

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: P458092

Luminaire Tested: **GALN-SA9C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38279 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

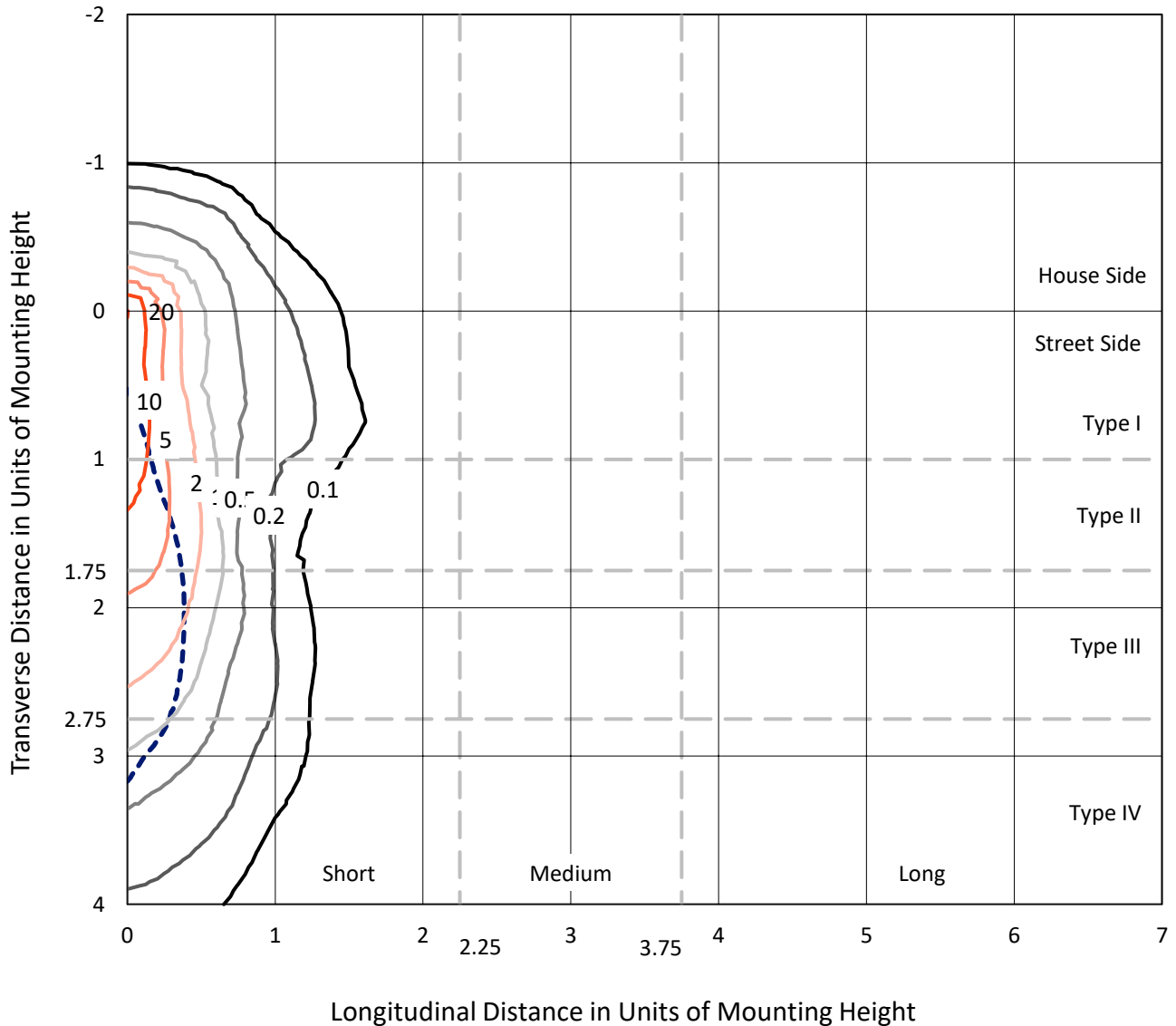
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

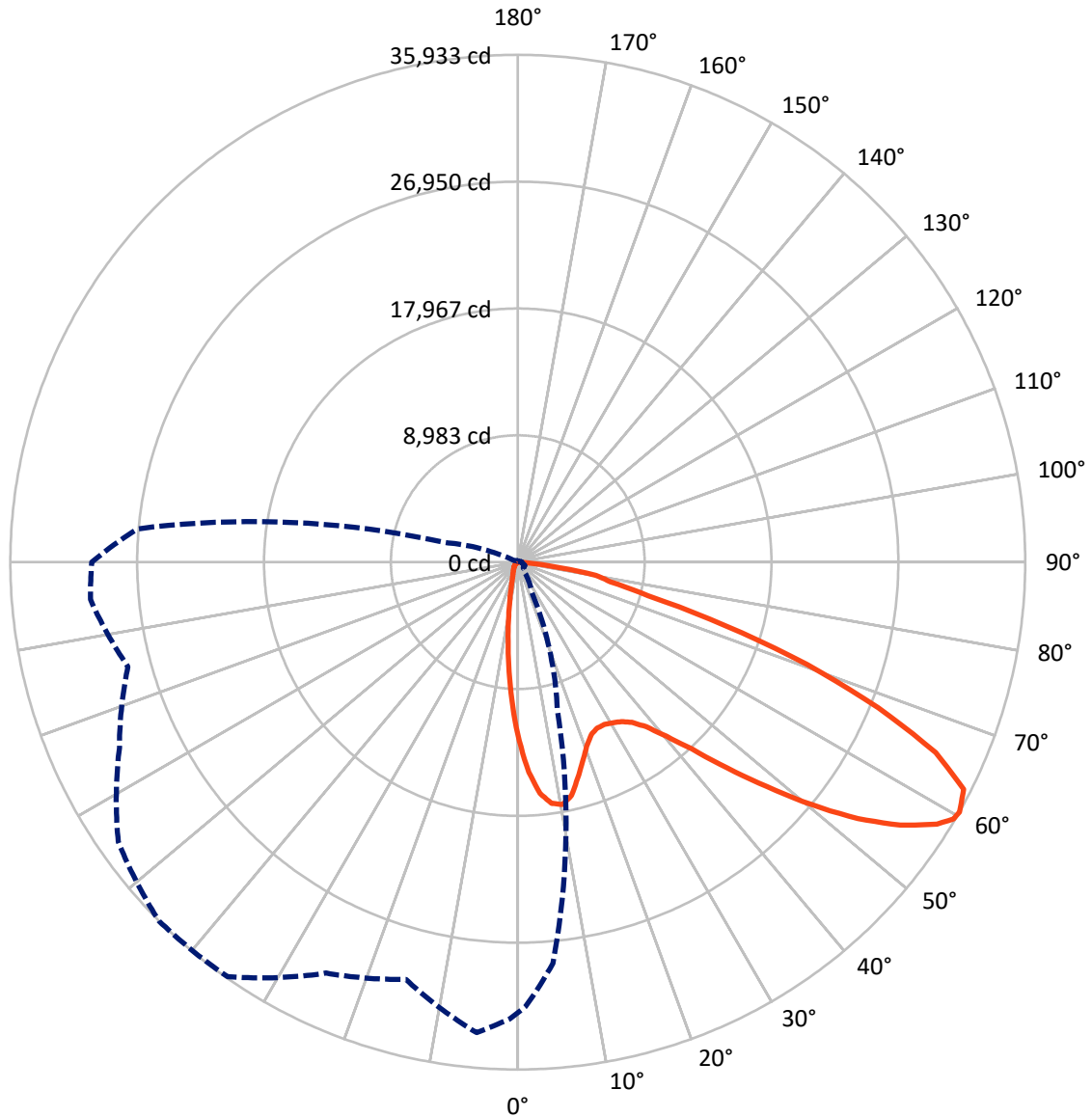
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4721.3	0.0	4721.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	33557.7	0.0	33557.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	38279.0	0.0	38279.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.0	2.5
10°-20°	1868.8	4.9
20°-30°	2740.2	7.2
30°-40°	4075.2	10.6
40°-50°	5930.6	15.5
50°-60°	8552.4	22.3
60°-70°	9406.8	24.6
70°-80°	4213.5	11.0
80°-90°	550.6	1.4
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°	38279.0	100.0
0°-180°	38279.0	100.0



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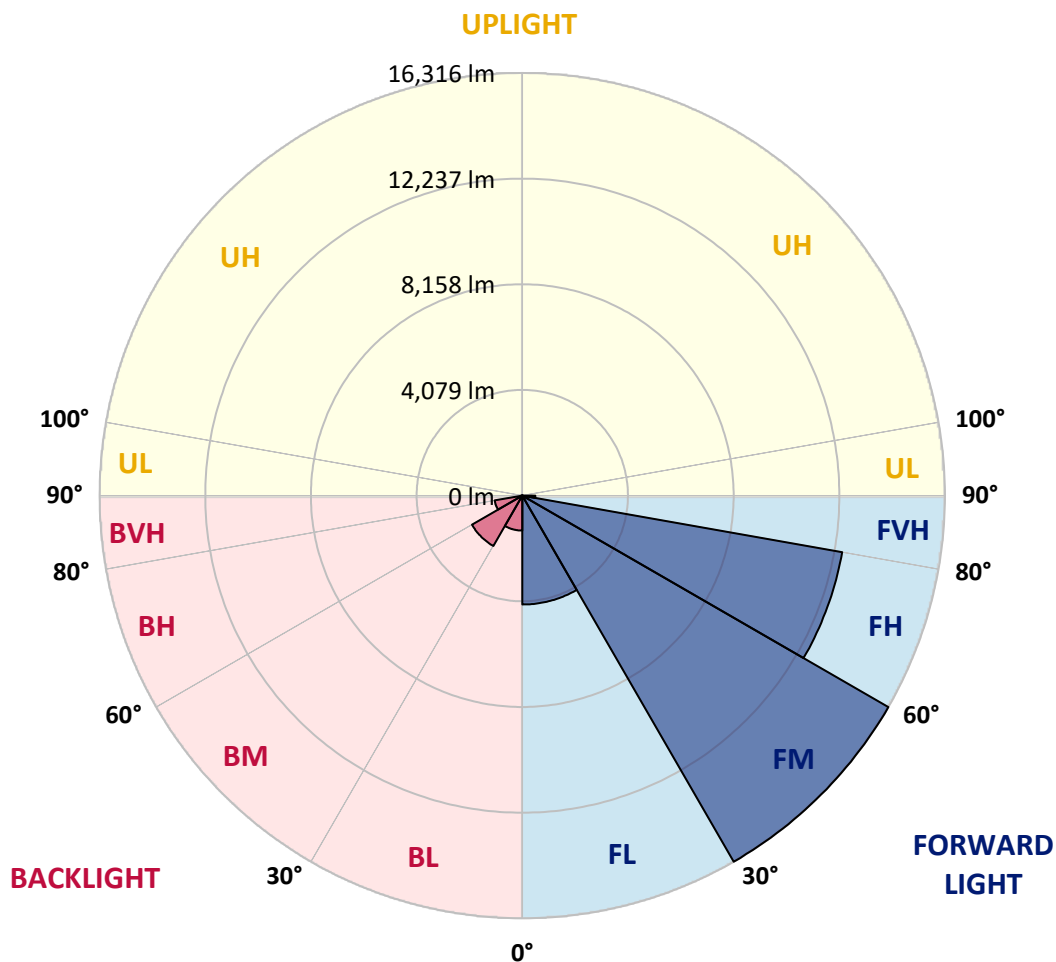
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4201.0	11.0			
FM	(30°-60°)	16315.7	42.6			
FH	(60°-80°)	12537.5	32.8			G5
FVH	(80°-90°)	503.5	1.3			G4/750
BL	(0°-30°)	1349.0	3.5	B3/2500		
BM	(30°-60°)	2242.5	5.9	B2/2500		
BH	(60°-80°)	1082.7	2.8	B3/2500		G3/2500
BVH	(80°-90°)	47.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8
2.5°	13908.8	13847.7	13708.0	13283.2	12913.6	12430.6	11941.8	11557.7	11322.0	10888.4	10690.6
5°	13475.2	13504.3	13099.9	12226.9	11255.1	10591.6	9867.1	9291.0	8656.6	8255.1	7833.1
7.5°	12343.3	12285.1	11845.7	10629.5	9448.1	8487.9	7571.3	6826.4	6357.9	5982.5	5668.3
