

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: P453626

Luminaire Tested: **GALN-SA4C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453626
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-SA4C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 15872 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - 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

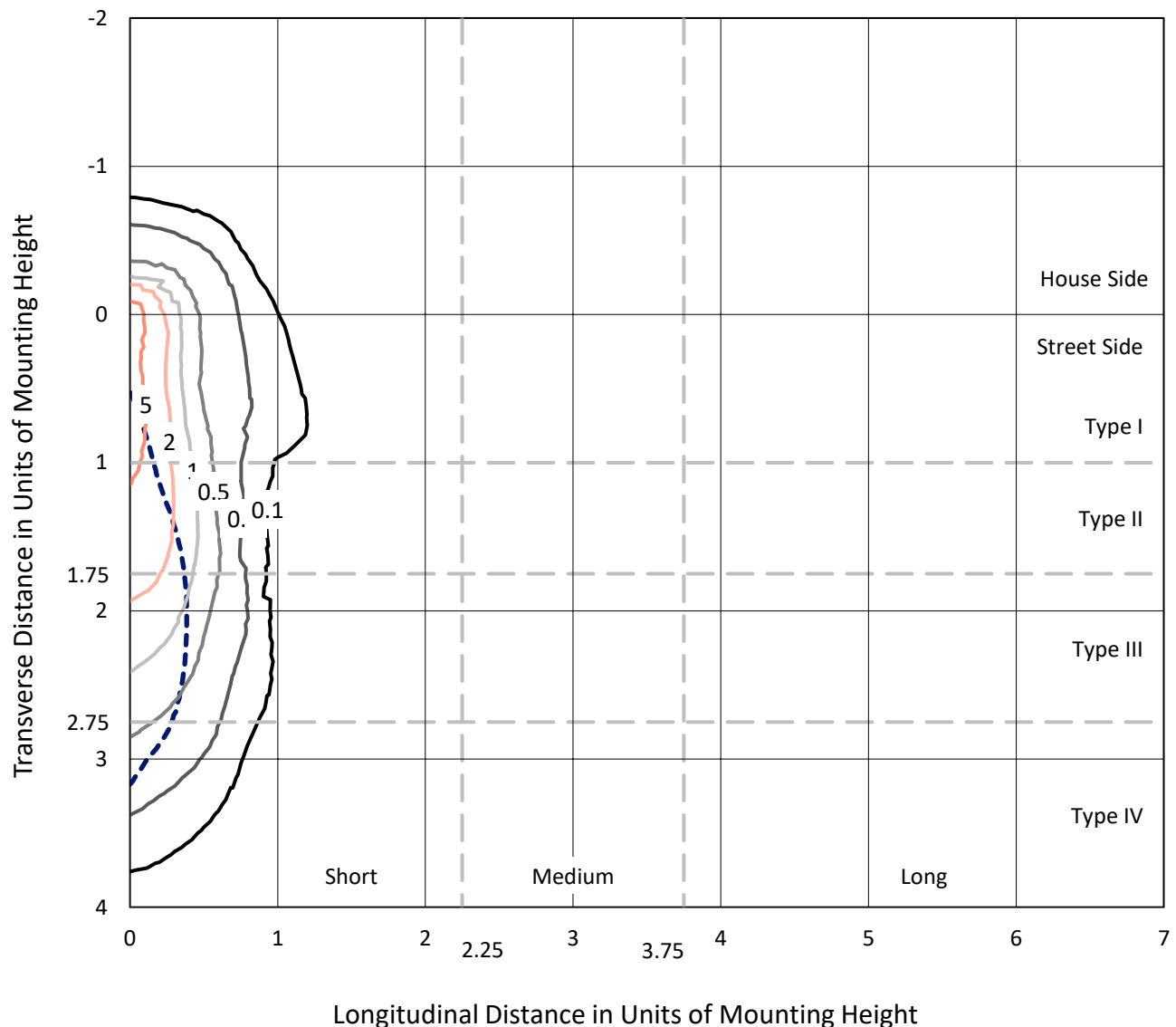


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Iso-Footcandle Lines of Horizontal Illumination

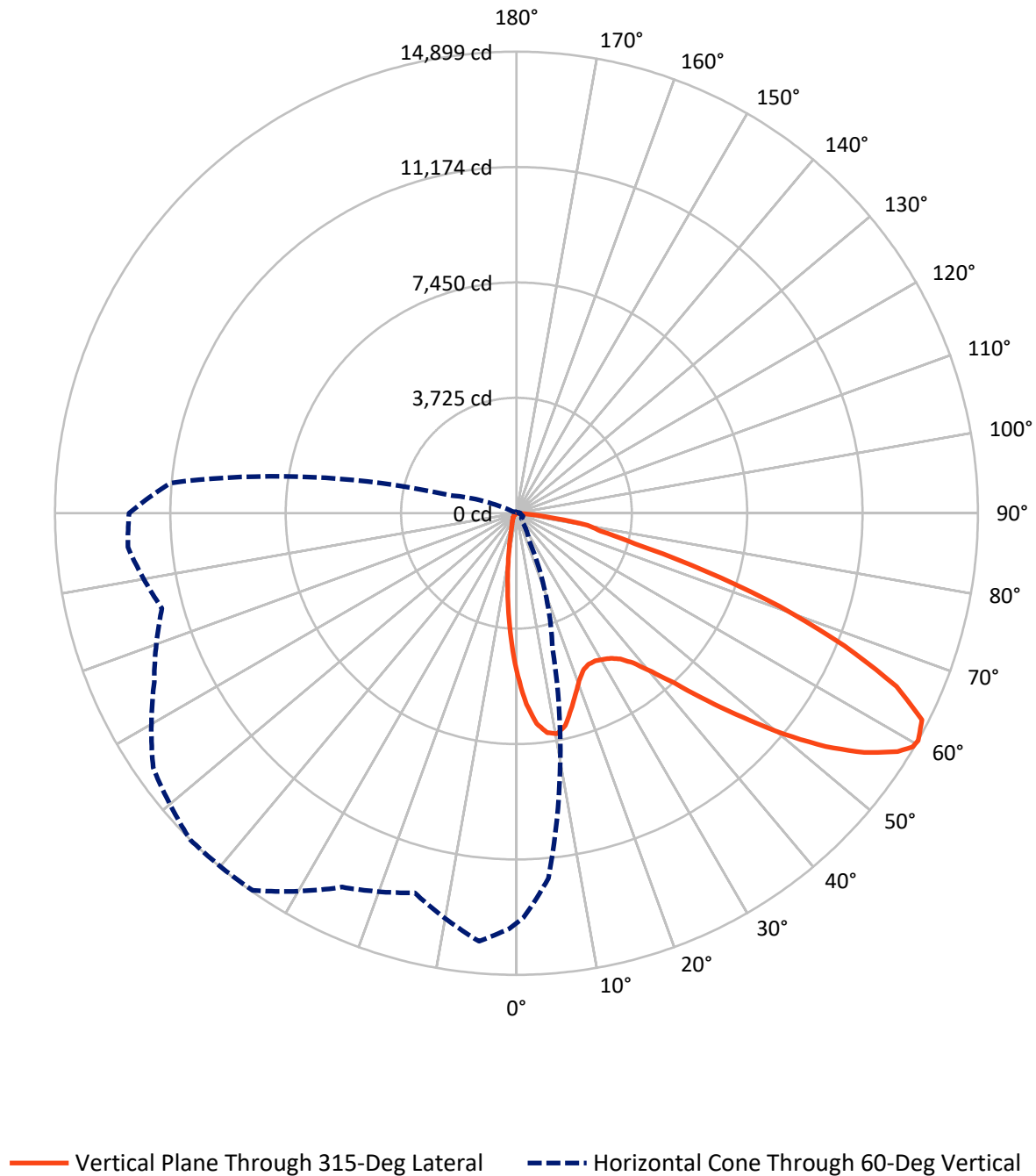
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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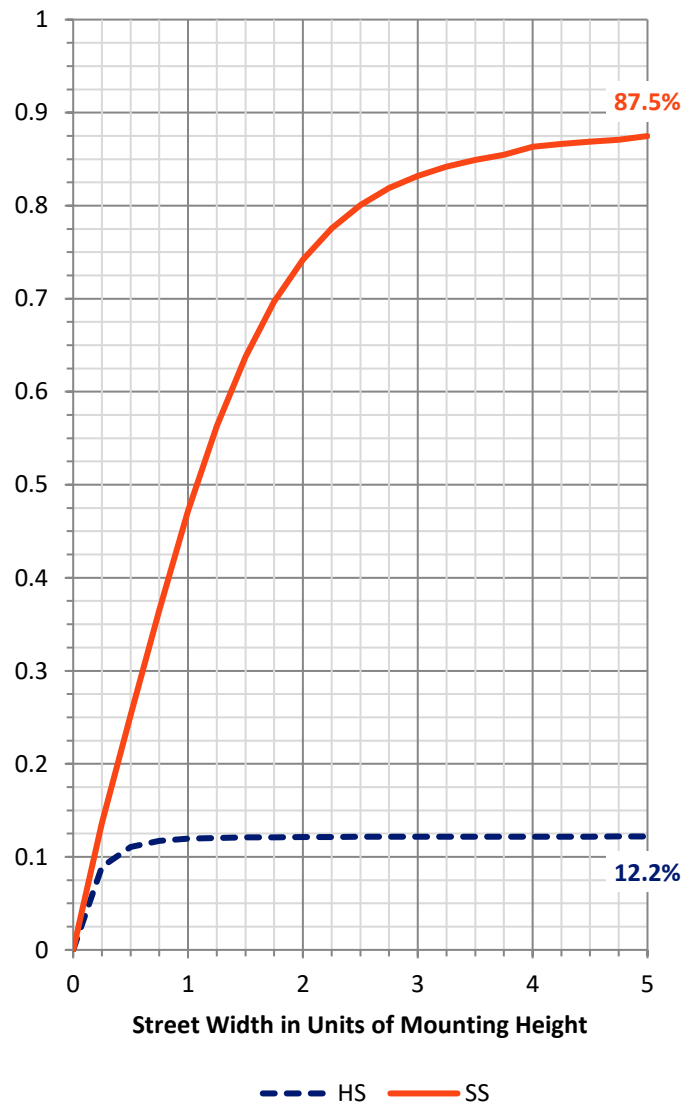
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.7	0.0	1957.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13914.3	0.0	13914.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	15872.0	0.0	15872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	2.5
10°-20°	774.9	4.9
20°-30°	1136.2	7.2
30°-40°	1689.7	10.6
40°-50°	2459.1	15.5
50°-60°	3546.2	22.3
60°-70°	3900.4	24.6
70°-80°	1747.1	11.0
80°-90°	228.3	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°	15872.0	100.0
0°-180°	15872.0	100.0

Coefficient of Utilization



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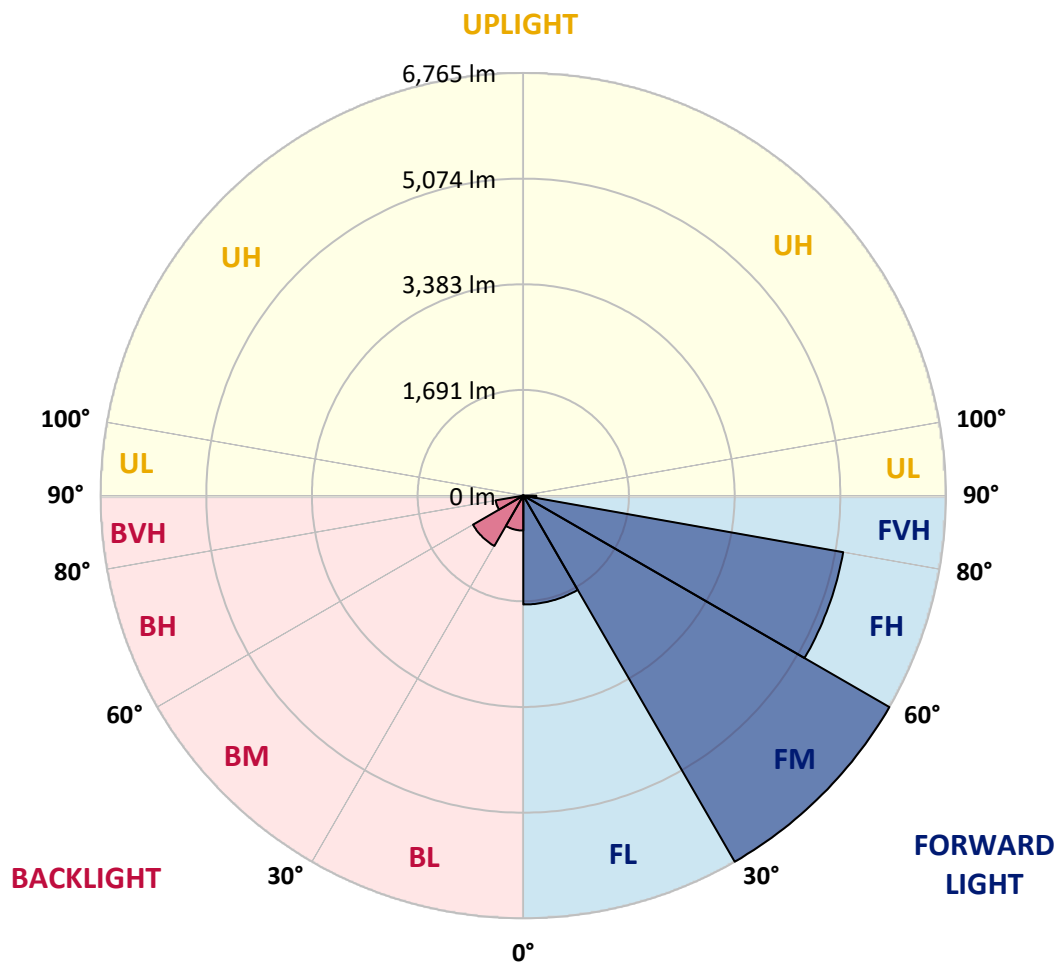
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1741.9	11.0			
FM	(30°-60°)	6765.1	42.6			
FH	(60°-80°)	5198.5	32.8			G3/7500
FVH	(80°-90°)	208.8	1.3			G2/225
BL	(0°-30°)	559.4	3.5	B2/1000		
BM	(30°-60°)	929.8	5.9	B1/1000		
