

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: P456932

Luminaire Tested: **GALN-SA8B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456932
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-SA8B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 27596 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

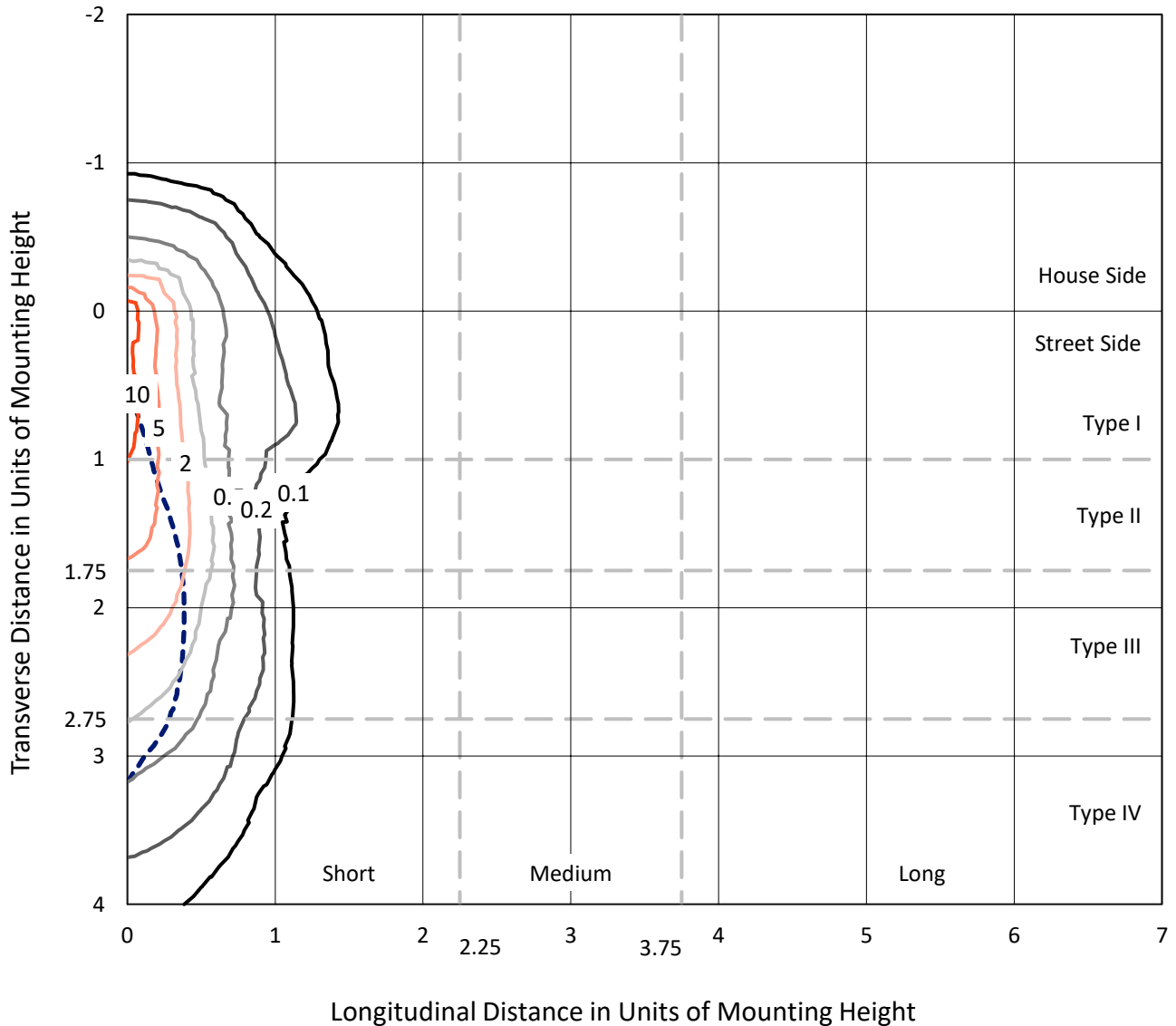
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

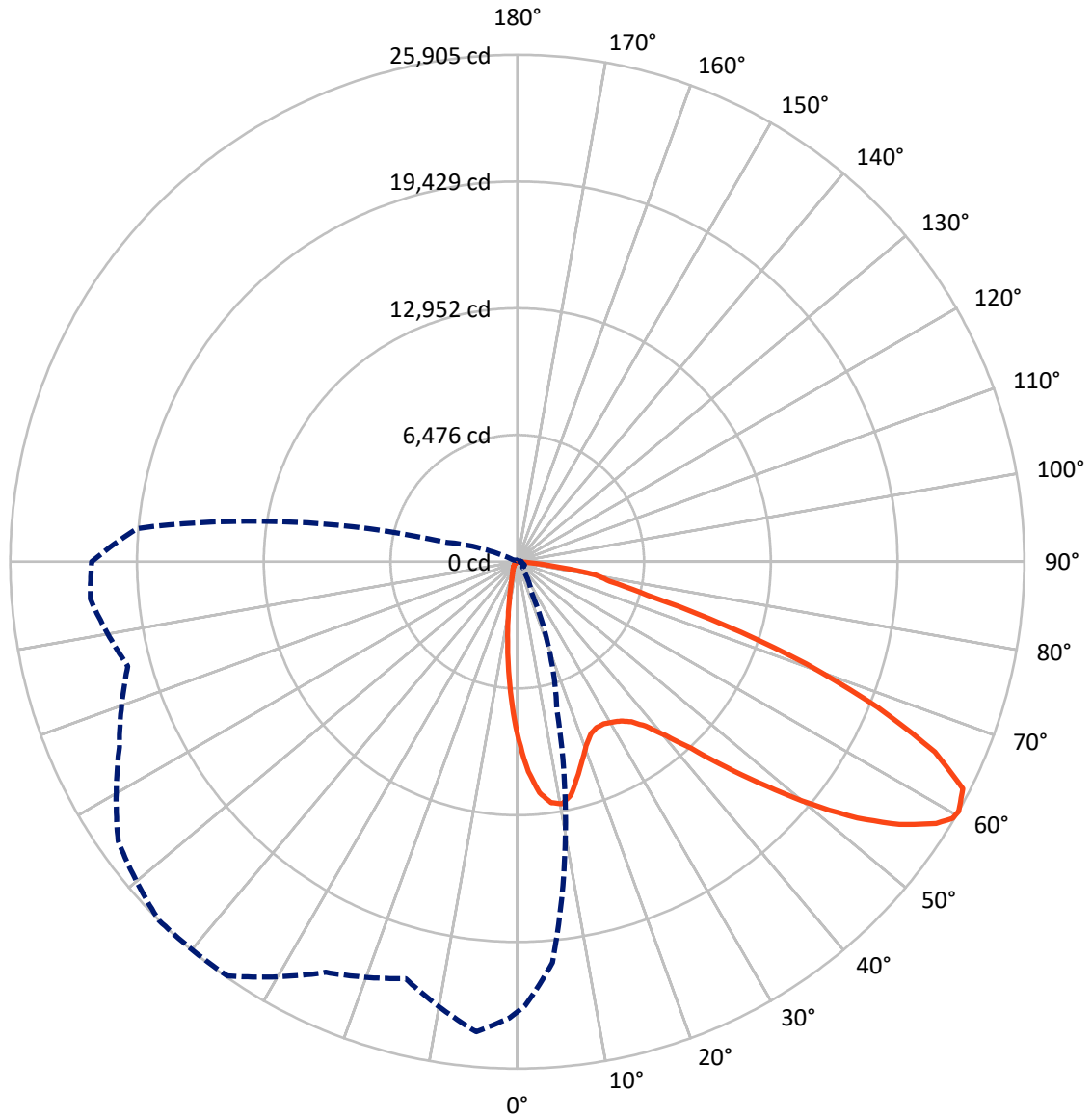
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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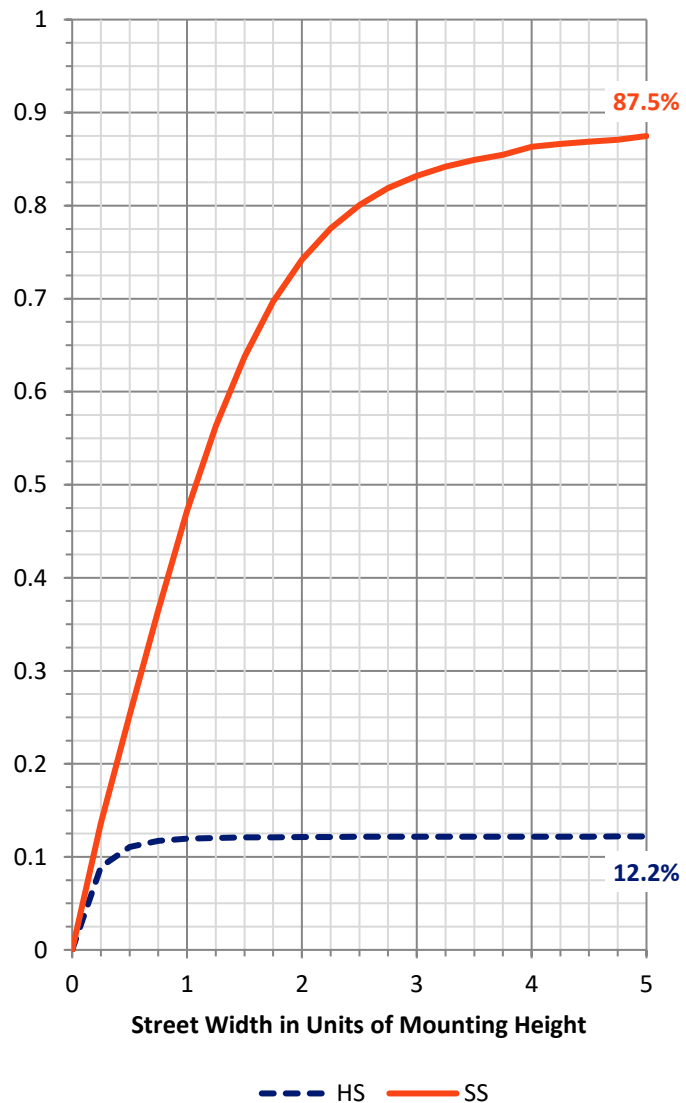
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3403.7	0.0	3403.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24192.3	0.0	24192.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	27596.0	0.0	27596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.4	2.5
10°-20°	1347.3	4.9
20°-30°	1975.5	7.2
30°-40°	2937.9	10.6
40°-50°	4275.5	15.5
50°-60°	6165.6	22.3
60°-70°	6781.5	24.6
70°-80°	3037.6	11.0
80°-90°	396.9	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°	27596.0	100.0
0°-180°	27596.0	100.0



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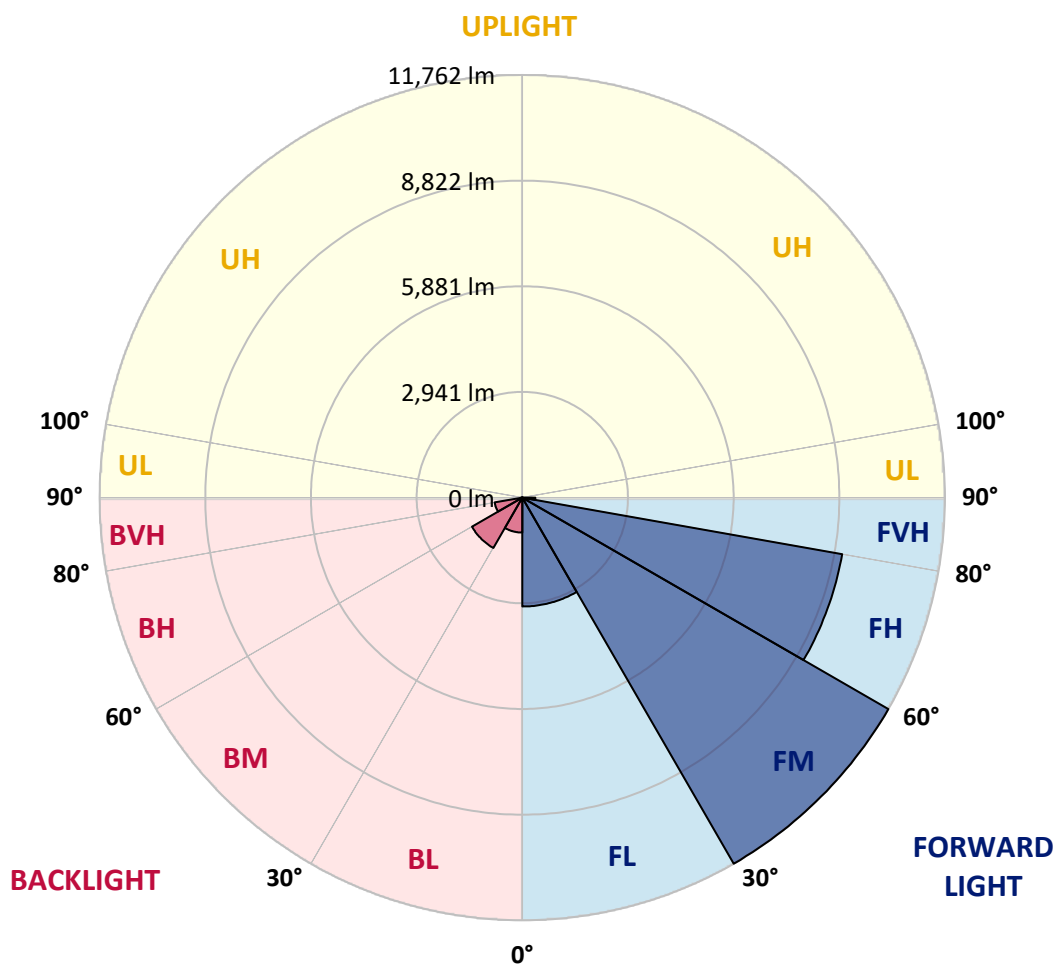
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3028.6	11.0			
FM	(30°-60°)	11762.3	42.6			
FH	(60°-80°)	9038.5	32.8			G4/12000
FVH	(80°-90°)	363.0	1.3			G3/500
BL	(0°-30°)	972.5	3.5	B2/1000		
BM	(30°-60°)	1616.7	5.9	B2/2500		
BH	(60°-80°)	780.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	33.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9
