

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: P455801

Luminaire Tested: **GALN-SA7A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455801
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-SA7A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 20833 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

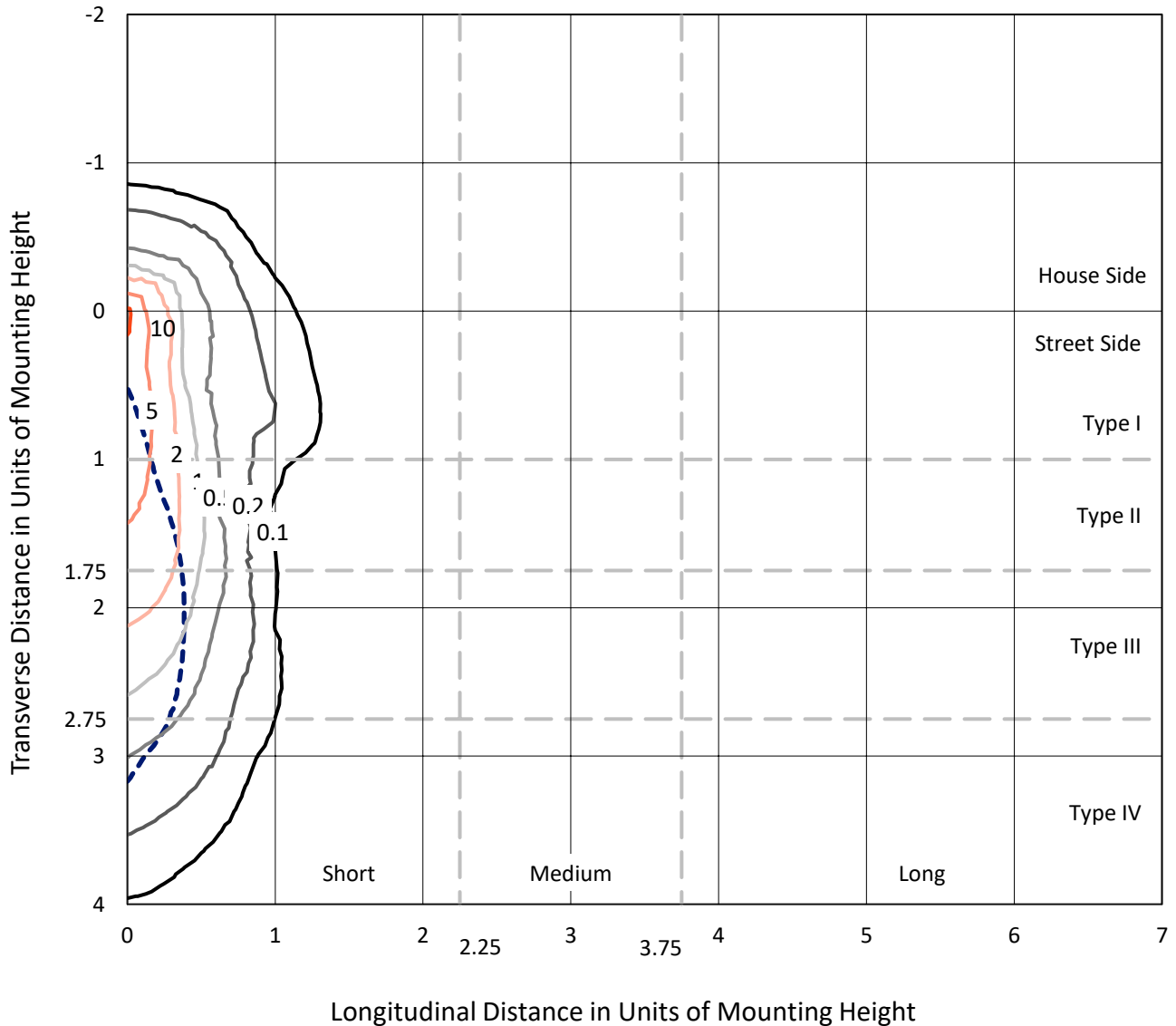
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

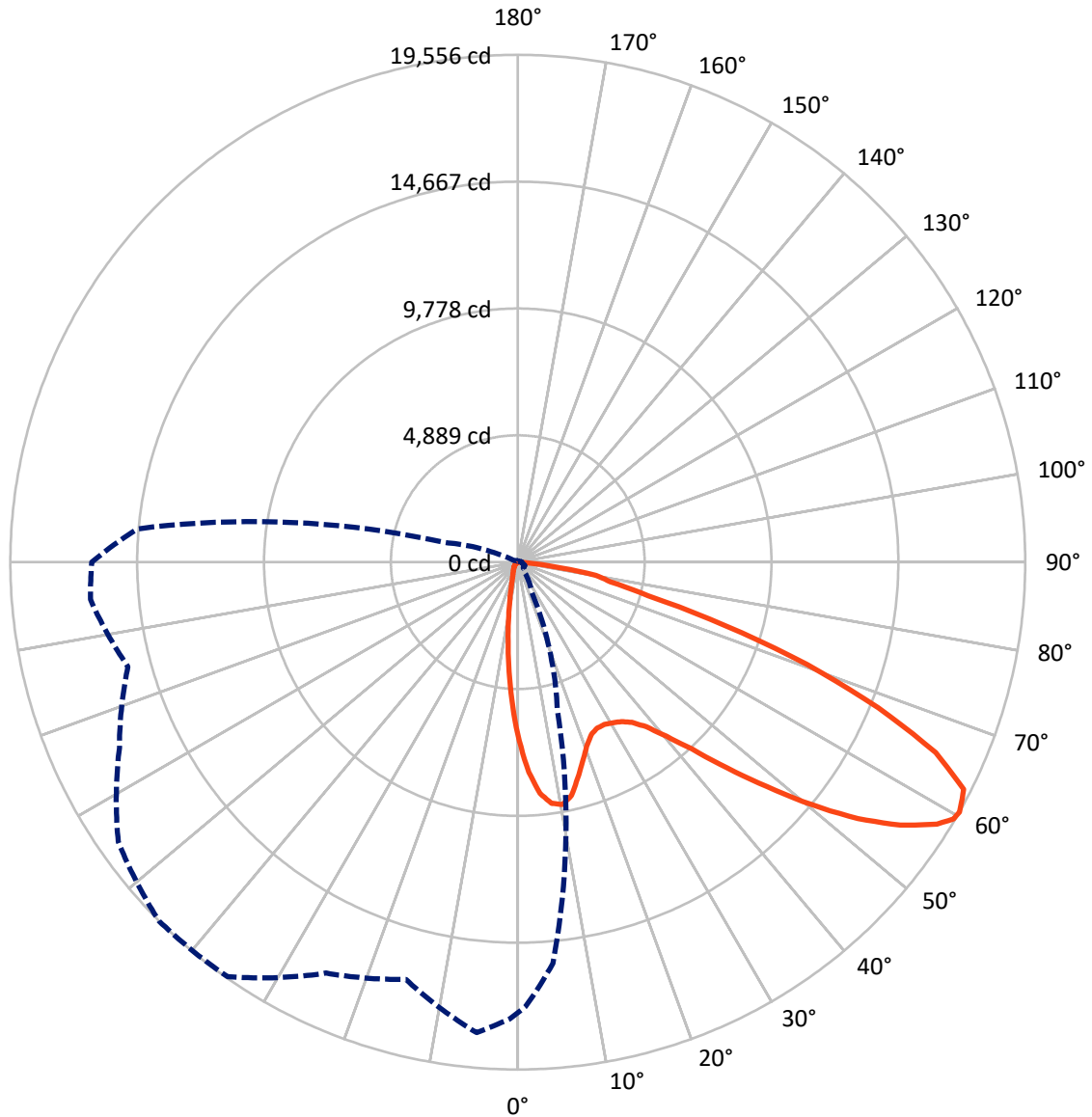
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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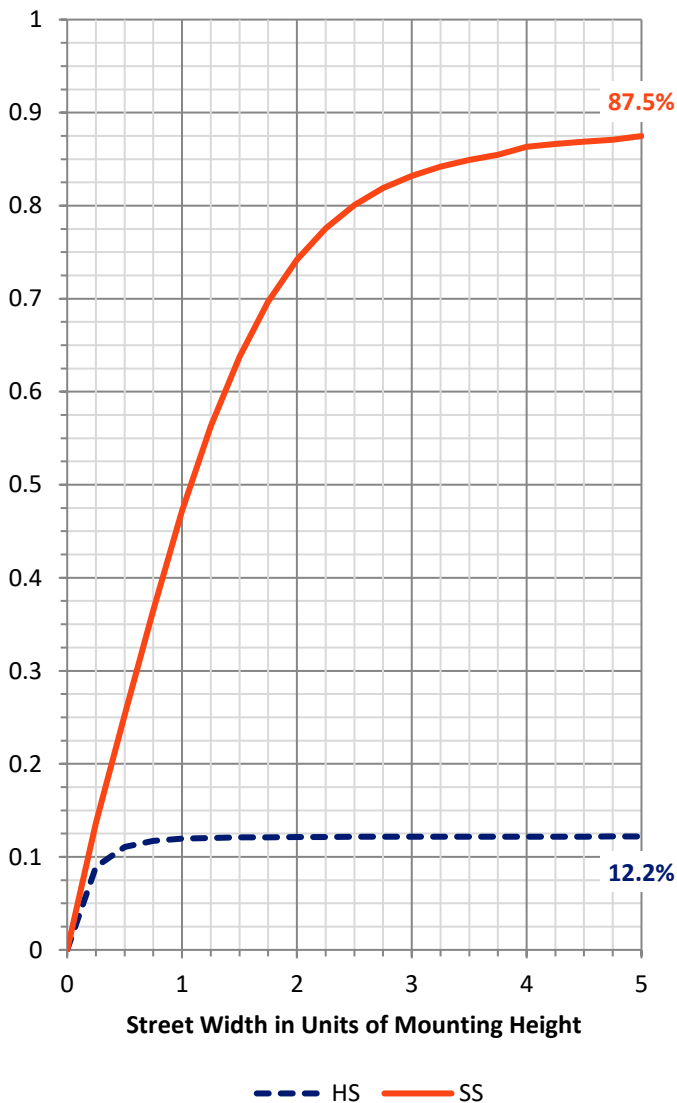
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2569.5	0.0	2569.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18263.5	0.0	18263.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	20833.0	0.0	20833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.1	2.5
10°-20°	1017.1	4.9
20°-30°	1491.3	7.2
30°-40°	2217.9	10.6
40°-50°	3227.7	15.5
50°-60°	4654.6	22.3
60°-70°	5119.5	24.6
70°-80°	2293.1	11.0
80°-90°	299.6	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°	20833.0	100.0
0°-180°	20833.0	100.0



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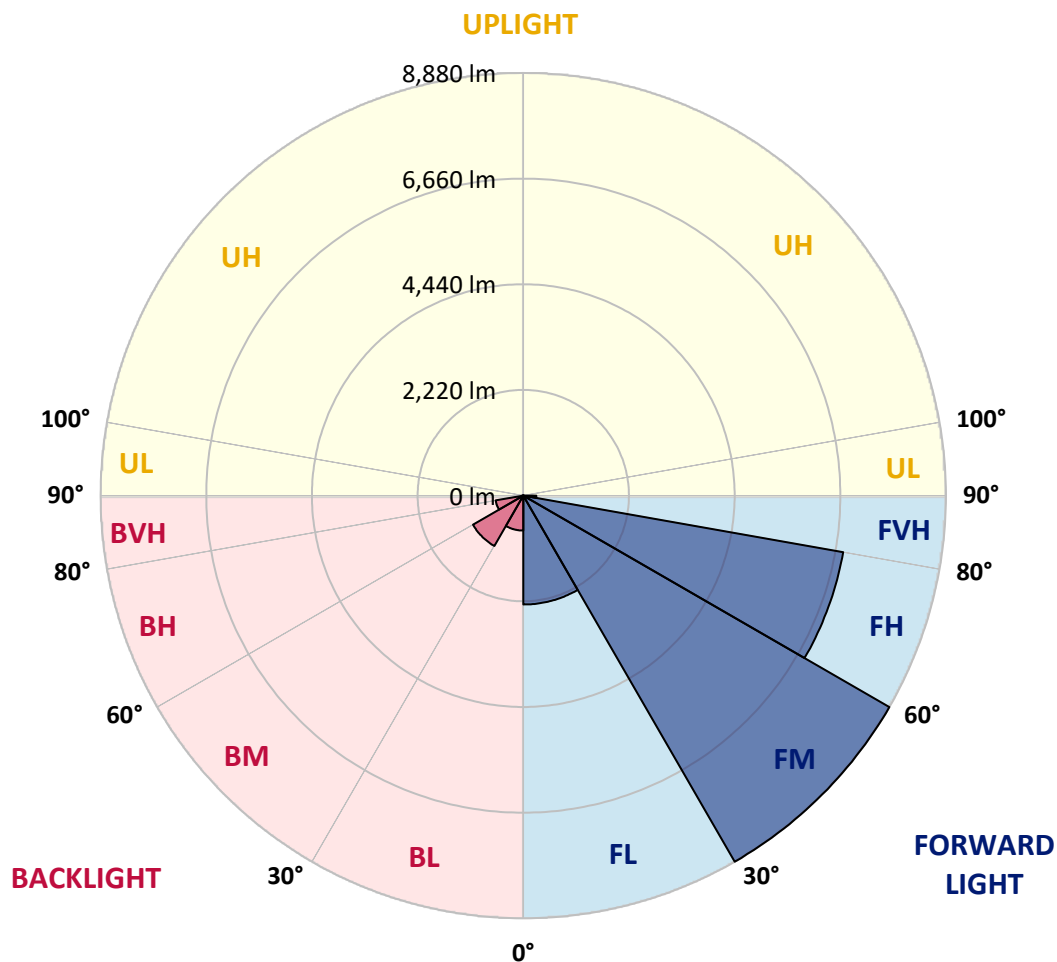
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2286.3	11.0			
FM	(30°-60°)	8879.7	42.6			
FH	(60°-80°)	6823.4	32.8			G3/7500
FVH	(80°-90°)	274.0	1.3			G3/500
BL	(0°-30°)	734.2	3.5	B2/1000		
BM	(30°-60°)	1220.5	5.9	B2/2500		
BH	(60°-80°)	589.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	25.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	7569.7	7536.5	7460.5	7229.3	7028.1	6765.2	6499.2	6290.2	6161.9	5925.9	5818.2