BH	(60°-80°)	448.9	2.8	B1/500		G1/500
BVH	(80°-90°)	19.5	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°	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9
2.5°	5767.1	5741.8	5683.9	5507.7	5354.5	5154.2	4951.5	4792.3	4694.5	4514.8	4432.7
5°	5587.4	5599.4	5431.7	5069.8	4666.8	4391.7	4091.3	3852.4	3589.4	3422.9	3247.9
7.5°	5118.0	5093.9	4911.7	4407.4	3917.6	3519.4	3139.3	2830.5	2636.2	2480.6	2350.3
10°	4716.3	4698.2	4465.3	3816.2	3290.2	2992.2	2735.2	2464.9	2256.2	2028.2	1846.0
12.5°	4464.1	4423.1	4155.2	3477.2	3048.9	2771.4	2491.5	2210.3	1922.0	1691.5	1470.7
15°	4379.6	4320.5	4022.5	3360.1	2894.4	2542.1	2191.0	1867.7	1535.9	1281.3	1114.8
17.5°	4532.9	4435.1	4117.8	3339.6	2709.8	2242.9	1811.0	1389.9	1044.8	850.6	748.0
20°	4884.0	4771.8	4359.1	3319.1	2504.7	1907.5	1376.6	982.1	722.7	616.5	559.8
22.5°	5405.2	5250.7	4716.3	3351.7	2315.3	1580.5	994.2	693.7	574.3	507.9	468.1
25°	6031.4	5902.3	5168.7	3467.5	2165.7	1323.5	768.5	567.1	483.8	442.8	412.6
27.5°	6717.9	6511.6	5753.9	3606.3	2029.4	1124.5	674.4	506.7	430.7	393.3	377.6
30°	7206.5	7046.0	6243.7	3702.8	1859.2	974.9	616.5	499.5	431.9	387.3	358.3
32.5°	7689.1	7484.0	6653.9	3747.4	1735.0	871.1	533.3	435.6	378.8	355.9	327.0
35°	8205.5	7990.7	7062.9	3723.3	1642.1	802.3	483.8	388.5	324.6	285.9	257.0
37.5°	8727.9	8501.1	7469.5	3636.4	1584.2	774.6	445.2	369.2	306.5	266.6	235.3
40°	9348.1	9045.2	7850.8	3565.2	1523.8	760.1	419.9	357.1	293.2	251.0	219.6
42.5°	9854.8	9566.4	8211.5	3527.8	1482.8	726.3	419.9	347.5	284.7	237.7	205.1
45°	10335.0	10035.8	8601.2	3558.0	1465.9	684.1	424.7	346.3	278.7	228.0	195.5
