

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: P533905

Luminaire Tested: **GALN-SA9B-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28518 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

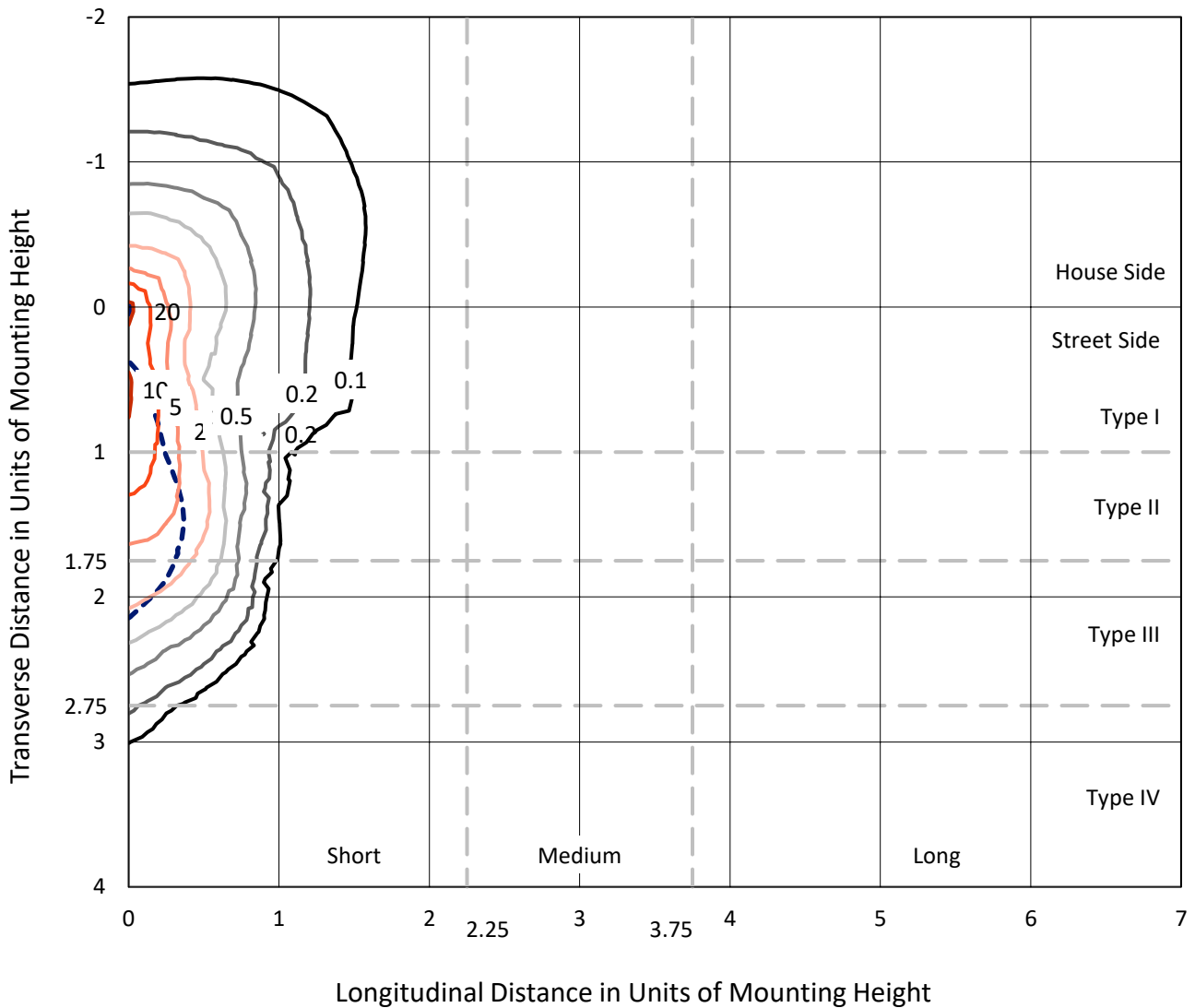
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

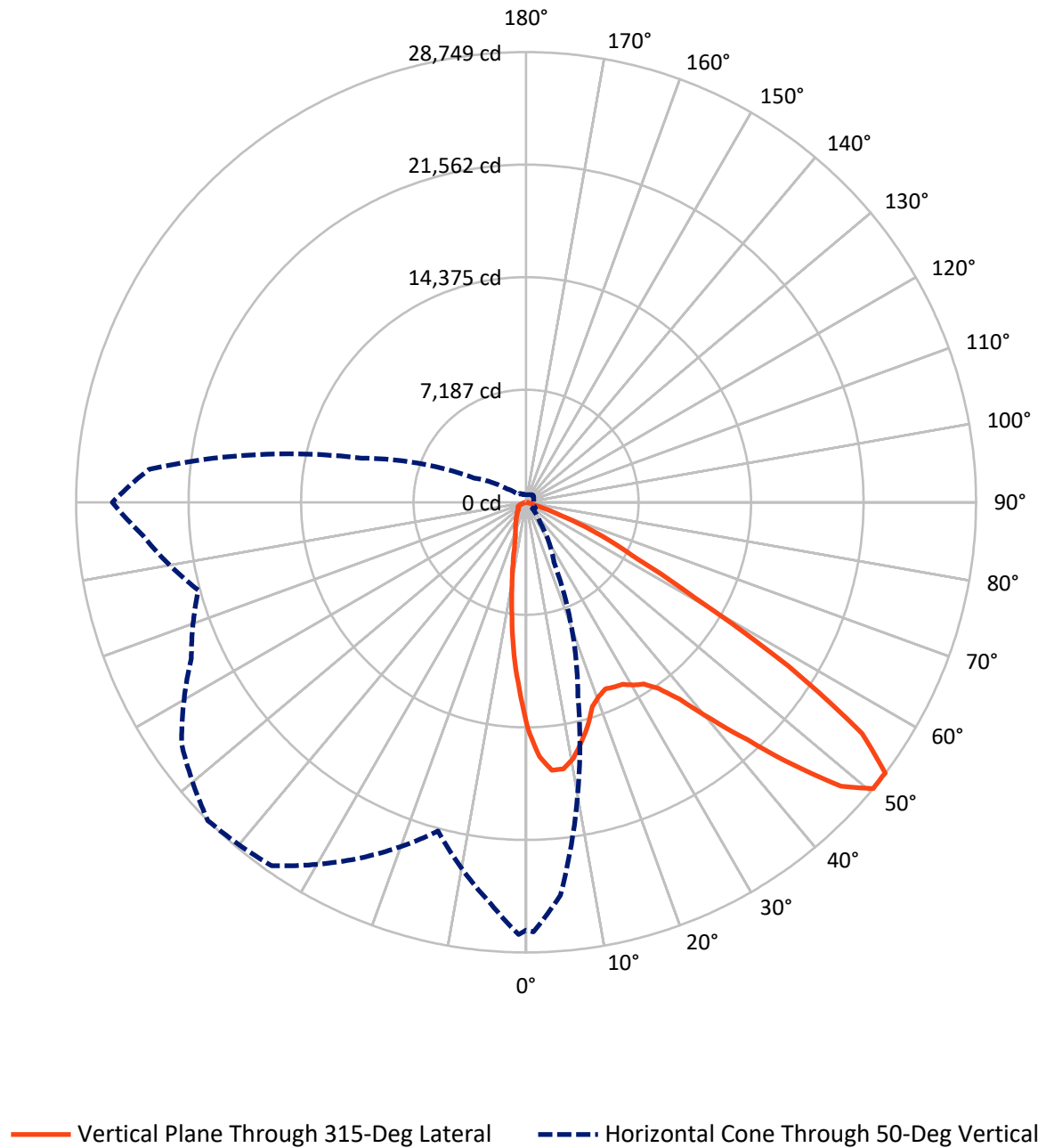
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5712.1	0.0	5712.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	22805.8	0.0	22805.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	28518.0	0.0	28518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.1	3.7
10°-20°	2095.1	7.3
20°-30°	3147.4	11.0
30°-40°	4724.2	16.6
40°-50°	6639.5	23.3
50°-60°	7161.9	25.1
60°-70°	3325.2	11.7
70°-80°	312.9	1.1
80°-90°	57.7	0.2
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°	28518.0	100.0
0°-180°	28518.0	100.0

Coefficient of Utilization

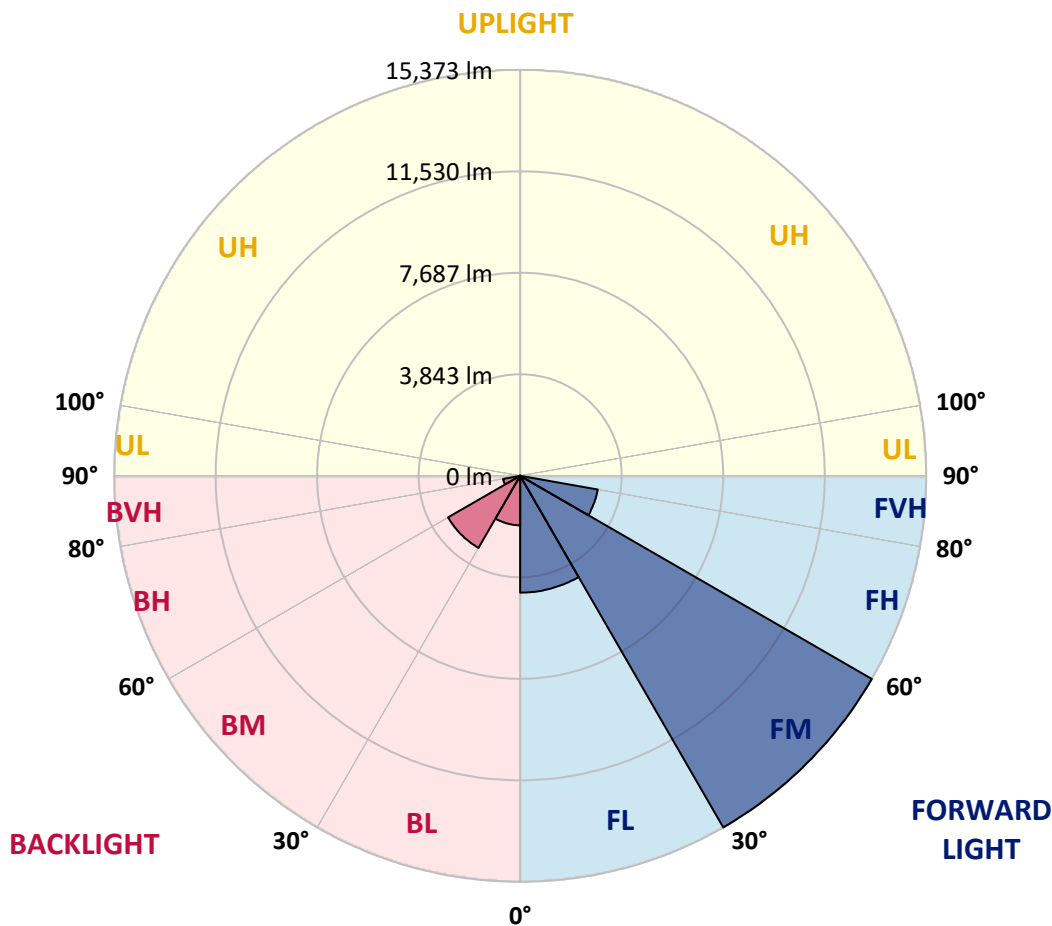


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4424.3	15.5			
FM (30°-60°)	15373.3	53.9			
FH (60°-80°)	2982.2	10.5			G2/5000
FVH (80°-90°)	26.0	0.1			G1/100
BL (0°-30°)	1872.3	6.6	B3/2500		
BM (30°-60°)	3152.3	11.1	B3/5000		
BH (60°-80°)	655.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2
2.5°	15033.7	14801.7	14507.5	14264.2	13902.1	13172.2	12974.1	12736.5	12538.5	12272.5	11899.1
5°	13670.1	13596.5	13460.7	12544.1	11882.1	10999.4	10275.2	9969.7	9567.9	9239.8	9002.1
7.5°	12629.0	12334.8	11904.7	10982.5	9924.4	8979.5	8176.0	7706.4	7174.5	6993.5	6671.0
10°	11514.3	11582.2	10948.5	9652.8	8374.1	7610.2	7112.3	6659.6	6178.7	5861.8	5403.5
