

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: P456700

Luminaire Tested: **GALN-SA8A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456700
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-SA8A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 22179 lumens
Efficiency: N/A
Efficacy: 90.9 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

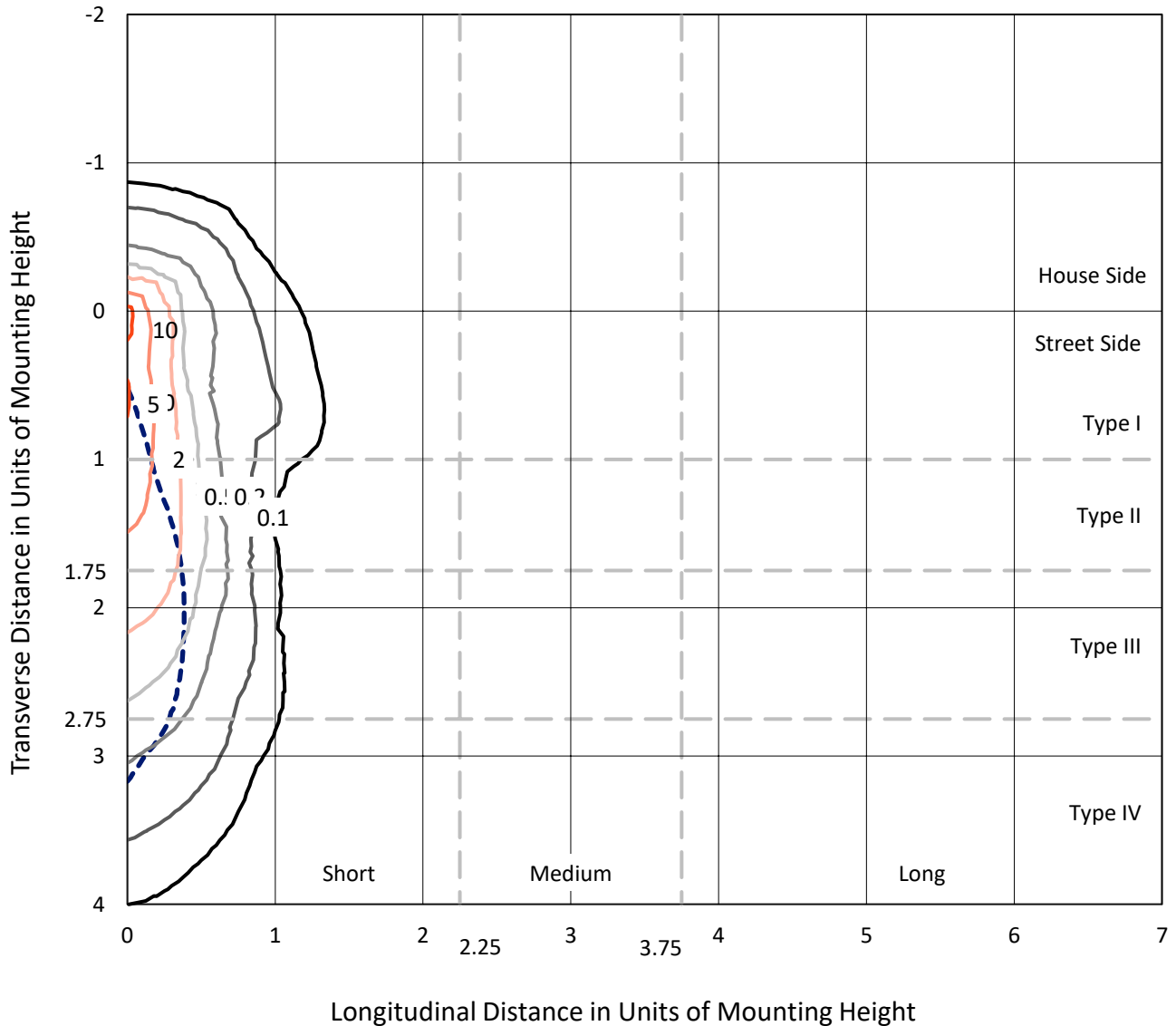
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

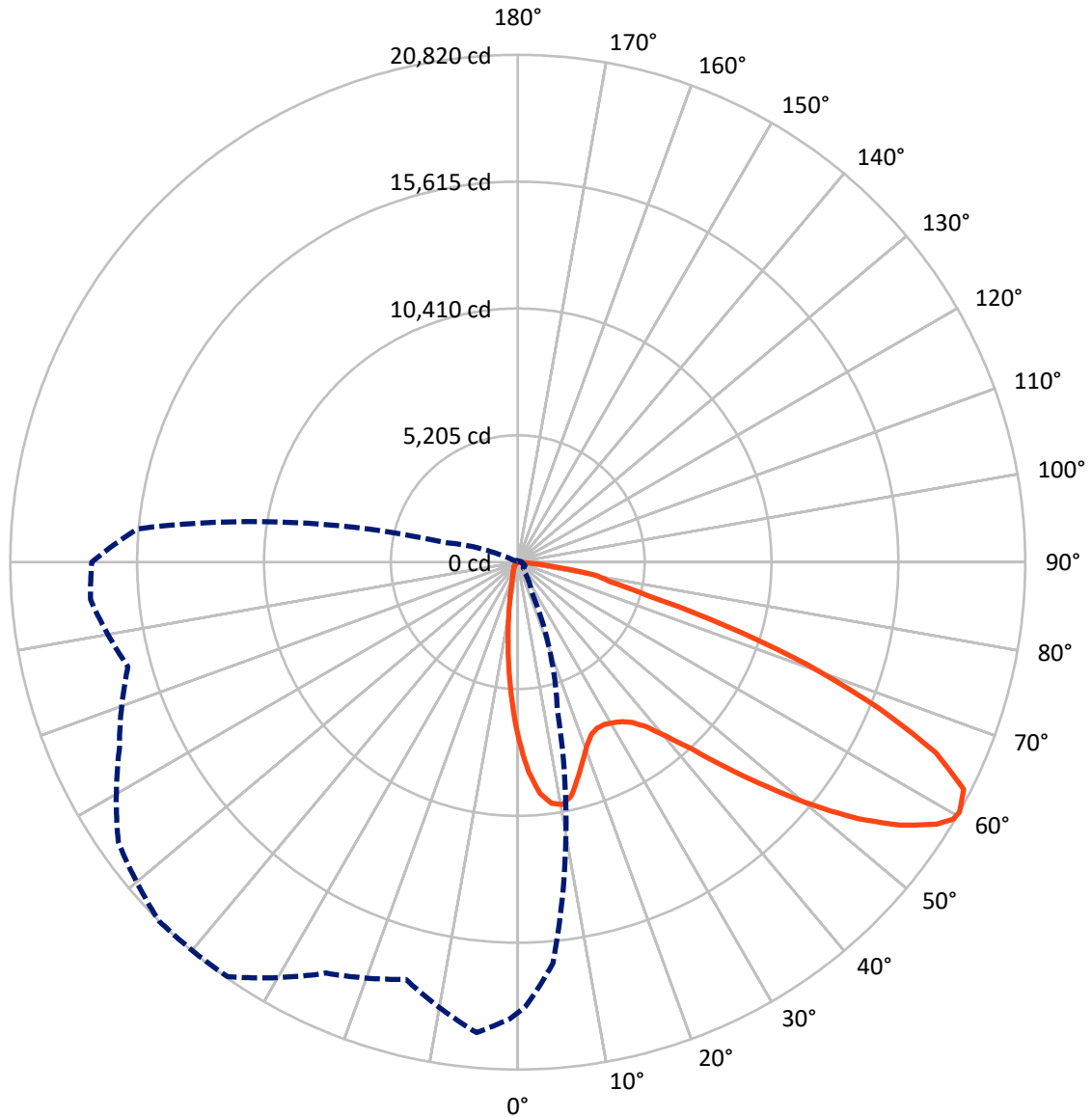
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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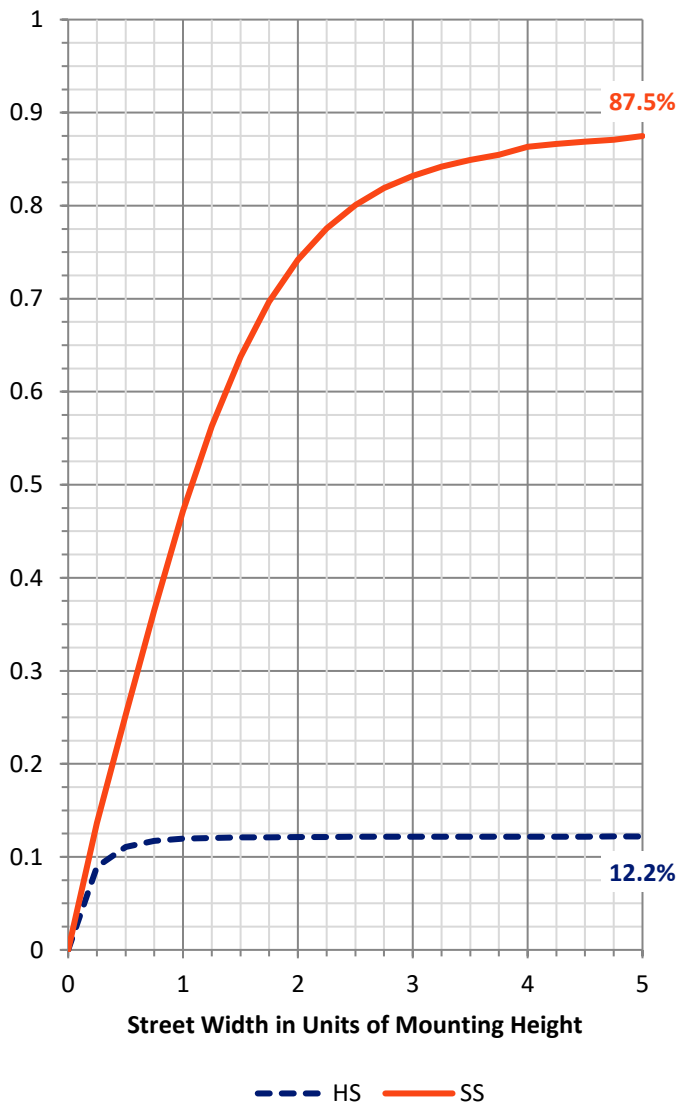
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2735.6	0.0	2735.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19443.4	0.0	19443.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	22179.0	0.0	22179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.2	2.5
10°-20°	1082.8	4.9
20°-30°	1587.7	7.2
30°-40°	2361.2	10.6
40°-50°	3436.2	15.5
50°-60°	4955.3	22.3
60°-70°	5450.3	24.6
70°-80°	2441.3	11.0
80°-90°	319.0	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°	22179.0	100.0
0°-180°	22179.0	100.0

Coefficient of Utilization

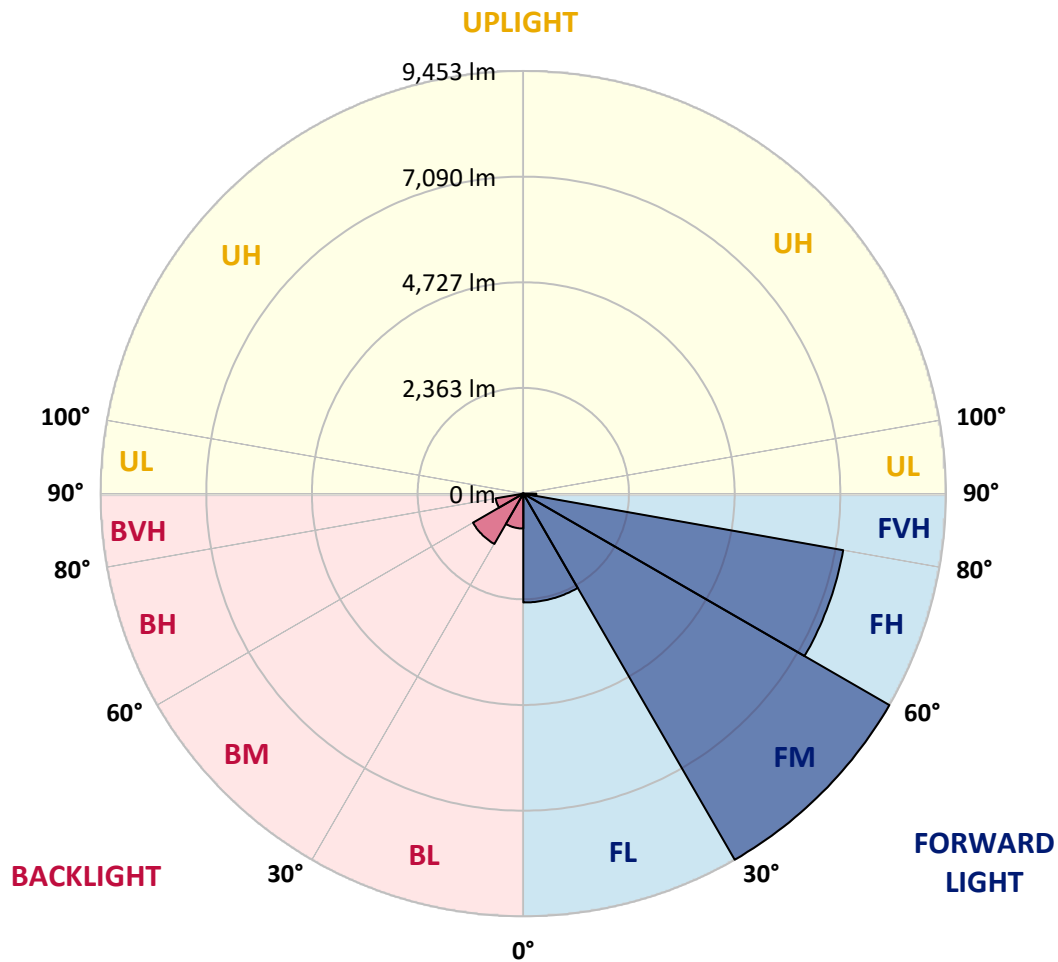


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.1	11.0			
FM (30°-60°)	9453.4	42.6			
FH (60°-80°)	7264.3	32.8			G3/7500
FVH (80°-90°)	291.7	1.3			G3/500
BL (0°-30°)	781.6	3.5	B2/1000		
BM (30°-60°)	1299.3	5.9	B2/2500		
BH (60°-80°)	627.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	27.3	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°	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5
