

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: P457018

Luminaire Tested: **GALN-SA8B-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457018
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-SA8B-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 39607 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

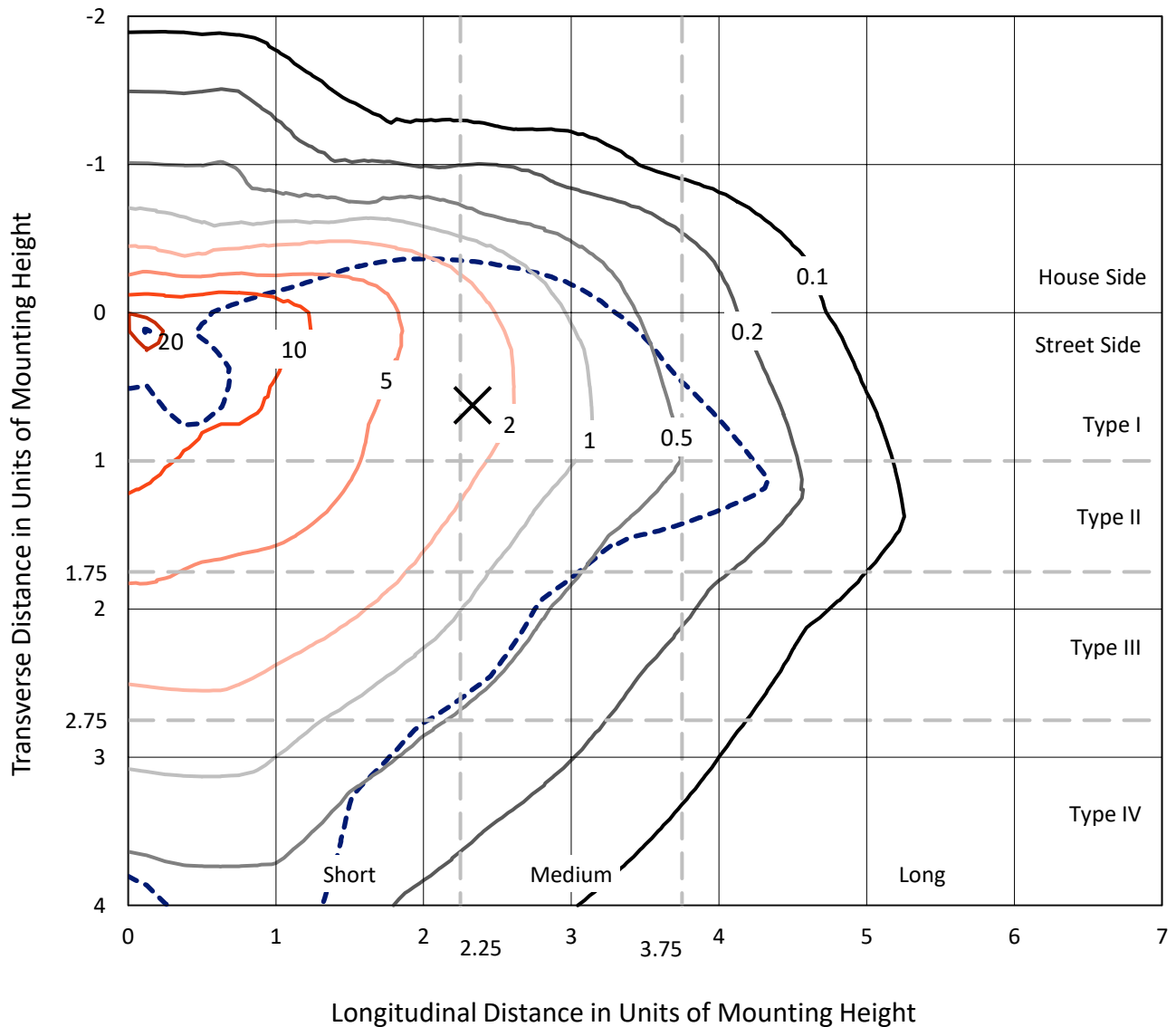
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457018
 CATALOG NUMBER: GALN-SA8B-750-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

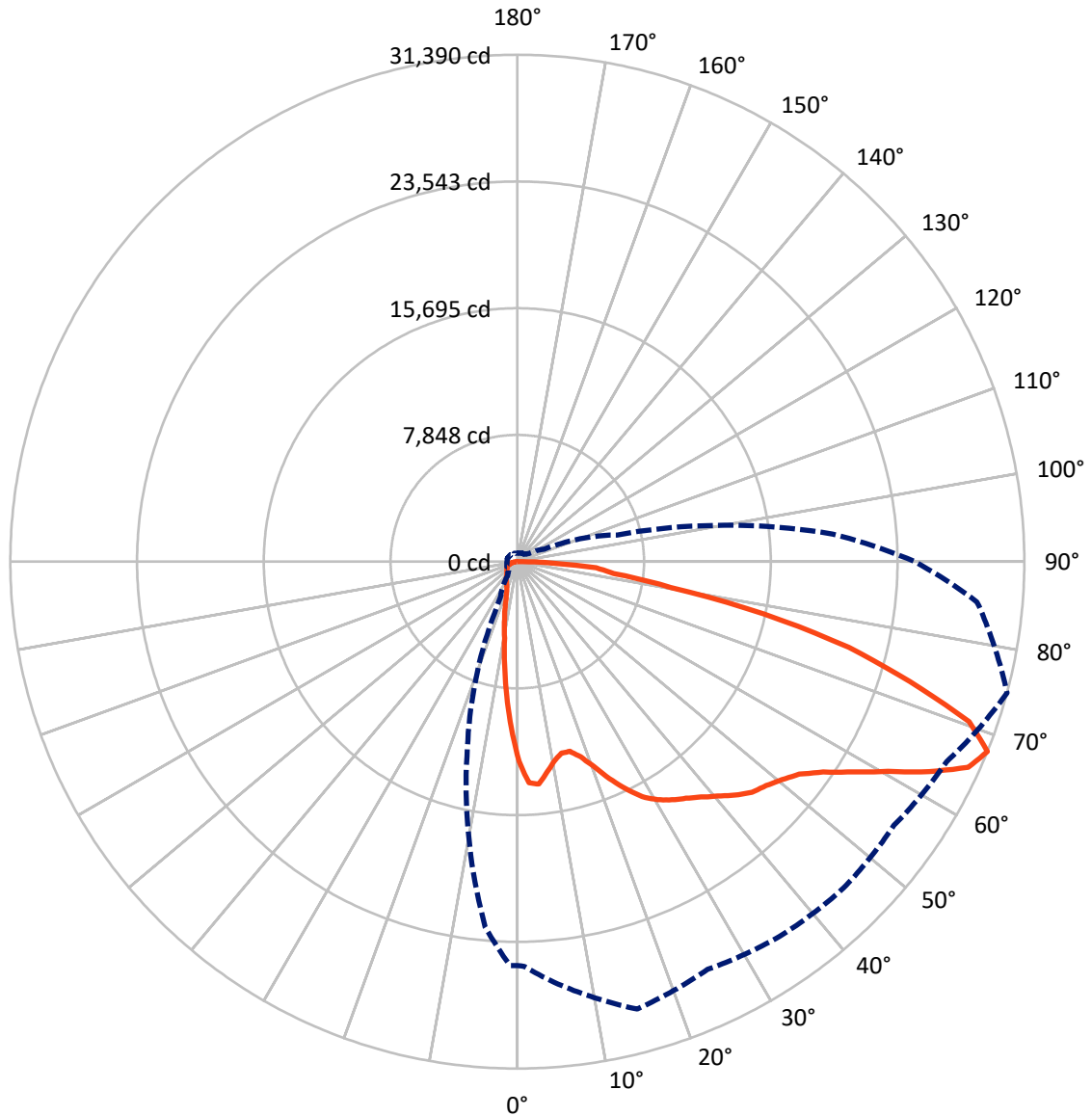
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P457018
CATALOG NUMBER: GALN-SA8B-750-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P457018

CATALOG NUMBER: GALN-SA8B-750-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6694.4	0.0	6694.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32912.6	0.0	32912.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	39607.0	0.0	39607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.6	2.4
10°-20°	1957.4	4.9
20°-30°	2816.7	7.1
30°-40°	4056.8	10.2
40°-50°	5698.7	14.4
50°-60°	7947.7	20.1
60°-70°	9449.3	23.9
70°-80°	5565.1	14.1
80°-90°	1176.8	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°	39607.0	100.0
0°-180°	39607.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457018

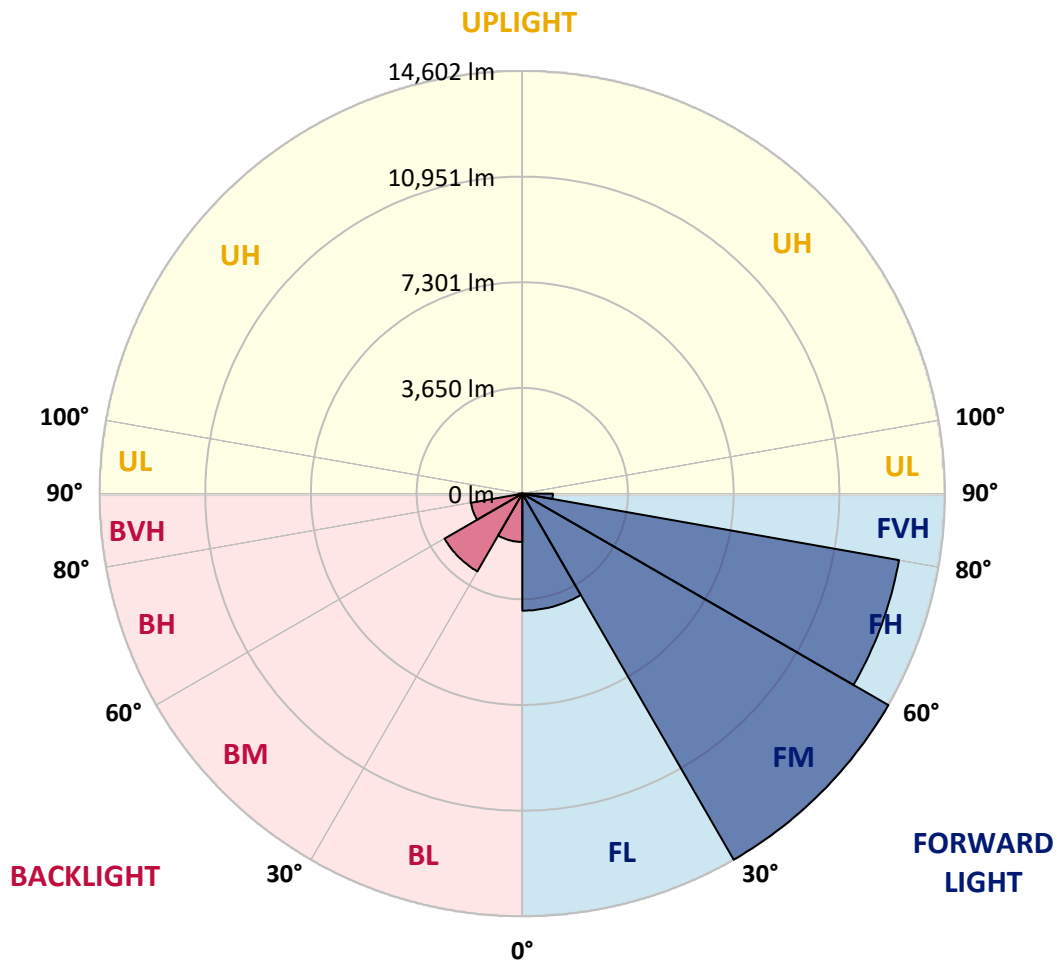
CATALOG NUMBER: GALN-SA8B-750-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4042.8	10.2			
FM	(30°-60°)	14601.6	36.9			
FH	(60°-80°)	13213.1	33.4			G5
FVH	(80°-90°)	1055.1	2.7			G5
BL	(0°-30°)	1669.8	4.2	B3/2500		
BM	(30°-60°)	3101.6	7.8	B3/5000		
BH	(60°-80°)	1801.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	121.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P457018

