

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: P454670

Luminaire Tested: **GALN-SA5D-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454670
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-SA5D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 27822 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

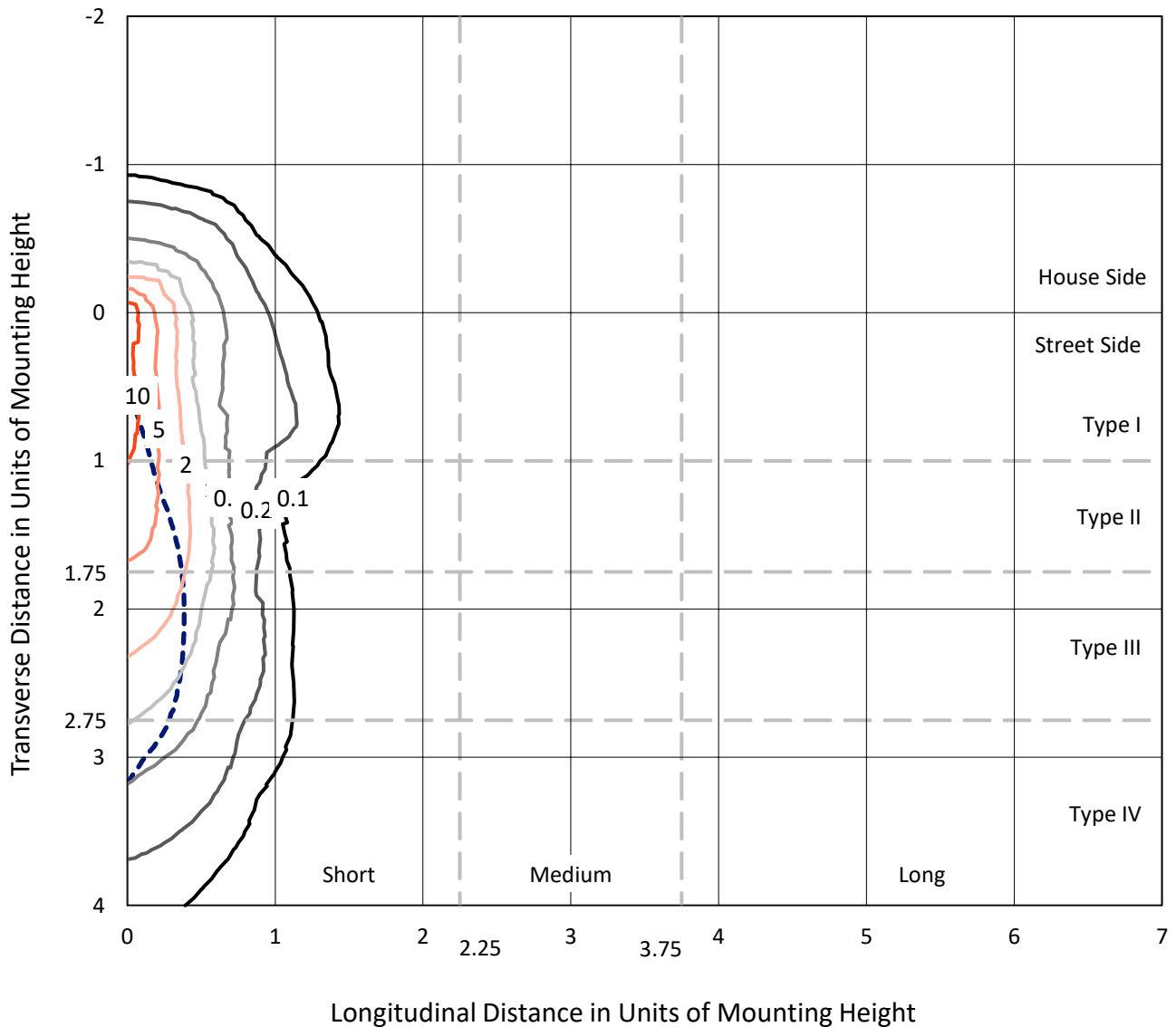
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

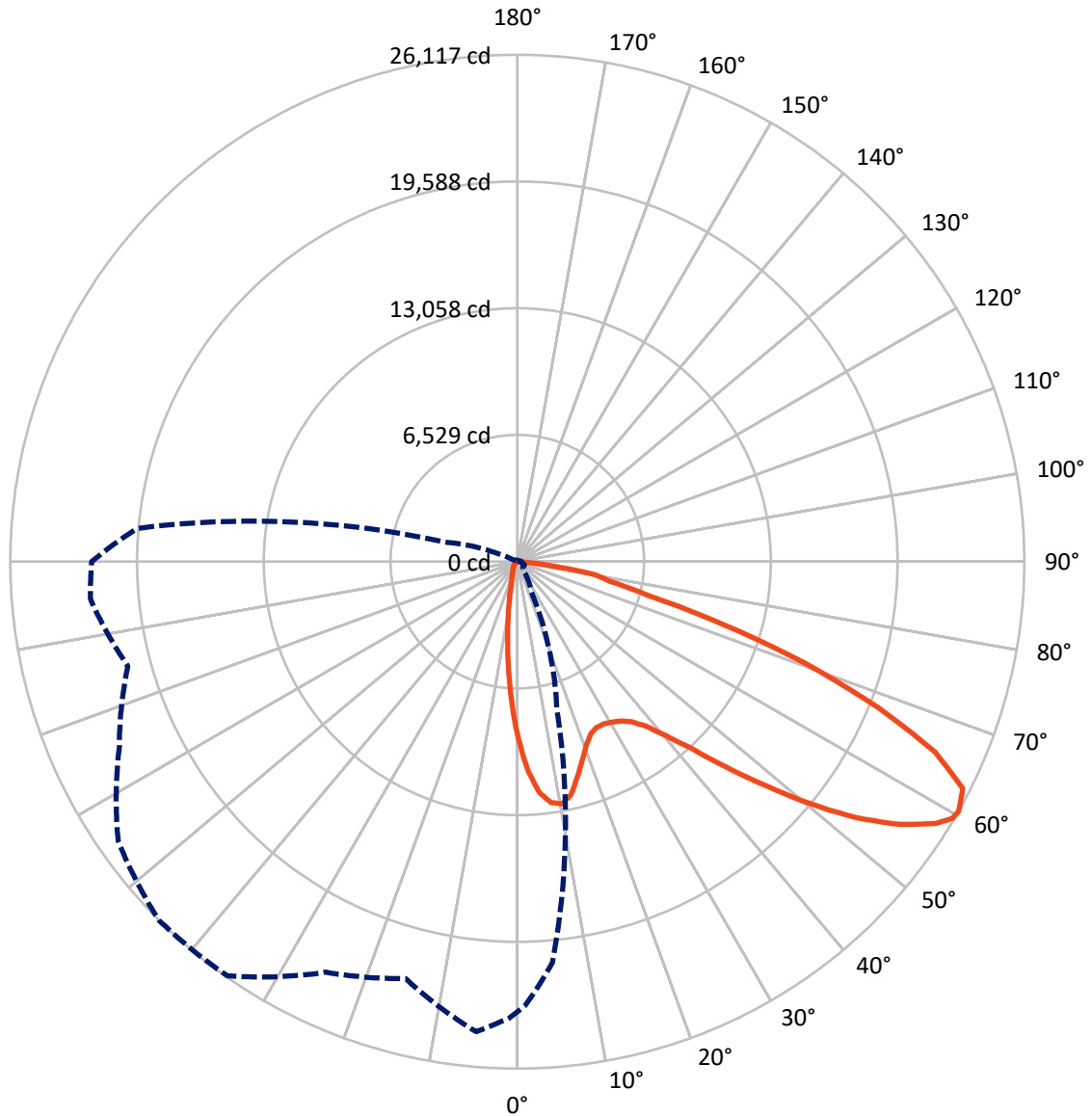
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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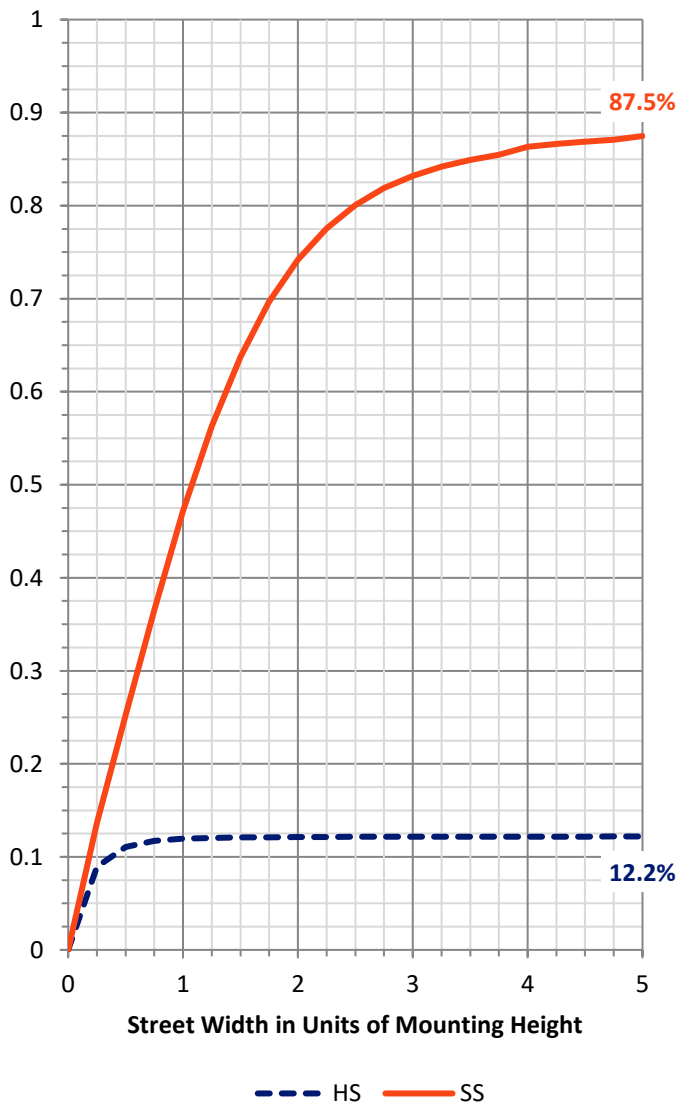
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.6	0.0	3431.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24390.4	0.0	24390.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	27822.0	0.0	27822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.9	2.5
10°-20°	1358.3	4.9
20°-30°	1991.6	7.2
30°-40°	2961.9	10.6
40°-50°	4310.5	15.5
50°-60°	6216.1	22.3
60°-70°	6837.0	24.6
70°-80°	3062.4	11.0
80°-90°	400.2	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°	27822.0	100.0
0°-180°	27822.0	100.0

Coefficient of Utilization



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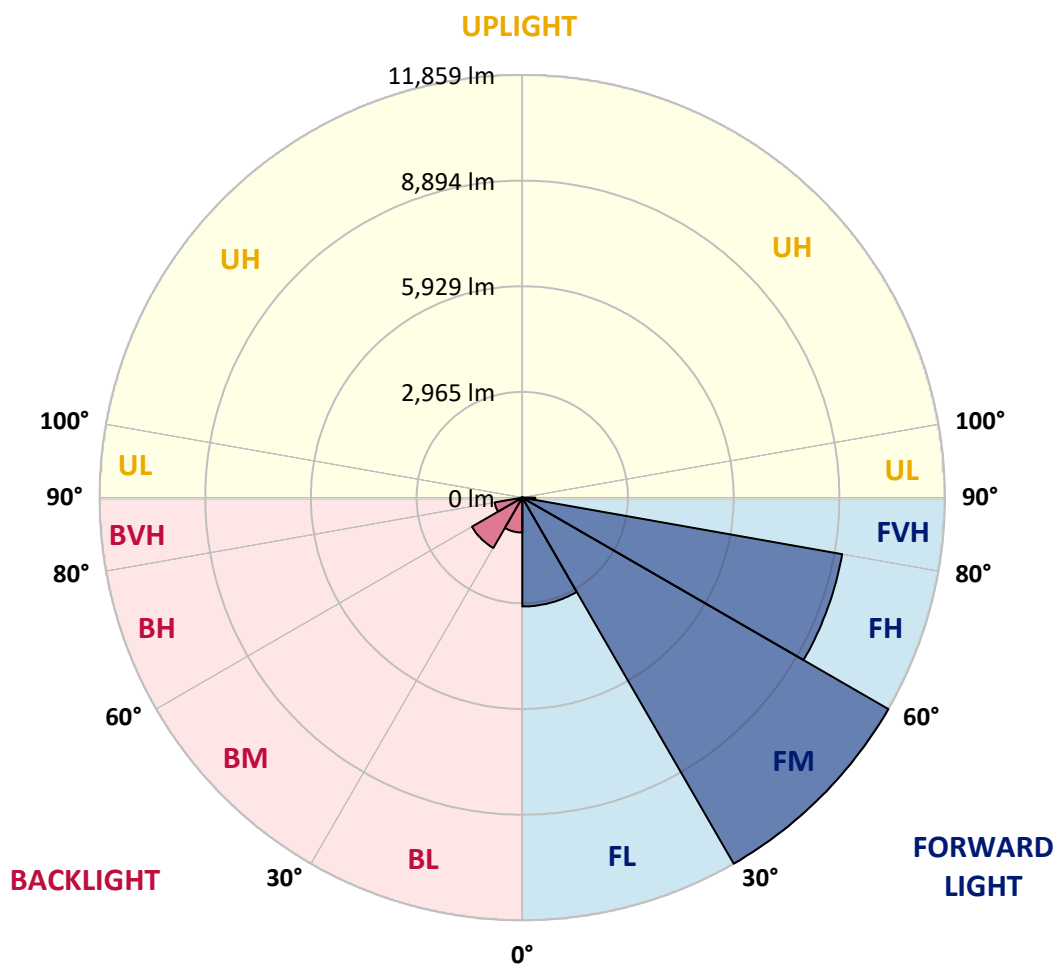
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3053.4	11.0			
FM	(30°-60°)	11858.6	42.6			
FH	(60°-80°)	9112.5	32.8			G4/12000
FVH	(80°-90°)	365.9	1.3			G3/500
BL	(0°-30°)	980.5	3.5	B2/1000		
BM	(30°-60°)	1629.9	5.9	B2/2500		
BH	(60°-80°)	786.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	34.2	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°	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6