2.5°	8058.8	8023.4	7942.5	7696.3	7482.2	7202.3	6919.1	6696.6	6560.0	6308.8	6194.2
5°	7807.6	7824.5	7590.1	7084.3	6521.2	6136.8	5717.0	5383.2	5015.7	4783.0	4538.6
7.5°	7151.8	7118.0	6863.5	6158.7	5474.3	4917.9	4386.8	3955.2	3683.8	3466.3	3284.2
10°	6590.3	6565.1	6239.7	5332.6	4597.6	4181.1	3822.0	3444.4	3152.7	2834.1	2579.5
12.5°	6238.0	6180.7	5806.4	4858.9	4260.4	3872.6	3481.5	3088.6	2685.7	2363.7	2055.2
15°	6120.0	6037.4	5620.9	4695.3	4044.6	3552.3	3061.7	2609.8	2146.2	1790.5	1557.8
17.5°	6334.1	6197.5	5754.1	4666.7	3786.6	3134.2	2530.6	1942.2	1460.0	1188.6	1045.3
20°	6824.7	6667.9	6091.3	4638.0	3500.0	2665.5	1923.7	1372.4	1009.9	861.5	782.3
22.5°	7553.0	7337.2	6590.3	4683.5	3235.3	2208.6	1389.2	969.4	802.5	709.8	654.1
25°	8428.0	8247.6	7222.6	4845.4	3026.3	1849.5	1073.9	792.4	676.1	618.7	576.6
27.5°	9387.3	9099.0	8040.3	5039.3	2835.8	1571.3	942.4	708.1	601.9	549.6	527.7
30°	10070.1	9845.9	8724.8	5174.2	2598.0	1362.2	861.5	698.0	603.6	541.2	500.7
32.5°	10744.5	10457.9	9298.0	5236.5	2424.4	1217.3	745.2	608.6	529.4	497.4	456.9
35°	11466.1	11166.0	9869.5	5202.8	2294.6	1121.2	676.1	542.9	453.5	399.6	359.1
37.5°	12196.1	11879.1	10437.7	5081.4	2213.6	1082.4	622.1	515.9	428.2	372.6	328.8
40°	13062.7	12639.5	10970.4	4982.0	2129.3	1062.1	586.7	499.0	409.7	350.7	306.8
42.5°	13770.8	13367.8	11474.5	4929.7	2072.0	1014.9	586.7	485.6	397.9	332.1	286.6
45°	14441.8	14023.7	12019.1	4971.8	2048.4	955.9	593.5	483.9	389.5	318.6	273.1
47.5°	15003.2	14640.7	12578.8	5130.3	2018.1	891.9	558.0	507.5	384.4	306.8	259.6
