

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: P456408

Luminaire Tested: **GALN-SA7C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456408
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-SA7C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 27945 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 377
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

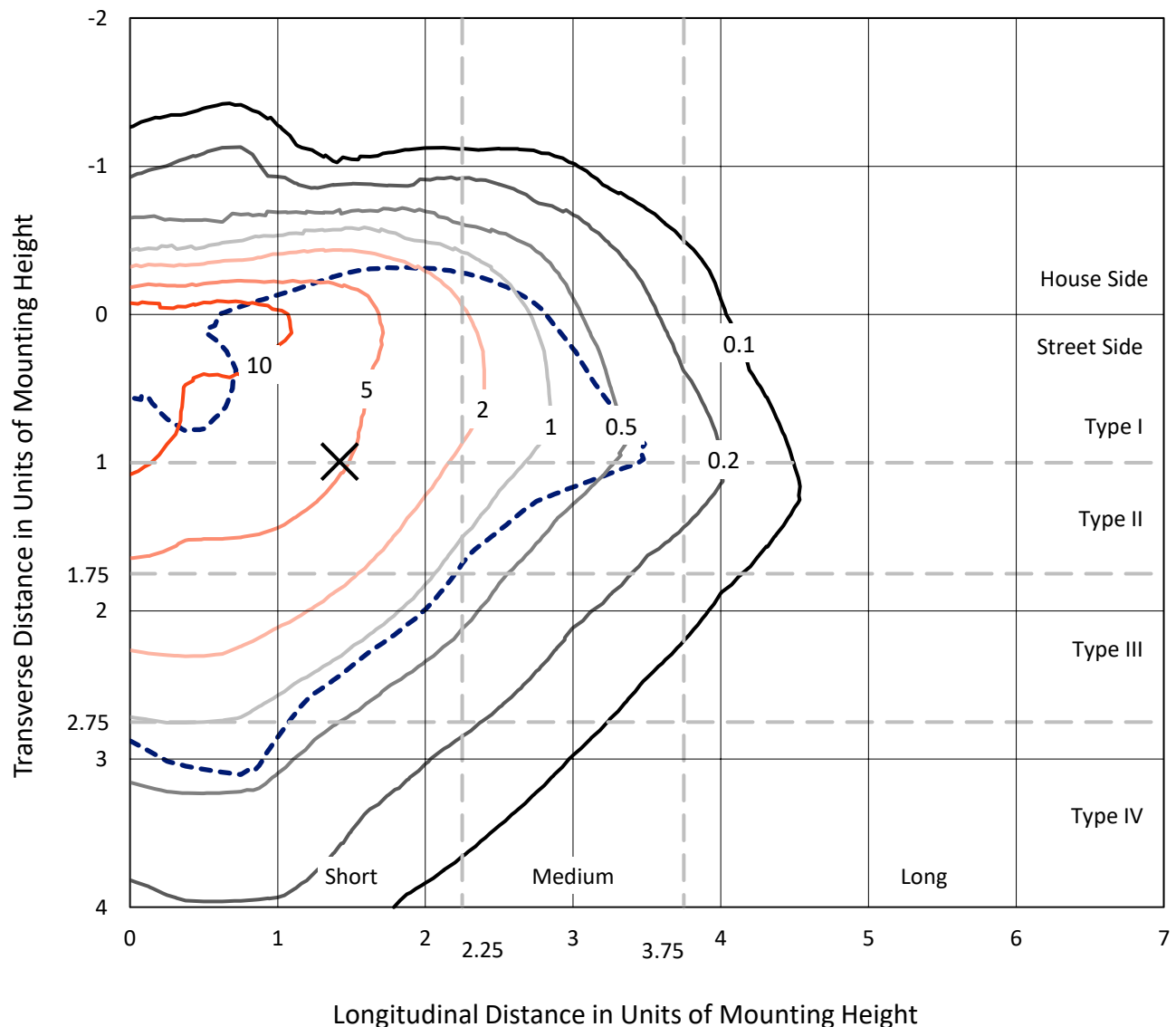


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Iso-Footcandle Lines of Horizontal Illumination

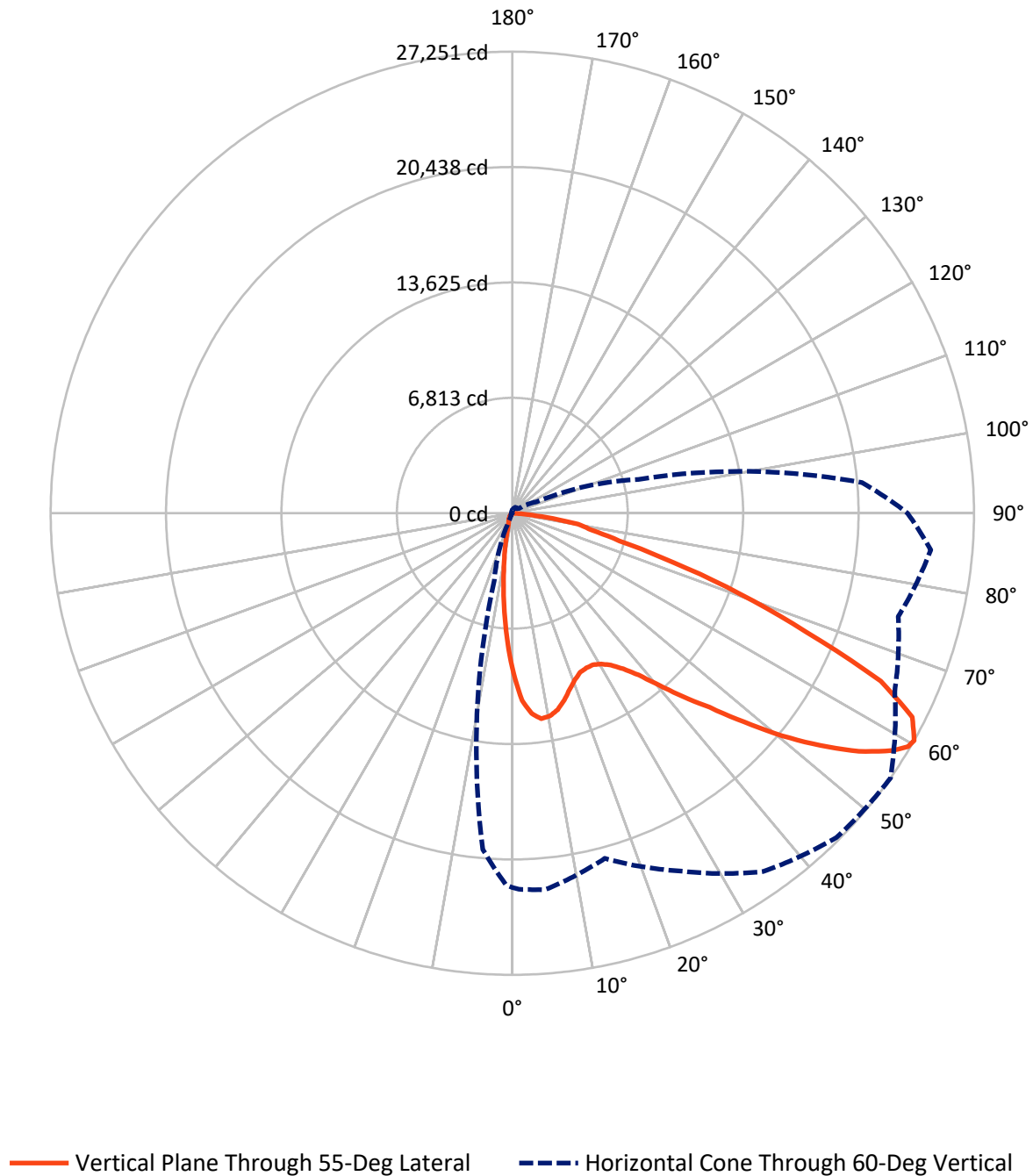
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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	4147.3	0.0	4147.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23797.7	0.0	23797.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	27945.0	0.0	27945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.7	2.5
10°-20°	1379.8	4.9
20°-30°	2042.4	7.3
30°-40°	3044.4	10.9
40°-50°	4458.5	16.0
50°-60°	6436.7	23.0
60°-70°	6771.1	24.2
70°-80°	2785.4	10.0
80°-90°	326.2	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°	27945.0	100.0
0°-180°	27945.0	100.0

Coefficient of Utilization



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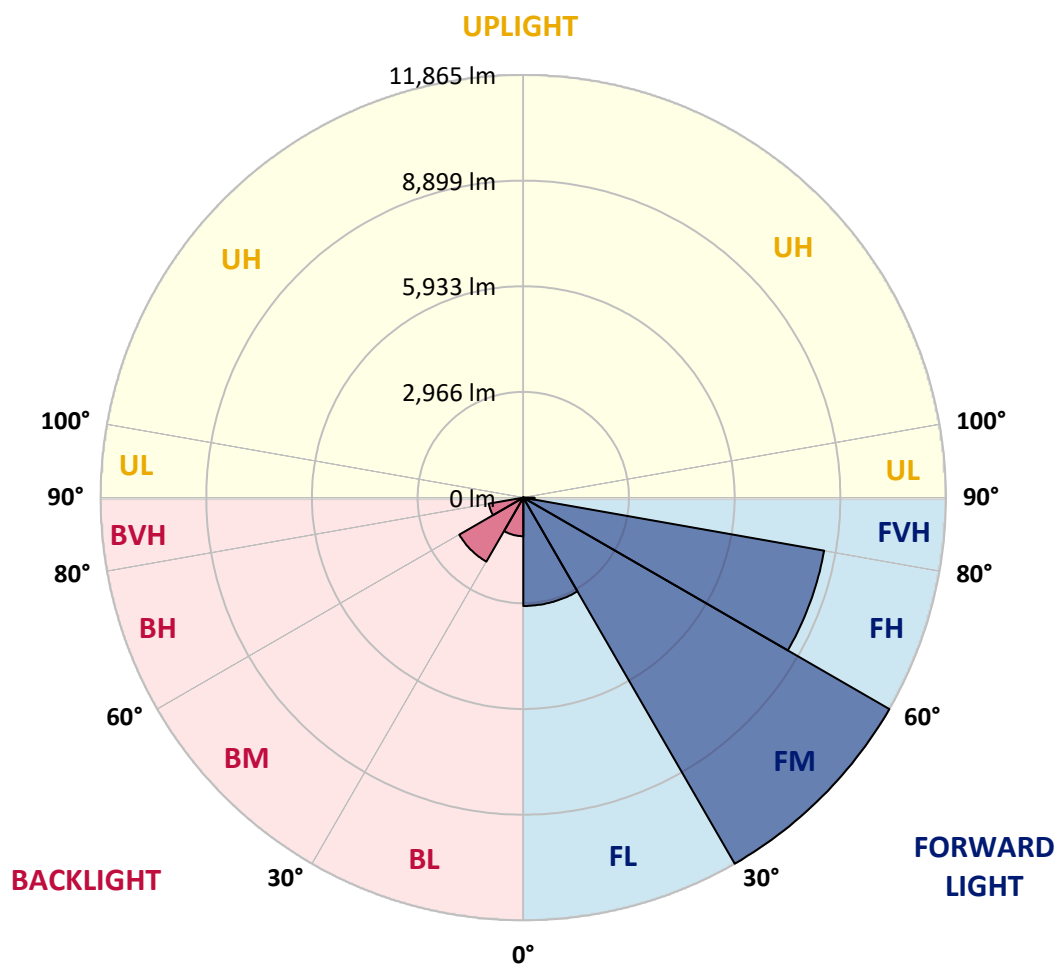
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3040.8	10.9			
FM	(30°-60°)	11865.5	42.5			
FH	(60°-80°)	8574.8	30.7			G4/12000
FVH	(80°-90°)	316.6	1.1			G3/500
BL	(0°-30°)	1082.0	3.9	B3/2500		
BM	(30°-60°)	2074.0	7.4	B2/2500		
BH	(60°-80°)	981.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1
2.5°	10337.5	10320.3	10473.1	10722.6	10974.2	11105.4	11079.6	11068.9	10860.2	10707.5	10387.0
5°	10316.0	10404.2	10677.4	11352.8	11864.7	12112.1	12185.2	11877.6	11471.1	10881.7	10154.7