2.5°	10109.2	10064.8	9963.3	9654.5	9385.9	9034.8	8679.5	8400.4	8229.1	7913.9	7770.1
5°	9794.1	9815.2	9521.3	8886.8	8180.4	7698.2	7171.6	6752.9	6291.8	6000.0	5693.3
7.5°	8971.4	8929.1	8609.7	7725.7	6867.1	6169.2	5503.0	4961.5	4621.0	4348.2	4119.8
10°	8267.1	8235.4	7827.2	6689.4	5767.3	5244.9	4794.5	4320.7	3954.9	3555.1	3235.8
12.5°	7825.1	7753.2	7283.7	6095.1	5344.3	4857.9	4367.3	3874.5	3369.0	2965.1	2578.1
15°	7677.1	7573.4	7051.1	5890.0	5073.6	4456.1	3840.7	3273.9	2692.3	2246.0	1954.2
17.5°	7945.7	7774.4	7218.1	5854.0	4750.1	3931.6	3174.5	2436.4	1831.5	1491.0	1311.2
20°	8561.1	8364.4	7641.1	5818.1	4390.5	3343.7	2413.1	1721.5	1266.8	1080.7	981.3
22.5°	9474.7	9204.0	8267.1	5875.2	4058.5	2770.5	1742.7	1216.1	1006.7	890.4	820.6
25°	10572.4	10346.1	9060.2	6078.2	3796.2	2320.0	1347.2	994.0	848.1	776.2	723.3
27.5°	11775.7	11414.1	10085.9	6321.4	3557.3	1971.1	1182.2	888.3	755.0	689.5	662.0
30°	12632.3	12351.0	10944.6	6490.6	3259.1	1708.8	1080.7	875.6	757.1	678.9	628.1
32.5°	13478.2	13118.7	11663.7	6568.9	3041.2	1527.0	934.8	763.5	664.1	623.9	573.1
35°	14383.4	14007.0	12380.6	6526.6	2878.4	1406.4	848.1	681.0	568.9	501.2	450.5
37.5°	15299.2	14901.6	13093.3	6374.3	2776.9	1357.8	780.4	647.2	537.2	467.4	412.4
40°	16386.2	15855.4	13761.6	6249.5	2671.1	1332.4	736.0	626.0	513.9	439.9	384.9
42.5°	17274.5	16769.0	14394.0	6184.0	2599.2	1273.2	736.0	609.1	499.1	416.6	359.5
45°	18116.2	17591.7	15077.1	6236.8	2569.6	1199.1	744.4	607.0	488.5	399.7	342.6
47.5°	18820.5	18365.8	15779.2	6435.6	2531.5	1118.8	700.0	636.6	482.2	384.9	325.7