50°	15665.8	15315.1	13318.9	5450.7	1964.1	827.8	514.2	546.2	382.7	296.7	247.8
52.5°	16599.8	16220.4	14340.6	5814.8	1878.1	730.0	473.7	541.2	376.0	279.9	236.0
55°	17741.2	17434.3	15524.2	6251.5	1760.1	620.4	409.7	480.5	355.7	251.2	215.8
57.5°	18472.9	18211.5	16411.0	6440.3	1579.7	507.5	360.8	402.9	325.4	224.2	192.2
59°	18558.9	18322.8	16596.4	6377.9	1461.7	463.6	337.2	345.6	317.0	209.1	178.7
60°	18486.4	18241.9	16522.2	6256.5	1352.1	433.3	317.0	306.8	318.6	200.6	168.6
62.5°	18021.0	17602.9	15802.3	5641.2	1181.8	397.9	281.6	251.2	281.6	180.4	150.0
65°	17122.4	16495.3	14377.7	4774.6	1114.4	377.7	239.4	210.7	214.1	158.5	129.8
67.5°	15552.8	14762.1	12481.0	3879.4	1085.7	379.3	202.3	188.8	165.2	134.9	114.6
70°	13071.1	12282.1	10014.5	3191.5	1072.3	379.3	172.0	161.9	138.2	113.0	99.5
72.5°	9262.6	8412.9	6755.6	2507.0	966.0	377.7	146.7	146.7	113.0	94.4	80.9
75°	5233.2	5239.9	4246.9	1773.6	802.5	311.9	118.0	116.3	82.6	72.5	60.7
77.5°	3049.9	2995.9	2862.7	762.0	372.6	141.6	82.6	70.8	57.3	52.3	43.8
80°	1567.9	1289.7	1256.0	276.5	133.2	89.4	57.3	40.5	37.1	33.7	30.3
82.5°	463.6	465.3	414.7	111.3	74.2	59.0	28.7	21.9	20.2	18.5	18.5
85°	32.0	20.2	23.6	33.7	45.5	23.6	1.7	5.1	5.1	6.7	8.4
87.5°	3.4	1.7	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°	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5
2.5°	6067.7	6141.9	6003.6	6007.0	5892.4	5929.5	5794.6	5838.4	5759.2	5819.9	5998.6
5°	4565.5	4582.4	4471.1	4435.7	4452.6	4521.7	4548.7	4425.6	4477.9	4375.0	4368.3
7.5°	3216.8	3237.0	3172.9	3164.5	3285.9	3257.2	3309.5	3183.1	3063.4	3115.6	3019.5
10°	2498.6	2414.3	2282.8	2245.7	2222.1	2237.2	2237.2	2122.6	2105.7	2060.2	2129.3