5°	7333.8	7349.6	7129.5	6654.4	6125.5	5764.4	5370.1	5056.5	4711.3	4492.7	4263.1
7.5°	6717.7	6686.1	6446.9	5785.0	5142.0	4619.4	4120.6	3715.2	3460.2	3255.9	3084.9
10°	6190.4	6166.6	5861.0	5009.0	4318.5	3927.4	3590.1	3235.3	2961.4	2662.1	2422.9
12.5°	5859.4	5805.6	5454.0	4564.0	4001.8	3637.6	3270.2	2901.2	2522.7	2220.2	1930.4
15°	5748.6	5671.0	5279.8	4410.4	3799.1	3336.7	2875.9	2451.5	2016.0	1681.8	1463.3
17.5°	5949.7	5821.4	5404.9	4383.5	3556.8	2944.0	2377.0	1824.3	1371.4	1116.5	981.8
20°	6410.5	6263.2	5721.6	4356.6	3287.6	2503.7	1806.9	1289.1	948.6	809.2	734.8
22.5°	7094.6	6891.9	6190.4	4399.3	3039.0	2074.5	1304.9	910.6	753.8	666.7	614.4
25°	7916.5	7747.1	6784.3	4551.3	2842.6	1737.2	1008.8	744.3	635.0	581.2	541.6
27.5°	8817.6	8546.8	7552.3	4733.5	2663.7	1475.9	885.2	665.1	565.4	516.3	495.7
30°	9459.0	9248.4	8195.3	4860.1	2440.4	1279.6	809.2	655.6	566.9	508.3	470.3
32.5°	10092.4	9823.2	8733.7	4918.7	2277.3	1143.4	700.0	571.7	497.3	467.2	429.2
35°	10770.2	10488.4	9270.5	4887.1	2155.3	1053.1	635.0	509.9	426.0	375.3	337.3
37.5°	11455.9	11158.2	9804.2	4773.0	2079.3	1016.7	584.4	484.6	402.2	350.0	308.8
40°	12269.9	11872.4	10304.7	4679.6	2000.1	997.7	551.1	468.8	384.8	329.4	288.2
42.5°	12935.1	12556.6	10778.2	4630.5	1946.3	953.3	551.1	456.1	373.7	312.0	269.2
45°	13565.3	13172.6	11289.7	4670.1	1924.1	897.9	557.4	454.5	365.8	299.3	256.5
47.5°	14092.7	13752.2	11815.4	4819.0	1895.6	837.7	524.2	476.7	361.1	288.2	243.9
50°	14715.0	14385.7	12510.6	5119.9	1844.9	777.6	483.0	513.1	359.5	278.7	232.8