50°	19651.6	19211.7	16707.7	6837.5	2463.9	1038.4	645.0	685.2	480.1	372.2	310.9
52.5°	20823.3	20347.4	17989.3	7294.3	2356.0	915.8	594.3	678.9	471.6	351.1	296.1
55°	22255.1	21870.1	19474.0	7842.0	2208.0	778.3	513.9	602.7	446.2	315.1	270.7
57.5°	23172.9	22845.1	20586.4	8078.9	1981.7	636.6	452.6	505.5	408.2	281.3	241.1
59°	23280.8	22984.7	20819.0	8000.7	1833.6	581.6	423.0	433.6	397.6	262.2	224.2
60°	23189.8	22883.2	20726.0	7848.4	1696.1	543.5	397.6	384.9	399.7	251.7	211.5
62.5°	22606.1	22081.6	19822.9	7076.4	1482.5	499.1	353.2	315.1	353.2	226.3	188.2
65°	21478.9	20692.1	18035.8	5989.4	1397.9	473.7	300.3	264.4	268.6	198.8	162.8
67.5°	19509.9	18518.0	15656.6	4866.4	1362.0	475.9	253.8	236.9	207.3	169.2	143.8
70°	16396.8	15407.0	12562.5	4003.5	1345.1	475.9	215.7	203.0	173.4	141.7	124.8
72.5°	11619.2	10553.3	8474.4	3144.9	1211.8	473.7	184.0	184.0	141.7	118.4	101.5
75°	6564.6	6573.1	5327.4	2224.9	1006.7	391.3	148.0	145.9	103.6	90.9	76.1
77.5°	3825.8	3758.2	3591.1	955.9	467.4	177.7	103.6	88.8	71.9	65.6	55.0
80°	1966.9	1617.9	1575.6	346.8	167.1	112.1	71.9	50.8	46.5	42.3	38.1
82.5°	581.6	583.7	520.3	139.6	93.1	74.0	36.0	27.5	25.4	23.3	23.3
85°	40.2	25.4	29.6	42.3	57.1	29.6	2.1	6.3	6.3	8.5	10.6
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°	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6
2.5°	7611.5	7704.6	7531.1	7535.4	7391.6	7438.1	7268.9	7323.9	7224.5	7300.6	7524.8
5°	5727.1	5748.3	5608.7	5564.3	5585.4	5672.2	5706.0	5551.6	5617.2	5488.2	5479.7
7.5°	4035.2	4060.6	3980.2	3969.7	4121.9	4086.0	4151.5	3992.9	3842.8	3908.3	3787.8
10°	3134.3	3028.5	2863.6	2817.0	2787.4	2806.5	2806.5	2662.7	2641.5	2584.4	2671.1