12.5°	1972.6	1869.7	1745.0	1576.4	1534.2	1530.8	1468.5	1367.3	1335.3	1296.5	1353.8
15°	1433.1	1390.9	1286.4	1192.0	1095.9	1077.3	976.2	893.5	784.0	768.8	763.7
17.5°	1008.2	945.8	944.1	890.2	834.5	797.5	703.0	608.6	566.5	561.4	561.4
20°	755.3	733.4	698.0	691.2	674.4	632.2	547.9	497.4	477.1	478.8	485.6
22.5°	635.6	620.4	588.4	573.2	566.5	529.4	467.0	433.3	423.2	423.2	424.9
25°	568.2	554.7	519.3	495.7	487.2	460.3	411.4	386.1	377.7	377.7	377.7
27.5°	517.6	500.7	463.6	443.4	428.2	397.9	367.5	342.2	333.8	333.8	335.5
30°	482.2	463.6	429.9	402.9	379.3	352.4	327.1	305.2	295.0	293.4	295.0
32.5°	435.0	418.1	384.4	367.5	340.6	308.5	288.3	268.1	257.9	259.6	257.9
35°	338.9	333.8	310.2	315.3	300.1	273.1	254.6	232.7	220.9	219.2	222.5
37.5°	308.5	288.3	261.3	263.0	257.9	247.8	217.5	193.9	185.5	185.5	187.1
40°	284.9	264.7	234.3	219.2	220.9	220.9	188.8	163.5	155.1	153.4	156.8
42.5°	264.7	244.5	210.7	185.5	178.7	187.1	160.2	134.9	126.4	123.1	126.4
45°	251.2	229.3	190.5	161.9	141.6	151.7	131.5	111.3	101.2	101.2	99.5
47.5°	237.7	217.5	175.3	139.9	118.0	113.0	107.9	89.4	79.2	77.6	79.2
50°	225.9	205.7	158.5	121.4	99.5	87.7	87.7	70.8	64.1	60.7	62.4
52.5°	214.1	192.2	143.3	107.9	86.0	70.8	62.4	57.3	52.3	50.6	52.3
55°	197.3	175.3	128.1	92.7	74.2	59.0	48.9	47.2	43.8	40.5	43.8
57.5°	177.0	156.8	113.0	79.2	59.0	45.5	40.5	38.8	35.4	33.7	33.7
59°	165.2	146.7	104.5	69.1	52.3	40.5	37.1	35.4	32.0	28.7	30.3
60°	158.5	143.3	99.5	64.1	47.2	37.1	33.7	32.0	28.7	27.0	28.7
62.5°	139.9	128.1	87.7	52.3	37.1	27.0	23.6	25.3	23.6	21.9	23.6
65°	123.1	113.0	74.2	40.5	28.7	18.5	16.9	21.9	20.2	18.5	20.2
