

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: P533775

Luminaire Tested: **GALN-SA9B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533775
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-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 23850 lumens
Efficiency: N/A
Efficacy: 65.5 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

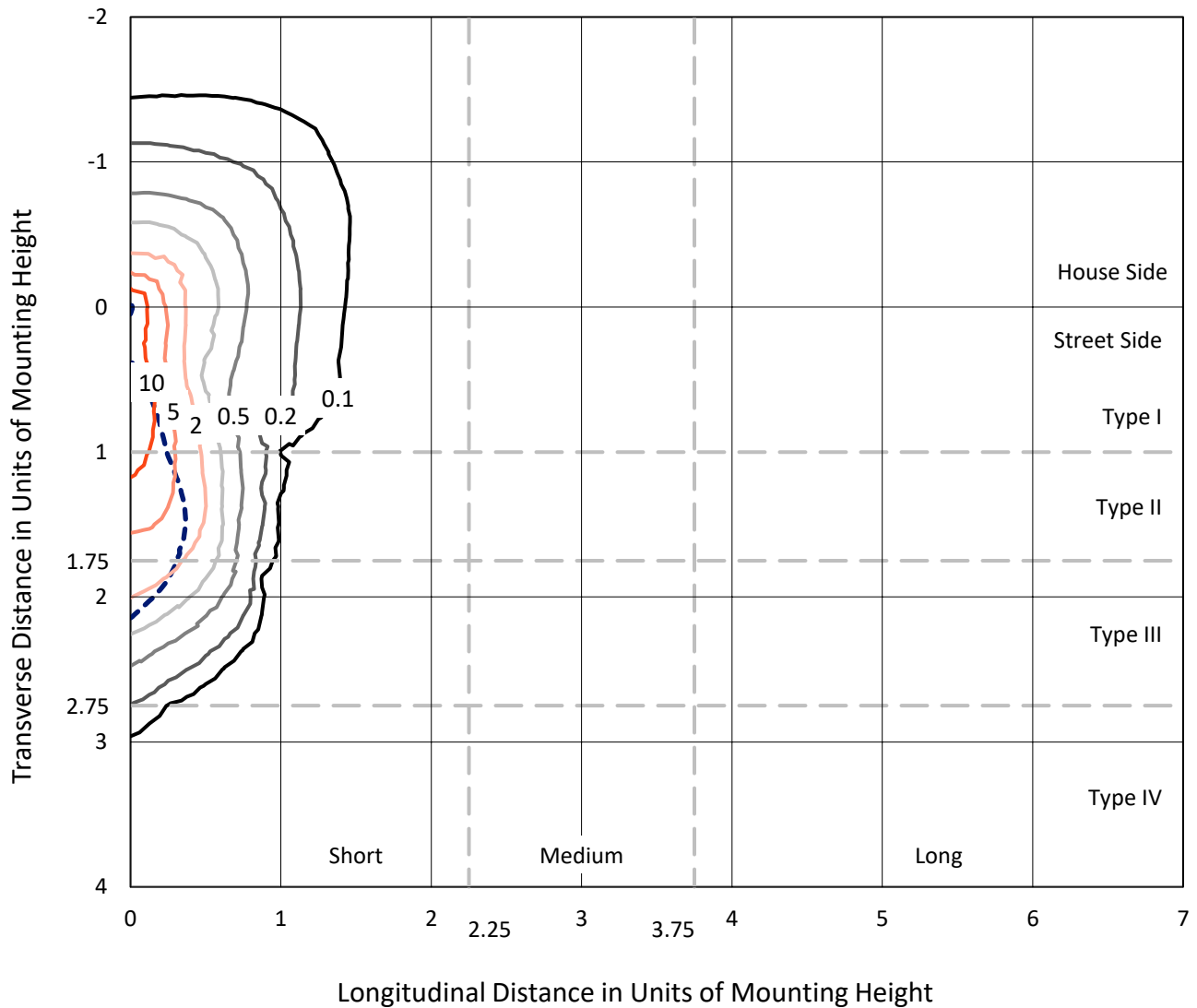
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

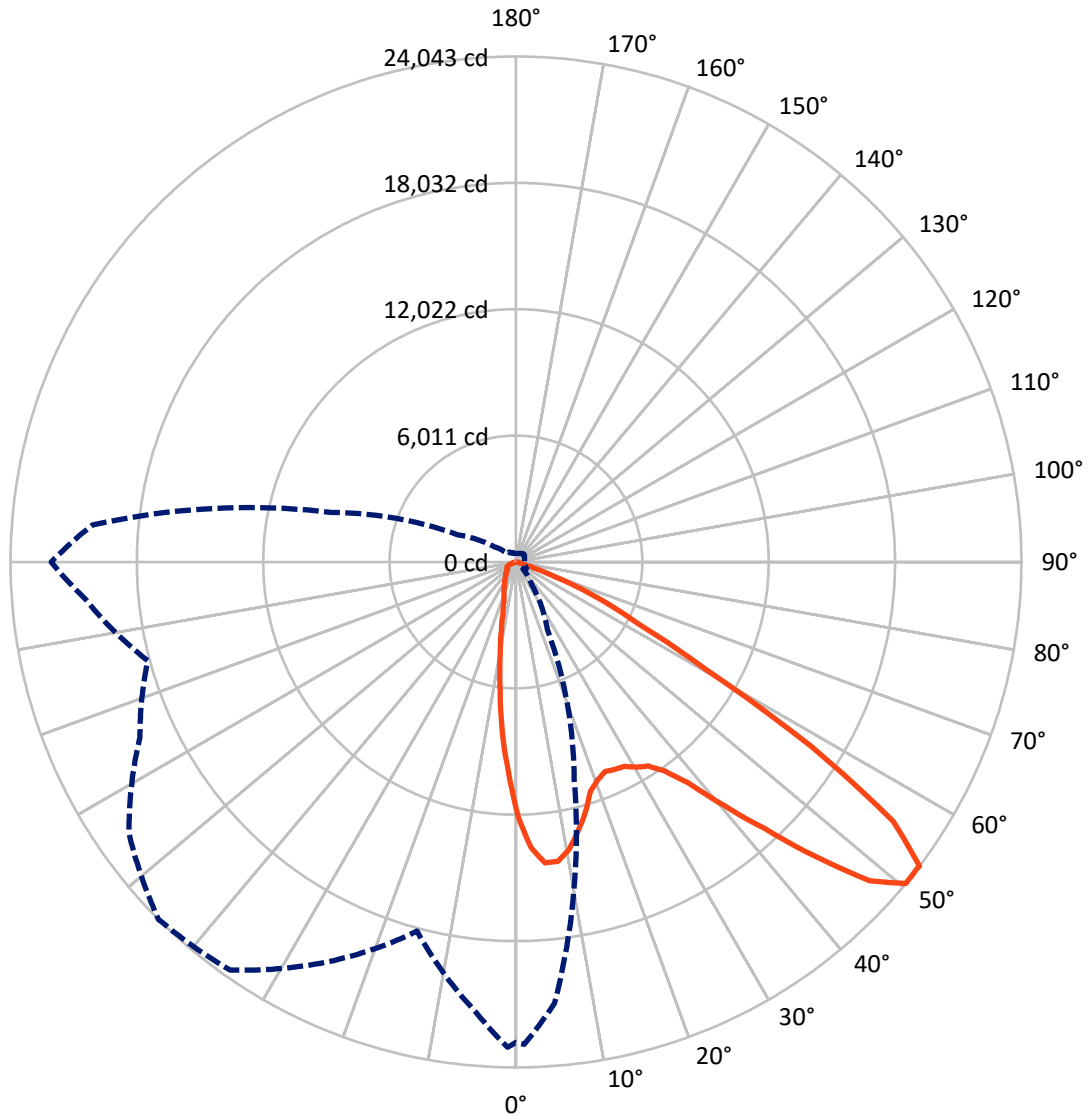
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4777.2	0.0	4777.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	19072.8	0.0	19072.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	23850.0	0.0	23850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.6	3.7
10°-20°	1752.1	7.3
20°-30°	2632.2	11.0
30°-40°	3950.9	16.6
40°-50°	5552.7	23.3
50°-60°	5989.6	25.1
60°-70°	2780.9	11.7
70°-80°	261.7	1.1
80°-90°	48.2	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°	23850.0	100.0
0°-180°	23850.0	100.0

Coefficient of Utilization



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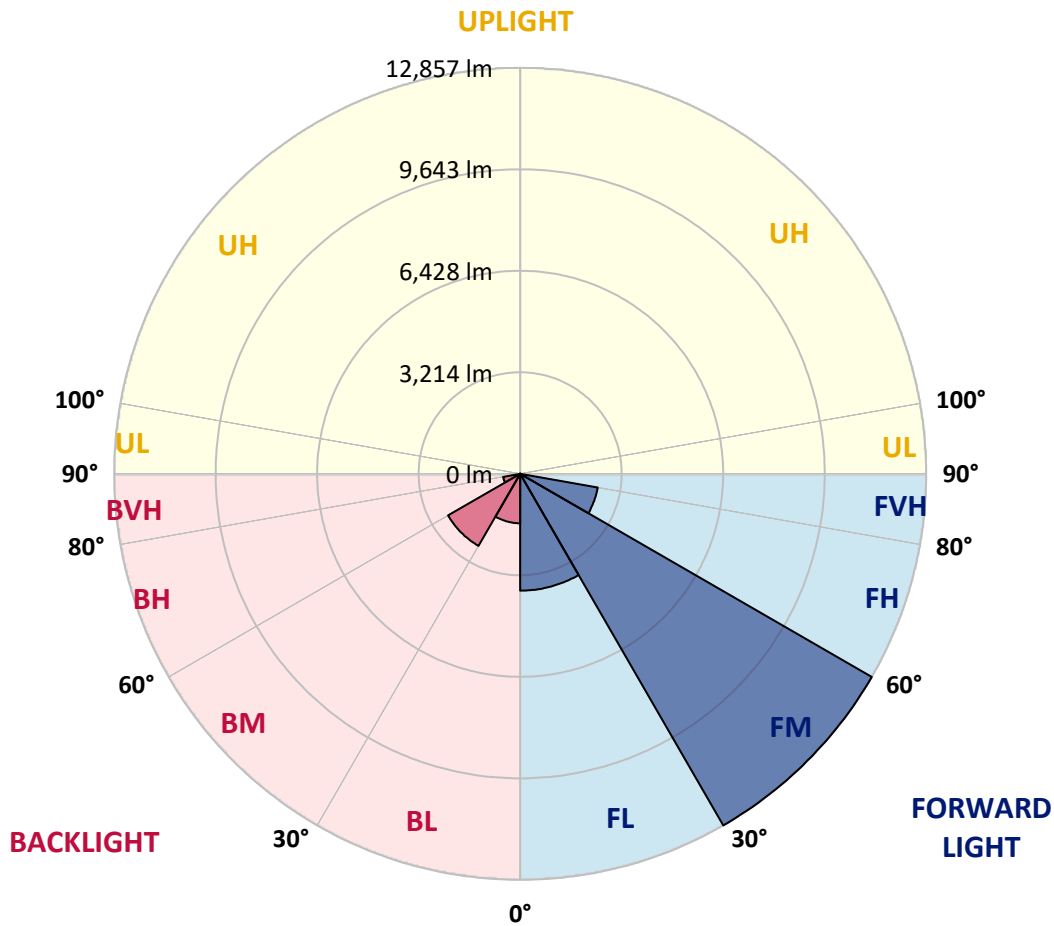
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3700.1	15.5			
FM (30°-60°)	12856.9	53.9			
FH (60°-80°)	2494.1	10.5			G2/5000
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	1565.8	6.6	B3/2500		
BM (30°-60°)	2636.3	11.1	B3/5000		
BH (60°-80°)	548.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	26.5	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°	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0
2.5°	12572.9	12378.9	12132.8	11929.3	11626.5	11016.1	10850.4	10651.7	10486.1	10263.7	9951.4