12.5°	11157.9	10937.2	10450.6	8849.3	7757.3	7044.4	6439.0	5878.8	5369.6	4860.3	4419.0
15°	11389.8	11050.4	10371.4	8679.6	7282.0	6393.7	5635.5	4877.3	4407.7	3757.0	3298.7
17.5°	12221.6	11950.0	11039.0	8860.7	7038.7	5771.3	4645.3	3864.5	3145.9	2557.5	2325.5
20°	13607.8	13223.1	12080.1	9092.6	6676.6	5018.8	3768.3	2806.4	2127.5	1878.5	1748.4
22.5°	14965.8	14756.4	13313.6	9539.6	6354.1	4351.1	2829.1	1889.8	1589.9	1544.7	1459.8
25°	17551.6	16923.5	15197.8	10348.7	6105.1	3723.1	2133.1	1522.0	1346.6	1312.7	1324.0
27.5°	19090.6	18564.4	16940.5	10886.3	5827.9	3242.1	1804.9	1397.6	1278.7	1205.2	1176.9
30°	20567.4	19956.3	17806.2	11203.1	5233.8	2732.9	1601.3	1341.0	1312.7	1205.2	1171.2
32.5°	21704.6	21104.9	19056.6	11678.4	4990.5	2404.7	1318.3	1046.8	973.2	961.9	1063.7
35°	23447.4	22808.0	20126.0	11938.7	4803.8	2235.0	1142.9	933.6	848.7	814.8	820.4
37.5°	25071.2	24635.6	21116.2	12040.5	4605.7	2184.0	1024.1	837.4	763.8	741.2	735.6
40°	26429.2	25456.0	22055.5	12148.0	4520.9	2087.9	950.6	763.8	712.9	679.0	679.0
42.5°	27051.6	26061.4	23107.9	12085.8	4498.2	1935.1	950.6	701.6	662.0	628.1	622.4
45°	26915.8	26514.1	23577.5	12057.5	4498.2	1782.3	865.7	684.6	628.1	582.8	571.5
47.5°	27266.6	26740.4	24165.9	12176.3	4407.7	1674.8	729.9	718.6	594.1	537.5	526.2
50°	27328.8	27430.7	25190.1	12793.1	4209.7	1539.0	571.5	707.3	571.5	486.6	475.3
52°	27736.2	27102.5	25501.3	13121.2	4000.3	1437.2	480.9	605.4	548.8	452.7	441.3
52.5°	27176.1	27589.1	25574.8	13240.1	4022.9	1369.3	464.0	594.1	537.5	452.7	424.4
55°	26548.0	26944.1	25274.9	13494.7	3689.1	1075.0	362.1	430.0	486.6	396.1	379.1