10°	11374.4	11330.7	10769.1	9203.7	7935.0	7216.3	6596.5	5944.7	5441.3	4891.4	4452.0
12.5°	10766.2	10667.3	10021.3	8386.0	7353.0	6683.8	6008.7	5330.7	4635.3	4079.5	3547.0
15°	10562.5	10419.9	9701.2	8103.8	6980.6	6130.9	5284.2	4504.4	3704.2	3090.2	2688.6
17.5°	10932.1	10696.4	9931.1	8054.3	6535.4	5409.3	4367.6	3352.1	2519.9	2051.4	1804.1
20°	11778.8	11508.2	10513.1	8004.8	6040.7	4600.4	3320.1	2368.6	1743.0	1486.9	1350.1
22.5°	13035.8	12663.4	11374.4	8083.4	5583.9	3811.8	2397.7	1673.1	1385.1	1225.0	1129.0
25°	14546.0	14234.7	12465.5	8362.7	5223.1	3192.0	1853.5	1367.6	1166.8	1067.9	995.1
27.5°	16201.7	15704.1	13876.8	8697.4	4894.3	2711.9	1626.6	1222.1	1038.8	948.6	910.8
30°	17380.2	16993.2	15058.2	8930.1	4484.0	2351.1	1486.9	1204.7	1041.7	934.0	864.2
32.5°	18544.1	18049.4	16047.5	9037.8	4184.3	2100.9	1286.1	1050.4	913.7	858.4	788.6
35°	19789.5	19271.5	17033.9	8979.6	3960.2	1935.0	1166.8	937.0	782.7	689.6	619.8
37.5°	21049.4	20502.4	18014.5	8770.1	3820.6	1868.1	1073.7	890.4	739.1	643.1	567.4
40°	22545.0	21814.7	18934.0	8598.4	3675.1	1833.2	1012.6	861.3	707.1	605.2	529.6
42.5°	23767.1	23071.7	19804.0	8508.2	3576.1	1751.7	1012.6	838.0	686.7	573.2	494.7
45°	24925.2	24203.6	20743.9	8581.0	3535.4	1649.8	1024.2	835.1	672.2	549.9	471.4
47.5°	25894.2	25268.6	21709.9	8854.5	3483.0	1539.3	963.1	875.8	663.4	529.6	448.1
50°	27037.7	26432.5	22987.3	9407.3	3389.9	1428.7	887.5	942.8	660.5	512.1	427.7
52.5°	28649.8	27995.1	24750.7	10035.9	3241.5	1259.9	817.7	934.0	648.9	483.0	407.4
55°	30619.7	30090.1	26793.3	10789.5	3037.8	1070.8	707.1	829.3	614.0	433.6	372.5
57.5°	31882.5	31431.5	28323.9	11115.4	2726.5	875.8	622.7	695.4	561.6	387.0	331.7
