

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: P529563

Luminaire Tested: **GALN-SA4D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529563
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-SA4D-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 14149 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

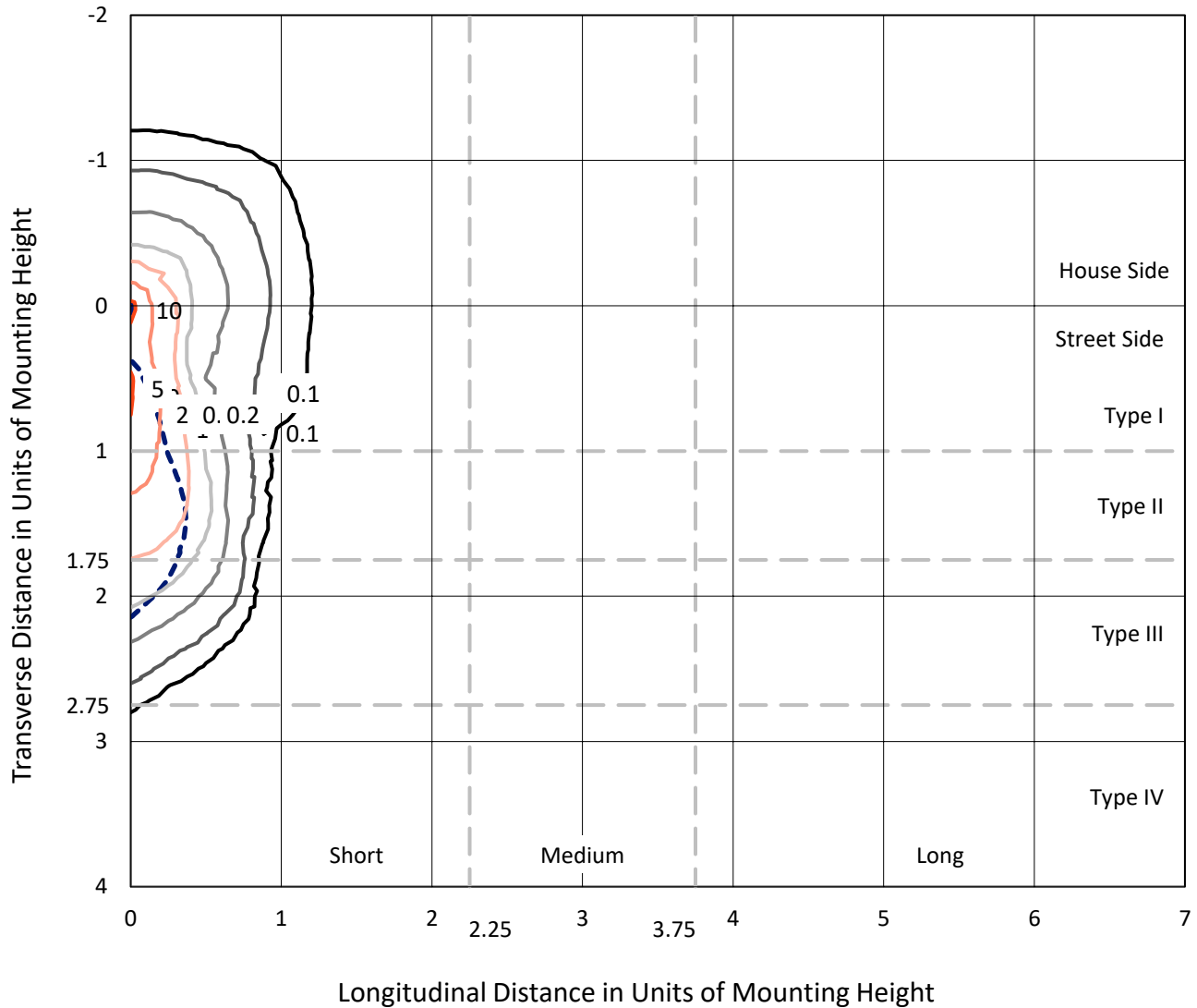
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

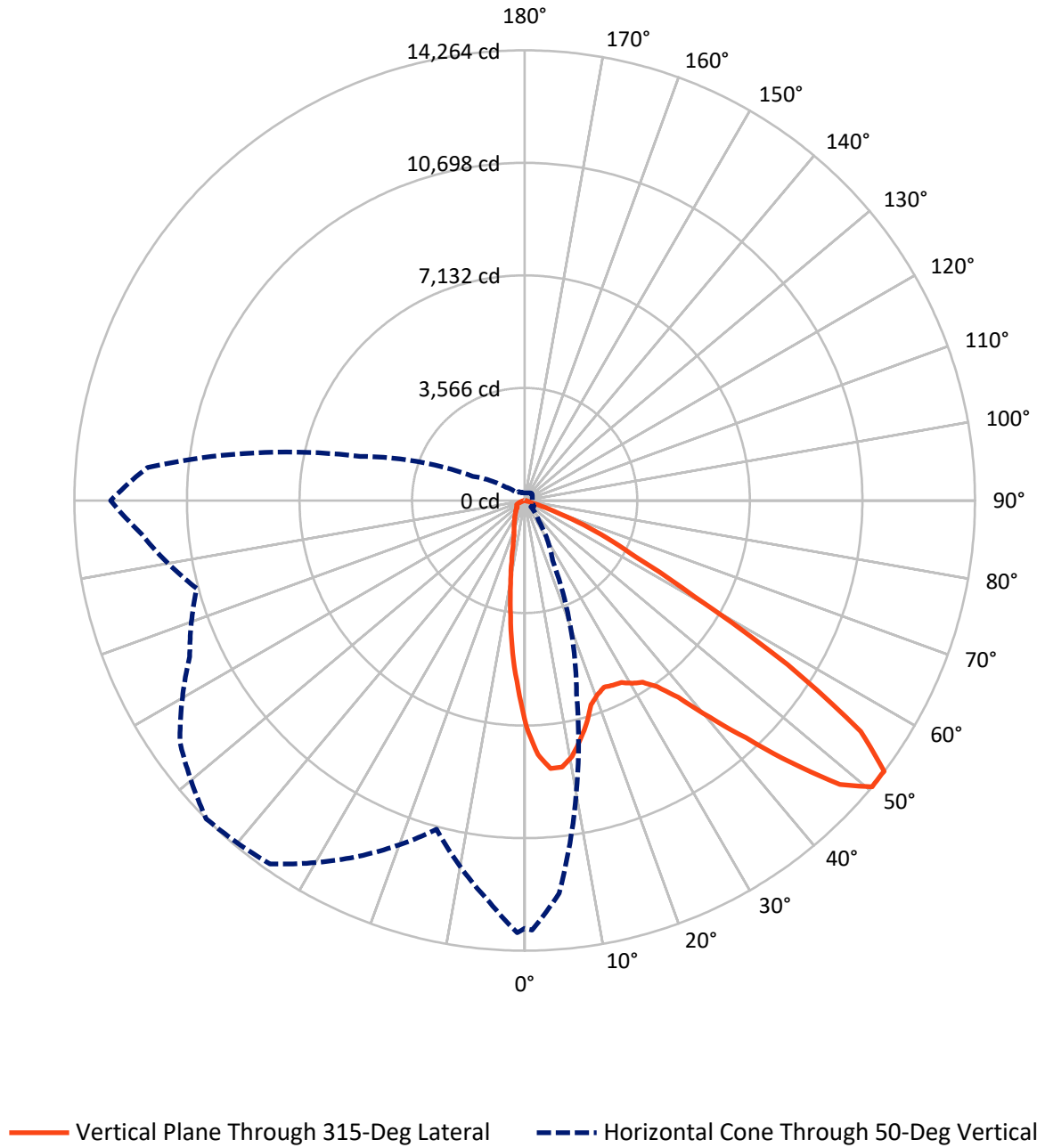
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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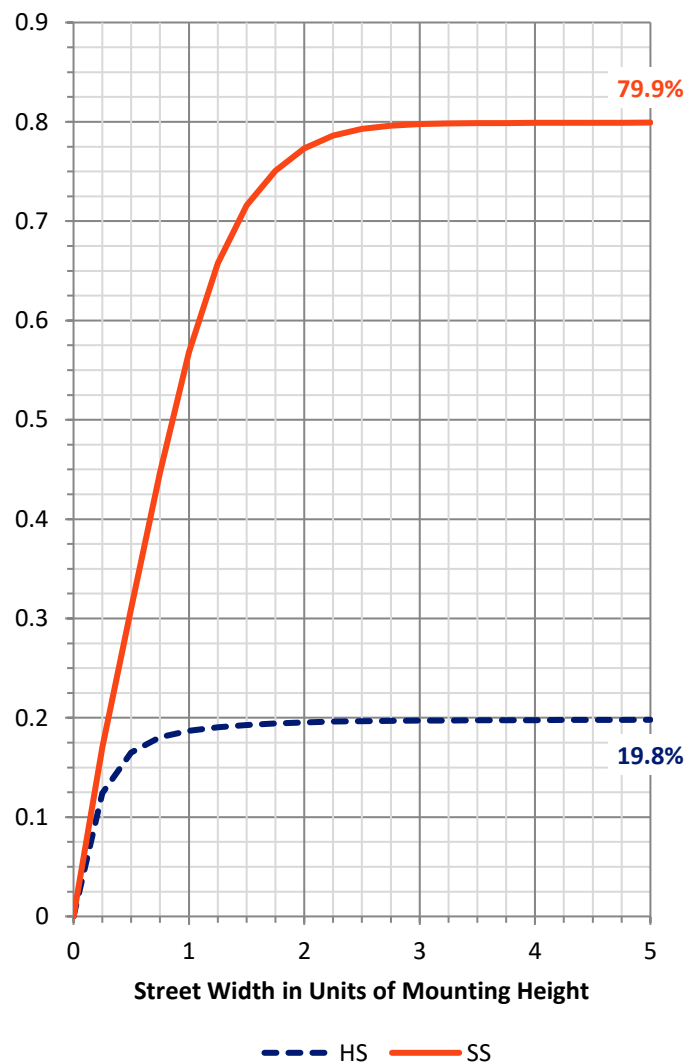
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2834.0	0.0	2834.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11314.9	0.0	11314.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	14149.0	0.0	14149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	3.7
10°-20°	1039.5	7.3
20°-30°	1561.6	11.0
30°-40°	2343.9	16.6
40°-50°	3294.1	23.3
50°-60°	3553.3	25.1
60°-70°	1649.8	11.7
70°-80°	155.2	1.1
80°-90°	28.6	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°	14149.0	100.0
0°-180°	14149.0	100.0

Coefficient of Utilization



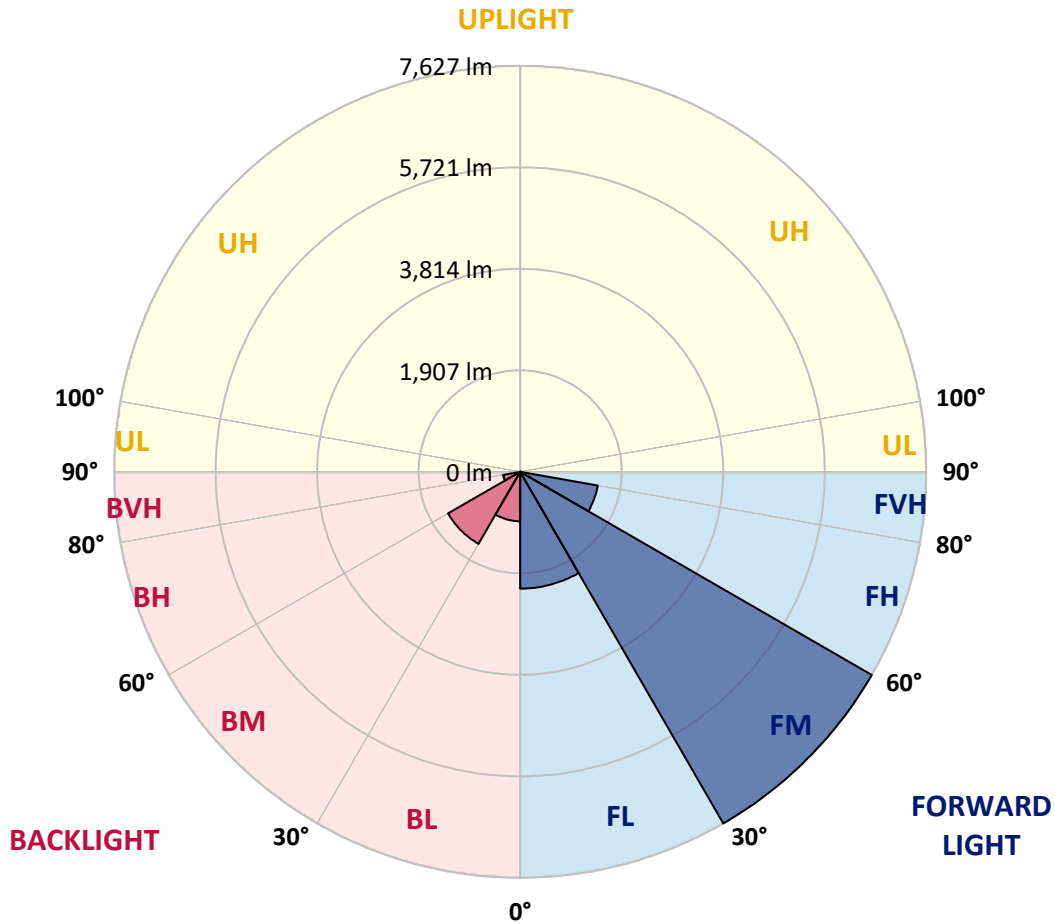
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.1	15.5			
FM (30°-60°)	7627.4	53.9			
FH (60°-80°)	1479.6	10.5			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	928.9	6.6	B2/1000		
BM (30°-60°)	1564.0	11.1	B2/2500		
BH (60°-80°)	325.4	2.3	B1/500		G1/500
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	7458.9	7343.8	7197.8	7077.1	6897.4	6535.3	6437.0	6319.1	6220.9	6088.9	5903.6
