

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: P528340

Luminaire Tested: **GALN-SA3B-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10053 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

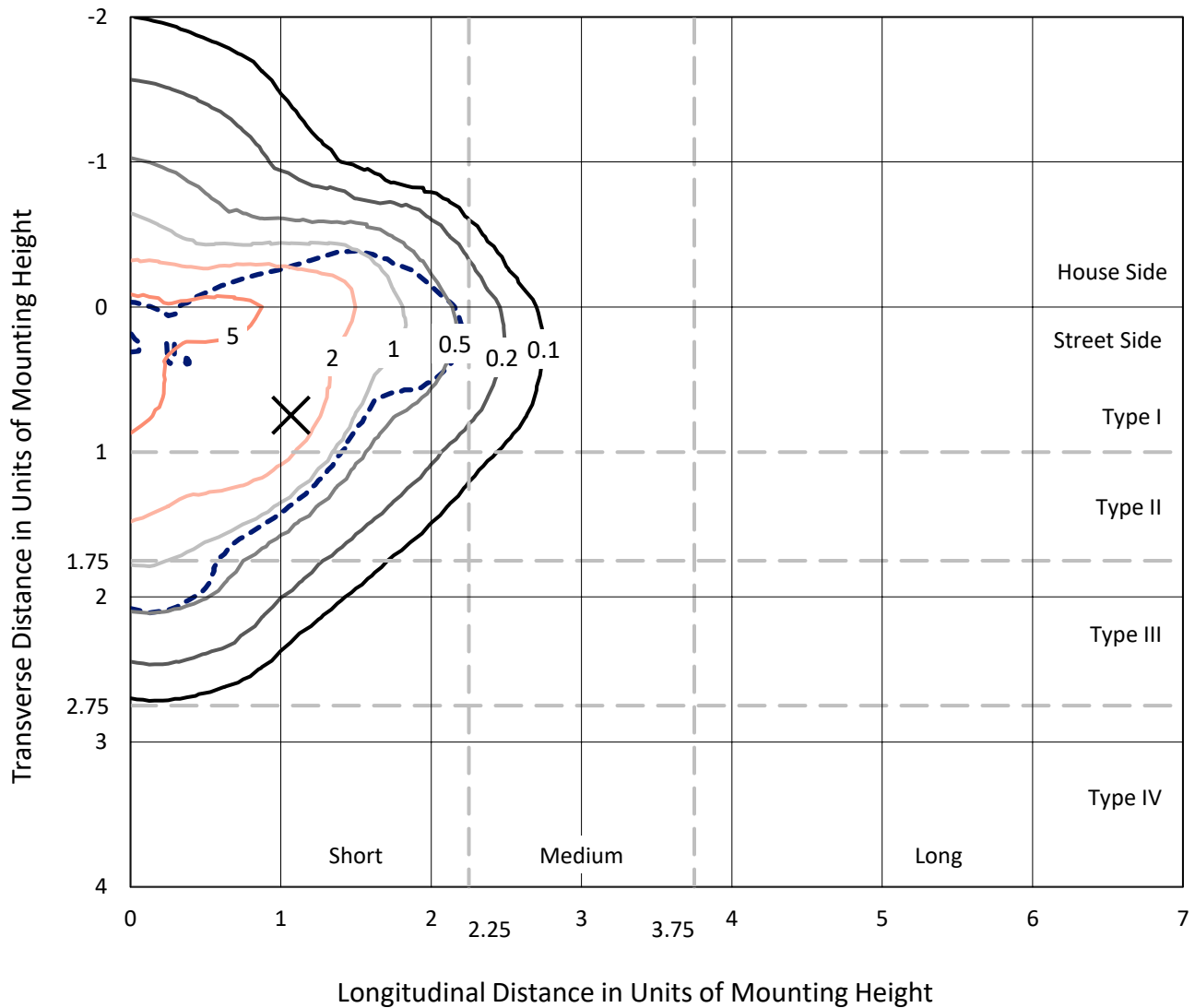


REPORT NUMBER: P528340

CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

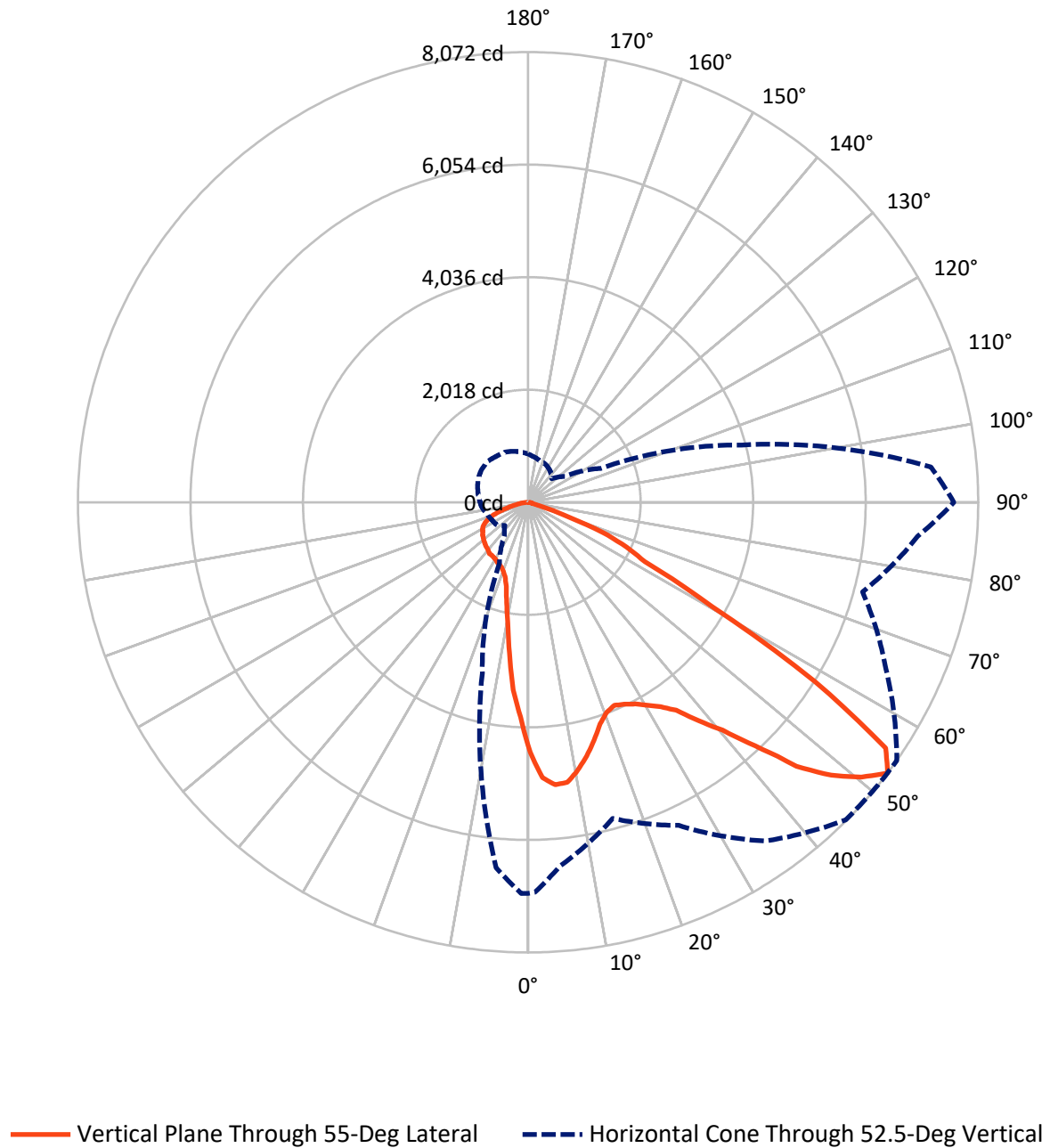
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

REPORT NUMBER: P528340
CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528340

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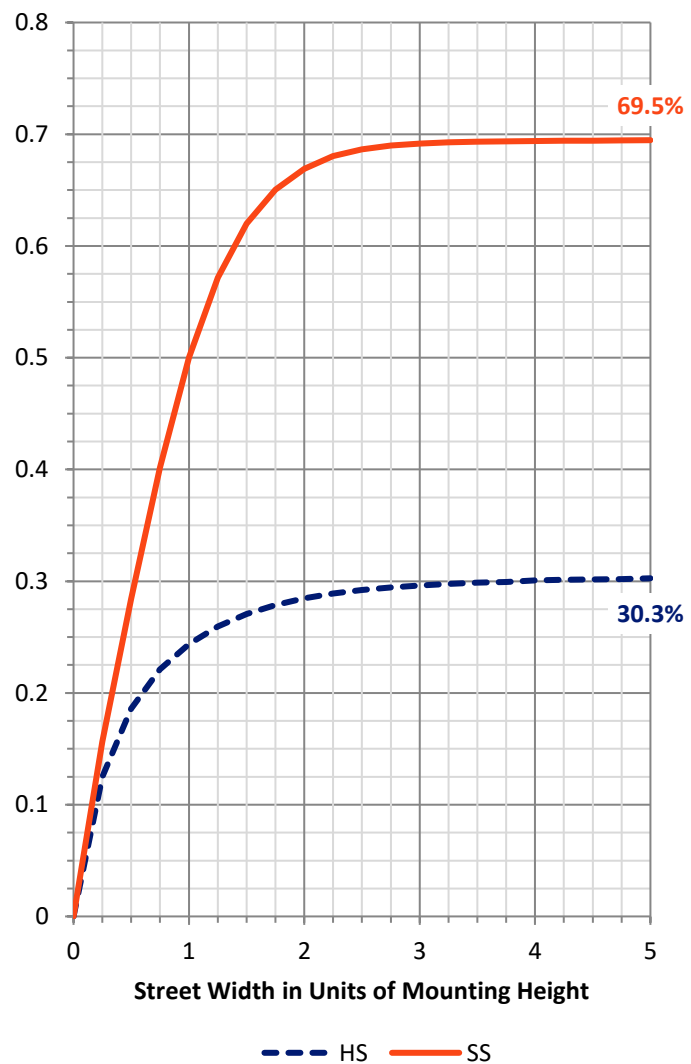
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3066.7	0.0	3066.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6986.3	0.0	6986.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	10053.0	0.0	10053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.6	3.4
10°-20°	738.7	7.3
20°-30°	1120.1	11.1
30°-40°	1618.4	16.1
40°-50°	2162.6	21.5
50°-60°	2413.9	24.0
60°-70°	1324.1	13.2
70°-80°	286.3	2.8
80°-90°	46.3	0.5
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°	10053.0	100.0
0°-180°	10053.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528340

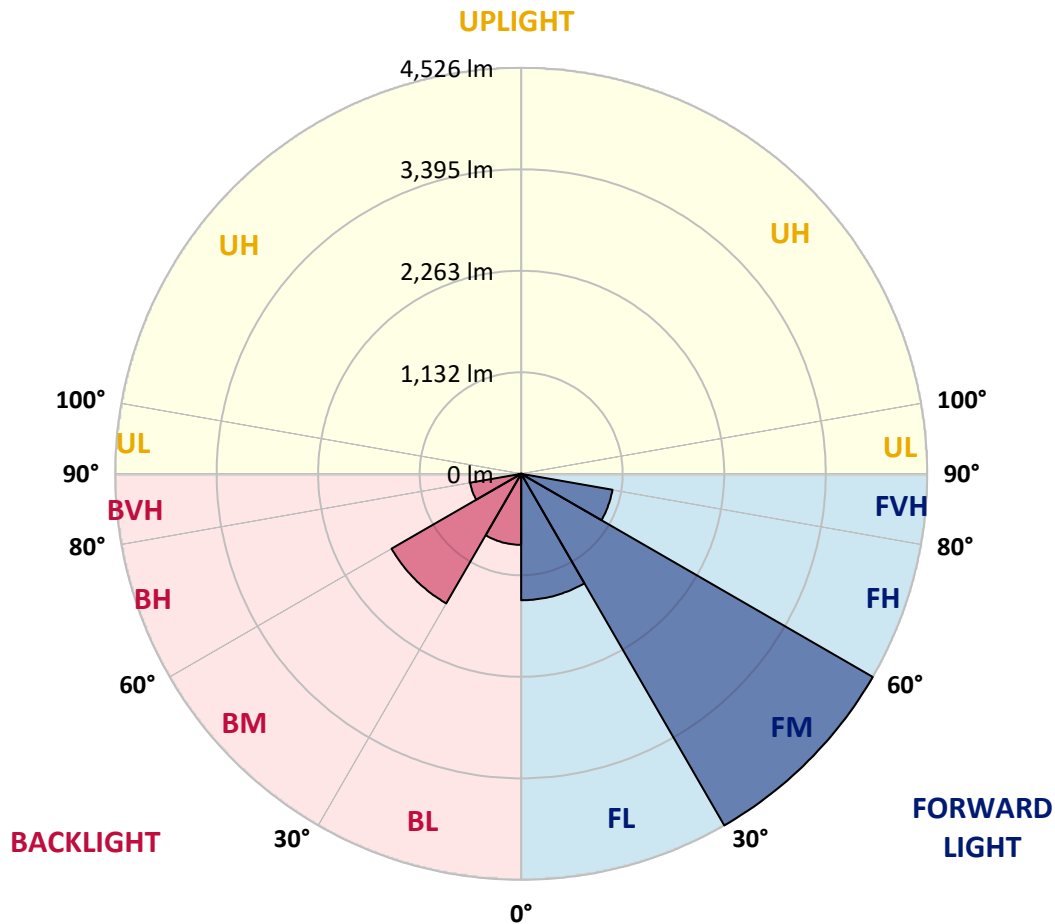
CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.6	14.0			
FM	(30°-60°)	4526.3	45.0			
FH	(60°-80°)	1033.2	10.3			G1/1800
FVH	(80°-90°)	17.1	0.2			G1/100
BL	(0°-30°)	791.8	7.9	B2/1000		
BM	(30°-60°)	1668.5	16.6	B2/2500		
BH	(60°-80°)	577.2	5.7	B2/1000		G2/1000
BVH	(80°-90°)	29.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P528340

CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4
2.5°	4706.1	4679.6	4703.1	4814.7	4879.3	4923.3	4951.2	4946.8	4841.1	4738.4	4738.4
5°	4568.1	4534.3	4582.8	4835.2	5089.2	5111.2	5147.9	5087.7	4932.1	4744.2	4509.4
7.5°	4168.8	4193.8	4274.5	4606.3	4936.5	5102.4	5146.4	5070.1	4817.6	4466.8	4121.8
10°	3823.9	3882.6	4069.0	4427.2	4731.0	4946.8	4995.2	4888.1	4688.5	4258.4	3950.1
12.5°	3705.0	3668.3	3875.2	4233.4	4524.0	4640.0	4662.0	4669.4	4534.3	4152.7	3776.9
15°	3690.3	3713.8	3875.2	4146.8	4325.9	4331.8	4368.5	4425.7	4443.3	4224.6	3857.6
17.5°	3901.7	3873.8	4039.6	4255.4	4170.3	4085.1	4094.0	4176.2	4321.5	4286.2	4111.6
20°	4214.3	4277.4	4408.1	4386.1	4157.1	3941.3	3942.8	4020.6	4306.8	4541.7	4465.3
22.5°	4734.0	4795.6	4892.5	4626.8	4157.1	3898.7	3848.8	3954.5	4400.7	4845.5	4864.6
25°	5208.1	5321.1	5347.5	5034.9	4365.5	3938.4	3906.1	4010.3	4494.7	5142.0	5322.6
27.5°	5639.6	5680.7	5796.7	5297.6	4481.5	3964.8	3961.8	4095.4	4613.6	5290.3	5732.1
30°	5980.2	5975.8	6041.9	5463.5	4666.4	4113.0	3970.7	4223.1	4769.2	5535.4	6110.8
32.5°	6212.1	6262.0	6401.5	5694.0	4744.2	4254.0	4142.4	4372.9	4958.5	5651.4	6378.0
35°	6620.2	6706.8	6530.7	5821.7	4990.8	4393.4	4262.8	4576.9	5052.5	5777.6	6705.3
37.5°	7004.8	6938.7	6759.7	5890.7	5150.8	4651.8	4529.9	4971.8	5344.6	6052.1	6922.6
40°	7251.4	7249.9	6931.4	5946.4	5263.9	5046.6	5039.3	5372.5	5702.8	6225.3	7166.3
42.5°	7358.6	7461.3	7001.9	5940.6	5501.7	5525.2	5673.4	5971.4	5956.7	6260.6	7160.4
44°	7505.3	7567.0	7123.7	5953.8	5660.2	5848.1	6197.4	6386.8	6178.4	6241.5	7153.0
45°	7499.5	7503.9	6950.5	5971.4	5795.2	6118.2	6430.8	6750.8	6373.6	6200.4	7249.9