57.5°	23073.9	23475.6	21964.9	12357.4	3004.5	758.2	299.9	322.5	430.0	367.8	350.8
60°	20510.8	20222.2	18434.2	10309.1	2133.1	424.4	237.6	249.0	469.6	339.5	333.8
62.5°	18745.4	18128.7	15407.1	7961.0	1301.4	282.9	186.7	192.4	362.1	316.9	316.9
65°	13868.1	13177.8	10235.6	4815.1	639.4	198.0	141.5	152.8	226.3	271.6	271.6
67.5°	7915.7	7649.8	4945.2	2172.7	265.9	124.5	107.5	118.8	175.4	220.7	209.4
70°	3638.2	3264.8	1901.1	458.3	124.5	84.9	84.9	96.2	141.5	164.1	152.8
72.5°	1063.7	1007.1	464.0	73.6	50.9	50.9	56.6	73.6	107.5	124.5	113.2
75°	79.2	50.9	33.9	22.6	22.6	33.9	45.3	73.6	107.5	118.8	96.2
77.5°	5.7	11.3	5.7	5.7	17.0	33.9	50.9	90.5	141.5	147.1	107.5
80°	5.7	5.7	0.0	5.7	17.0	33.9	56.6	101.8	158.4	169.7	90.5
82.5°	0.0	0.0	0.0	5.7	22.6	45.3	67.9	107.5	147.1	181.1	96.2
85°	0.0	0.0	0.0	5.7	33.9	62.2	79.2	28.3	17.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2
2.5°	12165.0	12017.9	11961.3	12012.2	11995.3	11978.3	12289.5	12221.6	12210.3	12312.1	12289.5
5°	9132.2	8872.0	9584.9	9296.3	9596.2	9777.3	9811.2	9828.2	10037.6	9816.9	10105.4
7.5°	6506.9	6574.8	6569.1	6761.5	7106.6	7412.2	7593.2	7451.8	7440.5	7412.2	7287.7
10°	5199.8	5081.0	5058.4	5013.1	5120.6	5380.9	5601.6	5426.2	5301.7	5471.4	5420.5
12.5°	4249.3	4085.2	3994.7	3813.6	3819.2	3994.7	3994.7	3994.7	4119.1	4215.3	4288.9
15°	3259.1	3123.3	3123.3	2942.2	2902.6	2908.3	2998.8	3010.1	3208.2	3264.8	3293.0
17.5°	2280.2	2206.7	2291.5	2365.1	2319.8	2331.2	2365.1	2376.4	2404.7	2382.1	2438.7
20°	1754.0	1742.7	1765.3	1895.5	1991.7	2048.2	2008.6	1952.1	1918.1	1838.9	1838.9