7.5°	9698.7	9808.4	10253.7	11309.8	12219.6	12757.4	12738.0	12245.4	11406.6	10494.6	9457.8
10°	8933.0	9062.0	9584.7	10866.7	12047.6	12757.4	12796.1	12172.3	11129.1	9959.0	8868.4
12.5°	8393.1	8545.8	9124.4	10453.7	11604.5	12303.5	12348.7	11897.0	10920.5	9752.5	8547.9
15°	8210.2	8354.4	8941.6	10245.1	11133.4	11509.8	11499.1	11451.7	10838.7	9802.0	8565.1
17.5°	8524.3	8642.6	9305.1	10339.7	10692.5	10653.7	10709.7	10937.7	10855.9	10217.1	9107.2
20°	9335.2	9455.6	10167.6	10630.1	10354.8	10109.5	10135.4	10516.1	11015.1	10997.9	9954.7
22.5°	10451.5	10655.9	11301.2	11193.6	10309.6	9771.8	9718.1	10212.8	11286.1	11897.0	11099.0
25°	11864.7	12071.2	12574.5	12092.7	10531.1	9692.3	9642.8	10120.3	11615.2	12774.6	12387.4
27.5°	13052.1	13209.1	13710.3	12968.2	10858.1	9726.7	9644.9	10133.2	11881.9	13521.0	13473.7
30°	14002.8	14118.9	14413.6	13376.9	11139.9	9877.2	9782.6	10322.5	12000.2	13884.5	14353.4
32.5°	14768.5	14964.3	15056.8	13813.5	11544.2	10161.2	9999.8	10686.0	12288.5	14334.0	15276.2
35°	15644.0	15869.8	15751.5	14230.8	12077.7	10604.3	10406.4	11275.4	12725.1	14749.2	16347.3
37.5°	16753.9	17014.1	16551.7	14669.6	12641.2	11271.1	11178.6	12103.5	13387.6	15342.8	17496.0
40°	17902.5	18053.1	17328.2	15203.0	13333.8	12241.1	12329.3	13333.8	14254.5	16054.8	18717.7
42.5°	18799.4	18941.4	18126.2	15650.4	14041.5	13391.9	13759.7	14818.0	15248.2	16784.0	19629.7
45°	19485.6	19606.1	18679.0	16138.7	14996.5	15058.9	15753.7	16347.3	16244.1	17229.2	20333.1
47.5°	20019.0	20122.3	19104.9	16663.5	16426.9	17098.0	18160.6	18412.3	17276.6	17711.1	20969.8
50°	20238.4	20268.6	19238.2	17332.5	18050.9	19696.4	20804.1	20651.4	18459.6	18246.6	21647.3
52.5°	20524.5	20518.1	19619.0	17969.2	19578.1	22019.4	23125.0	22778.7	19797.5	19049.0	22408.8