47.5°	10736.8	10477.4	9001.8	3671.4	1444.2	638.2	399.4	363.2	275.1	219.6	185.8
50°	11210.9	10960.0	9531.5	3900.7	1405.6	592.4	368.0	390.9	273.9	212.3	177.4
52.5°	11879.3	11607.9	10262.6	4161.3	1344.1	522.4	339.0	387.3	269.1	200.3	168.9
55°	12696.1	12476.6	11109.6	4473.8	1259.6	444.0	293.2	343.9	254.6	179.8	154.4
57.5°	13219.8	13032.8	11744.2	4608.9	1130.5	363.2	258.2	288.4	232.9	160.5	137.5
59°	13281.3	13112.4	11876.9	4564.2	1046.0	331.8	241.3	247.3	226.8	149.6	127.9
60°	13229.4	13054.5	11823.8	4477.4	967.6	310.1	226.8	219.6	228.0	143.6	120.7
62.5°	12896.4	12597.2	11308.7	4037.0	845.8	284.7	201.5	179.8	201.5	129.1	107.4
65°	12253.4	11804.5	10289.2	3416.8	797.5	270.3	171.3	150.8	153.2	113.4	92.9
67.5°	11130.1	10564.2	8931.8	2776.2	777.0	271.5	144.8	135.1	118.2	96.5	82.0
70°	9354.1	8789.5	7166.7	2283.9	767.3	271.5	123.1	115.8	98.9	80.8	71.2
72.5°	6628.6	6020.5	4834.5	1794.1	691.3	270.3	105.0	105.0	80.8	67.6	57.9
75°	3745.0	3749.8	3039.2	1269.3	574.3	223.2	84.5	83.2	59.1	51.9	43.4
77.5°	2182.6	2144.0	2048.7	545.3	266.6	101.3	59.1	50.7	41.0	37.4	31.4
80°	1122.1	923.0	898.9	197.9	95.3	63.9	41.0	29.0	26.5	24.1	21.7
82.5°	331.8	333.0	296.8	79.6	53.1	42.2	20.5	15.7	14.5	13.3	13.3
85°	22.9	14.5	16.9	24.1	32.6	16.9	1.2	3.6	3.6	4.8	6.0
87.5°	2.4	1.2	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°	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9
2.5°	4342.2	4395.3	4296.4	4298.8	4216.8	4243.3	4146.8	4178.2	4121.5	4164.9	4292.8
5°	3267.2	3279.3	3199.7	3174.3	3186.4	3235.9	3255.2	3167.1	3204.5	3130.9	3126.1
7.5°	2302.0	2316.5	2270.7	2264.6	2351.5	2331.0	2368.4	2277.9	2192.2	2229.6	2160.9