22.5°	1488.1	1510.7	1550.3	1657.8	1782.3	1816.3	1771.0	1640.9	1539.0	1527.7	1533.4
25°	1324.0	1346.6	1408.9	1476.8	1544.7	1601.3	1556.0	1459.8	1403.2	1352.3	1352.3
27.5°	1222.2	1233.5	1267.4	1318.3	1374.9	1420.2	1403.2	1352.3	1290.1	1267.4	1216.5
30°	1142.9	1159.9	1199.5	1210.8	1261.8	1284.4	1256.1	1244.8	1205.2	1176.9	1159.9
32.5°	1103.3	1097.7	1126.0	1137.3	1142.9	1159.9	1126.0	1142.9	1137.3	1092.0	1075.0
35°	831.7	877.0	950.6	1012.8	1029.8	1052.4	1046.8	1024.1	961.9	911.0	848.7
37.5°	746.9	775.2	814.8	865.7	933.6	961.9	950.6	894.0	820.4	786.5	775.2
40°	690.3	707.3	741.2	775.2	843.1	894.0	854.4	803.5	746.9	718.6	701.6
42.5°	639.4	645.0	662.0	696.0	746.9	826.1	758.2	690.3	667.7	650.7	639.4
45°	582.8	582.8	605.4	622.4	679.0	752.5	684.6	622.4	611.1	599.8	594.1
47.5°	537.5	543.2	554.5	577.1	622.4	673.3	628.1	577.1	548.8	543.2	531.9
50°	480.9	486.6	509.2	531.9	588.4	616.7	588.4	531.9	503.6	486.6	486.6
52°	435.7	452.7	475.3	520.5	560.2	605.4	571.5	509.2	475.3	458.3	447.0
52.5°	430.0	441.3	464.0	514.9	560.2	599.8	565.8	503.6	464.0	452.7	441.3
55°	384.8	401.7	441.3	503.6	554.5	599.8	554.5	497.9	441.3	413.0	401.7
57.5°	367.8	379.1	430.0	509.2	548.8	599.8	554.5	497.9	441.3	390.4	379.1
60°	350.8	373.4	430.0	492.3	543.2	605.4	560.2	492.3	430.0	367.8	367.8
62.5°	333.8	350.8	424.4	480.9	520.5	582.8	537.5	480.9	413.0	350.8	345.1
65°	288.6	316.9	373.4	401.7	447.0	503.6	458.3	418.7	362.1	311.2	305.5
67.5°	220.7	232.0	277.2	311.2	339.5	390.4	367.8	316.9	277.2	237.6	237.6
70°	152.8	164.1	198.0	215.0	243.3	271.6	254.6	215.0	186.7	164.1	158.4
72.5°	107.5	113.2	124.5	135.8	147.1	158.4	152.8	124.5	107.5	101.8	96.2