52.5°	15592.4	15236.1	13470.3	5461.9	1764.2	685.7	445.0	508.3	353.1	262.9	221.7
55°	16664.5	16376.3	14582.0	5872.1	1653.3	582.8	384.8	451.3	334.1	236.0	202.7
57.5°	17351.8	17106.3	15415.0	6049.4	1483.9	476.7	338.9	378.5	305.6	210.6	180.5
59°	17432.6	17210.8	15589.2	5990.9	1373.0	435.5	316.7	324.6	297.7	196.4	167.9
60°	17364.5	17134.8	15519.5	5876.8	1270.1	407.0	297.7	288.2	299.3	188.5	158.4
62.5°	16927.4	16534.6	14843.3	5298.8	1110.1	373.7	264.5	236.0	264.5	169.4	140.9
65°	16083.3	15494.2	13505.2	4484.8	1046.8	354.7	224.9	198.0	201.1	148.9	121.9
67.5°	14608.9	13866.2	11723.6	3643.9	1019.9	356.3	190.0	177.4	155.2	126.7	107.7
70°	12277.8	11536.7	9406.7	2997.8	1007.2	356.3	161.5	152.0	129.9	106.1	93.4
72.5°	8700.4	7902.3	6345.6	2354.9	907.4	354.7	137.8	137.8	106.1	88.7	76.0
75°	4915.6	4921.9	3989.2	1666.0	753.8	293.0	110.9	109.3	77.6	68.1	57.0
77.5°	2864.8	2814.1	2689.0	715.8	350.0	133.0	77.6	66.5	53.8	49.1	41.2
80°	1472.8	1211.5	1179.8	259.7	125.1	83.9	53.8	38.0	34.8	31.7	28.5
82.5°	435.5	437.1	389.6	104.5	69.7	55.4	26.9	20.6	19.0	17.4	17.4
85°	30.1	19.0	22.2	31.7	42.8	22.2	1.6	4.8	4.8	6.3	7.9
87.5°	3.2	1.6	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°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	5699.5	5769.1	5639.3	5642.5	5534.8	5569.6	5442.9	5484.1	5409.7	5466.7	5634.5
5°	4288.5	4304.3	4199.8	4166.5	4182.4	4247.3	4272.6	4157.0	4206.1	4109.5	4103.2
7.5°	3021.6	3040.6	2980.4	2972.5	3086.5	3059.6	3108.7	2989.9	2877.4	2926.5	2836.3
10°	2346.9	2267.8	2144.2	2109.4	2087.2	2101.5	2101.5	1993.8	1977.9	1935.2	2000.1