55°	21275.2	21283.8	20434.2	18872.6	20879.4	23895.1	25078.1	24826.5	21208.5	20404.1	23297.1
57.5°	22187.2	22219.5	21593.5	19928.7	22122.7	25254.5	26536.5	26439.7	23116.4	21911.9	24136.0
59°	22305.5	22370.0	22142.0	20672.9	22860.5	25671.8	27035.5	27130.1	24138.1	22905.6	24589.8
60°	22090.4	22198.0	22301.2	21094.5	23292.8	25822.3	27065.6	27250.6	24906.0	23581.0	24796.3
62.5°	21152.6	21322.5	21840.9	22391.6	23832.7	25353.4	26104.1	26491.3	25856.8	25355.6	24815.7
65°	19924.4	20012.6	20761.1	22621.7	22785.2	23163.8	23396.1	23892.9	24714.6	26039.6	23927.3
67.5°	17911.1	18171.4	19087.7	21286.0	19694.2	19246.8	19188.8	18694.0	20827.8	24409.2	21737.7
70°	14796.5	14912.6	16041.9	17450.8	14863.2	14174.9	14450.2	14265.2	16145.2	21012.8	17496.0
72.5°	11189.3	11451.7	12555.2	13910.3	10113.8	9221.2	9980.5	9911.7	12127.1	16887.2	12019.6
75°	7960.7	8130.7	9537.4	10886.0	7083.1	6001.2	6274.4	6530.3	8466.2	13333.8	7102.5
77.5°	5469.9	5616.2	6672.3	7199.3	5166.6	4949.4	4527.8	4775.1	5547.3	7911.3	3865.3
80°	3299.6	3293.1	3987.9	4116.9	3598.6	4179.3	3506.1	3936.3	3353.4	3385.6	1497.1
82.5°	2142.4	2120.9	2439.2	2658.6	2002.5	2105.8	1413.2	2037.0	2185.4	944.3	473.2
85°	959.3	1000.2	1172.3	1546.5	877.6	466.8	288.2	625.9	931.4	475.4	0.0
87.5°	98.9	77.4	206.5	376.4	120.5	12.9	43.0	21.5	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°	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1
2.5°	10238.6	10113.8	9741.7	9393.3	9094.3	8728.6	8492.0	8119.9	7894.0	7825.2	7836.0
5°	9827.8	9468.6	8760.9	8195.2	7564.9	7205.7	6659.4	6134.6	5850.6	5745.2	5697.9
7.5°	8967.4	8582.4	7728.4	6840.1	6164.7	5534.4	5127.9	4665.4	4349.3	4089.0	4043.8
10°	8328.5	7823.1	6764.8	5809.8	5276.3	4803.1	4396.6	3934.1	3562.0	3265.2	3183.4
12.5°	7945.7	7380.0	6199.1	5398.9	4893.4	4407.3	3878.2	3342.6	2961.9	2641.4	2493.0