12.5°	2474.4	2345.4	2188.9	1977.4	1924.6	1920.3	1842.1	1715.2	1675.0	1626.4	1698.3
15°	1797.7	1744.8	1613.7	1495.2	1374.7	1351.4	1224.5	1120.9	983.4	964.4	958.0
17.5°	1264.7	1186.5	1184.3	1116.7	1046.9	1000.3	881.9	763.5	710.6	704.3	704.3
20°	947.5	920.0	875.6	867.1	846.0	793.1	687.3	623.9	598.5	600.6	609.1
22.5°	797.3	778.3	738.1	719.1	710.6	664.1	585.8	543.5	530.8	530.8	533.0
25°	712.7	695.8	651.4	621.8	611.2	577.4	516.0	484.3	473.7	473.7	473.7
27.5°	649.3	628.1	581.6	556.2	537.2	499.1	461.0	429.3	418.7	418.7	420.9
30°	604.9	581.6	539.3	505.5	475.9	442.0	410.3	382.8	370.1	368.0	370.1
32.5°	545.6	524.5	482.2	461.0	427.2	387.0	361.6	336.3	323.6	325.7	323.6
35°	425.1	418.7	389.1	395.5	376.5	342.6	319.3	291.9	277.1	274.9	279.2
37.5°	387.0	361.6	327.8	329.9	323.6	310.9	272.8	243.2	232.6	232.6	234.8
40°	357.4	332.0	294.0	274.9	277.1	277.1	236.9	205.1	194.6	192.5	196.7
42.5°	332.0	306.7	264.4	232.6	224.2	234.8	200.9	169.2	158.6	154.4	158.6
45°	315.1	287.6	239.0	203.0	177.7	190.3	165.0	139.6	126.9	126.9	124.8
47.5°	298.2	272.8	219.9	175.5	148.0	141.7	135.4	112.1	99.4	97.3	99.4
50°	283.4	258.0	198.8	152.3	124.8	110.0	110.0	88.8	80.4	76.1	78.3
52.5°	268.6	241.1	179.8	135.4	107.9	88.8	78.3	71.9	65.6	63.4	65.6
55°	247.4	219.9	160.7	116.3	93.1	74.0	61.3	59.2	55.0	50.8	55.0
57.5°	222.1	196.7	141.7	99.4	74.0	57.1	50.8	48.6	44.4	42.3	42.3
59°	207.3	184.0	131.1	86.7	65.6	50.8	46.5	44.4	40.2	36.0	38.1
60°	198.8	179.8	124.8	80.4	59.2	46.5	42.3	40.2	36.0	33.8	36.0
62.5°	175.5	160.7	110.0	65.6	46.5	33.8	29.6	31.7	29.6	27.5	29.6
65°	154.4	141.7	93.1	50.8	36.0	23.3	21.1	27.5	25.4	23.3	25.4