2.5°	10027.1	9983.0	9882.3	9576.1	9309.7	8961.4	8609.0	8332.1	8162.2	7849.7	7707.0
5°	9714.5	9735.5	9443.9	8814.6	8114.0	7635.7	7113.4	6698.0	6240.7	5951.2	5647.1
7.5°	8898.5	8856.6	8539.8	7663.0	6811.3	6119.0	5458.3	4921.2	4583.5	4312.9	4086.4
10°	8200.0	8168.5	7763.6	6635.1	5720.5	5202.3	4755.5	4285.6	3922.7	3526.3	3209.5
12.5°	7761.6	7690.2	7224.5	6045.6	5300.9	4818.5	4331.8	3843.0	3341.7	2941.0	2557.1
15°	7614.7	7511.9	6993.8	5842.1	5032.4	4419.9	3809.5	3247.3	2670.4	2227.8	1938.3
17.5°	7881.1	7711.2	7159.5	5806.5	4711.5	3899.7	3148.7	2416.6	1816.6	1478.9	1300.6
20°	8491.6	8296.5	7579.1	5770.8	4354.9	3316.5	2393.5	1707.5	1256.5	1071.9	973.3
22.5°	9397.8	9129.3	8200.0	5827.5	4025.5	2748.0	1728.5	1206.2	998.5	883.1	813.9
25°	10486.5	10262.0	8986.6	6028.8	3765.4	2301.2	1336.2	985.9	841.2	769.9	717.4
27.5°	11680.1	11321.4	10004.0	6270.1	3528.4	1955.1	1172.6	881.0	748.9	683.9	656.6
30°	12529.7	12250.7	10855.7	6437.9	3232.6	1695.0	1071.9	868.5	751.0	673.4	623.0
32.5°	13368.7	13012.1	11568.9	6515.5	3016.5	1514.6	927.2	757.3	658.7	618.8	568.5
35°	14266.6	13893.2	12280.0	6473.6	2855.0	1395.0	841.2	675.5	564.3	497.2	446.8
37.5°	15174.9	14780.5	12987.0	6322.5	2754.3	1346.7	774.1	641.9	532.8	463.6	409.1
40°	16253.1	15726.6	13649.8	6198.8	2649.4	1321.6	730.0	620.9	509.7	436.3	381.8
42.5°	17134.2	16632.8	14277.1	6133.7	2578.1	1262.8	730.0	604.1	495.1	413.3	356.6
45°	17969.0	17448.8	14954.6	6186.2	2548.7	1189.4	738.4	602.0	484.6	396.5	339.8
47.5°	18667.6	18216.6	15651.1	6383.4	2511.0	1109.7	694.3	631.4	478.3	381.8	323.0
50°	19492.0	19055.7	16572.0	6781.9	2443.8	1030.0	639.8	679.7	476.2	369.2	308.4
