

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: P453479

Luminaire Tested: **GALN-SA4C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453479
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-SA4C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 18190 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

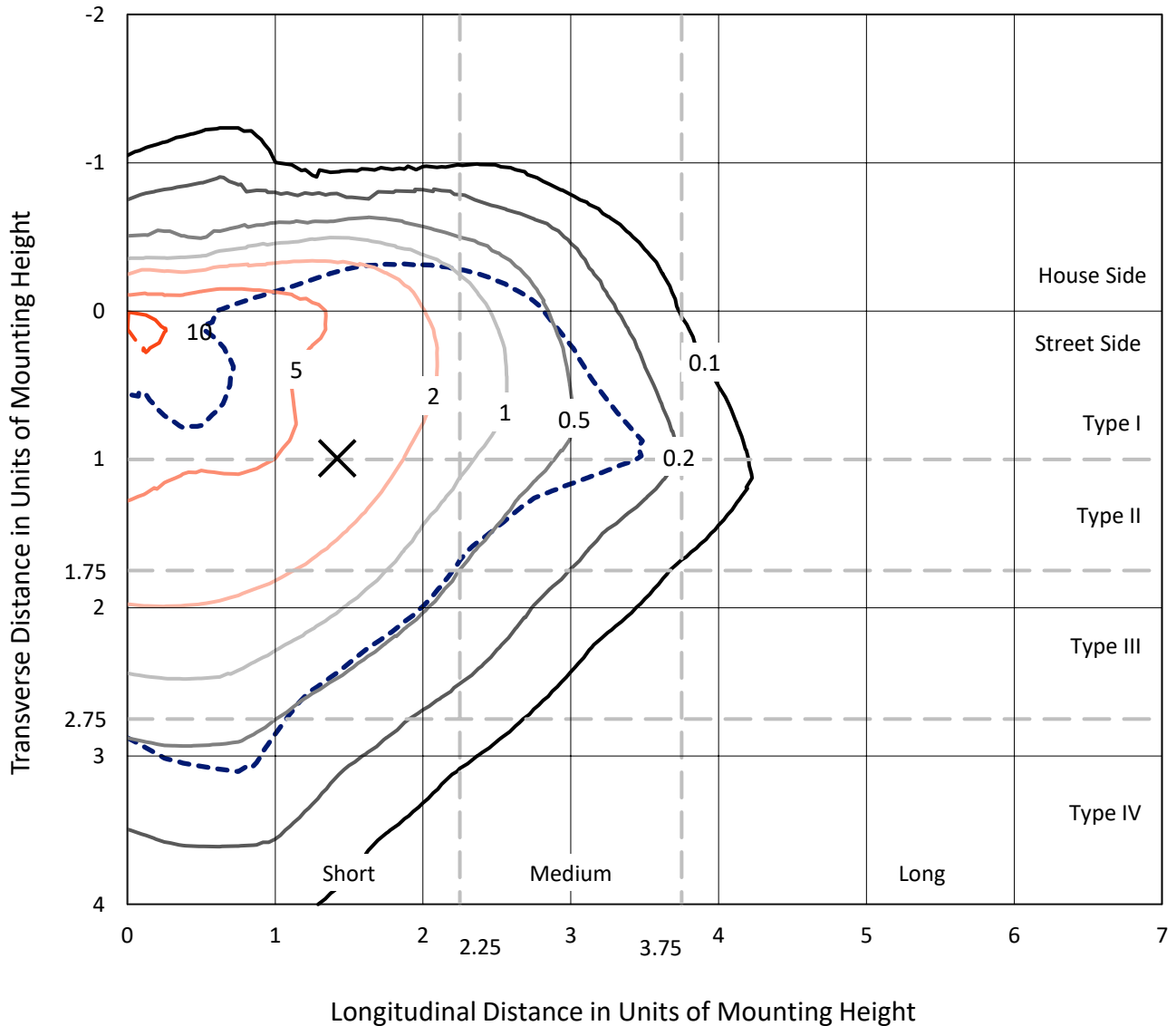
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

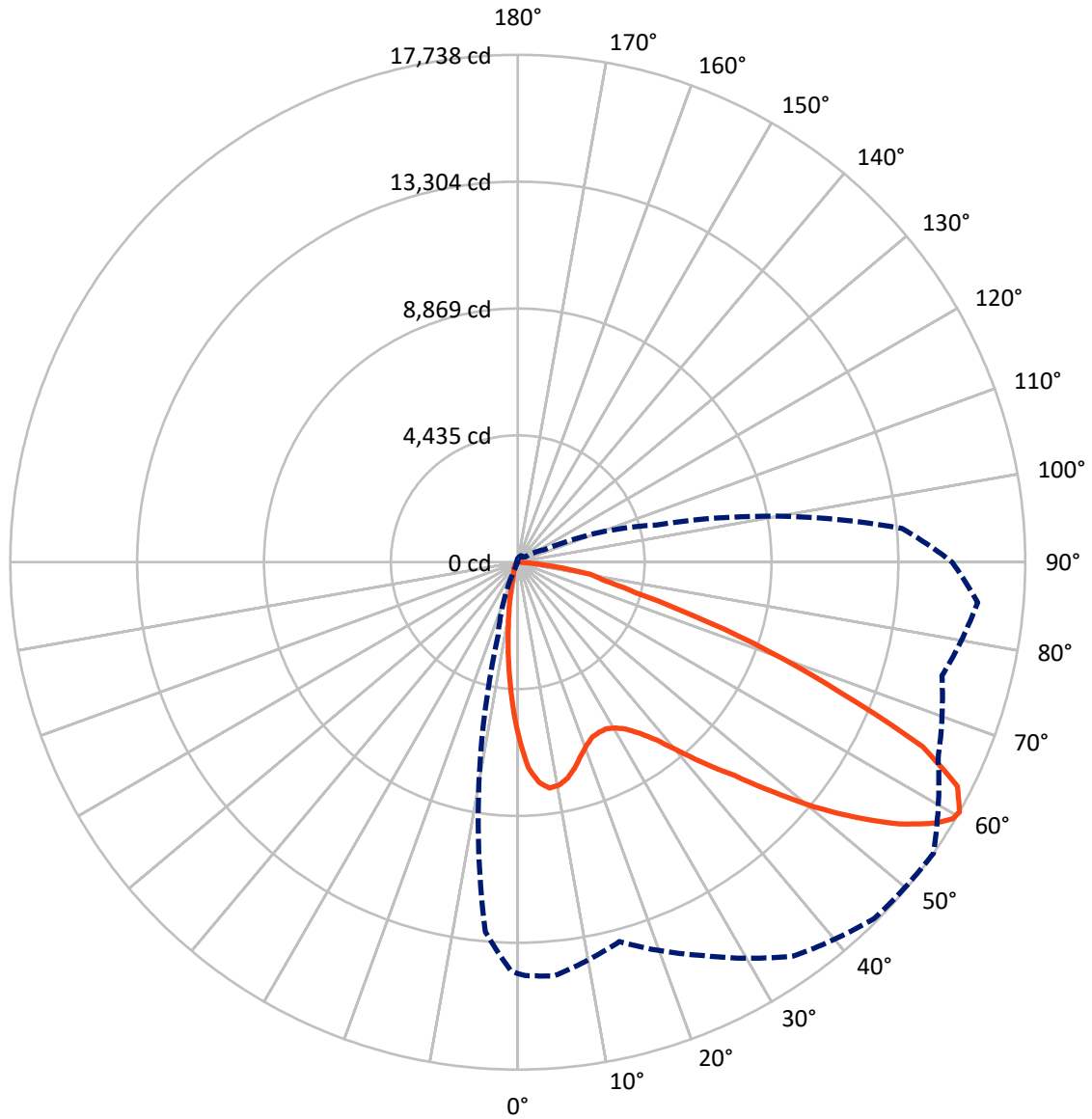
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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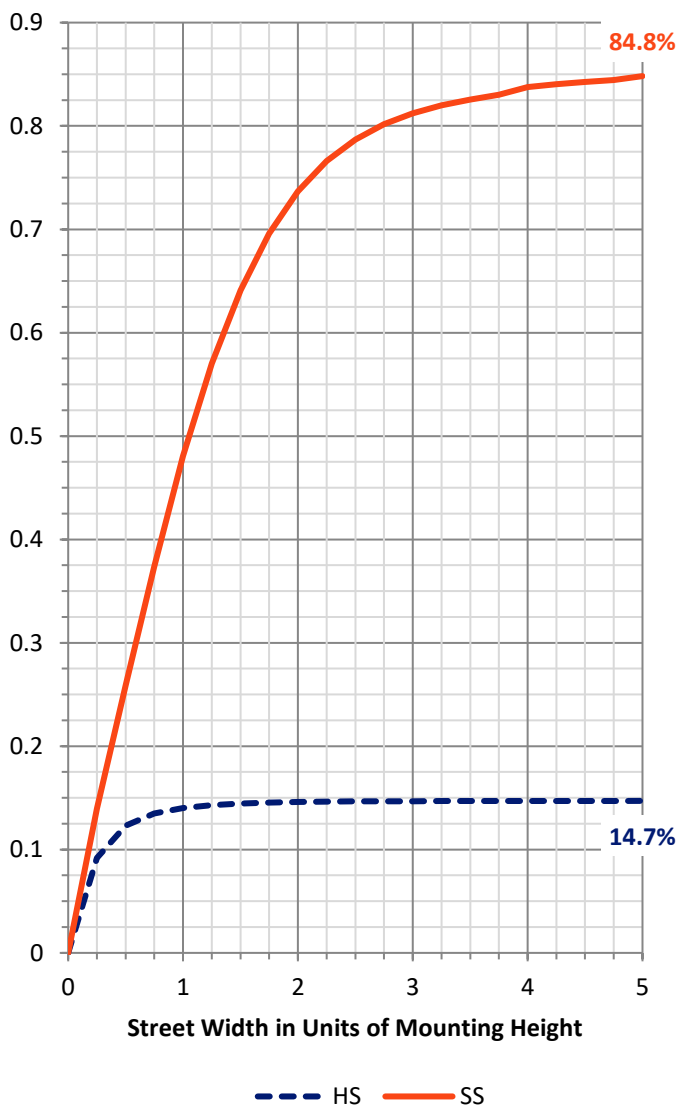
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2699.5	0.0	2699.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15490.4	0.0	15490.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	18190.0	0.0	18190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.1	2.5
10°-20°	898.1	4.9
20°-30°	1329.4	7.3
30°-40°	1981.6	10.9
40°-50°	2902.1	16.0
50°-60°	4189.8	23.0
60°-70°	4407.4	24.2
70°-80°	1813.1	10.0
80°-90°	212.3	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°	18190.0	100.0
0°-180°	18190.0	100.0

Coefficient of Utilization



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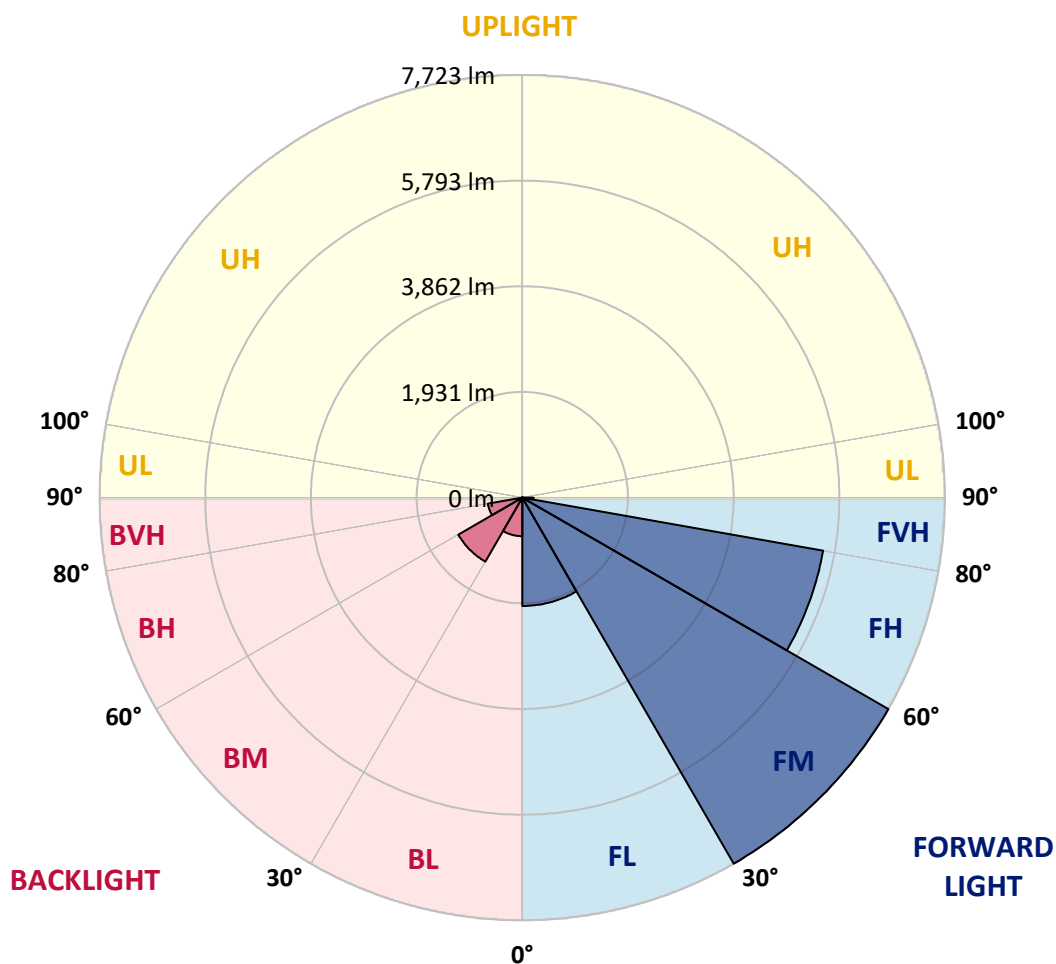
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1979.3	10.9			
FM	(30°-60°)	7723.5	42.5			
FH	(60°-80°)	5581.5	30.7			G3/7500
FVH	(80°-90°)	206.1	1.1			G2/225
BL	(0°-30°)	704.3	3.9	B2/1000		
BM	(30°-60°)	1350.0	7.4	B2/2500		