67.5°	109.6	97.8	62.4	30.3	20.2	10.1	11.8	18.5	18.5	16.9	18.5
70°	94.4	84.3	50.6	21.9	10.1	5.1	8.4	13.5	16.9	15.2	16.9
72.5°	77.6	65.8	38.8	15.2	5.1	0.0	5.1	11.8	16.9	15.2	16.9
75°	60.7	48.9	28.7	8.4	0.0	0.0	1.7	10.1	16.9	15.2	16.9
77.5°	43.8	35.4	16.9	1.7	0.0	0.0	1.7	10.1	16.9	15.2	16.9
80°	28.7	25.3	6.7	0.0	0.0	0.0	1.7	10.1	16.9	16.9	18.5
82.5°	18.5	13.5	0.0	0.0	0.0	0.0	3.4	13.5	18.5	20.2	20.2
85°	8.4	0.0	0.0	0.0	0.0	0.0	6.7	16.9	21.9	21.9	21.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	11.8	20.2	25.3	25.3	25.3
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°	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5
2.5°	6028.9	6135.1	6285.2	6516.2	6703.3	6998.3	7224.3	7532.8	7844.7	7939.1	8085.8
5°	4437.4	4574.0	4914.5	5224.7	5420.3	6044.1	6438.6	7060.7	7618.8	7886.8	8178.5
7.5°	3081.9	3243.8	3503.4	3936.7	4348.0	4855.5	5492.8	6204.3	7021.9	7404.7	7816.0
10°	2163.1	2365.4	2731.2	3087.0	3604.5	4086.7	4715.6	5501.2	6403.2	6855.0	7370.9
12.5°	1365.6	1546.0	2029.9	2429.4	3075.2	3634.9	4214.9	4926.3	5971.6	6435.2	6976.4
15°	780.6	932.3	1158.2	1670.8	2387.3	3127.4	3850.7	4676.8	5750.7	6322.3	6907.3
17.5°	581.7	622.1	723.3	1013.3	1665.7	2530.6	3515.2	4600.9	5900.8	6571.8	7239.4
20°	488.9	515.9	563.1	677.7	1062.1	1948.9	3188.1	4614.4	6386.3	7229.3	7863.2
22.5°	438.3	455.2	494.0	568.2	725.0	1419.6	2805.4	4693.7	6974.7	8036.9	8768.6
25°	384.4	406.3	440.0	504.1	603.6	984.6	2427.8	4870.7	7799.2	9061.9	9749.8
27.5°	342.2	362.5	396.2	455.2	529.4	751.9	1987.7	5022.4	8669.1	10093.7	10656.8
30°	300.1	320.3	354.0	401.3	468.7	608.6	1514.0	5111.8	9513.8	10867.6	11300.9