59°	32030.9	31623.6	28643.9	11007.7	2522.8	800.2	582.0	596.5	547.0	360.8	308.4
60°	31905.8	31483.9	28515.9	10798.2	2333.6	747.8	547.0	529.6	549.9	346.3	291.0
62.5°	31102.7	30381.1	27273.4	9736.1	2039.8	686.7	485.9	433.6	485.9	311.3	259.0
65°	29551.8	28469.4	24814.7	8240.5	1923.4	651.8	413.2	363.7	369.5	273.5	224.1
67.5°	26842.8	25478.1	21541.2	6695.4	1873.9	654.7	349.2	325.9	285.2	232.8	197.9
70°	22559.6	21197.8	17284.1	5508.2	1850.6	654.7	296.8	279.3	238.6	195.0	171.7
72.5°	15986.4	14519.8	11659.5	4326.9	1667.3	651.8	253.2	253.2	195.0	162.9	139.7
75°	9032.0	9043.6	7329.8	3061.1	1385.1	538.3	203.7	200.8	142.6	125.1	104.8
77.5°	5263.8	5170.7	4940.8	1315.2	643.1	244.4	142.6	122.2	98.9	90.2	75.7
80°	2706.1	2226.0	2167.8	477.2	229.9	154.2	98.9	69.8	64.0	58.2	52.4
82.5°	800.2	803.1	715.8	192.0	128.0	101.8	49.5	37.8	34.9	32.0	32.0
85°	55.3	34.9	40.7	58.2	78.6	40.7	2.9	8.7	8.7	11.6	14.5
87.5°	5.8	2.9	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°	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8
2.5°	10472.3	10600.4	10361.8	10367.6	10169.7	10233.7	10000.9	10076.6	9939.8	10044.6	10353.0
5°	7879.7	7908.8	7716.8	7655.7	7684.7	7804.1	7850.6	7638.2	7728.4	7550.9	7539.3
7.5°	5551.9	5586.8	5476.2	5461.7	5671.2	5621.7	5711.9	5493.7	5287.1	5377.3	5211.4
10°	4312.3	4166.8	3939.9	3875.8	3835.1	3861.3	3861.3	3663.4	3634.3	3555.8	3675.1
12.5°	3404.5	3227.0	3011.6	2720.7	2647.9	2642.1	2534.4	2359.8	2304.6	2237.6	2336.6
15°	2473.3	2400.6	2220.2	2057.2	1891.4	1859.4	1684.8	1542.2	1353.1	1326.9	1318.1
17.5°	1740.1	1632.4	1629.5	1536.4	1440.3	1376.3	1213.4	1050.4	977.7	969.0	969.0