12.5°	1852.8	1756.2	1639.1	1480.7	1441.1	1437.9	1379.3	1284.3	1254.2	1217.8	1271.7
15°	1346.1	1306.5	1208.3	1119.6	1029.4	1011.9	916.9	839.3	736.4	722.1	717.4
17.5°	947.0	888.4	886.8	836.2	783.9	749.1	660.4	571.7	532.1	527.3	527.3
20°	709.5	688.9	655.6	649.3	633.5	593.9	514.7	467.2	448.2	449.7	456.1
22.5°	597.0	582.8	552.7	538.4	532.1	497.3	438.7	407.0	397.5	397.5	399.1
25°	533.7	521.0	487.8	465.6	457.7	432.3	386.4	362.7	354.7	354.7	354.7
27.5°	486.2	470.3	435.5	416.5	402.2	373.7	345.2	321.5	313.6	313.6	315.1
30°	452.9	435.5	403.8	378.5	356.3	331.0	307.2	286.6	277.1	275.6	277.1
32.5°	408.6	392.7	361.1	345.2	319.9	289.8	270.8	251.8	242.3	243.9	242.3
35°	318.3	313.6	291.4	296.1	281.9	256.5	239.1	218.5	207.5	205.9	209.0
37.5°	289.8	270.8	245.5	247.0	242.3	232.8	204.3	182.1	174.2	174.2	175.8
40°	267.6	248.6	220.1	205.9	207.5	207.5	177.4	153.6	145.7	144.1	147.3
42.5°	248.6	229.6	198.0	174.2	167.9	175.8	150.4	126.7	118.8	115.6	118.8
45°	236.0	215.4	178.9	152.0	133.0	142.5	123.5	104.5	95.0	95.0	93.4
47.5°	223.3	204.3	164.7	131.4	110.9	106.1	101.4	83.9	74.4	72.8	74.4
50°	212.2	193.2	148.9	114.0	93.4	82.3	82.3	66.5	60.2	57.0	58.6
52.5°	201.1	180.5	134.6	101.4	80.8	66.5	58.6	53.8	49.1	47.5	49.1
55°	185.3	164.7	120.4	87.1	69.7	55.4	45.9	44.3	41.2	38.0	41.2
57.5°	166.3	147.3	106.1	74.4	55.4	42.8	38.0	36.4	33.3	31.7	31.7
59°	155.2	137.8	98.2	64.9	49.1	38.0	34.8	33.3	30.1	26.9	28.5
60°	148.9	134.6	93.4	60.2	44.3	34.8	31.7	30.1	26.9	25.3	26.9
62.5°	131.4	120.4	82.3	49.1	34.8	25.3	22.2	23.8	22.2	20.6	22.2
65°	115.6	106.1	69.7	38.0	26.9	17.4	15.8	20.6	19.0	17.4	19.0