67.5°	137.5	122.7	78.3	38.1	25.4	12.7	14.8	23.3	23.3	21.1	23.3
70°	118.4	105.7	63.4	27.5	12.7	6.3	10.6	16.9	21.1	19.0	21.1
72.5°	97.3	82.5	48.6	19.0	6.3	0.0	6.3	14.8	21.1	19.0	21.1
75°	76.1	61.3	36.0	10.6	0.0	0.0	2.1	12.7	21.1	19.0	21.1
77.5°	55.0	44.4	21.1	2.1	0.0	0.0	2.1	12.7	21.1	19.0	21.1
80°	36.0	31.7	8.5	0.0	0.0	0.0	2.1	12.7	21.1	21.1	23.3
82.5°	23.3	16.9	0.0	0.0	0.0	0.0	4.2	16.9	23.3	25.4	25.4
85°	10.6	0.0	0.0	0.0	0.0	0.0	8.5	21.1	27.5	27.5	27.5
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.8	25.4	31.7	31.7	31.7
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°	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6
2.5°	7562.9	7696.1	7884.3	8174.1	8408.8	8778.9	9062.3	9449.4	9840.6	9959.0	10143.0
5°	5566.4	5737.7	6164.9	6554.1	6799.4	7581.9	8076.8	8857.2	9557.2	9893.5	10259.4
7.5°	3866.0	4069.1	4394.8	4938.3	5454.3	6090.9	6890.3	7782.8	8808.5	9288.6	9804.7
10°	2713.4	2967.2	3426.1	3872.4	4521.6	5126.5	5915.4	6900.9	8032.4	8599.2	9246.3
12.5°	1713.1	1939.4	2546.3	3047.6	3857.6	4559.7	5287.2	6179.7	7491.0	8072.6	8751.4
15°	979.2	1169.5	1452.9	2095.9	2994.7	3923.1	4830.4	5866.7	7213.9	7930.9	8664.7
17.5°	729.6	780.4	907.3	1271.1	2089.5	3174.5	4409.6	5771.6	7402.1	8243.9	9081.4
20°	613.3	647.2	706.4	850.2	1332.4	2444.8	3999.3	5788.5	8011.2	9068.7	9863.9
22.5°	549.9	571.0	619.7	712.7	909.4	1780.7	3519.2	5887.9	8749.3	10081.7	10999.6
25°	482.2	509.7	552.0	632.4	757.1	1235.1	3045.5	6109.9	9783.5	11367.6	12230.4
27.5°	429.3	454.7	497.0	571.0	664.1	943.2	2493.5	6300.3	10874.8	12661.9	13368.3
30°	376.5	401.8	444.1	503.3	587.9	763.5	1899.2	6412.4	11934.4	13632.6	14176.1