20°	1303.6	1265.8	1204.7	1193.0	1163.9	1091.2	945.7	858.4	823.5	826.4	838.0
22.5°	1097.0	1070.8	1015.5	989.3	977.7	913.7	806.0	747.8	730.4	730.4	733.3
25°	980.6	957.3	896.2	855.5	840.9	794.4	710.0	666.3	651.8	651.8	651.8
27.5°	893.3	864.2	800.2	765.3	739.1	686.7	634.3	590.7	576.1	576.1	579.0
30°	832.2	800.2	742.0	695.4	654.7	608.1	564.5	526.7	509.2	506.3	509.2
32.5°	750.7	721.6	663.4	634.3	587.8	532.5	497.6	462.7	445.2	448.1	445.2
35°	584.9	576.1	535.4	544.1	517.9	471.4	439.4	401.6	381.2	378.3	384.1
37.5°	532.5	497.6	451.0	453.9	445.2	427.7	375.4	334.6	320.1	320.1	323.0
40°	491.8	456.8	404.5	378.3	381.2	381.2	325.9	282.2	267.7	264.8	270.6
42.5°	456.8	421.9	363.7	320.1	308.4	323.0	276.4	232.8	218.2	212.4	218.2
45°	433.6	395.7	328.8	279.3	244.4	261.9	227.0	192.0	174.6	174.6	171.7
47.5°	410.3	375.4	302.6	241.5	203.7	195.0	186.2	154.2	136.8	133.9	136.8
50°	389.9	355.0	273.5	209.5	171.7	151.3	151.3	122.2	110.6	104.8	107.7
52.5°	369.5	331.7	247.3	186.2	148.4	122.2	107.7	98.9	90.2	87.3	90.2
55°	340.4	302.6	221.1	160.0	128.0	101.8	84.4	81.5	75.7	69.8	75.7
57.5°	305.5	270.6	195.0	136.8	101.8	78.6	69.8	66.9	61.1	58.2	58.2
59°	285.2	253.2	180.4	119.3	90.2	69.8	64.0	61.1	55.3	49.5	52.4
60°	273.5	247.3	171.7	110.6	81.5	64.0	58.2	55.3	49.5	46.6	49.5
62.5°	241.5	221.1	151.3	90.2	64.0	46.6	40.7	43.6	40.7	37.8	40.7
65°	212.4	195.0	128.0	69.8	49.5	32.0	29.1	37.8	34.9	32.0	34.9
67.5°	189.1	168.8	107.7	52.4	34.9	17.5	20.4	32.0	32.0	29.1	32.0
70°	162.9	145.5	87.3	37.8	17.5	8.7	14.5	23.3	29.1	26.2	29.1
72.5°	133.9	113.5	66.9	26.2	8.7	0.0	8.7	20.4	29.1	26.2	29.1
