

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: P455799

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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 III - Short
BUG Rating: B2 - U0 - G3

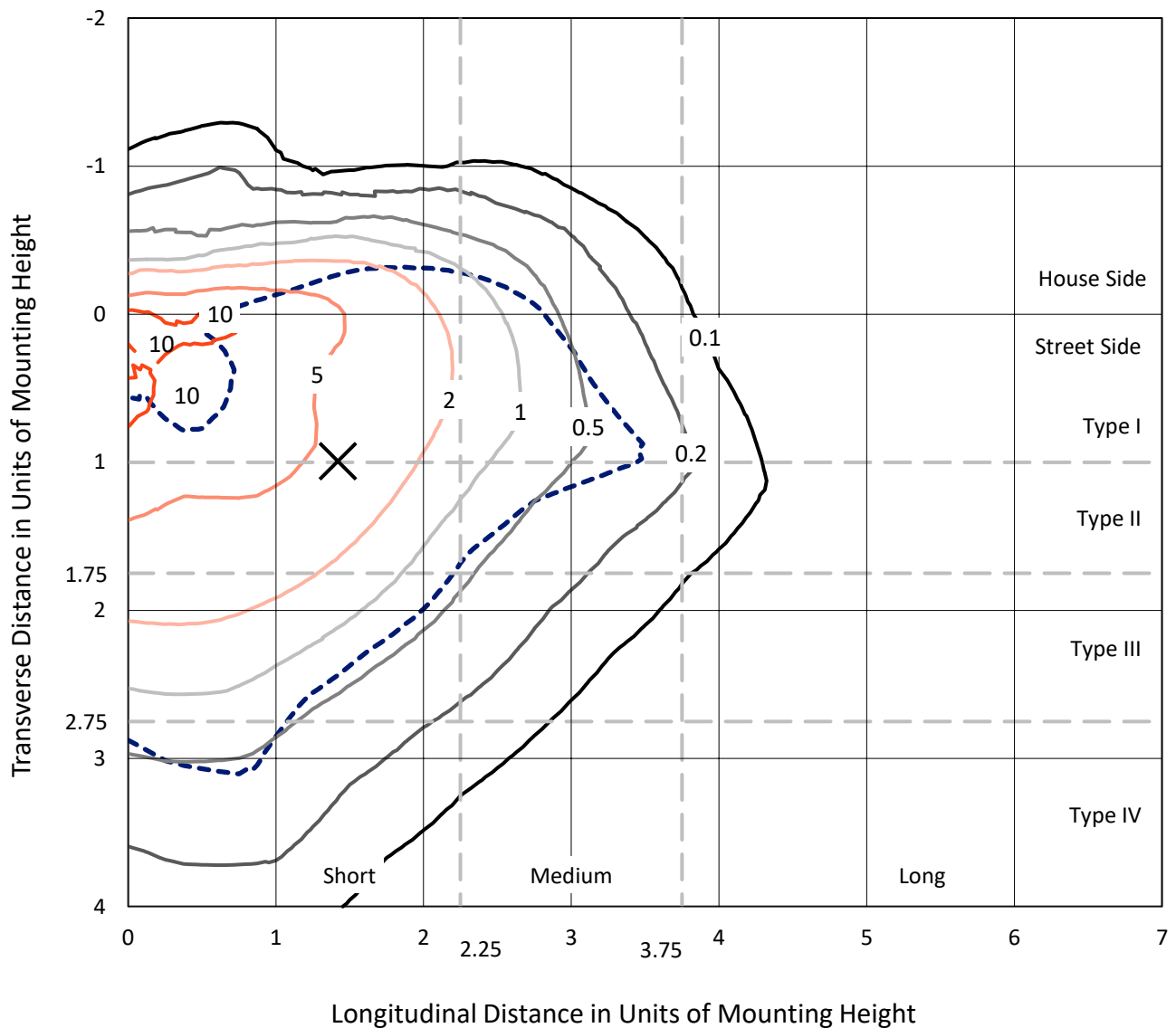
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

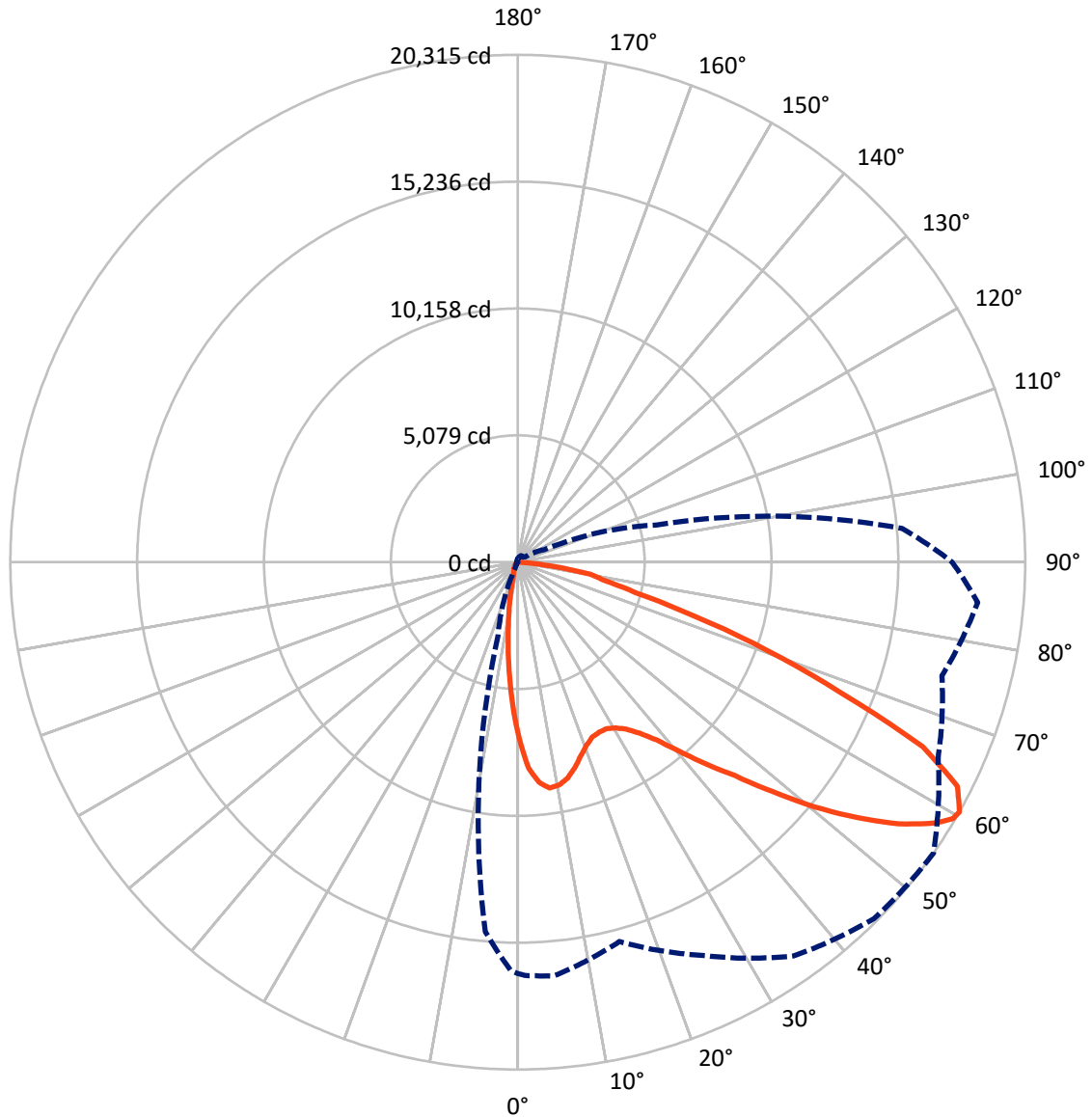
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3091.8	0.0	3091.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17741.2	0.0	17741.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	20833.0	0.0	20833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	2.5
10°-20°	1028.6	4.9
20°-30°	1522.6	7.3
30°-40°	2269.6	10.9
40°-50°	3323.8	16.0
50°-60°	4798.5	23.0
60°-70°	5047.8	24.2
70°-80°	2076.5	10.0
80°-90°	243.2	1.2
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°	20833.0	100.0
0°-180°	20833.0	100.0

Coefficient of Utilization



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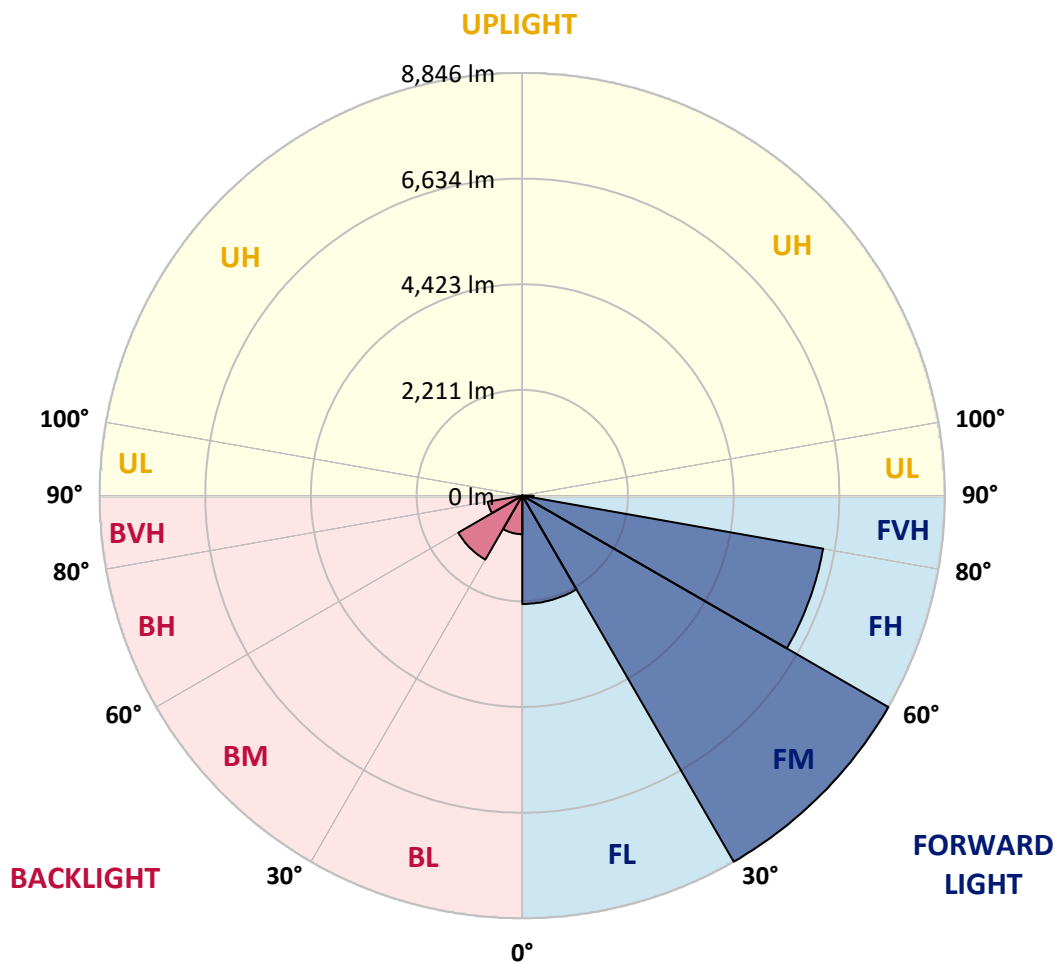
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2266.9	10.9			
FM	(30°-60°)	8845.7	42.5			
FH	(60°-80°)	6392.5	30.7			G3/7500
FVH	(80°-90°)	236.0	1.1			G3/500
BL	(0°-30°)	806.7	3.9	B2/1000		
BM	(30°-60°)	1546.2	7.4	B2/2500		
BH	(60°-80°)	731.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0
2.5°	7706.6	7693.8	7807.7	7993.7	8181.3	8279.1	8259.9	8251.8	8096.3	7982.4	7743.5
5°	7690.6	7756.3	7960.0	8463.5	8845.2	9029.6	9084.1	8854.8	8551.7	8112.3	7570.3
7.5°	7230.4	7312.2	7644.1	8431.4	9109.7	9510.6	9496.2	9129.0	8503.6	7823.7	7050.8
10°	6659.5	6755.7	7145.4	8101.1	8981.5	9510.6	9539.5	9074.5	8296.7	7424.4	6611.4
12.5°	6257.0	6370.9	6802.2	7793.2	8651.1	9172.3	9206.0	8869.2	8141.2	7270.5	6372.5