52.5°	20654.1	20182.1	17843.2	7235.0	2336.9	908.3	589.5	673.4	467.8	348.2	293.7
55°	22074.3	21692.5	19315.8	7778.3	2190.0	772.0	509.7	597.8	442.6	312.6	268.5
57.5°	22984.7	22659.5	20419.2	8013.3	1965.6	631.4	448.9	501.4	404.9	279.0	239.1
59°	23091.7	22798.0	20649.9	7935.7	1818.7	576.9	419.5	430.0	394.4	260.1	222.4
60°	23001.5	22697.3	20557.6	7784.6	1682.4	539.1	394.4	381.8	396.5	249.6	209.8
62.5°	22422.5	21902.3	19661.9	7019.0	1470.5	495.1	350.3	312.6	350.3	224.5	186.7
65°	21304.4	20524.1	17889.3	5940.7	1386.6	469.9	297.9	262.2	266.4	197.2	161.5
67.5°	19351.4	18367.6	15529.4	4826.8	1350.9	472.0	251.7	234.9	205.6	167.8	142.6
70°	16263.6	15281.9	12460.4	3971.0	1334.1	472.0	214.0	201.4	172.0	140.5	123.8
72.5°	11524.9	10467.6	8405.6	3119.3	1202.0	469.9	182.5	182.5	140.5	117.5	100.7
75°	6511.3	6519.7	5284.1	2206.8	998.5	388.1	146.8	144.7	102.8	90.2	75.5
77.5°	3794.8	3727.6	3561.9	948.2	463.6	176.2	102.8	88.1	71.3	65.0	54.5
80°	1950.9	1604.8	1562.8	344.0	165.7	111.2	71.3	50.3	46.1	42.0	37.8
82.5°	576.9	579.0	516.0	138.4	92.3	73.4	35.7	27.3	25.2	23.1	23.1
85°	39.9	25.2	29.4	42.0	56.6	29.4	2.1	6.3	6.3	8.4	10.5
87.5°	4.2	2.1	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°	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9
2.5°	7549.7	7642.0	7470.0	7474.2	7331.5	7377.7	7209.9	7264.4	7165.8	7241.3	7463.7
5°	5680.6	5701.6	5563.1	5519.1	5540.1	5626.1	5659.6	5506.5	5571.5	5443.6	5435.2
7.5°	4002.4	4027.6	3947.9	3937.4	4088.4	4052.8	4117.8	3960.5	3811.6	3876.6	3757.0
10°	3108.8	3003.9	2840.3	2794.2	2764.8	2783.7	2783.7	2641.0	2620.0	2563.4	2649.4
12.5°	2454.3	2326.4	2171.1	1961.4	1908.9	1904.7	1827.1	1701.2	1661.4	1613.1	1684.5