67.5°	102.9	91.9	58.6	28.5	19.0	9.5	11.1	17.4	17.4	15.8	17.4
70°	88.7	79.2	47.5	20.6	9.5	4.8	7.9	12.7	15.8	14.3	15.8
72.5°	72.8	61.8	36.4	14.3	4.8	0.0	4.8	11.1	15.8	14.3	15.8
75°	57.0	45.9	26.9	7.9	0.0	0.0	1.6	9.5	15.8	14.3	15.8
77.5°	41.2	33.3	15.8	1.6	0.0	0.0	1.6	9.5	15.8	14.3	15.8
80°	26.9	23.8	6.3	0.0	0.0	0.0	1.6	9.5	15.8	15.8	17.4
82.5°	17.4	12.7	0.0	0.0	0.0	0.0	3.2	12.7	17.4	19.0	19.0
85°	7.9	0.0	0.0	0.0	0.0	0.0	6.3	15.8	20.6	20.6	20.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.1	19.0	23.8	23.8	23.8
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°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	5663.0	5762.8	5903.8	6120.7	6296.5	6573.6	6785.8	7075.6	7368.6	7457.3	7595.1
5°	4168.1	4296.4	4616.3	4907.7	5091.4	5677.3	6047.9	6632.2	7156.4	7408.2	7682.2
7.5°	2894.9	3046.9	3290.8	3697.8	4084.2	4560.8	5159.5	5827.7	6595.8	6955.3	7341.7
10°	2031.8	2221.8	2565.5	2899.6	3385.8	3838.7	4429.4	5167.4	6014.6	6439.0	6923.6
12.5°	1282.7	1452.2	1906.7	2282.0	2888.5	3414.3	3959.1	4627.4	5609.2	6044.7	6553.0
15°	733.2	875.7	1088.0	1569.4	2242.4	2937.6	3617.0	4393.0	5401.7	5938.6	6488.1
17.5°	546.4	584.4	679.4	951.8	1564.6	2377.0	3301.9	4321.7	5542.7	6173.0	6800.1
20°	459.3	484.6	528.9	636.6	997.7	1830.7	2994.6	4334.4	5998.8	6790.6	7386.0
22.5°	411.7	427.6	464.0	533.7	681.0	1333.4	2635.2	4408.8	6551.5	7549.1	8236.4
25°	361.1	381.7	413.3	473.5	566.9	924.8	2280.4	4575.1	7325.9	8512.0	9158.1
27.5°	321.5	340.5	372.2	427.6	497.3	706.3	1867.1	4717.6	8143.0	9481.2	10010.1
30°	281.9	300.9	332.6	376.9	440.2	571.7	1422.1	4801.6	8936.4	10208.1	10615.0