15°	7876.8	7220.8	6039.9	5104.2	4480.5	3893.2	3189.9	2611.3	2219.8	1916.5	1824.0
17.5°	8292.0	7506.9	6016.3	4796.7	3940.6	3108.1	2376.8	1897.2	1456.2	1286.3	1219.6
20°	9031.9	8012.3	6014.1	4439.6	3385.6	2394.0	1669.1	1236.8	1058.3	976.5	937.8
22.5°	10040.7	8700.7	6128.1	4132.0	2809.2	1765.9	1191.6	985.1	881.9	815.2	800.2
25°	11273.2	9720.2	6407.7	3923.4	2368.2	1385.2	983.0	843.2	757.1	727.0	714.1
27.5°	12368.1	10696.8	6715.3	3708.3	2052.0	1226.1	912.0	772.2	703.4	679.7	660.3
30°	13312.3	11583.0	6863.7	3424.3	1798.2	1122.8	924.9	826.0	735.6	664.6	632.4
32.5°	14099.6	12262.7	6960.5	3166.2	1583.1	918.5	731.3	638.8	598.0	572.2	550.6
35°	15084.7	12998.3	6902.5	3020.0	1473.4	836.7	666.8	550.6	481.8	430.2	408.7
37.5°	16117.2	13733.9	6801.4	2899.5	1423.9	776.5	634.5	522.7	447.4	393.6	365.7
40°	17186.2	14415.8	6683.1	2787.7	1378.8	737.8	615.2	499.0	423.7	365.7	335.6
42.5°	18164.9	15080.4	6635.7	2714.5	1305.6	744.2	600.1	488.3	400.1	339.9	314.0
45°	18956.5	15710.7	6700.3	2675.8	1226.1	733.5	604.4	475.4	380.7	322.6	296.8
47.5°	19801.8	16601.2	6908.9	2637.1	1148.6	681.9	636.7	473.2	372.1	311.9	283.9
50°	20784.8	17741.2	7386.4	2542.4	1054.0	625.9	677.6	471.1	361.4	299.0	271.0
52.5°	22094.7	19036.0	7879.0	2376.8	916.3	572.2	647.4	464.6	339.9	283.9	256.0
55°	23271.3	20399.8	8296.3	2181.1	742.1	494.7	582.9	436.6	303.3	258.1	232.3
57.5°	23757.4	21169.8	8283.4	1910.1	593.7	434.5	479.7	400.1	264.6	228.0	206.5
59°	23578.9	21073.0	8005.9	1710.0	542.0	402.2	397.9	395.8	247.4	206.5	189.3
60°	23327.2	20720.3	7706.9	1611.1	509.8	380.7	365.7	391.5	232.3	193.6	176.4
62.5°	22363.6	19257.6	6715.3	1443.3	466.8	322.6	292.5	331.2	206.5	167.8	152.7
65°	20967.6	17009.8	5685.0	1396.0	453.9	266.7	243.1	236.6	176.4	142.0	129.1
67.5°	18244.5	14394.3	4605.2	1363.7	458.2	223.7	212.9	178.5	146.3	118.3	109.7