15°	1783.1	1730.6	1600.6	1483.1	1363.5	1340.4	1214.6	1111.8	975.4	956.6	950.3
17.5°	1254.4	1176.8	1174.7	1107.6	1038.4	992.2	874.7	757.3	704.8	698.5	698.5
20°	939.8	912.5	868.5	860.1	839.1	786.6	681.8	618.8	593.7	595.8	604.1
22.5°	790.8	772.0	732.1	713.2	704.8	658.7	581.1	539.1	526.5	526.5	528.6
25°	706.9	690.1	646.1	616.7	606.2	572.7	511.8	480.4	469.9	469.9	469.9
27.5°	644.0	623.0	576.9	551.7	532.8	495.1	457.3	425.8	415.3	415.3	417.4
30°	599.9	576.9	534.9	501.4	472.0	438.4	407.0	379.7	367.1	365.0	367.1
32.5°	541.2	520.2	478.3	457.3	423.7	383.9	358.7	333.5	321.0	323.0	321.0
35°	421.6	415.3	386.0	392.3	373.4	339.8	316.8	289.5	274.8	272.7	276.9
37.5°	383.9	358.7	325.1	327.2	321.0	308.4	270.6	241.2	230.7	230.7	232.8
40°	354.5	329.3	291.6	272.7	274.8	274.8	234.9	203.5	193.0	190.9	195.1
42.5°	329.3	304.2	262.2	230.7	222.4	232.8	199.3	167.8	157.3	153.1	157.3
45°	312.6	285.3	237.0	201.4	176.2	188.8	163.6	138.4	125.9	125.9	123.8
47.5°	295.8	270.6	218.2	174.1	146.8	140.5	134.3	111.2	98.6	96.5	98.6
50°	281.1	255.9	197.2	151.0	123.8	109.1	109.1	88.1	79.7	75.5	77.6
52.5°	266.4	239.1	178.3	134.3	107.0	88.1	77.6	71.3	65.0	62.9	65.0
55°	245.4	218.2	159.4	115.4	92.3	73.4	60.8	58.7	54.5	50.3	54.5
57.5°	220.3	195.1	140.5	98.6	73.4	56.6	50.3	48.2	44.1	42.0	42.0
59°	205.6	182.5	130.1	86.0	65.0	50.3	46.1	44.1	39.9	35.7	37.8
60°	197.2	178.3	123.8	79.7	58.7	46.1	42.0	39.9	35.7	33.6	35.7
62.5°	174.1	159.4	109.1	65.0	46.1	33.6	29.4	31.5	29.4	27.3	29.4
65°	153.1	140.5	92.3	50.3	35.7	23.1	21.0	27.3	25.2	23.1	25.2
67.5°	136.4	121.7	77.6	37.8	25.2	12.6	14.7	23.1	23.1	21.0	23.1