75°	84.9	96.2	101.8	96.2	90.5	84.9	84.9	73.6	62.2	56.6	56.6
77.5°	84.9	90.5	84.9	73.6	62.2	56.6	50.9	45.3	33.9	28.3	33.9
80°	73.6	73.6	73.6	62.2	56.6	50.9	45.3	39.6	33.9	28.3	28.3
82.5°	79.2	79.2	73.6	62.2	62.2	50.9	50.9	45.3	39.6	28.3	28.3
85°	0.0	0.0	0.0	11.3	28.3	50.9	50.9	45.3	39.6	33.9	33.9
87.5°	0.0	0.0	0.0	0.0	5.7	11.3	22.6	28.3	33.9	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2
2.5°	12493.2	12708.2	13115.6	13523.0	13771.9	14066.2	14598.0	14880.9	15248.7	15429.8	15786.2
5°	10065.8	10575.1	10756.1	11220.1	11718.0	12215.9	13008.1	13879.4	14603.7	15101.6	15746.6
7.5°	7344.3	7463.1	8164.7	8475.9	9290.7	10196.0	11276.7	12374.4	13291.0	14105.8	14598.0
10°	5505.4	5941.1	6382.4	6976.5	7632.8	8566.4	9601.9	10812.7	12000.9	12815.7	13438.1
12.5°	4424.7	4769.8	5358.3	5997.6	6806.7	7423.5	8464.6	9664.1	11203.1	12000.9	12821.4
15°	3349.6	3791.0	4458.6	5120.6	5975.0	6625.7	7678.1	9188.8	11169.2	12266.9	12974.1
17.5°	2483.9	2783.8	3383.6	4124.8	4996.1	5912.8	7333.0	9137.9	11548.3	12855.3	13585.2
20°	1901.1	2003.0	2382.1	3044.1	3989.0	5188.5	6772.8	9358.6	12668.6	14286.8	15028.0
22.5°	1539.0	1584.3	1731.4	2189.7	3106.3	4554.8	6506.9	9511.3	13930.4	16001.2	16991.4
25°	1341.0	1329.7	1425.9	1623.9	2427.3	3960.7	6167.4	10088.5	15475.0	18015.5	18903.9
27.5°	1222.2	1222.2	1267.4	1408.9	2014.3	3575.9	5952.4	10501.5	17031.0	19786.5	20267.5
30°	1159.9	1171.2	1301.4	1346.6	1674.8	3117.6	5595.9	10920.2	18519.1	20918.2	21580.2
32.5°	1075.0	1029.8	1001.5	1114.7	1408.9	2704.6	5239.4	11095.6	19724.3	22304.4	22870.2
35°	826.1	803.5	837.4	922.3	1210.8	2353.8	4843.4	11293.7	21110.5	23911.3	24024.5