70°	14607.2	11223.7	3770.6	1327.1	462.5	182.8	178.5	142.0	118.3	98.9	90.3
72.5°	8874.9	6652.9	2968.3	1152.9	449.6	146.3	159.2	107.5	86.0	71.0	66.7
75°	5487.1	4553.6	1841.2	897.0	296.8	107.5	111.9	66.7	58.1	45.2	45.2
77.5°	3179.1	2875.8	658.2	322.6	131.2	64.5	49.5	34.4	32.3	19.4	19.4
80°	1318.5	1056.1	228.0	109.7	71.0	30.1	10.8	2.2	0.0	0.0	0.0
82.5°	385.0	342.0	62.4	49.5	21.5	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°	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1
2.5°	7653.1	7582.2	7549.9	7659.6	7558.5	7687.6	7588.6	7631.6	7758.5	7814.5	7958.6
5°	5728.0	5654.9	5620.5	5786.1	5777.5	5859.2	5850.6	5925.9	5990.4	5846.3	5994.7
7.5°	3990.0	3940.6	4022.3	4151.4	4289.0	4243.9	4243.9	4142.8	4177.2	4155.7	4149.2
10°	3035.0	2865.1	2822.1	2817.8	2869.4	2880.1	2822.1	2682.3	2733.9	2748.9	2839.3
12.5°	2387.6	2256.4	2056.3	1966.0	1942.3	1961.7	1770.2	1647.6	1705.7	1671.3	1759.5
15°	1712.2	1604.6	1486.3	1385.2	1357.3	1318.5	1109.9	963.6	946.4	952.9	967.9
17.5°	1221.7	1148.6	1148.6	1041.1	983.0	866.8	761.4	696.9	690.5	696.9	707.7
20°	901.3	862.5	858.2	830.3	765.7	688.3	615.2	602.3	598.0	608.7	613.0
22.5°	776.5	735.6	701.2	699.1	638.8	574.3	539.9	522.7	524.8	529.1	539.9
25°	694.8	651.7	615.2	593.7	550.6	505.5	473.2	464.6	464.6	471.1	473.2
27.5°	636.7	582.9	550.6	520.5	481.8	443.1	415.1	408.7	404.4	408.7	419.4
30°	595.8	542.0	501.2	456.0	425.9	389.3	365.7	357.1	354.9	357.1	365.7
32.5°	509.8	477.5	445.2	404.4	367.8	344.2	318.3	303.3	303.3	307.6	316.2
35°	385.0	367.8	365.7	354.9	324.8	299.0	268.9	253.8	253.8	262.4	266.7
37.5°	339.9	307.6	303.3	299.0	286.1	251.7	223.7	210.8	208.6	215.1	223.7
40°	309.7	273.2	253.8	249.5	251.7	212.9	182.8	169.9	169.9	172.1	180.7
42.5°	286.1	243.1	208.6	204.3	212.9	178.5	148.4	135.5	135.5	135.5	146.3