CATALOG NUMBER: GALN-SA8B-750-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2
2.5°	13341.8	13359.6	13473.9	13806.6	14035.2	14119.0	14177.5	14068.2	13961.6	13702.5	13311.4
5°	13301.2	13405.3	13702.5	14449.2	15038.5	15292.5	15368.7	15041.0	14500.0	13834.6	13034.5
7.5°	12524.0	12663.7	13120.9	14373.0	15411.8	16006.2	15927.4	15335.6	14360.3	13174.2	12056.7
10°	11602.0	11757.0	12308.1	13821.9	15160.4	15978.2	15978.2	15256.9	13961.6	12552.0	11264.2
12.5°	10870.6	11033.1	11663.0	13255.5	14637.2	15411.8	15541.4	14921.6	13674.6	12158.3	10743.6
15°	10629.3	10786.8	11464.9	12912.6	14083.5	14555.9	14599.1	14395.9	13534.9	12186.2	10720.7
17.5°	10929.0	11132.2	11817.9	13014.2	13575.5	13603.5	13636.5	13796.5	13550.1	12696.7	11183.0
20°	11795.1	12013.5	12729.7	13341.8	13131.0	12841.5	12859.3	13270.7	13730.4	13540.0	12287.8
22.5°	13044.7	13235.2	13969.2	13918.4	12943.1	12346.2	12221.8	12795.8	13997.1	14591.5	13463.8
25°	14393.3	14616.9	15460.1	14774.3	12996.4	12051.6	11972.9	12516.4	14274.0	15574.4	14822.6
27.5°	15937.6	16156.0	16821.4	15637.9	13275.8	12028.7	11934.8	12491.0	14522.9	16483.6	16120.4
30°	17085.6	17286.2	17738.3	16364.3	13618.7	12181.1	12064.3	12691.6	14736.2	17105.9	17385.3
32.5°	17987.2	18195.5	18441.9	16816.4	14070.8	12458.0	12242.1	13057.4	15015.6	17580.9	18322.5
35°	18927.0	19173.4	19155.6	17217.7	14492.4	12778.0	12567.2	13585.7	15455.0	17994.9	19511.2
37.5°	20118.2	20217.2	20090.2	17578.3	14997.8	13354.5	13237.7	14370.5	16079.8	18495.2	20900.5
40°	21327.1	21525.3	20872.5	18015.2	15612.5	14439.1	14426.4	15531.2	16821.4	19081.9	22246.6
42.5°	22363.4	22531.0	21604.0	18396.2	16356.7	15762.3	15858.8	17088.1	17794.2	19762.6	23328.6