32.5°	248.6	264.5	294.6	334.1	386.4	484.6	1121.2	4714.5	9542.9	10868.4	11140.8
35°	215.4	234.4	259.7	296.1	342.1	413.3	932.8	4413.6	10063.9	11547.8	11646.0
37.5°	180.5	202.7	229.6	262.9	299.3	380.1	749.1	4081.0	10621.4	12395.0	12233.5
40°	152.0	172.6	198.0	234.4	267.6	348.4	576.4	3726.3	11223.2	13190.0	12874.9
42.5°	123.5	145.7	175.8	209.0	264.5	304.1	446.6	3358.9	11763.2	13882.1	13454.5
45°	98.2	117.2	148.9	191.6	262.9	261.3	345.2	2996.2	12170.2	14376.2	13886.8
47.5°	77.6	93.4	125.1	186.9	242.3	221.7	277.1	2771.3	12597.7	14821.2	14217.8
50°	61.8	77.6	107.7	194.8	212.2	190.0	232.8	2807.8	13011.1	15047.6	14354.0
52.5°	52.3	68.1	93.4	153.6	163.1	166.3	204.3	2975.6	13544.8	15289.9	14624.8
55°	45.9	60.2	79.2	107.7	126.7	148.9	186.9	3097.6	14259.0	15809.3	15221.8
57.5°	36.4	52.3	71.3	91.9	104.5	129.9	172.6	3107.1	14905.1	16476.0	16015.2
59°	33.3	47.5	66.5	87.1	93.4	117.2	163.1	3026.3	14928.8	16575.8	16379.4
60°	30.1	45.9	63.3	80.8	88.7	110.9	155.2	2932.9	14713.5	16417.4	16529.9
62.5°	25.3	39.6	55.4	64.9	76.0	91.9	134.6	2594.0	13669.9	15700.1	16251.2
65°	22.2	34.8	47.5	53.8	63.3	79.2	118.8	2076.1	12517.0	14727.7	15453.0
67.5°	20.6	31.7	41.2	45.9	55.4	72.8	106.1	1466.4	11023.6	13494.1	14254.2
70°	19.0	30.1	36.4	42.8	49.1	61.8	90.3	855.2	8491.4	11330.8	12133.7
72.5°	19.0	28.5	31.7	36.4	42.8	55.4	83.9	462.4	5805.6	8643.4	9680.7
75°	19.0	26.9	28.5	31.7	38.0	50.7	74.4	242.3	3753.2	6005.1	7411.4
77.5°	19.0	25.3	28.5	30.1	36.4	44.3	64.9	152.0	2500.5	4206.1	5009.0
80°	20.6	25.3	26.9	30.1	34.8	41.2	53.8	101.4	1469.6	2530.6	3048.5
82.5°	22.2	25.3	28.5	31.7	36.4	39.6	47.5	63.3	677.8	1673.9	1894.0