75°	104.8	84.4	49.5	14.5	0.0	0.0	2.9	17.5	29.1	26.2	29.1
77.5°	75.7	61.1	29.1	2.9	0.0	0.0	2.9	17.5	29.1	26.2	29.1
80°	49.5	43.6	11.6	0.0	0.0	0.0	2.9	17.5	29.1	29.1	32.0
82.5°	32.0	23.3	0.0	0.0	0.0	0.0	5.8	23.3	32.0	34.9	34.9
85°	14.5	0.0	0.0	0.0	0.0	0.0	11.6	29.1	37.8	37.8	37.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	20.4	34.9	43.6	43.6	43.6
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°	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8
2.5°	10405.4	10588.7	10847.7	11246.3	11569.3	12078.5	12468.4	13000.9	13539.2	13702.2	13955.3
5°	7658.6	7894.3	8482.0	9017.4	9355.0	10431.6	11112.5	12186.2	13149.3	13612.0	14115.4
7.5°	5319.1	5598.4	6046.5	6794.4	7504.3	8380.2	9480.1	10708.0	12119.3	12779.8	13489.8
10°	3733.3	4082.4	4713.9	5327.8	6221.1	7053.3	8138.7	9494.6	11051.4	11831.2	12721.6
12.5°	2356.9	2668.3	3503.4	4193.0	5307.5	6273.5	7274.5	8502.4	10306.5	11106.7	12040.7
15°	1347.2	1609.1	1999.0	2883.6	4120.3	5397.7	6646.0	8071.8	9925.3	10911.7	11921.4
17.5°	1003.9	1073.7	1248.3	1748.8	2874.9	4367.6	6066.9	7940.8	10184.3	11342.4	12494.6
20°	843.8	890.4	971.9	1169.7	1833.2	3363.7	5502.4	7964.1	11022.3	12477.2	13571.2
22.5°	756.5	785.6	852.6	980.6	1251.2	2450.0	4841.9	8100.8	12037.8	13871.0	15133.8
25°	663.4	701.3	759.5	870.0	1041.7	1699.3	4190.1	8406.4	13460.7	15640.1	16827.3
27.5°	590.7	625.6	683.8	785.6	913.7	1297.8	3430.6	8668.3	14962.1	17420.9	18392.8
30°	517.9	552.9	611.1	692.5	808.9	1050.4	2613.0	8822.5	16419.9	18756.5	19504.3
32.5°	456.8	485.9	541.2	614.0	710.0	890.4	2060.1	8662.4	17534.4	19969.9	20470.4
35°	395.7	430.6	477.2	544.1	628.5	759.5	1713.9	8109.6	18491.7	21218.2	21398.6