15°	6120.7	6228.2	6665.9	7637.7	8300.0	8580.6	8572.6	8537.3	8080.3	7307.4	6385.3
17.5°	6354.9	6443.0	6936.9	7708.2	7971.2	7942.4	7984.1	8154.0	8093.1	7616.8	6789.4
20°	6959.4	7049.2	7580.0	7924.7	7719.5	7536.7	7555.9	7839.7	8211.8	8198.9	7421.2
22.5°	7791.6	7944.0	8425.0	8344.9	7685.8	7284.9	7244.8	7613.6	8413.8	8869.2	8274.3
25°	8845.2	8999.1	9374.3	9015.1	7851.0	7225.6	7188.7	7544.7	8659.1	9523.5	9234.8
27.5°	9730.3	9847.4	10221.0	9667.8	8094.7	7251.2	7190.3	7554.3	8858.0	10079.9	10044.6
30°	10439.1	10525.7	10745.4	9972.4	8304.8	7363.5	7292.9	7695.4	8946.2	10350.9	10700.5
32.5°	11009.9	11155.9	11224.8	10298.0	8606.2	7575.1	7454.9	7966.4	9161.1	10686.0	11388.4
35°	11662.6	11831.0	11742.8	10609.1	9003.9	7905.5	7758.0	8405.8	9486.6	10995.5	12186.9
37.5°	12490.0	12684.0	12339.3	10936.2	9424.0	8402.6	8333.6	9023.1	9980.5	11438.1	13043.2
40°	13346.3	13458.6	12918.2	11333.9	9940.4	9125.8	9191.5	9940.4	10626.7	11968.9	13954.1
42.5°	14015.0	14120.8	13513.1	11667.4	10467.9	9983.7	10257.9	11046.8	11367.5	12512.5	14634.0
45°	14526.5	14616.3	13925.2	12031.4	11179.9	11226.4	11744.4	12186.9	12110.0	12844.4	15158.3
47.5°	14924.2	15001.2	14242.7	12422.7	12246.3	12746.6	13538.7	13726.3	12879.7	13203.6	15633.0
50°	15087.8	15110.2	14342.1	12921.4	13457.0	14683.7	15509.5	15395.6	13761.6	13602.9	16138.1
52.5°	15301.0	15296.2	14625.9	13396.0	14595.5	16415.5	17239.7	16981.5	14759.0	14201.0	16705.7
55°	15860.7	15867.1	15233.7	14069.5	15565.6	17813.8	18695.7	18508.1	15811.0	15211.2	17368.0
57.5°	16540.6	16564.6	16098.0	14856.8	16492.5	18827.2	19782.9	19710.8	17233.3	16335.3	17993.4
59°	16628.8	16676.9	16506.9	15411.7	17042.5	19138.3	20155.0	20225.5	17995.0	17076.2	18331.7