32.5°	332.0	353.2	393.4	446.2	516.0	647.2	1497.3	6296.0	12744.4	14514.5	14878.3
35°	287.6	313.0	346.8	395.5	456.8	552.0	1245.7	5894.2	13440.2	15421.8	15552.9
37.5°	241.1	270.7	306.7	351.1	399.7	507.6	1000.3	5450.1	14184.6	16553.3	16337.6
40°	203.0	230.5	264.4	313.0	357.4	465.3	769.8	4976.4	14988.3	17615.0	17194.1
42.5°	165.0	194.6	234.8	279.2	353.2	406.1	596.4	4485.7	15709.4	18539.2	17968.2
45°	131.1	156.5	198.8	255.9	351.1	349.0	461.0	4001.4	16253.0	19199.0	18545.5
47.5°	103.6	124.8	167.1	249.6	323.6	296.1	370.1	3701.1	16824.0	19793.3	18987.5
50°	82.5	103.6	143.8	260.1	283.4	253.8	310.9	3749.7	17376.0	20095.7	19169.4
52.5°	69.8	90.9	124.8	205.1	217.8	222.1	272.8	3973.9	18088.7	20419.3	19531.1
55°	61.3	80.4	105.7	143.8	169.2	198.8	249.6	4136.7	19042.5	21113.0	20328.4
57.5°	48.6	69.8	95.2	122.7	139.6	173.4	230.5	4149.4	19905.4	22003.4	21387.9
59°	44.4	63.4	88.8	116.3	124.8	156.5	217.8	4041.6	19937.1	22136.6	21874.4
60°	40.2	61.3	84.6	107.9	118.4	148.0	207.3	3916.8	19649.5	21925.1	22075.3
62.5°	33.8	52.9	74.0	86.7	101.5	122.7	179.8	3464.2	18255.8	20967.1	21703.1
65°	29.6	46.5	63.4	71.9	84.6	105.7	158.6	2772.6	16716.1	19668.5	20637.2
67.5°	27.5	42.3	55.0	61.3	74.0	97.3	141.7	1958.4	14721.8	18021.0	19036.2
70°	25.4	40.2	48.6	57.1	65.6	82.5	120.5	1142.0	11340.1	15132.1	16204.3
72.5°	25.4	38.1	42.3	48.6	57.1	74.0	112.1	617.5	7753.2	11543.1	12928.4
75°	25.4	36.0	38.1	42.3	50.8	67.7	99.4	323.6	5012.3	8019.7	9897.7
77.5°	25.4	33.8	38.1	40.2	48.6	59.2	86.7	203.0	3339.4	5617.2	6689.4
80°	27.5	33.8	36.0	40.2	46.5	55.0	71.9	135.4	1962.6	3379.6	4071.2
82.5°	29.6	33.8	38.1	42.3	48.6	52.9	63.4	84.6	905.2	2235.4	2529.4