47.5°	7327.7	7277.8	6803.7	5840.7	6216.5	6831.6	7120.8	7314.5	6614.3	6112.3	7129.6
50°	6988.6	6931.4	6447.0	5785.0	6304.6	7274.9	7674.1	7744.6	6833.0	6025.7	7010.7
52.5°	7012.1	6996.0	6548.3	5868.6	6392.7	7414.3	8054.3	8071.9	7081.1	6207.7	7012.1
55°	7431.9	7376.2	6838.9	5972.9	6328.1	7251.4	7812.1	7781.3	6997.4	6097.6	7141.3
57.5°	6800.8	6837.4	6436.7	5560.4	5538.4	5895.1	6141.7	6065.3	5839.3	5503.1	6643.7
60°	5487.0	5591.2	5629.4	4650.3	4179.1	3995.6	3922.2	3787.2	3825.3	4521.1	5836.3
62.5°	4706.1	4700.2	4939.5	4215.8	2737.6	2354.5	2319.3	2350.1	2790.5	4450.7	5716.0
65°	3731.4	3831.2	3904.6	3572.9	2166.6	1748.3	1746.8	1942.0	2414.7	3719.6	4615.1
67.5°	2369.2	2499.8	2590.8	2285.5	1448.8	1244.8	1211.0	1445.9	1673.4	2439.6	2778.7
70°	1335.8	1397.4	1438.5	1318.2	921.8	645.9	607.7	663.5	1011.4	1579.5	1647.0
72.5°	515.2	543.1	598.9	603.3	347.9	208.4	168.8	202.6	425.7	625.3	596.0
75°	79.3	85.1	120.4	143.9	99.8	76.3	80.7	83.7	118.9	161.5	135.0
77.5°	38.2	38.2	36.7	42.6	49.9	54.3	58.7	64.6	70.5	77.8	74.9
80°	25.0	25.0	25.0	29.4	36.7	44.0	49.9	52.8	55.8	61.7	58.7
82.5°	16.1	16.1	16.1	22.0	29.4	36.7	39.6	47.0	52.8	61.7	57.2
85°	8.8	8.8	8.8	14.7	22.0	30.8	29.4	23.5	13.2	1.5	2.9
87.5°	2.9	2.9	2.9	2.9	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: P528340

CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4
2.5°	4615.1	4547.5	4541.7	4403.7	4280.4	4220.2	4171.8	4036.7	4066.1	3988.3	3986.8
5°	4391.9	4254.0	4030.8	3847.3	3663.9	3627.2	3467.2	3327.7	3332.1	3232.3	3249.9
7.5°	3991.2	3895.8	3624.2	3336.5	3092.9	2919.6	2768.4	2677.4	2561.5	2521.8	2501.3