45°	266.7	217.2	176.4	154.9	167.8	146.3	120.5	107.5	103.2	107.5	111.9
47.5°	253.8	197.9	154.9	124.8	124.8	116.2	96.8	81.7	77.4	79.6	86.0
50°	243.1	180.7	131.2	101.1	90.3	92.5	73.1	62.4	58.1	58.1	64.5
52.5°	225.9	163.5	114.0	86.0	68.8	62.4	53.8	45.2	43.0	45.2	49.5
55°	204.3	148.4	98.9	71.0	53.8	43.0	38.7	32.3	30.1	32.3	38.7
57.5°	180.7	124.8	79.6	55.9	36.6	28.0	25.8	21.5	17.2	19.4	23.7
59°	165.6	111.9	68.8	45.2	28.0	19.4	19.4	15.1	10.8	12.9	19.4
60°	159.2	103.2	58.1	38.7	23.7	15.1	15.1	10.8	6.5	8.6	15.1
62.5°	135.5	86.0	45.2	23.7	10.8	2.2	6.5	2.2	0.0	2.2	6.5
65°	114.0	68.8	30.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	2.2
67.5°	94.6	51.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	75.3	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.6	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	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: P456408

CATALOG NUMBER: GALN-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1	9462.1
2.5°	7967.2	8274.8	8464.1	8821.1	9186.8	9468.6	9821.3	10137.5	10268.7	10337.5
5°	6145.3	6573.4	6936.9	7481.1	7986.5	8601.7	9225.5	9961.1	10242.9	10316.0
7.5°	4312.7	4749.3	5130.1	5760.3	6480.9	7304.7	8238.2	9171.7	9582.6	9698.7
10°	3114.6	3581.4	4046.0	4676.2	5349.5	6242.1	7214.3	8369.4	8842.6	8933.0
12.5°	1966.0	2467.2	3222.1	4000.8	4712.8	5431.2	6448.6	7704.8	8227.4	8393.1
15°	1140.0	1514.3	2084.3	3099.5	4005.1	4955.8	6065.7	7455.2	8040.3	8210.2
17.5°	763.6	892.7	1284.1	2060.6	3256.6	4517.0	5968.9	7659.6	8307.0	8524.3
20°	643.1	701.2	838.9	1256.2	2508.0	4125.6	5994.7	8214.5	9064.2	9335.2
22.5°	565.7	619.5	707.7	903.4	1750.9	3639.4	6117.3	9008.2	10105.2	10451.5
25°	499.0	552.8	630.2	748.5	1176.6	3078.0	6386.2	10169.8	11484.0	11864.7