10°	1788.1	1727.7	1633.6	1607.1	1590.2	1601.0	1601.0	1519.0	1506.9	1474.4	1523.8
12.5°	1411.6	1338.0	1248.7	1128.1	1097.9	1095.5	1050.9	978.5	955.6	927.8	968.8
15°	1025.5	995.4	920.6	853.0	784.2	771.0	698.6	639.5	561.0	550.2	546.6
17.5°	721.5	676.9	675.6	637.0	597.2	570.7	503.1	435.6	405.4	401.8	401.8
20°	540.5	524.8	499.5	494.7	482.6	452.4	392.1	355.9	341.4	342.6	347.5
22.5°	454.9	444.0	421.1	410.2	405.4	378.8	334.2	310.1	302.8	302.8	304.0
25°	406.6	396.9	371.6	354.7	348.7	329.4	294.4	276.3	270.3	270.3	270.3
27.5°	370.4	358.3	331.8	317.3	306.5	284.7	263.0	244.9	238.9	238.9	240.1
30°	345.1	331.8	307.7	288.4	271.5	252.2	234.1	218.4	211.1	209.9	211.1
32.5°	311.3	299.2	275.1	263.0	243.7	220.8	206.3	191.8	184.6	185.8	184.6
35°	242.5	238.9	222.0	225.6	214.8	195.5	182.2	166.5	158.1	156.8	159.3
37.5°	220.8	206.3	187.0	188.2	184.6	177.4	155.6	138.7	132.7	132.7	133.9
40°	203.9	189.4	167.7	156.8	158.1	158.1	135.1	117.0	111.0	109.8	112.2
42.5°	189.4	174.9	150.8	132.7	127.9	133.9	114.6	96.5	90.5	88.1	90.5
45°	179.8	164.1	136.3	115.8	101.3	108.6	94.1	79.6	72.4	72.4	71.2
47.5°	170.1	155.6	125.5	100.1	84.5	80.8	77.2	63.9	56.7	55.5	56.7
50°	161.7	147.2	113.4	86.9	71.2	62.7	62.7	50.7	45.8	43.4	44.6
52.5°	153.2	137.5	102.6	77.2	61.5	50.7	44.6	41.0	37.4	36.2	37.4
55°	141.2	125.5	91.7	66.4	53.1	42.2	35.0	33.8	31.4	29.0	31.4
57.5°	126.7	112.2	80.8	56.7	42.2	32.6	29.0	27.7	25.3	24.1	24.1
59°	118.2	105.0	74.8	49.5	37.4	29.0	26.5	25.3	22.9	20.5	21.7
60°	113.4	102.6	71.2	45.8	33.8	26.5	24.1	22.9	20.5	19.3	20.5
62.5°	100.1	91.7	62.7	37.4	26.5	19.3	16.9	18.1	16.9	15.7	16.9