5°	11432.5	11371.0	11257.4	10490.8	9937.2	9199.0	8593.3	8337.8	8001.8	7727.3	7528.6
7.5°	10561.8	10315.7	9956.1	9184.8	8299.9	7509.7	6837.7	6445.0	6000.2	5848.7	5579.0
10°	9629.6	9686.4	9156.4	8072.8	7003.3	6364.5	5948.1	5569.5	5167.3	4902.3	4519.0
12.5°	9331.5	9146.9	8740.0	7400.8	6487.6	5891.3	5385.0	4916.5	4490.7	4064.8	3695.7
15°	9525.5	9241.6	8673.7	7258.9	6090.1	5347.1	4713.1	4079.0	3686.2	3142.0	2758.7
17.5°	10221.1	9994.0	9232.1	7410.3	5886.6	4826.6	3885.0	3231.9	2631.0	2138.9	1944.8
20°	11380.4	11058.7	10102.8	7604.3	5583.7	4197.3	3151.5	2347.1	1779.2	1571.0	1462.2
22.5°	12516.1	12341.0	11134.4	7978.1	5314.0	3638.9	2366.0	1580.5	1329.7	1291.8	1220.9
25°	14678.6	14153.4	12710.1	8654.8	5105.8	3113.6	1784.0	1272.9	1126.2	1097.8	1107.3
27.5°	15965.7	15525.6	14167.6	9104.3	4873.9	2711.4	1509.5	1168.8	1069.4	1007.9	984.3
30°	17200.8	16689.7	14891.6	9369.3	4377.1	2285.5	1339.2	1121.5	1097.8	1007.9	979.5
32.5°	18151.9	17650.3	15937.3	9766.8	4173.6	2011.1	1102.6	875.4	813.9	804.4	889.6
35°	19609.4	19074.6	16831.7	9984.5	4017.5	1869.1	955.9	780.8	709.8	681.4	686.1
37.5°	20967.4	20603.1	17659.8	10069.7	3851.8	1826.5	856.5	700.3	638.8	619.9	615.2
40°	22103.1	21289.2	18445.3	10159.6	3780.9	1746.1	795.0	638.8	596.2	567.8	567.8
42.5°	22623.6	21795.5	19325.4	10107.5	3761.9	1618.3	795.0	586.8	553.6	525.3	520.5
45°	22510.1	22174.1	19718.2	10083.9	3761.9	1490.6	724.0	572.6	525.3	487.4	477.9
47.5°	22803.4	22363.4	20210.3	10183.2	3686.2	1400.7	610.4	601.0	496.9	449.5	440.1
50°	22855.5	22940.7	21066.8	10699.0	3520.6	1287.1	477.9	591.5	477.9	407.0	397.5