60°	16468.4	16548.6	16625.6	15726.0	17364.8	19250.6	20177.4	20315.3	18567.5	17579.7	18485.7
62.5°	15769.3	15895.9	16282.4	16692.9	17767.3	18901.0	19460.6	19749.3	19276.2	18902.6	18500.1
65°	14853.6	14919.4	15477.4	16864.5	16986.4	17268.6	17441.8	17812.2	18424.7	19412.5	17837.8
67.5°	13352.7	13546.8	14229.9	15868.7	14682.1	14348.5	14305.2	13936.4	15527.1	18197.0	16205.4
70°	11030.8	11117.4	11959.2	13009.6	11080.5	10567.4	10772.6	10634.7	12036.2	15665.0	13043.2
72.5°	8341.6	8537.3	9359.9	10370.1	7539.9	6874.4	7440.5	7389.1	9040.8	12589.4	8960.6
75°	5934.7	6061.4	7110.1	8115.5	5280.5	4473.9	4677.5	4868.4	6311.6	9940.4	5294.9
77.5°	4077.8	4186.9	4974.2	5367.1	3851.7	3689.8	3375.5	3559.9	4135.5	5897.8	2881.6
80°	2459.8	2455.0	2973.0	3069.2	2682.7	3115.7	2613.8	2934.5	2499.9	2524.0	1116.1
82.5°	1597.1	1581.1	1818.4	1982.0	1492.9	1569.9	1053.5	1518.6	1629.2	704.0	352.8
85°	715.2	745.6	873.9	1152.9	654.2	348.0	214.9	466.6	694.3	354.4	0.0
87.5°	73.8	57.7	153.9	280.6	89.8	9.6	32.1	16.0	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°	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0
2.5°	7632.9	7539.9	7262.5	7002.7	6779.8	6507.2	6330.8	6053.4	5885.0	5833.7	5841.7
5°	7326.6	7058.8	6531.2	6109.5	5639.7	5371.9	4964.6	4573.3	4361.6	4283.1	4247.8
7.5°	6685.2	6398.1	5761.5	5099.3	4595.8	4125.9	3822.9	3478.1	3242.4	3048.3	3014.7
10°	6208.9	5832.1	5043.2	4331.2	3933.5	3580.7	3277.6	2932.9	2655.5	2434.2	2373.2
12.5°	5923.5	5501.8	4621.4	4024.9	3648.1	3285.7	2891.2	2491.9	2208.1	1969.2	1858.5
15°	5872.2	5383.1	4502.8	3805.2	3340.2	2902.4	2378.1	1946.7	1654.9	1428.8	1359.8
17.5°	6181.7	5596.4	4485.1	3575.9	2937.7	2317.1	1771.9	1414.3	1085.6	958.9	909.2