65°	88.1	80.8	53.1	29.0	20.5	13.3	12.1	15.7	14.5	13.3	14.5
67.5°	78.4	70.0	44.6	21.7	14.5	7.2	8.4	13.3	13.3	12.1	13.3
70°	67.6	60.3	36.2	15.7	7.2	3.6	6.0	9.7	12.1	10.9	12.1
72.5°	55.5	47.1	27.7	10.9	3.6	0.0	3.6	8.4	12.1	10.9	12.1
75°	43.4	35.0	20.5	6.0	0.0	0.0	1.2	7.2	12.1	10.9	12.1
77.5°	31.4	25.3	12.1	1.2	0.0	0.0	1.2	7.2	12.1	10.9	12.1
80°	20.5	18.1	4.8	0.0	0.0	0.0	1.2	7.2	12.1	12.1	13.3
82.5°	13.3	9.7	0.0	0.0	0.0	0.0	2.4	9.7	13.3	14.5	14.5
85°	6.0	0.0	0.0	0.0	0.0	0.0	4.8	12.1	15.7	15.7	15.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	8.4	14.5	18.1	18.1	18.1
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°	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9
2.5°	4314.5	4390.5	4497.9	4663.2	4797.1	5008.2	5169.9	5390.7	5613.9	5681.5	5786.4
5°	3175.5	3273.3	3517.0	3739.0	3878.9	4325.4	4607.7	5052.9	5452.2	5644.1	5852.8
7.5°	2205.5	2321.3	2507.1	2817.2	3111.6	3474.8	3930.8	4440.0	5025.1	5299.0	5593.4
10°	1548.0	1692.7	1954.6	2209.1	2579.5	2924.6	3374.6	3936.9	4582.3	4905.7	5274.9
12.5°	977.3	1106.4	1452.6	1738.6	2200.7	2601.2	3016.3	3525.4	4273.5	4605.3	4992.6
15°	558.6	667.2	828.9	1195.7	1708.4	2238.1	2755.7	3346.9	4115.4	4524.4	4943.1
17.5°	416.2	445.2	517.6	725.1	1192.0	1811.0	2515.6	3292.6	4222.8	4703.0	5180.8
20°	349.9	369.2	403.0	485.0	760.1	1394.7	2281.5	3302.2	4570.3	5173.5	5627.2
22.5°	313.7	325.8	353.5	406.6	518.8	1015.9	2007.6	3358.9	4991.3	5751.5	6275.1
25°	275.1	290.8	314.9	360.7	431.9	704.6	1737.4	3485.6	5581.3	6485.0	6977.3
27.5°	244.9	259.4	283.5	325.8	378.8	538.1	1422.5	3594.2	6203.9	7223.4	7626.4