45°	23143.1	23293.0	22279.6	18764.4	17337.0	17291.3	17860.2	18756.8	19021.0	20374.7	23963.5
47.5°	23806.0	23950.8	22749.5	19323.2	18548.5	19117.5	20108.0	20496.6	20069.9	20725.2	24674.7
50°	24364.8	24408.0	23072.0	19988.6	20052.1	21355.1	22315.1	22566.6	21106.2	21228.1	25291.9
52.5°	24946.4	24890.6	23628.3	20826.8	21677.6	23478.4	24176.9	24438.5	22099.3	21847.8	26191.0
55°	26249.4	26302.7	24875.3	21883.4	23320.9	25563.6	26483.0	26231.6	23199.0	22988.2	27333.9
57.5°	27824.1	27778.4	26630.4	23536.8	24994.7	27504.1	28189.8	27786.0	24667.1	24555.3	28492.1
60°	28436.2	28497.2	28098.4	25314.7	26645.6	29203.2	29904.2	29276.9	26427.2	26376.4	29365.8
62.5°	27821.6	28164.4	28433.7	26897.0	28052.7	30452.8	31148.8	30432.5	28263.5	28631.8	29977.9
65°	26597.3	26671.0	27587.9	28238.1	28730.8	30658.6	31021.8	30640.8	29797.6	30686.5	29949.9
67.5°	25007.4	25070.9	26145.2	28677.5	27857.1	28321.9	28575.9	28464.1	29322.6	31390.0	28570.8
70°	23493.6	23442.8	24578.2	27557.4	24250.5	23544.4	23755.2	23404.7	25302.0	29670.6	25865.9
72.5°	20547.4	20730.3	21949.4	24443.5	19201.3	18053.3	18513.0	17606.3	19460.4	25411.2	20994.4
75°	16095.0	16138.2	18172.6	20514.4	14484.8	12673.9	13296.1	12917.7	14906.4	21197.6	14497.5
77.5°	11144.9	11048.4	13235.2	15668.4	10329.6	9278.1	9288.2	9107.9	10408.3	15607.4	9849.6
80°	7078.6	6931.3	8285.0	9679.4	7098.9	7594.2	7345.3	7337.6	6776.3	9628.6	5956.0
82.5°	3825.0	3987.6	5234.6	6067.7	5092.4	5869.6	5379.4	5221.9	4650.5	6027.1	3809.8
85°	1742.3	1894.7	2791.3	4127.3	3868.2	3911.4	2613.5	3083.4	3847.9	4894.3	2034.4
87.5°	170.2	218.4	576.5	1948.1	1320.7	1041.3	388.6	749.3	967.7	1739.8	162.6
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: P457018