37.5°	331.7	372.5	421.9	483.0	549.9	698.3	1376.3	7498.5	19515.9	22774.9	22478.1
40°	279.3	317.2	363.7	430.6	491.8	640.2	1059.2	6846.7	20621.7	24235.6	23656.6
42.5°	227.0	267.7	323.0	384.1	485.9	558.7	820.6	6171.7	21613.9	25507.2	24721.6
45°	180.4	215.3	273.5	352.1	483.0	480.1	634.3	5505.3	22361.7	26415.1	25515.9
47.5°	142.6	171.7	229.9	343.4	445.2	407.4	509.2	5092.1	23147.4	27232.7	26124.1
50°	113.5	142.6	197.9	357.9	389.9	349.2	427.7	5159.1	23906.8	27648.8	26374.3
52.5°	96.0	125.1	171.7	282.2	299.7	305.5	375.4	5467.5	24887.4	28094.0	26871.9
55°	84.4	110.6	145.5	197.9	232.8	273.5	343.4	5691.5	26199.7	29048.4	27968.9
57.5°	66.9	96.0	130.9	168.8	192.0	238.6	317.2	5709.0	27386.9	30273.4	29426.7
59°	61.1	87.3	122.2	160.0	171.7	215.3	299.7	5560.6	27430.6	30456.7	30095.9
60°	55.3	84.4	116.4	148.4	162.9	203.7	285.2	5388.9	27034.8	30165.8	30372.4
62.5°	46.6	72.7	101.8	119.3	139.7	168.8	247.3	4766.2	25117.3	28847.6	29860.2
65°	40.7	64.0	87.3	98.9	116.4	145.5	218.2	3814.7	22999.0	27061.0	28393.7
67.5°	37.8	58.2	75.7	84.4	101.8	133.9	195.0	2694.5	20255.0	24794.3	26191.0
70°	34.9	55.3	66.9	78.6	90.2	113.5	165.9	1571.3	15602.3	20819.5	22294.8
72.5°	34.9	52.4	58.2	66.9	78.6	101.8	154.2	849.7	10667.3	15881.6	17787.5
75°	34.9	49.5	52.4	58.2	69.8	93.1	136.8	445.2	6896.2	11033.9	13617.8
77.5°	34.9	46.6	52.4	55.3	66.9	81.5	119.3	279.3	4594.6	7728.4	9203.7
80°	37.8	46.6	49.5	55.3	64.0	75.7	98.9	186.2	2700.3	4649.8	5601.3
82.5°	40.7	46.6	52.4	58.2	66.9	72.7	87.3	116.4	1245.4	3075.6	3480.1
85°	43.6	49.5	55.3	61.1	69.8	72.7	81.5	84.4	203.7	1388.0	1876.8
87.5°	46.6	52.4	58.2	64.0	75.7	75.7	75.7	75.7	69.8	148.4	378.3
