049.7	732.9	837.3	687.6	576.2	544.9	534.4
55°	18698.3	16344.7	6665.7	2111.6	929.6	668.5	755.5	666.7	543.1	515.3	508.3
57.5°	19553.1	17253.5	6878.1	1911.4	779.9	621.5	651.1	633.7	510.1	480.5	480.5
60°	19596.6	17497.2	6777.1	1659.0	685.9	578.0	565.8	638.9	480.5	449.1	445.7
62.5°	19095.3	16900.1	6251.4	1432.7	635.4	531.0	511.8	560.6	450.9	419.5	414.3
65°	18311.9	15376.8	5339.2	1324.8	607.6	489.2	461.3	459.6	419.5	389.9	383.0
67.5°	16872.2	13437.5	4386.9	1262.1	593.6	442.2	416.1	407.4	383.0	358.6	355.1
70°	14750.1	11254.5	3518.2	1236.0	586.7	393.4	372.5	362.1	341.2	322.1	320.3
72.5°	11475.6	9129.0	2903.7	1218.6	583.2	348.2	325.5	311.6	299.4	282.0	282.0
75°	8242.9	6716.2	2216.1	1098.5	539.7	299.4	275.1	266.3	248.9	235.0	238.5
77.5°	5196.4	4522.7	1458.8	807.7	417.8	240.2	219.3	214.1	200.2	181.0	193.2
80°	3509.5	3180.5	851.3	508.3	262.9	175.8	168.9	167.1	151.5	130.6	132.3
82.5°	2388.4	2343.2	442.2	289.0	151.5	102.7	99.2	102.7	85.3	69.6	69.6
85°	933.1	1274.3	208.9	113.2	48.7	15.7	22.6	24.4	13.9	7.0	8.7
87.5°	17.4	130.6	5.2	0.0	0.0	0.0	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

REPORT NUMBER: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4
2.5°	7071.3	7055.6	7081.7	6970.3	6992.9	7034.7	7055.6	7067.8	7240.1	7200.1	7309.8
5°	5516.7	5501.0	5602.0	5615.9	5668.2	5657.7	5708.2	5720.4	5783.1	5805.7	5958.9
7.5°	4012.6	4080.5	4195.4	4254.6	4343.4	4371.2	4345.1	4409.5	4279.0	4373.0	4400.8
10°	3224.0	3142.2	3093.5	3229.3	3246.7	3375.5	3323.3	3281.5	3358.1	3361.6	3434.7
12.5°	2684.4	2508.5	2391.9	2430.2	2472.0	2527.7	2536.4	2620.0	2675.7	2727.9	2771.4
15°	2104.7	2043.7	1937.6	1885.3	1944.5	1967.1	2021.1	2090.7	2149.9	2165.6	2224.8
17.5°	1615.5	1625.9	1608.5	1577.2	1613.8	1631.2	1634.6	1636.4	1652.1	1641.6	1728.7
20°	1300.4	1337.0	1380.5	1387.4	1399.6	1408.3	1392.7	1333.5	1335.2	1371.8	1399.6
22.5°	1176.8	1183.8	1232.5	1248.2	1286.5	1270.8	1225.6	1197.7	1194.2	1202.9	1216.8
25°	1079.3	1089.8	1124.6	1149.0	1178.5	1150.7	1117.6	1091.5	1088.0	1096.7	1110.7
27.5°	992.3	1007.9	1039.3	1063.7	1091.5	1065.4	1034.1	1011.4	1009.7	1007.9	1016.6
30°	922.6	940.1	962.7	990.5	1009.7	987.1	957.5	945.3	943.5	940.1	943.5
32.5°	853.0	880.9	903.5	917.4	936.6	919.2	896.5	889.6	877.4	866.9	861.7
35°	774.7	804.3	839.1	856.5	875.6	858.2	842.6	813.0	792.1	790.3	793.8
37.5°	729.4	741.6	769.5	799.0	818.2	809.5	779.9	750.3	745.1	745.1	748.6
40°	689.4	694.6	706.8	745.1	779.9	753.8	717.2	708.5	708.5	706.8	708.5
42.5°	649.3	654.6	654.6	684.1	739.9	698.1	670.2	670.2	670.2	672.0	677.2
45°	612.8	614.5	612.8	633.7	685.9	651.1	631.9	637.1	640.6	644.1	647.6
47.5°	581.4	583.2	581.4	598.8	625.0	611.0	600.6	607.6	614.5	619.7	623.2
50°	553.6	551.8	555.3	565.8	578.0	581.4	574.5	584.9	588.4	595.4	604.1
52.5°	529.2	527.5	531.0	536.2	553.6	553.6	553.6	562.3	569.3	576.2	588.4
55°	501.4	503.1	508.3	515.3	537.9	534.4	536.2	543.1	550.1	560.6	567.5
57.5°	475.2	478.7	485.7	496.1	518.8	517.0	518.8	522.3	531.0	536.2	543.1
60°	445.7	452.6	461.3	468.3	490.9	489.2	497.9	504.8	510.1	510.1	513.5
62.5°	416.1	426.5	435.2	440.4	464.8	466.5	478.7	484.0	487.4	484.0	489.2
65°	386.5	402.1	405.6	412.6	437.0	438.7	452.6	464.8	461.3	457.8	466.5
67.5°	356.9	376.0	374.3	383.0	407.4	410.8	423.0	443.9	437.0	433.5	440.4
70°	323.8	337.7	339.5	344.7	377.8	372.5	391.7	410.8	405.6	407.4	407.4