BH	(60°-80°)	639.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.2	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°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6728.9	6717.7	6817.1	6979.5	7143.4	7228.8	7212.0	7205.0	7069.2	6969.7	6761.1
5°	6714.9	6772.3	6950.1	7389.8	7723.0	7884.0	7931.6	7731.4	7466.8	7083.2	6609.9
7.5°	6313.1	6384.5	6674.3	7361.8	7954.0	8304.1	8291.5	7970.8	7424.8	6831.1	6156.3
10°	5814.7	5898.7	6238.9	7073.4	7842.0	8304.1	8329.3	7923.2	7244.2	6482.5	5772.7
12.5°	5463.2	5562.6	5939.3	6804.5	7553.6	8008.6	8038.0	7744.0	7108.4	6348.1	5564.0
15°	5344.2	5438.0	5820.3	6668.7	7247.0	7492.0	7485.0	7454.2	7055.2	6380.3	5575.2
17.5°	5548.6	5625.6	6056.9	6730.3	6959.9	6934.7	6971.1	7119.6	7066.4	6650.5	5928.1
20°	6076.5	6154.9	6618.3	6919.3	6740.1	6580.5	6597.3	6845.1	7170.0	7158.8	6479.7
22.5°	6803.1	6936.1	7356.2	7286.2	6710.7	6360.7	6325.7	6647.7	7346.4	7744.0	7224.6
25°	7723.0	7857.4	8185.0	7871.4	6854.9	6308.9	6276.7	6587.5	7560.6	8315.3	8063.2
27.5°	8495.9	8598.1	8924.3	8441.3	7067.8	6331.3	6278.1	6595.9	7734.2	8801.1	8770.3
30°	9114.7	9190.3	9382.1	8707.3	7251.2	6429.3	6367.7	6719.1	7811.2	9037.7	9342.9
32.5°	9613.2	9740.6	9800.8	8991.5	7514.4	6614.1	6509.1	6955.7	7998.8	9330.3	9943.6
35°	10183.0	10330.0	10253.0	9263.1	7861.6	6902.5	6773.7	7339.4	8283.1	9600.6	10640.8
37.5°	10905.5	11074.9	10773.8	9548.7	8228.4	7336.6	7276.4	7878.4	8714.3	9987.0	11388.5
40°	11653.1	11751.1	11279.3	9896.0	8679.3	7968.0	8025.4	8679.3	9278.5	10450.4	12183.8
42.5°	12237.0	12329.4	11798.7	10187.2	9139.9	8717.1	8956.5	9645.4	9925.4	10925.1	12777.4