5°	6782.3	6745.8	6678.4	6223.7	5895.2	5457.3	5098.0	4946.4	4747.1	4584.2	4466.3
7.5°	6265.8	6119.8	5906.5	5448.9	4923.9	4455.1	4056.5	3823.5	3559.6	3469.8	3309.7
10°	5712.8	5746.4	5432.0	4789.2	4154.7	3775.7	3528.7	3304.1	3065.5	2908.3	2680.9
12.5°	5535.9	5426.4	5185.0	4390.5	3848.7	3495.0	3194.6	2916.7	2664.1	2411.4	2192.5
15°	5651.0	5482.6	5145.7	4306.3	3612.9	3172.2	2796.0	2419.8	2186.8	1864.0	1636.6
17.5°	6063.7	5928.9	5476.9	4396.2	3492.2	2863.4	2304.8	1917.4	1560.8	1268.9	1153.8
20°	6751.4	6560.5	5993.5	4511.2	3312.6	2490.0	1869.6	1392.4	1055.5	932.0	867.4
22.5°	7425.2	7321.3	6605.5	4733.0	3152.5	2158.8	1403.6	937.6	788.8	766.4	724.3
25°	8708.1	8396.5	7540.3	5134.5	3029.0	1847.2	1058.3	755.1	668.1	651.3	656.9
27.5°	9471.7	9210.6	8404.9	5401.1	2891.5	1608.6	895.5	693.4	634.4	597.9	583.9
30°	10204.3	9901.2	8834.4	5558.4	2596.7	1355.9	794.5	665.3	651.3	597.9	581.1
32.5°	10768.6	10471.0	9454.8	5794.2	2476.0	1193.1	654.1	519.3	482.8	477.2	527.8
35°	11633.2	11316.0	9985.4	5923.3	2383.4	1108.9	567.1	463.2	421.1	404.2	407.1
37.5°	12438.9	12222.8	10476.7	5973.8	2285.1	1083.6	508.1	415.5	379.0	367.7	364.9
40°	13112.7	12629.8	10942.7	6027.2	2243.0	1035.9	471.6	379.0	353.7	336.9	336.9
42.5°	13421.5	12930.2	11464.8	5996.3	2231.8	960.1	471.6	348.1	328.4	311.6	308.8
45°	13354.1	13154.8	11697.8	5982.2	2231.8	884.3	429.5	339.7	311.6	289.1	283.5
47.5°	13528.1	13267.1	11989.8	6041.2	2186.8	830.9	362.1	356.5	294.8	266.7	261.1
50°	13559.0	13609.5	12497.9	6347.2	2088.6	763.6	283.5	350.9	283.5	241.4	235.8