30°	214.8	229.2	253.4	287.2	335.4	435.6	1083.4	3658.2	6808.4	7777.2	8087.3
32.5°	189.4	201.5	224.4	254.6	294.4	369.2	854.2	3591.8	7270.5	8280.3	8487.8
35°	164.1	178.6	197.9	225.6	260.6	314.9	710.6	3362.6	7667.4	8797.9	8872.7
37.5°	137.5	154.4	174.9	200.3	228.0	289.6	570.7	3109.2	8092.1	9443.4	9320.3
40°	115.8	131.5	150.8	178.6	203.9	265.4	439.2	2838.9	8550.6	10049.1	9809.0
42.5°	94.1	111.0	133.9	159.3	201.5	231.7	340.2	2559.0	8962.0	10576.3	10250.5
45°	74.8	89.3	113.4	146.0	200.3	199.1	263.0	2282.7	9272.1	10952.7	10579.9
47.5°	59.1	71.2	95.3	142.4	184.6	168.9	211.1	2111.4	9597.8	11291.8	10832.1
50°	47.1	59.1	82.0	148.4	161.7	144.8	177.4	2139.1	9912.7	11464.3	10935.8
52.5°	39.8	51.9	71.2	117.0	124.3	126.7	155.6	2267.0	10319.3	11648.9	11142.2
55°	35.0	45.8	60.3	82.0	96.5	113.4	142.4	2359.9	10863.5	12044.6	11597.0
57.5°	27.7	39.8	54.3	70.0	79.6	98.9	131.5	2367.2	11355.7	12552.6	12201.5
59°	25.3	36.2	50.7	66.4	71.2	89.3	124.3	2305.6	11373.8	12628.6	12479.0
60°	22.9	35.0	48.3	61.5	67.6	84.5	118.2	2234.5	11209.7	12507.9	12593.6
62.5°	19.3	30.2	42.2	49.5	57.9	70.0	102.6	1976.3	10414.6	11961.4	12381.2
65°	16.9	26.5	36.2	41.0	48.3	60.3	90.5	1581.7	9536.3	11220.6	11773.2
67.5°	15.7	24.1	31.4	35.0	42.2	55.5	80.8	1117.2	8398.5	10280.7	10859.8
70°	14.5	22.9	27.7	32.6	37.4	47.1	68.8	651.5	6469.3	8632.6	9244.3
72.5°	14.5	21.7	24.1	27.7	32.6	42.2	63.9	352.3	4423.1	6585.2	7375.4
75°	14.5	20.5	21.7	24.1	29.0	38.6	56.7	184.6	2859.4	4575.1	5646.5
77.5°	14.5	19.3	21.7	22.9	27.7	33.8	49.5	115.8	1905.1	3204.5	3816.2
80°	15.7	19.3	20.5	22.9	26.5	31.4	41.0	77.2	1119.6	1928.0	2322.5