85°	31.7	36.0	40.2	44.4	50.8	52.9	59.2	61.3	148.0	1008.8	1364.1
87.5°	33.8	38.1	42.3	46.5	55.0	55.0	55.0	55.0	50.8	107.9	274.9
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: P454670

CATALOG NUMBER: GALN-SA5D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6	9195.6
2.5°	10375.7	10614.7	10781.7	10824.0	10703.5	10648.5	10496.2	10259.4	10115.5	10109.2
5°	10934.0	11494.5	11883.6	11949.2	11716.5	11323.2	10855.8	10253.0	9899.8	9794.1
7.5°	10838.8	11820.2	12446.2	12537.1	12145.8	11395.1	10489.9	9519.1	9134.2	8971.4
10°	10447.6	11644.6	12539.2	12683.0	12160.7	11103.2	9952.7	8869.9	8391.9	8267.1
12.5°	10113.4	11323.2	12118.4	12317.2	11921.7	10866.3	9631.2	8453.2	7941.4	7825.1
15°	9967.5	10942.5	11428.9	11530.4	11464.9	10718.3	9597.4	8389.8	7804.0	7677.1
17.5°	10113.4	10618.9	10680.2	10783.9	10929.8	10703.5	9923.1	8734.5	8102.2	7945.7
20°	10496.2	10337.6	10083.8	10128.2	10462.4	10764.8	10502.6	9498.0	8728.2	8561.1
22.5°	11147.6	10267.8	9692.6	9654.5	10077.5	10970.0	11352.8	10532.2	9639.7	9474.7
25°	11947.0	10443.4	9548.8	9466.3	9927.3	11270.3	12277.0	11799.0	10824.0	10572.4
27.5°	12818.4	10807.1	9548.8	9468.4	9914.6	11536.8	13067.9	12919.9	12050.7	11775.7
30°	13296.4	11107.4	9686.2	9595.3	10071.1	11691.1	13490.9	13916.0	12972.8	12632.3
32.5°	13723.6	11524.1	9954.8	9783.5	10398.9	11919.6	13869.5	14762.0	13706.6	13478.2
35°	14116.9	11970.3	10324.9	10126.1	10830.4	12232.6	14288.2	15650.2	14728.1	14383.4
37.5°	14550.5	12488.5	10902.3	10733.1	11551.6	12841.6	14785.2	16817.7	15732.7	15299.2
40°	15022.1	13089.1	11851.9	11780.0	12697.8	13531.1	15413.4	18063.3	16879.0	16386.2