70°	117.5	104.9	62.9	27.3	12.6	6.3	10.5	16.8	21.0	18.9	21.0
72.5°	96.5	81.8	48.2	18.9	6.3	0.0	6.3	14.7	21.0	18.9	21.0
75°	75.5	60.8	35.7	10.5	0.0	0.0	2.1	12.6	21.0	18.9	21.0
77.5°	54.5	44.1	21.0	2.1	0.0	0.0	2.1	12.6	21.0	18.9	21.0
80°	35.7	31.5	8.4	0.0	0.0	0.0	2.1	12.6	21.0	21.0	23.1
82.5°	23.1	16.8	0.0	0.0	0.0	0.0	4.2	16.8	23.1	25.2	25.2
85°	10.5	0.0	0.0	0.0	0.0	0.0	8.4	21.0	27.3	27.3	27.3
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.7	25.2	31.5	31.5	31.5
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°	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9
2.5°	7501.4	7633.6	7820.3	8107.7	8340.5	8707.6	8988.7	9372.6	9760.7	9878.1	10060.6
5°	5521.2	5691.1	6114.8	6500.8	6744.2	7520.3	8011.2	8785.2	9479.6	9813.1	10176.0
7.5°	3834.6	4036.0	4359.1	4898.2	5410.0	6041.4	6834.4	7719.6	8737.0	9213.2	9725.0
10°	2691.4	2943.1	3398.3	3840.9	4484.9	5084.9	5867.3	6844.8	7967.1	8529.3	9171.2
12.5°	1699.2	1923.6	2525.7	3022.8	3826.2	4522.7	5244.3	6129.5	7430.1	8007.0	8680.4
15°	971.2	1160.0	1441.1	2078.8	2970.4	3891.3	4791.2	5819.1	7155.3	7866.4	8594.3
17.5°	723.7	774.1	899.9	1260.7	2072.5	3148.7	4373.7	5724.7	7342.0	8176.9	9007.6
20°	608.3	641.9	700.6	843.3	1321.6	2425.0	3966.8	5741.5	7946.2	8995.0	9783.8
22.5°	545.4	566.4	614.6	706.9	902.0	1766.3	3490.6	5840.0	8678.3	9999.8	10910.2
25°	478.3	505.5	547.5	627.2	751.0	1225.1	3020.7	6060.3	9704.0	11275.2	12131.1
27.5°	425.8	451.0	493.0	566.4	658.7	935.6	2473.2	6249.1	10786.5	12559.0	13259.7
30°	373.4	398.6	440.5	499.3	583.2	757.3	1883.7	6360.3	11837.4	13521.9	14061.0
32.5°	329.3	350.3	390.2	442.6	511.8	641.9	1485.2	6244.9	12640.8	14396.6	14757.4