10°	3737.3	3619.8	3314.5	2953.4	2680.4	2587.9	2442.6	2361.8	2242.9	2184.2	2143.1
12.5°	3625.7	3454.0	3072.3	2705.3	2523.3	2427.9	2304.6	2157.8	2016.9	1962.6	1887.7
15°	3637.4	3431.9	3001.8	2605.5	2386.8	2201.8	2091.7	1928.8	1785.0	1689.5	1635.2
17.5°	3815.1	3565.5	3034.1	2529.2	2215.1	1983.1	1767.3	1591.2	1476.7	1404.8	1387.2
20°	4234.9	3895.8	3088.4	2405.9	2043.3	1754.1	1488.4	1305.0	1216.9	1215.4	1216.9
22.5°	4584.2	4248.1	3198.5	2332.5	1871.6	1460.6	1196.3	1137.6	1120.0	1156.7	1161.1
25°	5055.4	4644.4	3387.9	2294.3	1713.0	1244.8	1081.8	1059.8	1058.4	1105.3	1106.8
27.5°	5538.4	4990.8	3500.9	2182.8	1551.6	1133.2	1012.8	1008.4	1031.9	1081.8	1077.4
30°	5867.2	5281.5	3705.0	2049.2	1360.7	1034.9	985.0	990.8	1023.1	1061.3	1067.2
32.5°	6250.3	5567.7	3757.8	1975.8	1243.3	952.7	917.4	930.6	971.7	1031.9	1064.2
35°	6689.2	5770.3	3838.5	1876.0	1199.3	889.5	871.9	886.6	936.5	976.1	1011.4
37.5°	7013.6	6128.5	3853.2	1798.2	1150.8	854.3	826.4	874.9	904.2	960.0	977.6
40°	7254.3	6388.3	3891.4	1749.7	1112.7	808.8	808.8	841.1	880.7	932.1	967.3
42.5°	7408.5	6577.6	3919.3	1705.7	1039.3	795.6	788.3	820.6	873.4	923.3	939.5
44°	7502.4	6658.4	3891.4	1664.6	1018.7	779.5	779.5	807.3	848.4	907.2	926.2
45°	7525.9	6759.7	3829.7	1663.1	993.8	760.4	757.4	810.3	838.2	910.1	921.8
47.5°	7616.9	6884.4	3837.1	1616.2	933.6	714.9	766.2	789.7	814.7	877.8	917.4
50°	7614.0	6962.2	3820.9	1547.2	889.5	663.5	748.6	775.0	800.0	864.6	880.7
52.5°	7634.5	7252.9	3969.2	1437.1	810.3	597.4	689.9	748.6	779.5	833.8	867.5
55°	7624.2	7418.7	4116.0	1354.9	698.7	557.8	640.0	709.0	753.0	810.3	826.4
57.5°	6963.7	6557.1	3809.2	1200.7	578.4	510.8	569.5	667.9	723.7	782.4	802.9