52°	23196.2	22666.2	21327.1	10973.5	3345.5	1201.9	402.2	506.3	459.0	378.6	369.1
52.5°	22727.7	23073.2	21388.6	11072.8	3364.4	1145.1	388.0	496.9	449.5	378.6	354.9
55°	22202.5	22533.7	21137.8	11285.8	3085.3	899.1	302.8	359.6	407.0	331.2	317.0
57.5°	19297.0	19633.0	18369.6	10334.7	2512.7	634.1	250.8	269.7	359.6	307.6	293.4
60°	17153.4	16912.1	15416.8	8621.7	1784.0	354.9	198.7	208.2	392.8	283.9	279.2
62.5°	15677.1	15161.3	12885.2	6657.9	1088.4	236.6	156.2	160.9	302.8	265.0	265.0
65°	11598.1	11020.8	8560.2	4026.9	534.7	165.6	118.3	127.8	189.3	227.1	227.1
67.5°	6620.0	6397.6	4135.8	1817.1	222.4	104.1	89.9	99.4	146.7	184.5	175.1
70°	3042.7	2730.4	1589.9	383.3	104.1	71.0	71.0	80.4	118.3	137.2	127.8
72.5°	889.6	842.3	388.0	61.5	42.6	42.6	47.3	61.5	89.9	104.1	94.6
75°	66.2	42.6	28.4	18.9	18.9	28.4	37.9	61.5	89.9	99.4	80.4
77.5°	4.7	9.5	4.7	4.7	14.2	28.4	42.6	75.7	118.3	123.0	89.9
80°	4.7	4.7	0.0	4.7	14.2	28.4	47.3	85.2	132.5	142.0	75.7
82.5°	0.0	0.0	0.0	4.7	18.9	37.9	56.8	89.9	123.0	151.4	80.4
85°	0.0	0.0	0.0	4.7	28.4	52.1	66.2	23.7	14.2	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°	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0
2.5°	10173.8	10050.7	10003.4	10046.0	10031.8	10017.6	10277.9	10221.1	10211.6	10296.8	10277.9
5°	7637.4	7419.8	8016.0	7774.7	8025.4	8176.9	8205.3	8219.5	8394.5	8210.0	8451.3
7.5°	5441.8	5498.6	5493.8	5654.7	5943.4	6198.9	6350.3	6232.0	6222.6	6198.9	6094.8
10°	4348.7	4249.3	4230.4	4192.5	4282.4	4500.1	4684.7	4538.0	4433.9	4575.8	4533.2
12.5°	3553.7	3416.5	3340.8	3189.4	3194.1	3340.8	3340.8	3340.8	3444.9	3525.3	3586.8
15°	2725.6	2612.1	2612.1	2460.6	2427.5	2432.2	2508.0	2517.4	2683.0	2730.4	2754.0