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2
2.5°	13151.4	13019.3	12569.7	12198.9	11805.2	11505.5	11114.4	10852.8	10672.5	10400.7	10367.7
5°	12546.9	12224.3	11442.0	10644.5	9956.2	9438.1	8912.3	8429.8	8145.3	8056.4	7942.1
7.5°	11528.4	10984.9	9979.1	9064.7	8274.8	7502.7	6908.4	6486.8	6204.9	6039.8	5841.7
10°	10690.2	10060.4	8836.1	7716.1	7065.9	6585.8	6062.6	5610.5	5262.6	4965.4	4802.9
12.5°	10126.4	9415.2	8038.6	7129.4	6626.5	6116.0	5503.9	4995.9	4482.8	4145.0	4000.3
15°	9956.2	9204.4	7792.3	6837.3	6116.0	5448.0	4762.2	4099.3	3591.4	3271.3	3164.7
17.5°	10372.8	9463.5	7789.7	6448.7	5516.6	4719.0	3840.3	3218.0	2697.3	2458.6	2382.4
20°	11150.0	9961.3	7812.6	6065.2	4866.4	3743.7	2793.8	2283.3	2034.4	1932.8	1894.7
22.5°	12234.5	10720.7	7881.2	5686.7	4155.2	2875.1	2092.8	1833.8	1744.9	1727.1	1719.5
25°	13570.4	11660.5	8112.3	5346.4	3555.8	2194.4	1750.0	1633.1	1582.3	1564.5	1562.0
27.5°	14799.7	12874.5	8391.7	5054.3	2976.7	1892.2	1582.3	1483.3	1432.5	1429.9	1435.0
30°	15909.6	13890.5	8625.3	4726.7	2537.3	1681.4	1473.1	1374.1	1325.8	1323.3	1338.5
32.5°	16869.7	14726.1	8798.1	4404.1	2293.5	1551.9	1374.1	1267.4	1226.7	1219.1	1226.7
35°	17895.8	15559.1	8719.3	4152.7	2153.8	1445.2	1300.4	1196.3	1148.0	1125.2	1125.2
37.5°	19066.7	16417.6	8584.7	3944.4	2090.3	1356.3	1236.9	1135.3	1087.1	1064.2	1061.7
40°	20344.2	17276.1	8399.3	3759.0	2026.8	1302.9	1193.7	1087.1	1028.6	1005.8	1000.7
42.5°	21471.9	18010.1	8246.9	3637.1	1922.7	1313.1	1155.6	1051.5	977.8	947.4	944.8
45°	22452.3	18749.2	8219.0	3566.0	1836.3	1297.9	1145.5	1023.6	937.2	904.2	899.1
47.5°	23219.3	19518.8	8379.0	3525.3	1742.3	1216.6	1211.5	1005.8	901.6	866.1	861.0
50°	24154.0	20610.9	8744.7	3441.5	1656.0	1140.4	1280.1	1003.2	873.7	828.0	815.3