45°	12683.6	12762.0	12158.6	10505.0	9761.6	9802.2	10254.4	10640.8	10573.6	11214.9	13235.2
47.5°	13030.8	13098.0	12435.8	10846.7	10692.6	11129.5	11821.1	11984.9	11245.7	11528.5	13649.7
50°	13173.6	13193.2	12522.6	11282.1	11749.7	12820.8	13541.9	13442.5	12015.7	11877.1	14090.7
52.5°	13359.8	13355.6	12770.4	11696.5	12743.8	14332.9	15052.6	14827.2	12886.6	12399.4	14586.3
55°	13848.5	13854.1	13301.0	12284.6	13590.9	15553.8	16323.9	16160.1	13805.1	13281.4	15164.6
57.5°	14442.1	14463.1	14055.7	12972.0	14400.1	16438.7	17273.2	17210.2	15047.0	14262.9	15710.6
59°	14519.1	14561.1	14412.7	13456.5	14880.4	16710.3	17598.0	17659.6	15712.0	14909.8	16006.1
60°	14379.1	14449.1	14516.3	13730.9	15161.8	16808.3	17617.6	17738.0	16211.9	15349.4	16140.5
62.5°	13768.7	13879.3	14216.7	14575.1	15513.2	16503.1	16991.7	17243.8	16830.7	16504.5	16153.1
65°	12969.2	13026.6	13513.9	14725.0	14831.4	15077.8	15229.0	15552.4	16087.3	16949.7	15574.8
67.5°	11658.7	11828.1	12424.6	13855.5	12819.4	12528.2	12490.4	12168.4	13557.3	15888.4	14149.5
70°	9631.4	9707.0	10442.0	11359.1	9674.8	9226.7	9405.9	9285.5	10509.2	13677.7	11388.5
72.5°	7283.4	7454.2	8172.4	9054.5	6583.3	6002.3	6496.5	6451.7	7893.8	10992.3	7823.8
75°	5181.8	5292.4	6208.1	7086.0	4610.6	3906.3	4084.1	4250.7	5510.8	8679.3	4623.2
77.5°	3560.5	3655.7	4343.1	4686.2	3363.1	3221.7	2947.2	3108.2	3610.9	5149.6	2516.0
80°	2147.8	2143.6	2595.8	2679.8	2342.4	2720.4	2282.2	2562.2	2182.8	2203.8	974.5