35°	285.3	310.5	344.0	392.3	453.1	547.5	1235.6	5846.3	13331.0	15296.6	15426.6
37.5°	239.1	268.5	304.2	348.2	396.5	503.5	992.2	5405.8	14069.4	16418.8	16204.9
40°	201.4	228.7	262.2	310.5	354.5	461.5	763.6	4935.9	14866.5	17471.9	17054.4
42.5°	163.6	193.0	232.8	276.9	350.3	402.8	591.6	4449.3	15581.8	18388.6	17822.2
45°	130.1	155.2	197.2	253.8	348.2	346.1	457.3	3968.9	16121.0	19043.1	18394.9
47.5°	102.8	123.8	165.7	247.5	321.0	293.7	367.1	3671.0	16687.3	19632.5	18833.3
50°	81.8	102.8	142.6	258.0	281.1	251.7	308.4	3719.3	17234.8	19932.5	19013.7
52.5°	69.2	90.2	123.8	203.5	216.1	220.3	270.6	3941.6	17941.8	20253.5	19372.4
55°	60.8	79.7	104.9	142.6	167.8	197.2	247.5	4103.1	18887.8	20941.5	20163.3
57.5°	48.2	69.2	94.4	121.7	138.4	172.0	228.7	4115.7	19743.7	21824.6	21214.2
59°	44.1	62.9	88.1	115.4	123.8	155.2	216.1	4008.7	19775.2	21956.8	21696.7
60°	39.9	60.8	83.9	107.0	117.5	146.8	205.6	3885.0	19489.9	21747.0	21896.0
62.5°	33.6	52.4	73.4	86.0	100.7	121.7	178.3	3436.1	18107.5	20796.8	21526.8
65°	29.4	46.1	62.9	71.3	83.9	104.9	157.3	2750.1	16580.4	19508.8	20469.5
67.5°	27.3	42.0	54.5	60.8	73.4	96.5	140.5	1942.5	14602.2	17874.6	18881.5
70°	25.2	39.9	48.2	56.6	65.0	81.8	119.6	1132.8	11248.0	15009.2	16072.7
72.5°	25.2	37.8	42.0	48.2	56.6	73.4	111.2	612.5	7690.2	11449.3	12823.3
75°	25.2	35.7	37.8	42.0	50.3	67.1	98.6	321.0	4971.6	7954.5	9817.3
77.5°	25.2	33.6	37.8	39.9	48.2	58.7	86.0	201.4	3312.3	5571.5	6635.1
80°	27.3	33.6	35.7	39.9	46.1	54.5	71.3	134.3	1946.7	3352.2	4038.1
82.5°	29.4	33.6	37.8	42.0	48.2	52.4	62.9	83.9	897.8	2217.3	2508.9
85°	31.5	35.7	39.9	44.1	50.3	52.4	58.7	60.8	146.8	1000.6	1353.0