52.5°	25398.5	22033.2	9240.0	3291.6	1531.5	1069.3	1221.7	1003.2	840.7	795.0	779.7
55°	27280.6	23846.7	9725.1	3080.8	1356.3	975.3	1102.3	972.8	792.4	751.8	741.6
57.5°	28527.6	25172.5	10035.0	2788.8	1137.9	906.7	949.9	924.5	744.2	701.0	701.0
60°	28591.1	25528.1	9887.6	2420.5	1000.7	843.2	825.5	932.1	701.0	655.3	650.2
62.5°	27859.6	24656.9	9120.6	2090.3	927.0	774.7	746.7	817.8	657.8	612.1	604.5
65°	26716.7	22434.5	7789.7	1932.8	886.4	713.7	673.1	670.5	612.1	568.9	558.8
67.5°	24616.3	19605.1	6400.4	1841.4	866.1	645.1	607.0	594.3	558.8	523.2	518.1
70°	21520.2	16420.1	5133.0	1803.3	855.9	574.0	543.5	528.3	497.8	469.9	467.3
72.5°	16742.7	13319.0	4236.5	1777.9	850.9	508.0	475.0	454.6	436.9	411.5	411.5
75°	12026.2	9798.8	3233.2	1602.6	787.4	436.9	401.3	388.6	363.2	342.9	348.0
77.5°	7581.5	6598.5	2128.4	1178.5	609.6	350.5	320.0	312.4	292.1	264.1	281.9
80°	5120.3	4640.3	1242.0	741.6	383.5	256.5	246.4	243.8	221.0	190.5	193.0
82.5°	3484.7	3418.6	645.1	421.6	221.0	149.9	144.8	149.9	124.5	101.6	101.6
85°	1361.4	1859.2	304.8	165.1	71.1	22.9	33.0	35.6	20.3	10.2	12.7
87.5°	25.4	190.5	7.6	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: P457018

CATALOG NUMBER: GALN-SA8B-750-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2
2.5°	10316.9	10294.0	10332.1	10169.6	10202.6	10263.5	10294.0	10311.8	10563.2	10504.8	10664.8
5°	8048.8	8025.9	8173.2	8193.6	8269.8	8254.5	8328.2	8346.0	8437.4	8470.4	8693.9
7.5°	5854.4	5953.4	6121.0	6207.4	6336.9	6377.6	6339.5	6433.4	6243.0	6380.1	6420.7
10°	4703.8	4584.4	4513.3	4711.4	4736.8	4924.8	4848.6	4787.6	4899.4	4904.5	5011.1
12.5°	3916.5	3659.9	3489.8	3545.6	3606.6	3687.9	3700.6	3822.5	3903.8	3979.9	4043.4