20°	6733.3	5973.2	4483.5	3309.7	2524.0	1784.7	1244.4	922.0	788.9	728.0	699.1
22.5°	7485.3	6486.3	4568.5	3080.4	2094.2	1316.5	888.4	734.4	657.5	607.7	596.5
25°	8404.2	7246.4	4777.0	2924.9	1765.5	1032.7	732.8	628.6	564.4	542.0	532.4
27.5°	9220.4	7974.4	5006.3	2764.5	1529.8	914.0	679.9	575.7	524.4	506.7	492.3
30°	9924.3	8635.1	5116.9	2552.8	1340.6	837.1	689.5	615.8	548.4	495.5	471.4
32.5°	10511.2	9141.8	5189.1	2360.4	1180.2	684.7	545.2	476.3	445.8	426.5	410.5
35°	11245.7	9690.2	5145.8	2251.4	1098.4	623.8	497.1	410.5	359.2	320.7	304.7
37.5°	12015.4	10238.6	5070.4	2161.6	1061.5	578.9	473.0	389.7	333.5	293.4	272.6
40°	12812.3	10747.0	4982.2	2078.2	1027.9	550.0	458.6	372.0	315.9	272.6	250.2
42.5°	13541.9	11242.5	4946.9	2023.7	973.4	554.8	447.4	364.0	298.3	253.4	234.1
45°	14132.0	11712.3	4995.0	1994.8	914.0	546.8	450.6	354.4	283.8	240.5	221.3
47.5°	14762.2	12376.2	5150.6	1965.9	856.3	508.3	474.6	352.8	277.4	232.5	211.7
50°	15495.1	13226.0	5506.6	1895.4	785.7	466.6	505.1	351.2	269.4	222.9	202.0
52.5°	16471.6	14191.4	5873.8	1771.9	683.1	426.5	482.7	346.4	253.4	211.7	190.8
55°	17348.8	15208.0	6184.9	1626.0	553.2	368.8	434.6	325.5	226.1	192.4	173.2
57.5°	17711.2	15782.1	6175.3	1423.9	442.6	323.9	357.6	298.3	197.2	170.0	153.9
59°	17578.1	15709.9	5968.4	1274.8	404.1	299.9	296.7	295.1	184.4	153.9	141.1
60°	17390.4	15447.0	5745.5	1201.1	380.0	283.8	272.6	291.8	173.2	144.3	131.5
62.5°	16672.1	14356.5	5006.3	1076.0	348.0	240.5	218.1	246.9	153.9	125.1	113.9
65°	15631.4	12680.8	4238.2	1040.7	338.3	198.8	181.2	176.4	131.5	105.8	96.2
67.5°	13601.3	10730.9	3433.2	1016.6	341.6	166.8	158.8	133.1	109.0	88.2	81.8