17.5°	1907.0	1845.5	1916.5	1978.0	1940.1	1949.6	1978.0	1987.4	2011.1	1992.2	2039.5
20°	1466.9	1457.5	1476.4	1585.2	1665.7	1713.0	1679.9	1632.5	1604.1	1537.9	1537.9
22.5°	1244.5	1263.4	1296.6	1386.5	1490.6	1519.0	1481.1	1372.3	1287.1	1277.6	1282.4
25°	1107.3	1126.2	1178.3	1235.0	1291.8	1339.2	1301.3	1220.9	1173.5	1130.9	1130.9
27.5°	1022.1	1031.6	1060.0	1102.6	1149.9	1187.7	1173.5	1130.9	1078.9	1060.0	1017.4
30°	955.9	970.1	1003.2	1012.6	1055.2	1074.2	1050.5	1041.0	1007.9	984.3	970.1
32.5°	922.7	918.0	941.7	951.1	955.9	970.1	941.7	955.9	951.1	913.3	899.1
35°	695.6	733.5	795.0	847.0	861.2	880.1	875.4	856.5	804.4	761.8	709.8
37.5°	624.6	648.3	681.4	724.0	780.8	804.4	795.0	747.7	686.1	657.7	648.3
40°	577.3	591.5	619.9	648.3	705.1	747.7	714.5	671.9	624.6	601.0	586.8
42.5°	534.7	539.4	553.6	582.0	624.6	690.9	634.1	577.3	558.4	544.2	534.7
45°	487.4	487.4	506.3	520.5	567.8	629.4	572.6	520.5	511.1	501.6	496.9
47.5°	449.5	454.3	463.7	482.7	520.5	563.1	525.3	482.7	459.0	454.3	444.8
50°	402.2	407.0	425.9	444.8	492.1	515.8	492.1	444.8	421.1	407.0	407.0
52°	364.4	378.6	397.5	435.3	468.5	506.3	477.9	425.9	397.5	383.3	373.8
52.5°	359.6	369.1	388.0	430.6	468.5	501.6	473.2	421.1	388.0	378.6	369.1
55°	321.8	336.0	369.1	421.1	463.7	501.6	463.7	416.4	369.1	345.4	336.0
57.5°	307.6	317.0	359.6	425.9	459.0	501.6	463.7	416.4	369.1	326.5	317.0
60°	293.4	312.3	359.6	411.7	454.3	506.3	468.5	411.7	359.6	307.6	307.6
62.5°	279.2	293.4	354.9	402.2	435.3	487.4	449.5	402.2	345.4	293.4	288.7
65°	241.3	265.0	312.3	336.0	373.8	421.1	383.3	350.2	302.8	260.3	255.5
67.5°	184.5	194.0	231.9	260.3	283.9	326.5	307.6	265.0	231.9	198.7	198.7