60°	5689.6	5054.0	3141.3	883.7	475.6	469.7	529.9	654.7	678.2	729.5	764.8
62.5°	5258.0	4433.0	2491.0	675.2	406.6	430.1	488.8	591.6	628.3	691.4	723.7
65°	4114.5	2944.6	1542.8	456.5	358.2	386.1	441.8	518.2	578.4	637.1	675.2
67.5°	2436.7	1608.8	763.3	320.0	312.7	342.0	399.3	456.5	525.5	590.1	609.2
70°	1327.0	791.2	325.9	243.7	265.7	292.1	347.9	387.5	453.6	503.5	535.8
72.5°	425.7	240.7	162.9	180.6	202.6	233.4	267.2	315.6	362.6	391.9	418.3
75°	102.8	101.3	116.0	126.2	146.8	170.3	198.2	223.1	259.8	287.7	311.2
77.5°	71.9	77.8	89.5	104.2	111.6	120.4	138.0	157.1	173.2	193.8	208.4
80°	55.8	60.2	69.0	76.3	83.7	91.0	99.8	107.2	117.4	130.6	138.0
82.5°	52.8	55.8	64.6	69.0	66.1	64.6	70.5	73.4	74.9	79.3	83.7
85°	4.4	0.0	2.9	10.3	25.0	36.7	39.6	39.6	38.2	41.1	41.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.9	4.4
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: P528340

CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4
2.5°	3969.2	3919.3	3938.4	3961.8	3928.1	3850.3	3870.8	3862.0	3941.3	3935.4	4014.7
5°	3327.7	3249.9	3258.7	3373.2	3336.5	3376.2	3296.9	3286.6	3301.3	3308.6	3321.8
7.5°	2546.8	2536.5	2624.6	2721.5	2767.0	2720.0	2642.2	2624.6	2608.4	2576.2	2649.5
10°	2078.5	2081.5	2075.6	2149.0	2200.4	2190.1	2143.1	2137.3	2106.4	2094.7	2135.8
12.5°	1855.4	1815.8	1796.7	1773.2	1812.8	1839.3	1818.7	1804.0	1805.5	1820.2	1826.1
15°	1639.6	1614.7	1573.6	1547.2	1566.2	1553.0	1545.7	1575.1	1567.7	1564.8	1600.0
17.5°	1397.4	1418.0	1415.0	1385.7	1410.6	1400.4	1398.9	1378.4	1350.5	1329.9	1341.7
20°	1237.4	1275.6	1305.0	1306.4	1319.6	1318.2	1296.2	1233.0	1212.5	1208.1	1211.0