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: P458092

CATALOG NUMBER: GALN-SA9C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8	12651.8
2.5°	14275.4	14604.2	14834.1	14892.3	14726.4	14650.8	14441.3	14115.4	13917.5	13908.8
5°	15043.6	15814.7	16350.1	16440.3	16120.2	15579.0	14935.9	14106.7	13620.7	13475.2
7.5°	14912.7	16262.8	17124.1	17249.2	16710.9	15677.9	14432.5	13097.0	12567.4	12343.3
10°	14374.4	16021.3	17252.1	17450.0	16731.3	15276.4	13693.5	12203.6	11546.0	11374.4
12.5°	13914.6	15579.0	16673.1	16946.6	16402.5	14950.5	13251.2	11630.4	10926.3	10766.2
15°	13713.8	15055.2	15724.5	15864.2	15774.0	14746.8	13204.6	11543.1	10737.1	10562.5
17.5°	13914.6	14610.0	14694.4	14837.0	15037.8	14726.4	13652.7	12017.4	11147.4	10932.1
20°	14441.3	14223.0	13873.9	13935.0	14394.7	14810.8	14450.0	13067.9	12008.7	11778.8
22.5°	15337.5	14127.0	13335.6	13283.2	13865.1	15093.1	15619.7	14490.7	13262.8	13035.8
25°	16437.4	14368.5	13137.7	13024.2	13658.5	15506.3	16891.3	16233.7	14892.3	14546.0
27.5°	17636.2	14869.0	13137.7	13027.1	13641.1	15872.9	17979.6	17775.9	16580.0	16201.7
30°	18293.8	15282.2	13326.8	13201.7	13856.4	16085.3	18561.5	19146.4	17848.6	17380.2
32.5°	18881.6	15855.4	13696.4	13460.7	14307.4	16399.6	19082.4	20310.3	18858.3	18544.1
35°	19422.8	16469.4	14205.6	13932.1	14901.0	16830.2	19658.5	21532.4	20263.8	19789.5
37.5°	20019.3	17182.3	15000.0	14767.2	15893.3	17668.2	20342.3	23138.6	21645.9	21049.4
40°	20668.2	18008.7	16306.4	16207.5	17470.4	18616.8	21206.5	24852.5	23223.0	22545.0
42.5°	21328.7	18960.2	17906.8	18069.8	19257.0	19946.6	22094.0	26170.6	24515.0	23767.1