82.5°	1394.5	1380.5	1587.7	1730.5	1303.5	1370.7	919.9	1325.9	1422.5	614.6	308.0
85°	624.4	651.1	763.1	1006.7	571.2	303.8	187.6	407.4	606.2	309.4	0.0
87.5°	64.4	50.4	134.4	245.0	78.4	8.4	28.0	14.0	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°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	6664.5	6583.3	6341.1	6114.3	5919.7	5681.6	5527.6	5285.4	5138.4	5093.6	5100.6
5°	6397.1	6163.3	5702.6	5334.4	4924.2	4690.4	4334.7	3993.1	3808.3	3739.7	3708.9
7.5°	5837.1	5586.4	5030.6	4452.3	4012.7	3602.5	3337.9	3036.8	2831.0	2661.6	2632.2
10°	5421.2	5092.2	4403.3	3781.7	3434.5	3126.4	2861.8	2560.8	2318.6	2125.4	2072.2
12.5°	5172.0	4803.8	4035.1	3514.3	3185.3	2868.8	2524.4	2175.8	1928.0	1719.3	1622.7
15°	5127.2	4700.2	3931.5	3322.5	2916.4	2534.2	2076.4	1699.7	1444.9	1247.5	1187.3
17.5°	5397.4	4886.4	3916.1	3122.2	2565.0	2023.2	1547.1	1234.9	947.9	837.3	793.9
20°	5879.1	5215.4	3914.7	2889.8	2203.8	1558.3	1086.5	805.1	688.9	635.6	610.4
22.5°	6535.7	5663.4	3988.9	2689.6	1828.5	1149.5	775.7	641.3	574.0	530.6	520.8
25°	7338.0	6327.1	4170.9	2553.8	1541.5	901.7	639.9	548.8	492.8	473.2	464.8
27.5°	8050.6	6962.7	4371.1	2413.8	1335.7	798.1	593.6	502.6	457.8	442.4	429.8
30°	8665.3	7539.6	4467.8	2229.0	1170.5	730.9	602.0	537.6	478.8	432.6	411.6
32.5°	9177.7	7982.0	4530.8	2061.0	1030.5	597.8	476.0	415.8	389.2	372.4	358.4
35°	9819.0	8460.9	4493.0	1965.8	959.1	544.6	434.0	358.4	313.6	280.0	266.0
37.5°	10491.0	8939.7	4427.1	1887.3	926.9	505.4	413.0	340.2	291.2	256.2	238.0
40°	11186.9	9383.5	4350.1	1814.5	897.5	480.2	400.4	324.8	275.8	238.0	218.4