52°	13761.1	13446.7	12652.3	6510.0	1984.7	713.0	238.6	300.4	272.3	224.6	219.0
52.5°	13483.2	13688.1	12688.8	6569.0	1996.0	679.4	230.2	294.8	266.7	224.6	210.5
55°	13171.6	13368.1	12540.0	6695.3	1830.3	533.4	179.7	213.4	241.4	196.5	188.1
57.5°	11448.0	11647.3	10897.7	6131.0	1490.6	376.2	148.8	160.0	213.4	182.5	174.0
60°	10176.3	10033.1	9146.0	5114.8	1058.3	210.5	117.9	123.5	233.0	168.4	165.6
62.5°	9300.4	8994.4	7644.1	3949.8	645.7	140.4	92.6	95.4	179.7	157.2	157.2
65°	6880.6	6538.1	5078.3	2389.0	317.2	98.3	70.2	75.8	112.3	134.7	134.7
67.5°	3927.3	3795.4	2453.5	1078.0	131.9	61.8	53.3	59.0	87.0	109.5	103.9
70°	1805.1	1619.8	943.2	227.4	61.8	42.1	42.1	47.7	70.2	81.4	75.8
72.5°	527.8	499.7	230.2	36.5	25.3	25.3	28.1	36.5	53.3	61.8	56.1
75°	39.3	25.3	16.8	11.2	11.2	16.8	22.5	36.5	53.3	59.0	47.7
77.5°	2.8	5.6	2.8	2.8	8.4	16.8	25.3	44.9	70.2	73.0	53.3
80°	2.8	2.8	0.0	2.8	8.4	16.8	28.1	50.5	78.6	84.2	44.9
82.5°	0.0	0.0	0.0	2.8	11.2	22.5	33.7	53.3	73.0	89.8	47.7
85°	0.0	0.0	0.0	2.8	16.8	30.9	39.3	14.0	8.4	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°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	6035.6	5962.6	5934.5	5959.8	5951.4	5942.9	6097.3	6063.7	6058.0	6108.6	6097.3
5°	4530.9	4401.8	4755.5	4612.3	4761.1	4850.9	4867.8	4876.2	4980.1	4870.6	5013.7
7.5°	3228.3	3262.0	3259.2	3354.7	3525.9	3677.5	3767.3	3697.1	3691.5	3677.5	3615.7
10°	2579.9	2520.9	2509.7	2487.2	2540.6	2669.7	2779.2	2692.2	2630.4	2714.6	2689.3
12.5°	2108.2	2026.8	1981.9	1892.1	1894.9	1981.9	1981.9	1981.9	2043.7	2091.4	2127.9