70°	127.8	137.2	165.6	179.8	203.5	227.1	212.9	179.8	156.2	137.2	132.5
72.5°	89.9	94.6	104.1	113.6	123.0	132.5	127.8	104.1	89.9	85.2	80.4
75°	71.0	80.4	85.2	80.4	75.7	71.0	71.0	61.5	52.1	47.3	47.3
77.5°	71.0	75.7	71.0	61.5	52.1	47.3	42.6	37.9	28.4	23.7	28.4
80°	61.5	61.5	61.5	52.1	47.3	42.6	37.9	33.1	28.4	23.7	23.7
82.5°	66.2	66.2	61.5	52.1	52.1	42.6	42.6	37.9	33.1	23.7	23.7
85°	0.0	0.0	0.0	9.5	23.7	42.6	42.6	37.9	33.1	28.4	28.4
87.5°	0.0	0.0	0.0	0.0	4.7	9.5	18.9	23.7	28.4	28.4	28.4
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°	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0
2.5°	10448.2	10628.0	10968.7	11309.4	11517.7	11763.7	12208.5	12445.1	12752.7	12904.1	13202.2
5°	8418.2	8844.1	8995.5	9383.5	9799.9	10216.4	10878.8	11607.6	12213.3	12629.7	13169.1
7.5°	6142.1	6241.5	6828.3	7088.5	7769.9	8527.0	9430.8	10348.9	11115.4	11796.8	12208.5
10°	4604.2	4968.6	5337.7	5834.5	6383.4	7164.2	8030.2	9042.8	10036.5	10717.9	11238.5
12.5°	3700.4	3989.1	4481.2	5015.9	5692.6	6208.4	7079.1	8082.2	9369.3	10036.5	10722.7
15°	2801.3	3170.4	3728.8	4282.4	4997.0	5541.2	6421.3	7684.7	9340.9	10258.9	10850.4
17.5°	2077.3	2328.1	2829.7	3449.6	4178.3	4944.9	6132.7	7642.2	9658.0	10751.1	11361.5
20°	1589.9	1675.1	1992.2	2545.8	3336.1	4339.2	5664.2	7826.7	10594.9	11948.3	12568.2
22.5°	1287.1	1325.0	1448.0	1831.3	2597.9	3809.2	5441.8	7954.5	11650.1	13382.1	14210.2
25°	1121.5	1112.0	1192.5	1358.1	2030.0	3312.4	5157.9	8437.1	12942.0	15066.6	15809.6
27.5°	1022.1	1022.1	1060.0	1178.3	1684.6	2990.6	4978.0	8782.6	14243.3	16547.8	16950.0
30°	970.1	979.5	1088.4	1126.2	1400.7	2607.3	4679.9	9132.7	15487.8	17494.2	18047.8