42.5°	11823.9	9816.2	4319.3	1766.9	849.9	484.4	390.6	317.8	260.4	221.2	204.4
45°	12339.2	10226.4	4361.3	1741.7	798.1	477.4	393.4	309.4	247.8	210.0	193.2
47.5°	12889.4	10806.0	4497.2	1716.5	747.7	443.8	414.4	308.0	242.2	203.0	184.8
50°	13529.3	11548.1	4808.0	1654.9	686.1	407.4	441.0	306.6	235.2	194.6	176.4
52.5°	14381.9	12391.0	5128.6	1547.1	596.4	372.4	421.4	302.4	221.2	184.8	166.6
55°	15147.8	13278.6	5400.2	1419.7	483.0	322.0	379.4	284.2	197.4	168.0	151.2
57.5°	15464.2	13779.9	5391.8	1243.3	386.4	282.8	312.2	260.4	172.2	148.4	134.4
59°	15348.0	13716.9	5211.2	1113.1	352.8	261.8	259.0	257.6	161.0	134.4	123.2
60°	15184.2	13487.3	5016.6	1048.7	331.8	247.8	238.0	254.8	151.2	126.0	114.8
62.5°	14556.9	12535.2	4371.1	939.5	303.8	210.0	190.4	215.6	134.4	109.2	99.4
65°	13648.3	11072.1	3700.5	908.7	295.4	173.6	158.2	154.0	114.8	92.4	84.0
67.5°	11875.7	9369.5	2997.6	887.7	298.2	145.6	138.6	116.2	95.2	77.0	71.4
70°	9508.1	7305.8	2454.4	863.9	301.0	119.0	116.2	92.4	77.0	64.4	58.8
72.5°	5776.9	4330.5	1932.2	750.5	292.6	95.2	103.6	70.0	56.0	46.2	43.4
75°	3571.7	2964.0	1198.5	583.8	193.2	70.0	72.8	43.4	37.8	29.4	29.4
77.5°	2069.4	1871.9	428.4	210.0	85.4	42.0	32.2	22.4	21.0	12.6	12.6
80°	858.3	687.5	148.4	71.4	46.2	19.6	7.0	1.4	0.0	0.0	0.0
82.5°	250.6	222.6	40.6	32.2	14.0	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°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	4981.6	4935.4	4914.4	4985.8	4920.0	5004.0	4939.6	4967.6	5050.2	5086.6	5180.4
5°	3728.5	3680.9	3658.5	3766.3	3760.7	3813.9	3808.3	3857.3	3899.3	3805.5	3902.1