85°	23.8	26.9	30.1	33.3	38.0	39.6	44.3	45.9	110.9	755.4	1021.4
87.5°	25.3	28.5	31.7	34.8	41.2	41.2	41.2	41.2	38.0	80.8	205.9
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: P455801

CATALOG NUMBER: GALN-SA7A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	7769.3	7948.2	8073.3	8105.0	8014.7	7973.6	7859.5	7682.2	7574.5	7569.7
5°	8187.3	8607.0	8898.4	8947.5	8773.3	8478.7	8128.8	7677.4	7413.0	7333.8
7.5°	8116.1	8850.9	9319.6	9387.7	9094.8	8532.6	7854.8	7127.9	6839.7	6717.7
10°	7823.1	8719.4	9389.3	9497.0	9105.8	8314.0	7452.5	6641.7	6283.8	6190.4
12.5°	7572.9	8478.7	9074.2	9223.0	8926.9	8136.7	7211.8	6329.8	5946.5	5859.4
15°	7463.6	8193.7	8557.9	8633.9	8584.8	8025.8	7186.5	6282.2	5843.6	5748.6
17.5°	7572.9	7951.4	7997.3	8074.9	8184.2	8014.7	7430.4	6540.4	6066.9	5949.7
20°	7859.5	7740.8	7550.7	7584.0	7834.2	8060.7	7864.3	7112.1	6535.6	6410.5
22.5°	8347.3	7688.5	7257.8	7229.3	7546.0	8214.3	8500.9	7886.5	7218.2	7094.6
25°	8945.9	7819.9	7150.1	7088.3	7433.5	8439.1	9192.9	8835.0	8105.0	7916.5
27.5°	9598.4	8092.3	7150.1	7089.9	7424.0	8638.7	9785.2	9674.4	9023.5	8817.6
30°	9956.3	8317.2	7253.0	7184.9	7541.2	8754.3	10101.9	10420.3	9714.0	9459.0
32.5°	10276.1	8629.2	7454.1	7325.9	7786.7	8925.3	10385.4	11053.7	10263.5	10092.4
35°	10570.7	8963.3	7731.3	7582.4	8109.7	9159.7	10699.0	11718.8	11028.4	10770.2
37.5°	10895.3	9351.3	8163.6	8036.9	8649.8	9615.8	11071.1	12593.0	11780.6	11455.9
40°	11248.5	9801.1	8874.6	8820.8	9508.1	10132.0	11541.5	13525.7	12638.9	12269.9
42.5°	11608.0	10318.9	9745.6	9834.3	10480.4	10855.8	12024.5	14243.1	13342.0	12935.1