42.5°	15502.2	13780.7	13015.1	13133.5	13996.4	14497.6	16058.4	19021.4	17818.0	17274.5
45°	15937.9	14664.7	14527.2	15113.0	15510.6	15440.9	16536.4	19696.0	18636.5	18116.2
47.5°	16487.7	15952.7	16356.6	17259.7	17270.2	16466.6	16898.0	20248.0	19340.7	18820.5
50°	17103.2	17473.3	18718.9	19638.9	19391.5	17475.4	17321.0	20901.5	20068.2	19651.6
52.5°	17815.9	19175.8	20901.5	21923.0	21345.6	18575.1	18025.3	21607.9	21223.0	20823.3
55°	18644.9	20336.8	23077.7	23892.0	23310.4	19941.4	19095.4	22565.9	22527.9	22255.1
57.5°	19581.8	21563.5	24338.2	25440.1	24921.9	21544.4	20590.6	23469.0	23325.2	23172.9
59°	20322.0	22193.7	24894.4	26036.5	25723.5	22667.5	21595.2	24031.6	23509.2	23280.8
60°	20770.4	22620.9	25099.6	26116.9	26044.9	23335.8	22231.8	24306.5	23507.1	23189.8
62.5°	22100.7	23367.5	25021.3	25759.4	26040.7	24617.4	24099.2	24608.9	23071.4	22606.1
65°	22574.4	23120.0	23724.9	23634.0	23875.1	24551.8	25292.0	24276.9	22140.8	21478.9
67.5°	21652.3	20406.6	20620.2	20013.3	19894.8	21827.8	24807.7	22652.7	20319.9	19509.9
70°	18251.6	15633.3	15525.5	15804.6	15039.0	17672.1	22276.2	19524.7	17314.7	16396.8
72.5°	14366.5	11048.2	10138.8	11166.7	11143.4	13482.5	18505.3	13854.7	11697.5	11619.2
75°	11297.8	7691.9	6750.7	6917.8	7239.3	9760.2	14738.7	8798.0	7203.3	6564.6
77.5°	7584.0	5450.1	5084.2	4879.1	5225.9	6266.4	9324.6	4771.2	4039.5	3825.8
80°	4371.5	3959.1	4496.3	4081.7	4267.9	3948.5	4638.0	2188.9	1816.7	1966.9
82.5°	2844.5	2254.5	2402.5	1785.0	2440.6	2461.7	1488.9	647.2	547.8	581.6
85°	1778.6	1057.4	594.3	423.0	841.7	1548.1	465.3	40.2	46.5	40.2
87.5°	461.0	175.5	74.0	110.0	135.4	120.5	107.9	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)