7.5°	2597.2	2565.0	2618.2	2702.2	2791.8	2762.4	2762.4	2696.6	2719.0	2705.0	2700.8
10°	1975.6	1864.9	1836.9	1834.1	1867.7	1874.7	1836.9	1745.9	1779.5	1789.3	1848.1
12.5°	1554.1	1468.7	1338.5	1279.7	1264.3	1276.9	1152.3	1072.5	1110.3	1087.9	1145.3
15°	1114.5	1044.5	967.5	901.7	883.5	858.3	722.5	627.2	616.0	620.2	630.0
17.5°	795.3	747.7	747.7	677.7	639.9	564.2	495.6	453.6	449.4	453.6	460.6
20°	586.6	561.4	558.6	540.4	498.4	448.0	400.4	392.0	389.2	396.2	399.0
22.5°	505.4	478.8	456.4	455.0	415.8	373.8	351.4	340.2	341.6	344.4	351.4
25°	452.2	424.2	400.4	386.4	358.4	329.0	308.0	302.4	302.4	306.6	308.0
27.5°	414.4	379.4	358.4	338.8	313.6	288.4	270.2	266.0	263.2	266.0	273.0
30°	387.8	352.8	326.2	296.8	277.2	253.4	238.0	232.4	231.0	232.4	238.0
32.5°	331.8	310.8	289.8	263.2	239.4	224.0	207.2	197.4	197.4	200.2	205.8
35°	250.6	239.4	238.0	231.0	211.4	194.6	175.0	165.2	165.2	170.8	173.6
37.5°	221.2	200.2	197.4	194.6	186.2	163.8	145.6	137.2	135.8	140.0	145.6
40°	201.6	177.8	165.2	162.4	163.8	138.6	119.0	110.6	110.6	112.0	117.6
42.5°	186.2	158.2	135.8	133.0	138.6	116.2	96.6	88.2	88.2	88.2	95.2
45°	173.6	141.4	114.8	100.8	109.2	95.2	78.4	70.0	67.2	70.0	72.8
47.5°	165.2	128.8	100.8	81.2	81.2	75.6	63.0	53.2	50.4	51.8	56.0
50°	158.2	117.6	85.4	65.8	58.8	60.2	47.6	40.6	37.8	37.8	42.0
52.5°	147.0	106.4	74.2	56.0	44.8	40.6	35.0	29.4	28.0	29.4	32.2
55°	133.0	96.6	64.4	46.2	35.0	28.0	25.2	21.0	19.6	21.0	25.2
57.5°	117.6	81.2	51.8	36.4	23.8	18.2	16.8	14.0	11.2	12.6	15.4