15°	3070.7	2981.8	2826.9	2750.7	2837.0	2870.0	2948.8	3050.4	3136.7	3159.6	3245.9
17.5°	2357.0	2372.2	2346.8	2301.1	2354.4	2379.8	2384.9	2387.5	2410.3	2395.1	2522.1
20°	1897.3	1950.6	2014.1	2024.3	2042.0	2054.7	2031.9	1945.5	1948.1	2001.4	2042.0
22.5°	1716.9	1727.1	1798.2	1821.1	1877.0	1854.1	1788.1	1747.4	1742.3	1755.0	1775.4
25°	1574.7	1589.9	1640.7	1676.3	1719.5	1678.8	1630.6	1592.5	1587.4	1600.1	1620.4
27.5°	1447.7	1470.6	1516.3	1551.9	1592.5	1554.4	1508.7	1475.7	1473.1	1470.6	1483.3
30°	1346.1	1371.5	1404.5	1445.2	1473.1	1440.1	1396.9	1379.1	1376.6	1371.5	1376.6
32.5°	1244.5	1285.2	1318.2	1338.5	1366.4	1341.0	1308.0	1297.9	1280.1	1264.8	1257.2
35°	1130.2	1173.4	1224.2	1249.6	1277.5	1252.1	1229.3	1186.1	1155.6	1153.1	1158.2
37.5°	1064.2	1082.0	1122.6	1165.8	1193.7	1181.0	1137.9	1094.7	1087.1	1087.1	1092.1
40°	1005.8	1013.4	1031.2	1087.1	1137.9	1099.8	1046.4	1033.7	1033.7	1031.2	1033.7
42.5°	947.4	955.0	955.0	998.2	1079.4	1018.5	977.8	977.8	977.8	980.4	988.0
45°	894.0	896.6	894.0	924.5	1000.7	949.9	922.0	929.6	934.7	939.7	944.8
47.5°	848.3	850.9	848.3	873.7	911.8	891.5	876.2	886.4	896.6	904.2	909.3
50°	807.7	805.1	810.2	825.5	843.2	848.3	838.2	853.4	858.5	868.6	881.3
52.5°	772.1	769.6	774.7	782.3	807.7	807.7	807.7	820.4	830.5	840.7	858.5
55°	731.5	734.0	741.6	751.8	784.8	779.7	782.3	792.4	802.6	817.8	828.0
57.5°	693.4	698.5	708.6	723.9	756.9	754.3	756.9	762.0	774.7	782.3	792.4
60°	650.2	660.4	673.1	683.2	716.2	713.7	726.4	736.6	744.2	744.2	749.3
62.5°	607.0	622.3	635.0	642.6	678.1	680.7	698.5	706.1	711.2	706.1	713.7
65°	563.8	586.7	591.8	601.9	637.5	640.0	660.4	678.1	673.1	668.0	680.7
67.5°	520.7	548.6	546.1	558.8	594.3	599.4	617.2	647.7	637.5	632.4	642.6