32.5°	899.1	861.2	837.6	932.2	1178.3	2261.9	4381.8	9279.4	16495.7	18653.5	19126.7
35°	690.9	671.9	700.3	771.3	1012.6	1968.5	4050.6	9445.0	17655.0	19997.4	20092.0
37.5°	624.6	619.9	638.8	700.3	851.8	1713.0	3814.0	9402.5	18539.9	21109.4	20853.9
40°	577.3	577.3	591.5	643.6	761.8	1533.2	3567.9	9364.6	19396.4	22358.6	21611.0
42.5°	539.4	539.4	563.1	596.2	724.0	1414.9	3383.4	9312.5	20115.7	23125.2	22055.8
45°	487.4	501.6	539.4	572.6	733.5	1334.4	3246.1	9113.8	20361.7	23115.8	21842.8
47.5°	449.5	468.5	506.3	553.6	662.5	1310.8	3151.5	8938.7	20276.6	22547.9	21175.6
50°	407.0	430.6	482.7	563.1	563.1	1263.4	3052.1	9094.9	20215.0	22107.8	20536.8
52°	378.6	397.5	463.7	548.9	492.1	1164.1	2990.6	9397.7	20465.8	22051.1	20252.9
52.5°	373.8	388.0	449.5	539.4	468.5	1145.1	2948.0	9468.7	20546.3	21909.1	20446.9
55°	331.2	350.2	411.7	421.1	383.3	941.7	2810.8	9629.6	20148.8	21629.9	20262.4
57.5°	312.3	321.8	364.4	345.4	331.2	709.8	2418.0	9378.8	17896.4	19211.9	18852.2
60°	288.7	298.1	340.7	269.7	279.2	496.9	1817.1	8143.7	14371.0	16008.3	16656.6
62.5°	279.2	274.5	321.8	217.7	236.6	359.6	1282.4	6620.0	11072.8	13178.6	14300.1
65°	246.1	241.3	231.9	184.5	203.5	279.2	766.6	4320.3	7803.0	9970.3	10585.5
67.5°	189.3	198.7	170.4	146.7	170.4	217.7	425.9	1935.4	4093.2	5981.2	6478.1
70°	132.5	142.0	137.2	127.8	151.4	179.8	246.1	662.5	1694.1	3142.0	3463.8
72.5°	80.4	99.4	104.1	108.8	132.5	156.2	175.1	212.9	449.5	1112.0	1381.7
75°	47.3	66.2	80.4	94.6	108.8	132.5	146.7	151.4	156.2	208.2	336.0
77.5°	33.1	47.3	71.0	89.9	108.8	132.5	156.2	165.6	156.2	146.7	156.2
80°	28.4	47.3	66.2	85.2	113.6	137.2	156.2	156.2	151.4	132.5	142.0