87.5°	33.6	37.8	42.0	46.1	54.5	54.5	54.5	54.5	50.3	107.0	272.7
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: P456932

CATALOG NUMBER: GALN-SA8B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9	9120.9
2.5°	10291.4	10528.4	10694.2	10736.1	10616.5	10562.0	10411.0	10176.0	10033.4	10027.1
5°	10845.2	11401.1	11787.1	11852.1	11621.4	11231.2	10767.6	10169.7	9819.4	9714.5
7.5°	10750.8	11724.1	12345.1	12435.3	12047.2	11302.5	10404.7	9441.8	9060.0	8898.5
10°	10362.7	11550.0	12437.4	12580.0	12061.9	11013.0	9871.9	8797.8	8323.7	8200.0
12.5°	10031.3	11231.2	12019.9	12217.1	11824.8	10778.1	9553.0	8384.6	7876.9	7761.6
15°	9886.5	10853.6	11336.1	11436.8	11371.7	10631.2	9519.4	8321.6	7740.6	7614.7
17.5°	10031.3	10532.6	10593.5	10696.3	10841.0	10616.5	9842.5	8663.6	8036.4	7881.1
20°	10411.0	10253.6	10001.9	10046.0	10377.4	10677.4	10417.3	9420.8	8657.3	8491.6
22.5°	11057.1	10184.4	9613.8	9576.1	9995.6	10880.9	11260.5	10446.6	9561.4	9397.8
25°	11850.0	10358.5	9471.2	9389.4	9846.7	11178.7	12177.2	11703.2	10736.1	10486.5
27.5°	12714.3	10719.3	9471.2	9391.5	9834.1	11443.0	12961.8	12815.0	11952.8	11680.1
30°	13188.3	11017.2	9607.5	9517.3	9989.3	11596.2	13381.3	13803.0	12867.4	12529.7
32.5°	13612.1	11430.5	9874.0	9704.0	10314.5	11822.7	13756.8	14642.1	13595.3	13368.7
35°	14002.3	11873.1	10241.1	10043.9	10742.4	12133.2	14172.2	15523.1	14608.5	14266.6
37.5°	14432.3	12387.0	10813.7	10645.9	11457.7	12737.3	14665.1	16681.0	15604.9	15174.9
40°	14900.1	12982.8	11755.6	11684.3	12594.7	13421.2	15288.2	17916.6	16741.9	16253.1
42.5°	15376.3	13668.7	12909.3	13026.8	13882.7	14379.8	15928.0	18866.9	17673.3	17134.2