15°	1617.0	1549.6	1549.6	1459.8	1440.1	1442.9	1487.8	1493.5	1591.7	1619.8	1633.8
17.5°	1131.3	1094.8	1136.9	1173.4	1151.0	1156.6	1173.4	1179.0	1193.1	1181.9	1209.9
20°	870.2	864.6	875.9	940.4	988.2	1016.2	996.6	968.5	951.7	912.4	912.4
22.5°	738.3	749.5	769.2	822.5	884.3	901.1	878.7	814.1	763.6	758.0	760.8
25°	656.9	668.1	699.0	732.7	766.4	794.5	772.0	724.3	696.2	670.9	670.9
27.5°	606.4	612.0	628.8	654.1	682.2	704.6	696.2	670.9	640.1	628.8	603.6
30°	567.1	575.5	595.1	600.8	626.0	637.2	623.2	617.6	597.9	583.9	575.5
32.5°	547.4	544.6	558.6	564.3	567.1	575.5	558.6	567.1	564.3	541.8	533.4
35°	412.7	435.1	471.6	502.5	510.9	522.1	519.3	508.1	477.2	452.0	421.1
37.5°	370.6	384.6	404.2	429.5	463.2	477.2	471.6	443.5	407.1	390.2	384.6
40°	342.5	350.9	367.7	384.6	418.3	443.5	423.9	398.6	370.6	356.5	348.1
42.5°	317.2	320.0	328.4	345.3	370.6	409.9	376.2	342.5	331.3	322.8	317.2
45°	289.1	289.1	300.4	308.8	336.9	373.4	339.7	308.8	303.2	297.6	294.8
47.5°	266.7	269.5	275.1	286.3	308.8	334.1	311.6	286.3	272.3	269.5	263.9
50°	238.6	241.4	252.7	263.9	292.0	306.0	292.0	263.9	249.8	241.4	241.4
52°	216.2	224.6	235.8	258.3	277.9	300.4	283.5	252.7	235.8	227.4	221.8
52.5°	213.4	219.0	230.2	255.5	277.9	297.6	280.7	249.8	230.2	224.6	219.0
55°	190.9	199.3	219.0	249.8	275.1	297.6	275.1	247.0	219.0	204.9	199.3
57.5°	182.5	188.1	213.4	252.7	272.3	297.6	275.1	247.0	219.0	193.7	188.1
60°	174.0	185.3	213.4	244.2	269.5	300.4	277.9	244.2	213.4	182.5	182.5
62.5°	165.6	174.0	210.5	238.6	258.3	289.1	266.7	238.6	204.9	174.0	171.2
65°	143.2	157.2	185.3	199.3	221.8	249.8	227.4	207.7	179.7	154.4	151.6