22.5°	1180.2	1200.7	1236.0	1285.9	1285.9	1262.4	1236.0	1162.6	1143.5	1122.9	1114.1
25°	1134.7	1174.3	1219.8	1225.7	1249.2	1227.2	1184.6	1147.9	1108.3	1080.4	1080.4
27.5°	1111.2	1155.2	1189.0	1199.3	1231.6	1213.9	1169.9	1122.9	1076.0	1074.5	1049.5
30°	1100.9	1142.0	1164.0	1189.0	1203.7	1175.8	1162.6	1112.7	1065.7	1053.9	1012.8
32.5°	1070.1	1128.8	1169.9	1164.0	1175.8	1164.0	1145.0	1103.9	1051.0	1024.6	1020.2
35°	1034.9	1093.6	1137.6	1168.4	1175.8	1150.8	1139.1	1083.3	1011.4	998.2	952.7
37.5°	1015.8	1051.0	1105.3	1155.2	1165.5	1152.3	1112.7	1055.4	983.5	968.8	929.2
40°	992.3	1037.8	1080.4	1121.5	1152.3	1120.0	1074.5	1018.7	986.4	942.4	930.6
42.5°	974.7	1026.1	1061.3	1106.8	1142.0	1099.5	1046.6	1008.4	962.9	933.6	899.8
44°	968.8	1015.8	1039.3	1095.0	1124.4	1092.1	1048.1	1008.4	955.6	929.2	899.8
45°	948.3	1012.8	1037.8	1087.7	1112.7	1086.2	1030.5	990.8	952.7	920.4	889.5
47.5°	927.7	971.7	1014.3	1053.9	1071.6	1062.8	1015.8	967.3	921.8	902.8	873.4
50°	921.8	965.9	1005.5	1042.2	1062.8	1045.1	1002.6	955.6	902.8	871.9	847.0
52.5°	892.5	946.8	990.8	1002.6	1029.0	1018.7	986.4	935.0	885.1	858.7	838.2
55°	849.9	907.2	967.3	982.0	1020.2	1004.0	955.6	907.2	864.6	825.0	798.5
57.5°	833.8	889.5	948.3	967.3	990.8	964.4	952.7	901.3	833.8	813.2	772.1
60°	792.7	863.1	911.6	955.6	957.1	949.7	929.2	870.5	814.7	776.5	747.2
62.5°	760.4	826.4	864.6	905.7	930.6	910.1	889.5	835.2	775.0	732.5	698.7
65°	713.4	773.6	805.9	830.8	858.7	855.8	820.6	780.9	717.8	684.0	651.7
67.5°	641.5	694.3	738.4	761.8	779.5	775.0	748.6	720.7	656.1	622.4	598.9