37.5°	746.9	741.2	763.8	837.4	1018.5	2048.2	4560.5	11242.7	22168.6	25241.0	24935.4
40°	690.3	690.3	707.3	769.5	911.0	1833.2	4266.2	11197.5	23192.7	26734.7	25840.8
42.5°	645.0	645.0	673.3	712.9	865.7	1691.8	4045.6	11135.2	24052.8	27651.4	26372.6
45°	582.8	599.8	645.0	684.6	877.0	1595.6	3881.5	10897.6	24347.0	27640.0	26118.0
47.5°	537.5	560.2	605.4	662.0	792.1	1567.3	3768.3	10688.2	24245.2	26961.1	25320.2
50°	486.6	514.9	577.1	673.3	673.3	1510.7	3649.5	10875.0	24171.6	26434.9	24556.4
52°	452.7	475.3	554.5	656.3	588.4	1391.9	3575.9	11237.1	24471.5	26367.0	24216.9
52.5°	447.0	464.0	537.5	645.0	560.2	1369.3	3525.0	11321.9	24567.7	26197.2	24448.8
55°	396.1	418.7	492.3	503.6	458.3	1126.0	3360.9	11514.3	24092.4	25863.4	24228.2
57.5°	373.4	384.8	435.7	413.0	396.1	848.7	2891.3	11214.4	21399.1	22972.1	22542.1
60°	345.1	356.5	407.4	322.5	333.8	594.1	2172.7	9737.7	17183.8	19141.5	19916.7
62.5°	333.8	328.2	384.8	260.3	282.9	430.0	1533.4	7915.7	13240.1	15757.9	17098.9
65°	294.2	288.6	277.2	220.7	243.3	333.8	916.6	5165.9	9330.3	11921.7	12657.3
67.5°	226.3	237.6	203.7	175.4	203.7	260.3	509.2	2314.2	4894.3	7151.9	7746.0
70°	158.4	169.7	164.1	152.8	181.1	215.0	294.2	792.1	2025.6	3757.0	4141.8
72.5°	96.2	118.8	124.5	130.1	158.4	186.7	209.4	254.6	537.5	1329.7	1652.2
75°	56.6	79.2	96.2	113.2	130.1	158.4	175.4	181.1	186.7	249.0	401.7
77.5°	39.6	56.6	84.9	107.5	130.1	158.4	186.7	198.0	186.7	175.4	186.7
80°	33.9	56.6	79.2	101.8	135.8	164.1	186.7	186.7	181.1	158.4	169.7
82.5°	33.9	56.6	84.9	107.5	130.1	158.4	181.1	186.7	169.7	158.4	164.1