67.5°	109.5	115.1	137.6	154.4	168.4	193.7	182.5	157.2	137.6	117.9	117.9
70°	75.8	81.4	98.3	106.7	120.7	134.7	126.3	106.7	92.6	81.4	78.6
72.5°	53.3	56.1	61.8	67.4	73.0	78.6	75.8	61.8	53.3	50.5	47.7
75°	42.1	47.7	50.5	47.7	44.9	42.1	42.1	36.5	30.9	28.1	28.1
77.5°	42.1	44.9	42.1	36.5	30.9	28.1	25.3	22.5	16.8	14.0	16.8
80°	36.5	36.5	36.5	30.9	28.1	25.3	22.5	19.7	16.8	14.0	14.0
82.5°	39.3	39.3	36.5	30.9	30.9	25.3	25.3	22.5	19.7	14.0	14.0
85°	0.0	0.0	0.0	5.6	14.0	25.3	25.3	22.5	19.7	16.8	16.8
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	11.2	14.0	16.8	16.8	16.8
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°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	6198.4	6305.1	6507.2	6709.3	6832.8	6978.8	7242.7	7383.1	7565.5	7655.4	7832.2
5°	4994.1	5246.7	5336.6	5566.8	5813.8	6060.8	6453.9	6886.2	7245.5	7492.5	7812.6
7.5°	3643.8	3702.8	4050.9	4205.3	4609.5	5058.7	5594.8	6139.5	6594.2	6998.5	7242.7
10°	2731.5	2947.6	3166.6	3461.3	3787.0	4250.2	4763.9	5364.7	5954.2	6358.4	6667.2
12.5°	2195.3	2366.5	2658.5	2975.7	3377.1	3683.1	4199.6	4794.8	5558.4	5954.2	6361.2
15°	1661.9	1880.9	2212.1	2540.6	2964.5	3287.3	3809.4	4559.0	5541.5	6086.1	6437.0
17.5°	1232.4	1381.2	1678.7	2046.5	2478.8	2933.6	3638.2	4533.7	5729.6	6378.1	6740.2
20°	943.2	993.8	1181.9	1510.3	1979.1	2574.2	3360.3	4643.2	6285.4	7088.3	7456.1
22.5°	763.6	786.0	859.0	1086.4	1541.2	2259.8	3228.3	4719.0	6911.4	7938.9	8430.2
25°	665.3	659.7	707.4	805.7	1204.3	1965.1	3059.9	5005.3	7677.8	8938.3	9379.0
27.5°	606.4	606.4	628.8	699.0	999.4	1774.2	2953.2	5210.3	8449.8	9816.9	10055.6