70°	10889.7	8367.3	2811.0	989.4	344.8	136.3	133.1	105.8	88.2	73.8	67.3
72.5°	6616.2	4959.8	2212.9	859.5	335.1	109.0	118.7	80.2	64.1	52.9	49.7
75°	4090.6	3394.7	1372.6	668.7	221.3	80.2	83.4	49.7	43.3	33.7	33.7
77.5°	2370.0	2143.9	490.7	240.5	97.8	48.1	36.9	25.7	24.1	14.4	14.4
80°	983.0	787.3	170.0	81.8	52.9	22.4	8.0	1.6	0.0	0.0	0.0
82.5°	287.0	255.0	46.5	36.9	16.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0
2.5°	5705.4	5652.5	5628.4	5710.2	5634.9	5731.1	5657.3	5689.4	5784.0	5825.7	5933.1
5°	4270.2	4215.7	4190.1	4313.5	4307.1	4368.1	4361.6	4417.8	4465.9	4358.4	4469.1
7.5°	2974.6	2937.7	2998.6	3094.8	3197.5	3163.8	3163.8	3088.4	3114.1	3098.0	3093.2
10°	2262.6	2135.9	2103.9	2100.6	2139.1	2147.1	2103.9	1999.6	2038.1	2049.3	2116.7
12.5°	1779.9	1682.1	1533.0	1465.6	1448.0	1462.4	1319.7	1228.3	1271.6	1246.0	1311.7
15°	1276.4	1196.2	1108.0	1032.7	1011.8	983.0	827.4	718.4	705.6	710.4	721.6
17.5°	910.8	856.3	856.3	776.1	732.8	646.2	567.7	519.5	514.7	519.5	527.6
20°	671.9	643.0	639.8	619.0	570.9	513.1	458.6	449.0	445.8	453.8	457.0
22.5°	578.9	548.4	522.8	521.2	476.3	428.1	402.5	389.7	391.3	394.5	402.5
25°	517.9	485.9	458.6	442.6	410.5	376.8	352.8	346.4	346.4	351.2	352.8
27.5°	474.6	434.6	410.5	388.1	359.2	330.3	309.5	304.7	301.5	304.7	312.7
30°	444.2	404.1	373.6	340.0	317.5	290.2	272.6	266.2	264.6	266.2	272.6
32.5°	380.0	356.0	331.9	301.5	274.2	256.6	237.3	226.1	226.1	229.3	235.7
35°	287.0	274.2	272.6	264.6	242.1	222.9	200.4	189.2	189.2	195.6	198.8
37.5°	253.4	229.3	226.1	222.9	213.3	187.6	166.8	157.1	155.5	160.4	166.8
40°	230.9	203.7	189.2	186.0	187.6	158.8	136.3	126.7	126.7	128.3	134.7
42.5°	213.3	181.2	155.5	152.3	158.8	133.1	110.6	101.0	101.0	101.0	109.0