85°	39.6	62.2	90.5	113.2	141.5	130.1	118.8	96.2	90.5	73.6	79.2
87.5°	39.6	56.6	56.6	62.2	67.9	67.9	67.9	62.2	50.9	45.3	45.3
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: P533905

CATALOG NUMBER: GALN-SA9B-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2	14462.2
2.5°	15803.2	16255.9	16238.9	16250.2	16182.3	15724.0	15503.3	14943.2	15101.6	15033.7
5°	16408.6	16855.6	17240.4	17195.1	16674.6	16052.2	15129.9	14258.5	14020.9	13670.1
7.5°	15803.2	16878.2	17234.7	17183.8	16414.3	15616.5	14145.4	13274.0	12861.0	12629.0
10°	14841.3	16086.1	16527.4	16618.0	16097.4	14886.6	13534.3	12136.7	11916.1	11514.3
12.5°	14292.5	15197.8	15469.4	15712.7	15531.6	14626.3	13070.3	11729.3	11423.8	11157.9
15°	13845.5	14383.0	14496.2	14773.4	14880.9	14394.3	13313.6	12170.7	11418.1	11389.8
17.5°	14258.5	14037.9	13624.8	13709.7	14049.2	14400.0	13941.7	13042.0	12312.1	12221.6
20°	14943.2	13970.0	13036.4	13245.7	13528.6	14603.7	14892.2	14258.5	13839.8	13607.8
22.5°	15729.6	14088.8	12849.6	12951.5	13489.0	15062.0	16431.3	16080.5	15299.6	14965.8
25°	17183.8	14417.0	12996.8	13064.7	13800.2	15701.4	17823.2	18083.4	17619.5	17551.6
27.5°	18604.0	15265.7	13319.3	13166.5	13958.6	16323.8	18666.2	20063.8	19249.0	19090.6
30°	19328.2	15956.0	13800.2	13539.9	14615.0	16702.8	19175.5	21353.8	20640.9	20567.4
32.5°	20437.2	16584.0	14173.7	13839.8	14982.8	17172.5	20126.0	22762.7	22072.4	21704.6
35°	20901.2	17268.7	14994.1	14603.7	16035.2	17828.8	20612.6	24018.8	23803.8	23447.4
37.5°	21795.2	18004.2	15961.6	15939.0	17308.3	18683.2	21489.6	25727.6	25688.0	25071.2
40°	21868.7	18807.7	17489.3	18202.3	19277.3	20171.3	22259.1	26202.9	26847.9	26429.2