30°	575.5	581.1	645.7	668.1	830.9	1546.8	2776.4	5418.0	9188.1	10378.4	10706.8
32.5°	533.4	510.9	496.9	553.0	699.0	1341.9	2599.5	5505.0	9786.1	11066.2	11346.9
35°	409.9	398.6	415.5	457.6	600.8	1167.8	2403.0	5603.3	10473.8	11863.4	11919.6
37.5°	370.6	367.7	379.0	415.5	505.3	1016.2	2262.6	5578.0	10998.8	12523.1	12371.5
40°	342.5	342.5	350.9	381.8	452.0	909.5	2116.7	5555.5	11506.9	13264.2	12820.7
42.5°	320.0	320.0	334.1	353.7	429.5	839.4	2007.2	5524.7	11933.6	13719.0	13084.6
45°	289.1	297.6	320.0	339.7	435.1	791.6	1925.8	5406.8	12079.6	13713.4	12958.3
47.5°	266.7	277.9	300.4	328.4	393.0	777.6	1869.6	5302.9	12029.1	13376.5	12562.4
50°	241.4	255.5	286.3	334.1	334.1	749.5	1810.7	5395.5	11992.6	13115.5	12183.5
52°	224.6	235.8	275.1	325.6	292.0	690.6	1774.2	5575.2	12141.3	13081.8	12015.0
52.5°	221.8	230.2	266.7	320.0	277.9	679.4	1748.9	5617.3	12189.1	12997.6	12130.1
55°	196.5	207.7	244.2	249.8	227.4	558.6	1667.5	5712.8	11953.3	12831.9	12020.6
57.5°	185.3	190.9	216.2	204.9	196.5	421.1	1434.5	5564.0	10617.0	11397.4	11184.1
60°	171.2	176.9	202.1	160.0	165.6	294.8	1078.0	4831.3	8525.6	9496.9	9881.5
62.5°	165.6	162.8	190.9	129.1	140.4	213.4	760.8	3927.3	6569.0	7818.2	8483.5
65°	146.0	143.2	137.6	109.5	120.7	165.6	454.8	2563.0	4629.2	5914.9	6279.8
67.5°	112.3	117.9	101.1	87.0	101.1	129.1	252.7	1148.2	2428.3	3548.4	3843.1
70°	78.6	84.2	81.4	75.8	89.8	106.7	146.0	393.0	1005.0	1864.0	2054.9
72.5°	47.7	59.0	61.8	64.6	78.6	92.6	103.9	126.3	266.7	659.7	819.7
75°	28.1	39.3	47.7	56.1	64.6	78.6	87.0	89.8	92.6	123.5	199.3
77.5°	19.7	28.1	42.1	53.3	64.6	78.6	92.6	98.3	92.6	87.0	92.6