45°	11934.2	10980.9	10877.9	11316.6	11614.3	11562.1	12382.4	14748.3	13954.9	13565.3
47.5°	12345.9	11945.3	12247.8	12924.0	12931.9	12330.1	12653.2	15161.6	14482.3	14092.7
50°	12806.8	13083.9	14016.7	14705.5	14520.3	13085.5	12969.9	15651.0	15027.0	14715.0
52.5°	13340.5	14358.7	15651.0	16415.9	15983.5	13909.0	13497.2	16179.9	15891.7	15592.4
55°	13961.2	15228.1	17280.5	17890.2	17454.7	14932.0	14298.6	16897.3	16868.8	16664.5
57.5°	14662.8	16146.6	18224.4	19049.4	18661.4	16132.4	15418.2	17573.5	17465.8	17351.8
59°	15217.1	16618.6	18640.9	19496.0	19261.6	16973.3	16170.4	17994.7	17603.6	17432.6
60°	15552.8	16938.5	18794.5	19556.2	19502.3	17473.7	16647.1	18200.6	17602.0	17364.5
62.5°	16548.9	17497.5	18735.9	19288.6	19499.2	18433.4	18045.4	18427.1	17275.8	16927.4
65°	16903.6	17312.2	17765.1	17697.0	17877.5	18384.3	18938.6	18178.4	16579.0	16083.3
67.5°	16213.2	15280.4	15440.3	14985.8	14897.2	16344.6	18575.9	16962.2	15215.5	14608.9
70°	13666.7	11706.2	11625.4	11834.4	11261.2	13232.8	16680.3	14620.0	12965.1	12277.8
72.5°	10757.6	8272.9	7591.9	8361.5	8344.1	10095.6	13856.7	10374.3	8759.0	8700.4
75°	8459.7	5759.6	5054.9	5180.0	5420.8	7308.4	11036.3	6587.9	5393.8	4915.6
77.5°	5678.9	4081.0	3807.0	3653.4	3913.1	4692.3	6982.2	3572.7	3024.7	2864.8
80°	3273.4	2964.5	3366.8	3056.4	3195.8	2956.6	3472.9	1639.1	1360.3	1472.8
82.5°	2130.0	1688.1	1799.0	1336.6	1827.5	1843.3	1114.9	484.6	410.2	435.5
85°	1331.8	791.8	445.0	316.7	630.3	1159.2	348.4	30.1	34.8	30.1
87.5°	345.2	131.4	55.4	82.3	101.4	90.3	80.8	4.8	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)