42.5°	21981.9	20216.6	20131.7	20720.1	21642.4	21450.0	22287.4	26316.0	27300.6	27051.6
45°	22032.8	21625.4	22819.3	23905.7	24290.4	23124.8	22021.5	26101.0	27538.2	26915.8
47.5°	21625.4	22836.3	24992.0	27091.2	27204.4	24154.6	21908.3	25880.4	27679.6	27266.6
50°	21682.0	23594.5	26870.5	28749.0	28336.0	25065.6	21732.9	25744.6	27606.1	27328.8
52°	21546.2	23611.4	27136.5	28715.1	28426.5	24562.0	21433.1	25224.0	27538.2	27736.2
52.5°	21699.0	23509.6	26859.2	28737.7	28364.3	24811.0	21393.4	25512.6	27577.8	27176.1
55°	21172.8	22298.8	25235.3	26033.1	25976.5	22519.4	20176.9	24556.4	26542.4	26548.0
57.5°	19135.8	19328.2	19792.2	19775.2	19514.9	17704.3	17257.3	22581.7	23662.4	23073.9
60°	16861.3	14151.0	12900.6	12391.3	12102.8	11808.6	15265.7	20657.9	20759.7	20510.8
62.5°	14569.7	9811.2	8147.7	8006.3	8074.2	9149.2	14756.4	19894.0	19283.0	18745.4
65°	11757.6	7151.9	5918.4	5731.7	6393.7	7553.6	11944.3	15254.4	14315.1	13868.1
67.5°	7383.9	5216.8	4000.3	3649.5	4447.3	5199.8	7847.8	9584.9	8532.5	7915.7
70°	4379.4	2913.9	1810.6	1623.9	1827.6	2772.5	4396.4	4781.1	3955.0	3638.2
72.5°	1725.7	1069.4	503.6	430.0	447.0	973.2	1618.2	1578.6	1193.9	1063.7
75°	464.0	322.5	175.4	141.5	118.8	181.1	260.3	169.7	62.2	79.2
77.5°	215.0	192.4	152.8	118.8	90.5	67.9	33.9	11.3	11.3	5.7
80°	186.7	164.1	141.5	118.8	90.5	56.6	28.3	5.7	5.7	5.7
82.5°	175.4	152.8	130.1	107.5	84.9	56.6	28.3	5.7	0.0	0.0
85°	73.6	96.2	107.5	101.8	90.5	56.6	28.3	5.7	0.0	0.0
87.5°	39.6	33.9	28.3	22.6	17.0	11.3	11.3	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

(END OF REPORT)