32.5°	264.7	281.6	313.6	355.7	411.4	515.9	1193.6	5019.0	10159.5	11570.6	11860.6
35°	229.3	249.5	276.5	315.3	364.2	440.0	993.0	4698.7	10714.2	12293.9	12398.4
37.5°	192.2	215.8	244.5	279.9	318.6	404.6	797.5	4344.7	11307.6	13195.9	13023.9
40°	161.9	183.8	210.7	249.5	284.9	370.9	613.7	3967.0	11948.3	14042.2	13706.7
42.5°	131.5	155.1	187.1	222.5	281.6	323.7	475.4	3575.9	12523.2	14779.0	14323.8
45°	104.5	124.8	158.5	204.0	279.9	278.2	367.5	3189.8	12956.5	15305.0	14784.0
47.5°	82.6	99.5	133.2	198.9	257.9	236.0	295.0	2950.4	13411.7	15778.7	15136.4
50°	65.8	82.6	114.6	207.4	225.9	202.3	247.8	2989.2	13851.7	16019.8	15281.4
52.5°	55.6	72.5	99.5	163.5	173.7	177.0	217.5	3167.9	14419.9	16277.8	15569.7
55°	48.9	64.1	84.3	114.6	134.9	158.5	198.9	3297.7	15180.2	16830.8	16205.3
57.5°	38.8	55.6	75.9	97.8	111.3	138.2	183.8	3307.8	15868.1	17540.5	17049.9
59°	35.4	50.6	70.8	92.7	99.5	124.8	173.7	3221.8	15893.4	17646.8	17437.7
60°	32.0	48.9	67.4	86.0	94.4	118.0	165.2	3122.4	15664.1	17478.2	17597.9
62.5°	27.0	42.1	59.0	69.1	80.9	97.8	143.3	2761.6	14553.1	16714.4	17301.1
65°	23.6	37.1	50.6	57.3	67.4	84.3	126.4	2210.3	13325.7	15679.3	16451.4
67.5°	21.9	33.7	43.8	48.9	59.0	77.6	113.0	1561.2	11735.8	14365.9	15175.2
70°	20.2	32.0	38.8	45.5	52.3	65.8	96.1	910.4	9040.0	12062.9	12917.7
72.5°	20.2	30.3	33.7	38.8	45.5	59.0	89.4	492.3	6180.7	9201.9	10306.2
75°	20.2	28.7	30.3	33.7	40.5	54.0	79.2	257.9	3995.7	6393.1	7890.2
77.5°	20.2	27.0	30.3	32.0	38.8	47.2	69.1	161.9	2662.1	4477.9	5332.6
80°	21.9	27.0	28.7	32.0	37.1	43.8	57.3	107.9	1564.6	2694.1	3245.4
82.5°	23.6	27.0	30.3	33.7	38.8	42.1	50.6	67.4	721.6	1782.0	2016.4