59°	107.8	72.8	44.8	29.4	18.2	12.6	12.6	9.8	7.0	8.4	12.6
60°	103.6	67.2	37.8	25.2	15.4	9.8	9.8	7.0	4.2	5.6	9.8
62.5°	88.2	56.0	29.4	15.4	7.0	1.4	4.2	1.4	0.0	1.4	4.2
65°	74.2	44.8	19.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	61.6	33.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	49.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	33.6	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	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: P453479

CATALOG NUMBER: GALN-SA4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1	6159.1
2.5°	5186.0	5386.2	5509.4	5741.9	5979.9	6163.3	6392.9	6598.7	6684.1	6728.9
5°	4000.1	4278.7	4515.4	4869.6	5198.6	5599.0	6005.1	6483.9	6667.3	6714.9
7.5°	2807.2	3091.4	3339.3	3749.5	4218.5	4754.8	5362.4	5970.1	6237.5	6313.1
10°	2027.4	2331.2	2633.6	3043.8	3482.1	4063.1	4696.0	5447.8	5755.9	5814.7
12.5°	1279.7	1605.9	2097.4	2604.2	3067.6	3535.3	4197.5	5015.2	5355.4	5463.2
15°	742.1	985.7	1356.7	2017.6	2607.0	3225.9	3948.3	4852.8	5233.6	5344.2
17.5°	497.0	581.0	835.9	1341.3	2119.8	2940.2	3885.3	4985.8	5407.2	5548.6
20°	418.6	456.4	546.0	817.7	1632.5	2685.4	3902.1	5347.0	5900.1	6076.5
22.5°	368.2	403.2	460.6	588.0	1139.7	2369.0	3981.9	5863.7	6577.7	6803.1
25°	324.8	359.8	410.2	487.2	765.9	2003.6	4156.9	6619.7	7475.2	7723.0
27.5°	288.4	320.6	364.0	429.8	589.4	1596.1	4312.3	7356.2	8294.3	8495.9
30°	254.8	281.4	323.4	373.8	490.0	1230.7	4390.7	8000.2	8890.7	9114.7
32.5°	221.2	246.4	287.0	327.6	403.2	938.1	4336.1	8473.5	9470.3	9613.2