80°	16.8	28.1	39.3	50.5	67.4	81.4	92.6	92.6	89.8	78.6	84.2
82.5°	16.8	28.1	42.1	53.3	64.6	78.6	89.8	92.6	84.2	78.6	81.4
85°	19.7	30.9	44.9	56.1	70.2	64.6	59.0	47.7	44.9	36.5	39.3
87.5°	19.7	28.1	28.1	30.9	33.7	33.7	33.7	30.9	25.3	22.5	22.5
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: P529563

CATALOG NUMBER: GALN-SA4D-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3	7175.3
2.5°	7840.6	8065.2	8056.8	8062.4	8028.7	7801.3	7691.9	7413.9	7492.5	7458.9
5°	8141.0	8362.8	8553.7	8531.2	8273.0	7964.2	7506.6	7074.3	6956.4	6782.3
7.5°	7840.6	8374.0	8550.9	8525.6	8143.8	7748.0	7018.1	6585.8	6380.9	6265.8
10°	7363.4	7981.0	8200.0	8244.9	7986.6	7385.9	6714.9	6021.5	5912.1	5712.8
12.5°	7091.1	7540.3	7675.0	7795.7	7705.9	7256.7	6484.7	5819.4	5667.8	5535.9
15°	6869.3	7136.0	7192.2	7329.7	7383.1	7141.6	6605.5	6038.4	5665.0	5651.0
17.5°	7074.3	6964.8	6759.9	6802.0	6970.4	7144.4	6917.1	6470.7	6108.6	6063.7
20°	7413.9	6931.1	6467.9	6571.8	6712.1	7245.5	7388.7	7074.3	6866.5	6751.4
22.5°	7804.2	6990.0	6375.3	6425.8	6692.5	7472.9	8152.2	7978.2	7590.8	7425.2
25°	8525.6	7152.9	6448.2	6481.9	6846.9	7790.1	8842.8	8972.0	8741.8	8708.1
27.5°	9230.2	7574.0	6608.3	6532.5	6925.5	8098.9	9261.1	9954.5	9550.3	9471.7
30°	9589.6	7916.4	6846.9	6717.7	7251.1	8287.0	9513.8	10594.6	10240.8	10204.3
32.5°	10139.8	8228.0	7032.2	6866.5	7433.6	8520.0	9985.4	11293.6	10951.1	10768.6
35°	10370.0	8567.7	7439.2	7245.5	7955.7	8845.6	10226.8	11916.8	11810.1	11633.2
37.5°	10813.5	8932.7	7919.2	7908.0	8587.4	9269.5	10661.9	12764.6	12744.9	12438.9