45°	15808.4	14545.6	14409.2	14990.3	15384.7	15315.4	16402.0	19536.0	18485.1	17969.0
47.5°	16353.8	15823.1	16223.7	17119.5	17130.0	16332.8	16760.8	20083.5	19183.6	18667.6
50°	16964.2	17331.3	18566.9	19479.4	19234.0	17333.4	17180.3	20731.7	19905.2	19492.0
52.5°	17671.2	19020.0	20731.7	21744.9	21172.3	18424.2	17878.8	21432.4	21050.6	20654.1
55°	18493.5	20171.6	22890.3	23697.9	23121.0	19779.4	18940.3	22382.6	22344.9	22074.3
57.5°	19422.8	21388.3	24140.5	25233.4	24719.5	21369.4	20423.4	23278.4	23135.7	22984.7
59°	20157.0	22013.4	24692.2	25825.0	25514.5	22483.3	21419.8	23836.4	23318.2	23091.7
60°	20601.7	22437.2	24895.7	25904.7	25833.4	23146.2	22051.2	24109.1	23316.1	23001.5
62.5°	21921.1	23177.7	24818.1	25550.2	25829.2	24417.4	23903.5	24409.0	22884.0	22422.5
65°	22391.0	22932.2	23532.2	23442.0	23681.1	24352.4	25086.6	24079.7	21961.0	21304.4
67.5°	21476.4	20240.9	20452.7	19850.7	19733.2	21650.5	24606.2	22468.6	20154.9	19351.4
70°	18103.3	15506.3	15399.3	15676.2	14916.9	17528.5	22095.3	19366.1	17174.0	16263.6
72.5°	14249.8	10958.5	10056.5	11075.9	11052.9	13372.9	18355.0	13742.1	11602.5	11524.9
75°	11206.0	7629.4	6695.9	6861.6	7180.5	9681.0	14619.0	8726.5	7144.8	6511.3
77.5°	7522.4	5405.8	5042.9	4839.4	5183.5	6215.5	9248.8	4732.4	4006.6	3794.8
80°	4336.0	3926.9	4459.7	4048.6	4233.2	3916.4	4600.3	2171.1	1801.9	1950.9
82.5°	2821.4	2236.2	2383.0	1770.5	2420.8	2441.7	1476.8	641.9	543.3	576.9
85°	1764.2	1048.9	589.5	419.5	834.9	1535.5	461.5	39.9	46.1	39.9
87.5°	457.3	174.1	73.4	109.1	134.3	119.6	107.0	6.3	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)