82.5°	28.4	47.3	71.0	89.9	108.8	132.5	151.4	156.2	142.0	132.5	137.2
85°	33.1	52.1	75.7	94.6	118.3	108.8	99.4	80.4	75.7	61.5	66.2
87.5°	33.1	47.3	47.3	52.1	56.8	56.8	56.8	52.1	42.6	37.9	37.9
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: P533775

CATALOG NUMBER: GALN-SA9B-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0	12095.0
2.5°	13216.4	13595.0	13580.8	13590.3	13533.5	13150.2	12965.6	12497.2	12629.7	12572.9
5°	13722.8	14096.6	14418.4	14380.5	13945.2	13424.6	12653.3	11924.6	11725.9	11432.5
7.5°	13216.4	14115.5	14413.6	14371.0	13727.5	13060.3	11830.0	11101.2	10755.8	10561.8
10°	12412.0	13453.0	13822.1	13897.8	13462.5	12449.9	11318.9	10150.1	9965.6	9629.6
12.5°	11953.0	12710.1	12937.2	13140.7	12989.3	12232.2	10930.9	9809.4	9553.9	9331.5
15°	11579.2	12028.7	12123.3	12355.2	12445.1	12038.2	11134.4	10178.5	9549.1	9525.5
17.5°	11924.6	11740.1	11394.6	11465.6	11749.5	12042.9	11659.6	10907.2	10296.8	10221.1
20°	12497.2	11683.3	10902.5	11077.6	11314.2	12213.3	12454.6	11924.6	11574.4	11380.4
22.5°	13154.9	11782.6	10746.3	10831.5	11281.1	12596.5	13741.7	13448.3	12795.3	12516.1
25°	14371.0	12057.1	10869.4	10926.2	11541.3	13131.3	14905.8	15123.4	14735.4	14678.6
27.5°	15558.8	12766.9	11139.1	11011.3	11673.8	13651.8	15610.8	16779.6	16098.2	15965.7
30°	16164.5	13344.2	11541.3	11323.6	12222.7	13968.8	16036.7	17858.5	17262.3	17200.8
32.5°	17091.9	13869.5	11853.6	11574.4	12530.3	14361.6	16831.7	19036.8	18459.5	18151.9
35°	17480.0	14442.0	12539.8	12213.3	13410.4	14910.5	17238.6	20087.3	19907.5	19609.4
37.5°	18227.6	15057.2	13348.9	13330.0	14475.1	15625.0	17972.1	21516.3	21483.2	20967.4