70°	472.4	492.7	495.3	502.9	551.1	543.5	571.5	599.4	591.8	594.3	594.3
72.5°	419.1	436.9	436.9	452.1	502.9	490.2	513.1	543.5	543.5	541.0	541.0
75°	355.6	365.7	375.9	398.8	452.1	436.9	452.1	480.0	485.1	480.0	480.0
77.5°	287.0	302.2	307.3	337.8	375.9	373.4	388.6	401.3	411.5	406.4	406.4
80°	203.2	218.4	238.7	271.8	294.6	302.2	309.9	320.0	325.1	325.1	330.2
82.5°	114.3	137.2	154.9	187.9	198.1	236.2	233.7	241.3	233.7	205.7	228.6
85°	25.4	48.3	68.6	86.4	99.1	137.2	144.8	162.6	134.6	124.5	124.5
87.5°	0.0	0.0	0.0	0.0	0.0	20.3	40.6	55.9	48.3	40.6	40.6
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: P457018
 CATALOG NUMBER: GALN-SA8B-750-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2	12374.2
2.5°	10799.5	11020.4	11287.1	11746.8	12069.4	12417.3	12767.8	13141.2	13240.3	13341.8
5°	8754.9	9189.2	9425.4	10042.6	10690.2	11513.2	12186.2	12922.8	13230.1	13301.2
7.5°	6631.6	6926.2	7545.9	8170.7	8973.3	9836.9	10868.0	12016.0	12374.2	12524.0
10°	5257.5	5658.8	6202.3	6872.8	7576.4	8506.0	9669.2	11010.3	11518.2	11602.0
12.5°	4475.2	4922.2	5514.0	6222.6	6888.1	7589.1	8762.5	10146.7	10690.2	10870.6
15°	3578.7	4119.6	4802.9	5549.6	6273.4	7040.5	8229.1	9791.1	10418.5	10629.3
17.5°	2811.6	3248.5	3987.6	4797.8	5656.3	6626.5	8117.4	9961.3	10733.4	10929.0
20°	2151.3	2463.7	3085.9	3941.9	4947.6	6217.6	8145.3	10603.9	11528.4	11795.1
22.5°	1859.2	2019.2	2397.6	3212.9	4338.1	5862.0	8259.6	11485.2	12600.2	13044.7
25°	1683.9	1767.7	1981.1	2514.5	3756.4	5516.6	8521.2	12671.3	14098.7	14393.3
27.5°	1534.1	1595.0	1727.1	2110.6	3228.2	5196.5	8826.0	13987.0	15498.2	15937.6
30°	1391.8	1473.1	1597.6	1874.4	2890.4	4904.5	9209.5	15053.7	16676.7	17085.6
32.5°	1282.6	1363.9	1478.2	1709.3	2603.3	4597.1	9438.1	15990.9	17639.3	17987.2