27.5°	443.1	492.6	559.3	660.3	905.6	2452.1	6625.0	11301.2	12742.3	13052.1
30°	391.5	432.3	496.9	574.3	752.8	1890.7	6745.4	12290.6	13658.6	14002.8
32.5°	339.9	378.6	440.9	503.3	619.5	1441.1	6661.5	13017.6	14549.1	14768.5
35°	290.4	331.2	382.9	440.9	535.6	1163.7	6242.1	13835.0	15471.9	15644.0
37.5°	249.5	283.9	337.7	382.9	484.0	931.4	5734.5	14570.6	16506.5	16753.9
40°	210.8	245.2	299.0	339.9	445.2	733.5	5276.3	15388.0	17597.1	17902.5
42.5°	172.1	212.9	260.3	326.9	382.9	559.3	4721.4	16050.5	18416.6	18799.4
45°	137.7	182.8	234.5	324.8	333.4	425.9	4185.8	16566.7	19141.4	19485.6
47.5°	109.7	154.9	225.9	303.3	273.2	337.7	3880.3	17106.6	19743.7	20019.0
50°	88.2	129.1	236.6	266.7	228.0	286.1	3871.7	17708.9	20055.6	20238.4
52.5°	71.0	105.4	200.0	204.3	193.6	251.7	4104.0	18386.5	20374.0	20524.5
55°	60.2	88.2	131.2	150.6	174.2	228.0	4278.3	19429.7	21133.2	21275.2
57.5°	47.3	75.3	101.1	120.5	154.9	208.6	4301.9	20234.1	22094.7	22187.2
59°	40.9	64.5	90.3	107.5	142.0	195.7	4205.1	20283.6	22157.1	22305.5
60°	34.4	58.1	79.6	101.1	131.2	185.0	4099.7	19924.4	21924.8	22090.4
62.5°	25.8	45.2	58.1	81.7	107.5	159.2	3600.7	18670.4	21036.4	21152.6
65°	17.2	32.3	43.0	60.2	83.9	137.7	2933.9	17044.3	19664.1	19924.4
67.5°	10.8	23.7	34.4	45.2	68.8	116.2	2090.7	14615.8	17743.3	17911.1
70°	6.5	15.1	25.8	36.6	53.8	92.5	1241.1	11552.8	14762.1	14796.5
72.5°	4.3	10.8	17.2	25.8	43.0	83.9	602.3	7530.5	10778.5	11189.3
75°	2.2	6.5	10.8	19.4	34.4	68.8	288.2	5031.1	7842.4	7960.7
77.5°	0.0	2.2	6.5	12.9	25.8	53.8	167.8	3303.9	5347.3	5469.9
80°	0.0	0.0	4.3	10.8	19.4	34.4	101.1	1948.8	3239.4	3299.6
82.5°	0.0	0.0	2.2	8.6	12.9	25.8	51.6	856.1	2120.9	2142.4
85°	0.0	0.0	2.2	8.6	10.8	17.2	19.4	116.2	942.1	959.3
87.5°	0.0	0.0	2.2	10.8	10.8	10.8	10.8	6.5	79.6	98.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)