45°	198.8	162.0	131.5	115.5	125.1	109.0	89.8	80.2	77.0	80.2	83.4
47.5°	189.2	147.5	115.5	93.0	93.0	86.6	72.2	60.9	57.7	59.3	64.1
50°	181.2	134.7	97.8	75.4	67.3	69.0	54.5	46.5	43.3	43.3	48.1
52.5°	168.4	121.9	85.0	64.1	51.3	46.5	40.1	33.7	32.1	33.7	36.9
55°	152.3	110.6	73.8	52.9	40.1	32.1	28.9	24.1	22.4	24.1	28.9
57.5°	134.7	93.0	59.3	41.7	27.3	20.8	19.2	16.0	12.8	14.4	17.6
59°	123.5	83.4	51.3	33.7	20.8	14.4	14.4	11.2	8.0	9.6	14.4
60°	118.7	77.0	43.3	28.9	17.6	11.2	11.2	8.0	4.8	6.4	11.2
62.5°	101.0	64.1	33.7	17.6	8.0	1.6	4.8	1.6	0.0	1.6	4.8
65°	85.0	51.3	22.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	70.6	38.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	56.1	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	38.5	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P455799

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0	7054.0
2.5°	5939.5	6168.8	6310.0	6576.1	6848.7	7058.8	7321.8	7557.5	7655.3	7706.6
5°	4581.3	4900.4	5171.4	5577.1	5954.0	6412.6	6877.6	7426.0	7636.1	7690.6
7.5°	3215.1	3540.6	3824.5	4294.3	4831.5	5445.6	6141.6	6837.5	7143.8	7230.4
10°	2321.9	2669.9	3016.3	3486.1	3988.0	4653.5	5378.3	6239.4	6592.2	6659.5
12.5°	1465.6	1839.3	2402.1	2982.6	3513.4	4049.0	4807.4	5743.9	6133.6	6257.0
15°	849.9	1128.9	1553.8	2310.7	2985.8	3694.6	4522.0	5557.9	5994.1	6120.7
17.5°	569.3	665.5	957.3	1536.2	2427.8	3367.4	4449.8	5710.2	6192.9	6354.9
20°	479.5	522.8	625.4	936.5	1869.7	3075.6	4469.1	6123.9	6757.3	6959.4
22.5°	421.7	461.8	527.6	673.5	1305.3	2713.2	4560.5	6715.6	7533.5	7791.6
25°	372.0	412.1	469.8	558.0	877.1	2294.7	4760.9	7581.6	8561.3	8845.2
27.5°	330.3	367.2	416.9	492.3	675.1	1828.0	4938.9	8425.0	9499.4	9730.3