45°	21928.2	20176.5	19987.3	20793.3	21340.4	21244.4	22751.6	27098.9	25641.0	24925.2
47.5°	22684.7	21948.5	22504.3	23746.8	23761.3	22655.6	23249.2	27858.3	26610.0	25894.2
50°	23531.5	24040.7	25754.5	27020.3	26679.8	24043.6	23831.2	28757.4	27611.0	27037.7
52.5°	24512.1	26383.0	28757.4	30162.9	29368.5	25556.7	24800.1	29729.3	29199.7	28649.8
55°	25652.7	27980.5	31751.6	32871.9	32071.7	27436.4	26272.5	31047.4	30995.1	30619.7
57.5°	26941.7	29668.2	33485.8	35001.8	34288.9	29642.0	28329.7	32289.9	32092.0	31882.5
59°	27960.1	30535.3	34251.1	35822.4	35391.7	31187.1	29711.8	33063.9	32345.2	32030.9
60°	28577.0	31123.1	34533.4	35933.0	35834.0	32106.6	30587.7	33442.2	32342.3	31905.8
62.5°	30407.3	32150.2	34425.7	35441.2	35828.2	33869.9	33157.0	33858.3	31742.9	31102.7
65°	31059.1	31809.8	32642.0	32516.9	32848.6	33779.7	34798.2	33401.5	30462.6	29551.8
67.5°	29790.4	28076.5	28370.4	27535.3	27372.4	30031.9	34131.8	31166.7	27957.2	26842.8
70°	25111.5	21509.2	21360.8	21744.8	20691.5	24314.2	30648.8	26863.2	23822.4	22559.6
72.5°	19766.2	15200.7	13949.5	15363.7	15331.7	18549.9	25460.6	19062.0	16094.0	15986.4
75°	15544.1	10582.9	9288.0	9517.9	9960.2	13428.7	20278.3	12104.7	9910.7	9032.0
77.5°	10434.5	7498.5	6995.1	6712.9	7190.1	8621.7	12829.3	6564.5	5557.7	5263.8
80°	6014.5	5447.1	6186.2	5615.9	5872.0	5432.6	6381.2	3011.6	2499.5	2706.1
82.5°	3913.7	3101.8	3305.5	2455.9	3357.9	3387.0	2048.5	890.4	753.6	800.2
85°	2447.1	1454.9	817.7	582.0	1158.1	2130.0	640.2	55.3	64.0	55.3
87.5°	634.3	241.5	101.8	151.3	186.2	165.9	148.4	8.7	2.9	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)