70°	554.9	609.2	637.1	650.3	667.9	676.7	656.1	642.9	585.7	541.7	519.6
72.5°	446.2	481.5	522.6	534.3	541.7	547.5	547.5	535.8	477.1	459.5	421.3
75°	328.8	356.7	387.5	387.5	400.7	402.2	405.1	397.8	353.8	330.3	321.5
77.5°	223.1	243.7	268.6	278.9	287.7	286.2	284.8	264.2	240.7	230.5	221.7
80°	145.3	165.9	177.6	190.8	199.6	198.2	201.1	186.4	176.1	158.5	161.5
82.5°	86.6	102.8	114.5	130.6	130.6	135.0	135.0	130.6	120.4	111.6	111.6
85°	41.1	54.3	61.7	71.9	77.8	79.3	70.5	60.2	49.9	45.5	49.9
87.5°	7.3	10.3	14.7	13.2	16.1	14.7	14.7	14.7	14.7	11.7	13.2
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: P528340

CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4	4484.4
2.5°	3985.3	4058.7	4110.1	4195.2	4342.0	4459.5	4579.8	4669.4	4679.6	4706.1
5°	3370.3	3409.9	3540.6	3710.8	3831.2	4029.4	4157.1	4389.0	4475.6	4568.1
7.5°	2631.9	2696.5	2871.2	2985.7	3249.9	3498.0	3754.9	4041.1	4155.6	4168.8
10°	2219.5	2313.4	2432.3	2615.8	2759.6	3035.6	3355.6	3674.1	3801.8	3823.9
12.5°	1949.4	2069.7	2228.3	2360.4	2498.4	2739.1	3045.9	3439.3	3605.1	3705.0
15°	1689.5	1814.3	1989.0	2172.5	2294.3	2582.0	2943.1	3386.4	3602.2	3690.3
17.5°	1422.4	1538.4	1682.2	1880.4	2125.5	2448.4	2927.0	3562.6	3798.9	3901.7
20°	1193.4	1258.0	1425.3	1629.4	1936.2	2311.9	2932.9	3822.4	4168.8	4214.3
22.5°	1103.9	1118.5	1184.6	1372.5	1708.6	2172.5	3037.1	4190.8	4584.2	4734.0
25°	1034.9	1031.9	1049.5	1175.8	1542.8	2118.2	3139.8	4529.9	5045.2	5208.1
27.5°	996.7	967.3	968.8	1087.7	1425.3	2030.1	3271.9	4918.9	5567.7	5639.6
30°	977.6	971.7	954.1	1002.6	1297.6	1898.0	3294.0	5302.0	5876.0	5980.2
32.5°	965.9	908.6	886.6	904.2	1177.3	1754.1	3376.2	5554.5	6257.6	6212.1