30°	291.8	322.3	370.4	428.1	561.2	1409.5	5028.7	9162.7	10182.5	10439.1
32.5°	253.4	282.2	328.7	375.2	461.8	1074.4	4966.2	9704.7	10846.4	11009.9
35°	216.5	246.9	285.4	328.7	399.3	867.5	4653.5	10314.0	11534.3	11662.6
37.5°	186.0	211.7	251.8	285.4	360.8	694.3	4275.1	10862.4	12305.6	12490.0
40°	157.1	182.8	222.9	253.4	331.9	546.8	3933.5	11471.8	13118.6	13346.3
42.5°	128.3	158.8	194.0	243.7	285.4	416.9	3519.8	11965.7	13729.6	14015.0
45°	102.6	136.3	174.8	242.1	248.5	317.5	3120.5	12350.5	14270.0	14526.5
47.5°	81.8	115.5	168.4	226.1	203.7	251.8	2892.8	12753.0	14718.9	14924.2
50°	65.7	96.2	176.4	198.8	170.0	213.3	2886.4	13202.0	14951.5	15087.8
52.5°	52.9	78.6	149.1	152.3	144.3	187.6	3059.6	13707.1	15188.8	15301.0
55°	44.9	65.7	97.8	112.2	129.9	170.0	3189.5	14484.8	15754.8	15860.7
57.5°	35.3	56.1	75.4	89.8	115.5	155.5	3207.1	15084.6	16471.6	16540.6
59°	30.5	48.1	67.3	80.2	105.8	145.9	3134.9	15121.4	16518.1	16628.8
60°	25.7	43.3	59.3	75.4	97.8	137.9	3056.4	14853.6	16344.9	16468.4
62.5°	19.2	33.7	43.3	60.9	80.2	118.7	2684.3	13918.8	15682.7	15769.3
65°	12.8	24.1	32.1	44.9	62.5	102.6	2187.2	12706.5	14659.6	14853.6
67.5°	8.0	17.6	25.7	33.7	51.3	86.6	1558.6	10896.1	13227.6	13352.7
70°	4.8	11.2	19.2	27.3	40.1	69.0	925.2	8612.6	11005.1	11030.8
72.5°	3.2	8.0	12.8	19.2	32.1	62.5	449.0	5614.0	8035.4	8341.6
75°	1.6	4.8	8.0	14.4	25.7	51.3	214.9	3750.7	5846.5	5934.7
77.5°	0.0	1.6	4.8	9.6	19.2	40.1	125.1	2463.0	3986.4	4077.8
80°	0.0	0.0	3.2	8.0	14.4	25.7	75.4	1452.8	2414.9	2459.8
82.5°	0.0	0.0	1.6	6.4	9.6	19.2	38.5	638.2	1581.1	1597.1
85°	0.0	0.0	1.6	6.4	8.0	12.8	14.4	86.6	702.4	715.2
87.5°	0.0	0.0	1.6	8.0	8.0	8.0	8.0	4.8	59.3	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)