85°	25.3	28.7	32.0	35.4	40.5	42.1	47.2	48.9	118.0	804.2	1087.4
87.5°	27.0	30.3	33.7	37.1	43.8	43.8	43.8	43.8	40.5	86.0	219.2
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: P456700

CATALOG NUMBER: GALN-SA8A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5	7330.5
2.5°	8271.2	8461.7	8594.9	8628.7	8532.6	8488.7	8367.3	8178.5	8063.9	8058.8
5°	8716.3	9163.1	9473.3	9525.6	9340.1	9026.5	8653.9	8173.4	7891.9	7807.6
7.5°	8640.5	9422.7	9921.8	9994.3	9682.4	9083.9	8362.3	7588.4	7281.6	7151.8
10°	8328.6	9282.8	9996.0	10110.6	9694.2	8851.2	7934.0	7070.8	6689.8	6590.3
12.5°	8062.2	9026.5	9660.4	9818.9	9503.7	8662.4	7677.8	6738.7	6330.7	6238.0
15°	7945.8	8723.1	9110.8	9191.8	9139.5	8544.4	7650.8	6688.1	6221.1	6120.0
17.5°	8062.2	8465.1	8514.0	8596.6	8712.9	8532.6	7910.4	6962.9	6458.8	6334.1
20°	8367.3	8240.9	8038.6	8074.0	8340.4	8581.4	8372.4	7571.6	6957.9	6824.7
22.5°	8886.6	8185.2	7726.7	7696.3	8033.5	8745.0	9050.1	8396.0	7684.5	7553.0
25°	9523.9	8325.2	7612.0	7546.3	7913.8	8984.4	9786.9	9405.9	8628.7	8428.0
27.5°	10218.5	8615.2	7612.0	7548.0	7903.7	9196.8	10417.4	10299.4	9606.5	9387.3
30°	10599.5	8854.6	7721.6	7649.1	8028.5	9319.9	10754.6	11093.5	10341.6	10070.1
32.5°	10940.1	9186.7	7935.7	7799.2	8289.8	9502.0	11056.4	11767.9	10926.6	10744.5
35°	11253.7	9542.4	8230.8	8072.3	8633.7	9751.5	11390.2	12476.0	11740.9	11466.1
37.5°	11599.3	9955.5	8691.0	8556.2	9208.6	10237.0	11786.4	13406.6	12541.7	12196.1
40°	11975.2	10434.3	9448.0	9390.7	10122.4	10786.7	12287.1	14399.6	13455.5	13062.7
42.5°	12358.0	10985.6	10375.3	10469.7	11157.6	11557.1	12801.4	15163.4	14204.1	13770.8