35°	907.2	855.8	841.1	858.7	1092.1	1673.4	3321.8	5774.7	6543.9	6620.2
37.5°	885.1	839.6	810.3	795.6	1012.8	1605.9	3294.0	6113.8	6821.3	7004.8
40°	864.6	816.1	780.9	766.2	951.2	1516.3	3285.1	6375.1	7141.3	7251.4
42.5°	841.1	810.3	770.6	744.2	876.3	1426.8	3183.9	6455.8	7239.7	7358.6
44°	833.8	786.8	745.7	736.9	847.0	1381.3	3163.3	6529.2	7324.8	7505.3
45°	826.4	782.4	735.4	723.7	836.7	1356.3	3135.4	6546.8	7465.7	7499.5
47.5°	805.9	778.0	732.5	700.2	814.7	1302.0	3051.8	6447.0	7321.9	7327.7
50°	789.7	757.4	710.5	647.3	785.3	1256.5	3089.9	6410.3	6975.4	6988.6
52.5°	772.1	723.7	697.2	588.6	736.9	1218.4	3170.7	6576.2	7015.1	7012.1
55°	751.6	698.7	634.1	538.7	656.1	1169.9	3365.9	6903.5	7382.0	7431.9
57.5°	719.3	673.8	581.3	494.7	563.7	1077.4	3302.8	6276.7	6791.9	6800.8
60°	676.7	634.1	527.0	460.9	462.4	849.9	2953.4	4891.0	5359.3	5487.0
62.5°	635.6	612.1	481.5	412.5	393.4	676.7	2496.9	4064.6	4600.4	4706.1
65°	587.2	529.9	441.8	375.8	337.6	474.1	1768.8	3037.1	3589.0	3731.4
67.5°	525.5	463.9	389.0	330.3	289.2	317.1	913.0	1726.2	2285.5	2369.2
70°	459.5	402.2	327.3	278.9	233.4	218.7	402.2	823.5	1249.2	1335.8
72.5°	377.2	324.4	261.3	220.2	174.7	151.2	135.0	220.2	443.3	515.2
75°	273.0	236.3	196.7	157.1	123.3	96.9	79.3	66.1	73.4	79.3
77.5°	201.1	171.7	145.3	111.6	86.6	69.0	54.3	41.1	39.6	38.2
80°	157.1	139.4	116.0	89.5	67.5	51.4	38.2	27.9	25.0	25.0
82.5°	123.3	114.5	95.4	73.4	55.8	41.1	27.9	19.1	16.1	16.1
85°	47.0	47.0	69.0	60.2	42.6	29.4	19.1	10.3	8.8	8.8
87.5°	11.7	11.7	11.7	11.7	10.3	8.8	8.8	4.4	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)