35°	1193.7	1262.3	1381.7	1577.2	2384.9	4363.5	9392.4	16735.1	18571.4	18927.0
37.5°	1130.2	1188.7	1308.0	1452.8	2219.8	4119.6	9369.5	17718.0	19706.7	20118.2
40°	1071.8	1132.8	1242.0	1371.5	2054.7	3832.6	9382.2	18693.3	20915.7	21327.1
42.5°	1026.1	1094.7	1183.6	1348.7	1884.6	3601.5	9382.2	19541.6	21967.2	22363.4
45°	988.0	1061.7	1148.0	1346.1	1750.0	3426.3	9318.7	20270.6	22805.3	23143.1
47.5°	955.0	1036.3	1160.7	1300.4	1716.9	3299.3	9262.8	20854.7	23488.6	23806.0
50°	932.1	1028.6	1234.4	1247.1	1727.1	3261.2	9532.1	21591.3	24090.5	24364.8
52.5°	914.3	1031.2	1231.8	1168.3	1709.3	3286.6	10093.4	22741.8	24926.1	24946.4
55°	878.8	1028.6	1168.3	1079.4	1635.7	3329.7	10814.7	24413.1	26234.1	26249.4
57.5°	843.2	1000.7	1084.5	1003.2	1485.8	3329.7	11683.3	25995.4	27811.4	27824.1
60°	807.7	1041.3	952.4	937.2	1290.2	3268.8	12600.2	26691.3	28306.7	28436.2
62.5°	772.1	1049.0	850.9	878.8	1148.0	3121.5	13283.4	25921.7	27636.1	27821.6
65°	731.5	845.8	784.8	817.8	1074.4	2875.1	13067.5	24512.1	26376.4	26597.3
67.5°	683.2	716.2	713.7	754.3	1049.0	2511.9	11929.7	22729.1	25020.1	25007.4
70°	624.8	642.6	650.2	693.4	1000.7	2230.0	9941.0	20415.3	23209.2	23493.6
72.5°	563.8	579.1	586.7	624.8	952.4	2070.0	7716.1	17227.8	20102.9	20547.4
75°	497.8	508.0	518.1	551.1	901.6	1833.8	5496.2	13151.4	15396.6	16095.0
77.5°	429.2	429.2	441.9	475.0	759.4	1513.8	3687.9	9224.7	10431.2	11144.9
80°	348.0	350.5	345.4	381.0	558.8	1036.3	2095.4	6161.7	6941.4	7078.6
82.5°	266.7	259.1	261.6	279.4	416.5	706.1	1117.5	3827.6	3901.2	3825.0
85°	167.6	167.6	162.6	182.9	266.7	368.3	609.6	2344.3	1831.2	1742.3
87.5°	68.6	55.9	63.5	73.7	127.0	149.9	238.7	482.6	185.4	170.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)