45°	12705.3	11690.3	11580.7	12047.7	12364.7	12309.1	13182.4	15701.2	14856.5	14441.8
47.5°	13143.6	12717.1	13039.1	13759.0	13767.4	13126.7	13470.7	16141.2	15417.9	15003.2
50°	13634.2	13929.3	14922.3	15655.7	15458.4	13930.9	13807.9	16662.2	15997.9	15665.8
52.5°	14202.4	15286.4	16662.2	17476.5	17016.2	14807.6	14369.3	17225.3	16918.4	16599.8
55°	14863.3	16212.0	18397.0	19046.1	18582.5	15896.7	15222.4	17989.0	17958.7	17741.2
57.5°	15610.1	17189.9	19401.8	20280.2	19867.1	17174.7	16414.3	18708.9	18594.3	18472.9
59°	16200.2	17692.3	19845.2	20755.6	20506.1	18069.9	17215.2	19157.4	18740.9	18558.9
60°	16557.6	18032.8	20008.8	20819.7	20762.4	18602.7	17722.6	19376.5	18739.2	18486.4
62.5°	17618.1	18628.0	19946.4	20534.8	20759.0	19624.4	19211.3	19617.6	18391.9	18021.0
65°	17995.7	18430.7	18912.9	18840.4	19032.6	19572.1	20162.2	19352.9	17650.1	17122.4
67.5°	17260.7	16267.7	16437.9	15954.1	15859.7	17400.6	19776.1	18058.1	16198.5	15552.8
70°	14549.7	12462.5	12376.5	12599.0	11988.7	14087.7	17758.0	15564.6	13802.8	13071.1
72.5°	11452.6	8807.4	8082.4	8901.8	8883.2	10747.9	14752.0	11044.6	9324.9	9262.6
75°	9006.3	6131.8	5381.5	5514.7	5771.0	7780.6	11749.3	7013.5	5742.3	5233.2
77.5°	6045.8	4344.7	4053.0	3889.5	4166.0	4995.4	7433.3	3803.5	3220.1	3049.9
80°	3484.8	3156.1	3584.3	3253.9	3402.2	3147.7	3697.3	1745.0	1448.2	1567.9
82.5°	2267.6	1797.2	1915.2	1422.9	1945.6	1962.4	1186.9	515.9	436.7	463.6
85°	1417.9	843.0	473.7	337.2	671.0	1234.1	370.9	32.0	37.1	32.0
87.5°	367.5	139.9	59.0	87.7	107.9	96.1	86.0	5.1	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)