82.5°	16.9	19.3	21.7	24.1	27.7	30.2	36.2	48.3	516.4	1275.3	1443.0
85°	18.1	20.5	22.9	25.3	29.0	30.2	33.8	35.0	84.5	575.5	778.2
87.5°	19.3	21.7	24.1	26.5	31.4	31.4	31.4	31.4	29.0	61.5	156.8
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: P453626

CATALOG NUMBER: GALN-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9	5245.9
2.5°	5919.2	6055.5	6150.8	6174.9	6106.2	6074.8	5987.9	5852.8	5770.8	5767.1
5°	6237.7	6557.4	6779.4	6816.8	6684.1	6459.7	6193.0	5849.2	5647.7	5587.4
7.5°	6183.4	6743.2	7100.3	7152.2	6929.0	6500.7	5984.3	5430.5	5210.9	5118.0
10°	5960.2	6643.1	7153.4	7235.5	6937.5	6334.2	5677.9	5060.1	4787.4	4716.3
12.5°	5769.5	6459.7	6913.3	7026.7	6801.1	6199.1	5494.5	4822.4	4530.5	4464.1
15°	5686.3	6242.5	6520.0	6577.9	6540.5	6114.6	5475.2	4786.2	4452.0	4379.6
17.5°	5769.5	6057.9	6092.9	6152.0	6235.3	6106.2	5661.0	4982.9	4622.2	4532.9
20°	5987.9	5897.4	5752.7	5778.0	5968.6	6141.2	5991.5	5418.5	4979.3	4884.0
22.5°	6359.5	5857.6	5529.5	5507.7	5749.0	6258.2	6476.6	6008.4	5499.3	5405.2
25°	6815.6	5957.8	5447.4	5400.4	5663.4	6429.5	7003.8	6731.1	6174.9	6031.4
27.5°	7312.7	6165.3	5447.4	5401.6	5656.1	6581.5	7455.0	7370.6	6874.7	6717.9
30°	7585.4	6336.6	5525.8	5474.0	5745.4	6669.6	7696.4	7938.9	7400.8	7206.5
32.5°	7829.1	6574.3	5679.1	5581.3	5932.4	6799.9	7912.3	8421.5	7819.4	7689.1
35°	8053.5	6828.9	5890.2	5776.8	6178.6	6978.5	8151.2	8928.2	8402.2	8205.5
37.5°	8300.8	7124.5	6219.6	6123.1	6590.0	7326.0	8434.7	9594.2	8975.3	8727.9
40°	8569.9	7467.1	6761.3	6720.3	7243.9	7719.3	8793.1	10304.8	9629.2	9348.1