40°	18289.1	15729.1	14626.6	15222.8	16121.9	16869.5	18615.6	21913.8	22453.3	22103.1
42.5°	18383.8	16907.4	16836.4	17328.5	18099.8	17939.0	18639.3	22008.5	22831.8	22623.6
45°	18426.4	18085.7	19084.1	19992.6	20314.4	19339.6	18416.9	21828.7	23030.6	22510.1
47.5°	18085.7	19098.3	20901.2	22656.7	22751.4	20200.8	18322.3	21644.1	23148.9	22803.4
50°	18133.0	19732.4	22472.2	24043.2	23697.8	20962.7	18175.6	21530.5	23087.4	22855.5
52°	18019.4	19746.6	22694.6	24014.8	23773.5	20541.6	17924.8	21095.2	23030.6	23196.2
52.5°	18147.2	19661.4	22462.7	24033.8	23721.4	20749.8	17891.6	21336.5	23063.7	22727.7
55°	17707.1	18648.8	21104.7	21771.9	21724.5	18833.3	16874.3	20536.8	22197.7	22202.5
57.5°	16003.6	16164.5	16552.5	16538.3	16320.6	14806.4	14432.6	18885.4	19789.2	19297.0
60°	14101.3	11834.7	10788.9	10363.0	10121.7	9875.7	12766.9	17276.5	17361.7	17153.4
62.5°	12184.9	8205.3	6814.1	6695.8	6752.5	7651.6	12341.0	16637.7	16126.6	15677.1
65°	9833.1	5981.2	4949.7	4793.5	5347.1	6317.2	9989.2	12757.4	11971.9	11598.1
67.5°	6175.2	4362.9	3345.5	3052.1	3719.3	4348.7	6563.3	8016.0	7135.8	6620.0
70°	3662.6	2437.0	1514.2	1358.1	1528.4	2318.7	3676.8	3998.5	3307.7	3042.7
72.5°	1443.3	894.3	421.1	359.6	373.8	813.9	1353.3	1320.2	998.4	889.6
75°	388.0	269.7	146.7	118.3	99.4	151.4	217.7	142.0	52.1	66.2
77.5°	179.8	160.9	127.8	99.4	75.7	56.8	28.4	9.5	9.5	4.7
80°	156.2	137.2	118.3	99.4	75.7	47.3	23.7	4.7	4.7	4.7
82.5°	146.7	127.8	108.8	89.9	71.0	47.3	23.7	4.7	0.0	0.0
85°	61.5	80.4	89.9	85.2	75.7	47.3	23.7	4.7	0.0	0.0
87.5°	33.1	28.4	23.7	18.9	14.2	9.5	9.5	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)