40°	10850.0	9331.3	8677.2	9030.9	9564.3	10007.8	11043.7	13000.4	13320.4	13112.7
42.5°	10906.2	10030.3	9988.2	10280.1	10737.7	10642.3	11057.8	13056.5	13545.0	13421.5
45°	10931.4	10729.3	11321.6	11860.6	12051.5	11473.2	10925.8	12949.8	13662.9	13354.1
47.5°	10729.3	11330.1	12399.6	13441.1	13497.2	11984.1	10869.7	12840.4	13733.1	13528.1
50°	10757.4	11706.2	13331.6	14263.6	14058.7	12436.1	10782.6	12773.0	13696.6	13559.0
52°	10690.0	11714.6	13463.6	14246.8	14103.6	12186.3	10633.9	12514.7	13662.9	13761.1
52.5°	10765.8	11664.1	13326.0	14258.0	14072.7	12309.8	10614.2	12657.9	13682.5	13483.2
55°	10504.7	11063.4	12520.3	12916.1	12888.1	11172.8	10010.6	12183.5	13168.8	13171.6
57.5°	9494.1	9589.6	9819.8	9811.3	9682.2	8783.9	8562.1	11203.7	11739.9	11448.0
60°	8365.6	7020.9	6400.5	6147.9	6004.7	5858.7	7574.0	10249.3	10299.8	10176.3
62.5°	7228.7	4867.8	4042.4	3972.3	4005.9	4539.3	7321.3	9870.3	9567.1	9300.4
65°	5833.5	3548.4	2936.4	2843.7	3172.2	3747.7	5926.1	7568.3	7102.3	6880.6
67.5°	3663.5	2588.3	1984.7	1810.7	2206.5	2579.9	3893.7	4755.5	4233.3	3927.3
70°	2172.8	1445.7	898.3	805.7	906.7	1375.6	2181.2	2372.1	1962.3	1805.1
72.5°	856.2	530.6	249.8	213.4	221.8	482.8	802.9	783.2	592.3	527.8
75°	230.2	160.0	87.0	70.2	59.0	89.8	129.1	84.2	30.9	39.3
77.5°	106.7	95.4	75.8	59.0	44.9	33.7	16.8	5.6	5.6	2.8
80°	92.6	81.4	70.2	59.0	44.9	28.1	14.0	2.8	2.8	2.8
82.5°	87.0	75.8	64.6	53.3	42.1	28.1	14.0	2.8	0.0	0.0
85°	36.5	47.7	53.3	50.5	44.9	28.1	14.0	2.8	0.0	0.0
87.5°	19.7	16.8	14.0	11.2	8.4	5.6	5.6	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)