42.5°	8843.7	7861.6	7424.9	7492.5	7984.7	8270.7	9161.1	10851.4	10164.9	9854.8
45°	9092.3	8366.0	8287.5	8621.7	8848.6	8808.8	9433.7	11236.3	10631.8	10335.0
47.5°	9406.0	9100.7	9331.2	9846.4	9852.4	9393.9	9640.0	11551.2	11033.6	10736.8
50°	9757.1	9968.2	10678.9	11203.7	11062.5	9969.4	9881.3	11924.0	11448.6	11210.9
52.5°	10163.7	10939.5	11924.0	12506.7	12177.3	10596.8	10283.1	12327.0	12107.4	11879.3
55°	10636.6	11601.8	13165.5	13630.0	13298.2	11376.2	10893.6	12873.5	12851.8	12696.1
57.5°	11171.1	12301.6	13884.6	14513.2	14217.6	12290.8	11746.6	13388.7	13306.6	13219.8
59°	11593.4	12661.2	14201.9	14853.4	14674.8	12931.4	12319.7	13709.6	13411.6	13281.3
60°	11849.2	12904.9	14318.9	14899.2	14858.2	13312.7	12682.9	13866.5	13410.4	13229.4
62.5°	12608.1	13330.8	14274.3	14695.3	14855.8	14043.8	13748.2	14039.0	13161.9	12896.4
65°	12878.3	13189.6	13534.7	13482.8	13620.3	14006.4	14428.7	13849.6	12631.0	12253.4
67.5°	12352.3	11641.7	11763.5	11417.2	11349.7	12452.4	14152.4	12923.0	11592.2	11130.1
70°	10412.2	8918.6	8857.0	9016.3	8579.5	10081.6	12708.2	11138.5	9877.7	9354.1
72.5°	8195.8	6302.8	5784.0	6370.4	6357.1	7691.5	10557.0	7903.9	6673.2	6628.6
75°	6445.2	4388.1	3851.2	3946.5	4129.9	5568.1	8408.2	5019.1	4109.4	3745.0
77.5°	4326.6	3109.2	2900.5	2783.4	2981.3	3574.9	5319.5	2721.9	2304.4	2182.6
80°	2493.9	2258.6	2565.0	2328.6	2434.7	2252.6	2645.9	1248.7	1036.4	1122.1
82.5°	1622.8	1286.1	1370.6	1018.3	1392.3	1404.4	849.4	369.2	312.5	331.8
85°	1014.7	603.3	339.0	241.3	480.2	883.2	265.4	22.9	26.5	22.9
87.5°	263.0	100.1	42.2	62.7	77.2	68.8	61.5	3.6	1.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)