35°	189.0	215.6	249.2	287.0	348.6	757.5	4063.1	9005.5	10071.0	10183.0
37.5°	162.4	184.8	219.8	249.2	315.0	606.2	3732.7	9484.3	10744.4	10905.5
40°	137.2	159.6	194.6	221.2	289.8	477.4	3434.5	10016.4	11454.3	11653.1
42.5°	112.0	138.6	169.4	212.8	249.2	364.0	3073.2	10447.6	11987.7	12237.0
45°	89.6	119.0	152.6	211.4	217.0	277.2	2724.6	10783.6	12459.6	12683.6
47.5°	71.4	100.8	147.0	197.4	177.8	219.8	2525.8	11135.1	12851.6	13030.8
50°	57.4	84.0	154.0	173.6	148.4	186.2	2520.2	11527.1	13054.6	13173.6
52.5°	46.2	68.6	130.2	133.0	126.0	163.8	2671.4	11968.1	13261.8	13359.8
55°	39.2	57.4	85.4	98.0	113.4	148.4	2784.8	12647.2	13756.1	13848.5
57.5°	30.8	49.0	65.8	78.4	100.8	135.8	2800.2	13170.8	14381.9	14442.1
59°	26.6	42.0	58.8	70.0	92.4	127.4	2737.2	13203.0	14422.5	14519.1
60°	22.4	37.8	51.8	65.8	85.4	120.4	2668.6	12969.2	14271.3	14379.1
62.5°	16.8	29.4	37.8	53.2	70.0	103.6	2343.8	12153.0	13693.1	13768.7
65°	11.2	21.0	28.0	39.2	54.6	89.6	1909.7	11094.5	12799.8	12969.2
67.5°	7.0	15.4	22.4	29.4	44.8	75.6	1360.9	9513.7	11549.5	11658.7
70°	4.2	9.8	16.8	23.8	35.0	60.2	807.9	7520.0	9609.0	9631.4
72.5°	2.8	7.0	11.2	16.8	28.0	54.6	392.0	4901.8	7016.0	7283.4
75°	1.4	4.2	7.0	12.6	22.4	44.8	187.6	3274.9	5104.8	5181.8
77.5°	0.0	1.4	4.2	8.4	16.8	35.0	109.2	2150.6	3480.7	3560.5
80°	0.0	0.0	2.8	7.0	12.6	22.4	65.8	1268.5	2108.6	2147.8
82.5°	0.0	0.0	1.4	5.6	8.4	16.8	33.6	557.2	1380.5	1394.5
85°	0.0	0.0	1.4	5.6	7.0	11.2	12.6	75.6	613.2	624.4
87.5°	0.0	0.0	1.4	7.0	7.0	7.0	7.0	4.2	51.8	64.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)