72.5°	287.2	299.4	299.4	309.9	344.7	336.0	351.6	372.5	372.5	370.8	370.8
75°	243.7	250.7	257.6	273.3	309.9	299.4	309.9	329.0	332.5	329.0	329.0
77.5°	196.7	207.2	210.6	231.5	257.6	255.9	266.3	275.1	282.0	278.5	278.5
80°	139.3	149.7	163.6	186.3	201.9	207.2	212.4	219.3	222.8	222.8	226.3
82.5°	78.3	94.0	106.2	128.8	135.8	161.9	160.2	165.4	160.2	141.0	156.7
85°	17.4	33.1	47.0	59.2	67.9	94.0	99.2	111.4	92.3	85.3	85.3
87.5°	0.0	0.0	0.0	0.0	0.0	13.9	27.9	38.3	33.1	27.9	27.9
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: P456177

CATALOG NUMBER: GALN-SA7B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4	8481.4
2.5°	7402.0	7553.5	7736.3	8051.4	8272.5	8511.0	8751.2	9007.1	9075.0	9144.6
5°	6000.7	6298.4	6460.3	6883.3	7327.2	7891.2	8352.5	8857.4	9068.0	9116.8
7.5°	4545.3	4747.3	5172.0	5600.3	6150.4	6742.3	7449.0	8235.9	8481.4	8584.1
10°	3603.5	3878.6	4251.1	4710.7	5192.9	5830.1	6627.4	7546.5	7894.7	7952.2
12.5°	3067.4	3373.7	3779.4	4265.1	4721.2	5201.6	6005.9	6954.6	7327.2	7450.8
15°	2452.8	2823.6	3291.9	3803.7	4299.9	4825.6	5640.3	6710.9	7140.9	7285.4
17.5°	1927.1	2226.5	2733.1	3288.4	3876.8	4541.8	5563.7	6827.6	7356.8	7490.8
20°	1474.5	1688.6	2115.1	2701.8	3391.2	4261.6	5582.9	7268.0	7901.7	8084.5
22.5°	1274.3	1384.0	1643.4	2202.2	2973.4	4017.9	5661.2	7872.1	8636.3	8940.9
25°	1154.2	1211.6	1357.9	1723.4	2574.7	3781.1	5840.5	8685.0	9663.4	9865.3
27.5°	1051.5	1093.2	1183.8	1446.6	2212.6	3561.8	6049.4	9586.8	10622.6	10923.8
30°	954.0	1009.7	1095.0	1284.7	1981.1	3361.6	6312.3	10317.9	11430.3	11710.6
32.5°	879.1	934.8	1013.2	1171.6	1784.4	3150.9	6469.0	10960.3	12090.1	12328.6
35°	818.2	865.2	947.0	1081.1	1634.6	2990.8	6437.6	11470.4	12729.0	12972.7
37.5°	774.7	814.7	896.5	995.8	1521.5	2823.6	6422.0	12144.1	13507.2	13789.2
40°	734.6	776.4	851.3	940.1	1408.3	2626.9	6430.7	12812.6	14335.8	14617.8
42.5°	703.3	750.3	811.2	924.4	1291.7	2468.5	6430.7	13394.0	15056.5	15328.1
45°	677.2	727.7	786.9	922.6	1199.4	2348.4	6387.1	13893.6	15631.0	15862.5
47.5°	654.6	710.3	795.6	891.3	1176.8	2261.3	6348.8	14294.0	16099.3	16316.9
50°	638.9	705.0	846.0	854.8	1183.8	2235.2	6533.4	14798.9	16511.9	16699.9
52.5°	626.7	706.8	844.3	800.8	1171.6	2252.6	6918.1	15587.5	17084.6	17098.5
55°	602.3	705.0	800.8	739.9	1121.1	2282.2	7412.5	16732.9	17981.1	17991.6
57.5°	578.0	685.9	743.3	687.6	1018.4	2282.2	8007.9	17817.5	19062.2	19070.9
60°	553.6	713.7	652.8	642.4	884.3	2240.5	8636.3	18294.5	19401.6	19490.4
62.5°	529.2	719.0	583.2	602.3	786.9	2139.5	9104.6	17767.0	18942.1	19069.1
65°	501.4	579.7	537.9	560.6	736.4	1970.6	8956.6	16800.8	18078.6	18230.1
67.5°	468.3	490.9	489.2	517.0	719.0	1721.7	8176.7	15578.8	17149.0	17140.3
70°	428.2	440.4	445.7	475.2	685.9	1528.5	6813.6	13992.9	15907.8	16102.8
72.5°	386.5	396.9	402.1	428.2	652.8	1418.8	5288.7	11808.1	13778.7	14083.4
75°	341.2	348.2	355.1	377.8	618.0	1256.9	3767.2	9014.1	10553.0	11031.7
77.5°	294.2	294.2	302.9	325.5	520.5	1037.5	2527.7	6322.7	7149.6	7638.8
80°	238.5	240.2	236.8	261.1	383.0	710.3	1436.2	4223.3	4757.7	4851.7
82.5°	182.8	177.6	179.3	191.5	285.5	484.0	766.0	2623.4	2673.9	2621.7
85°	114.9	114.9	111.4	125.3	182.8	252.4	417.8	1606.8	1255.1	1194.2
87.5°	47.0	38.3	43.5	50.5	87.0	102.7	163.6	330.8	127.1	116.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)