

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: P455016

Luminaire Tested: **GALN-SA6A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455016
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-SA6A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 15476 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 182
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

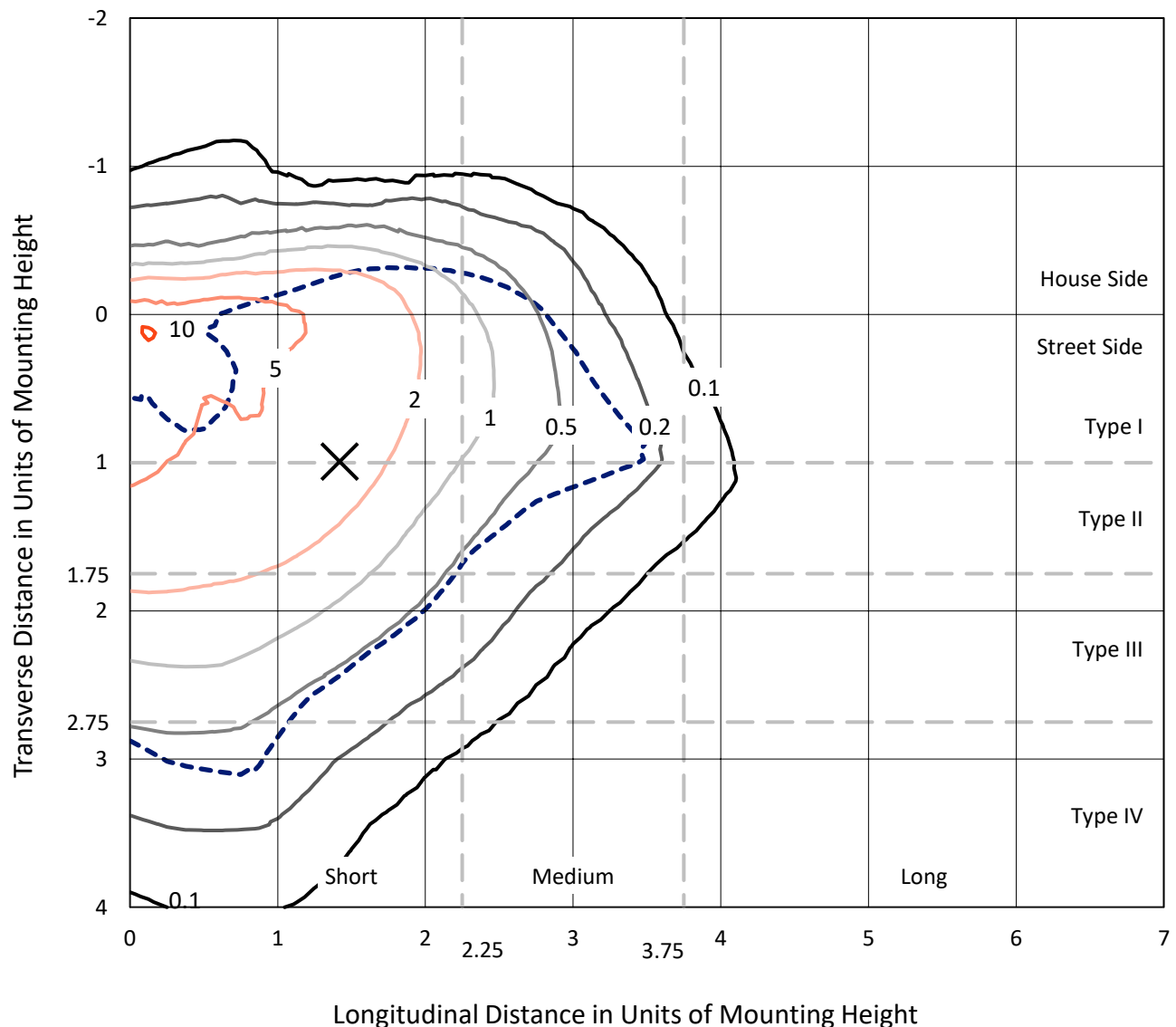


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Iso-Footcandle Lines of Horizontal Illumination

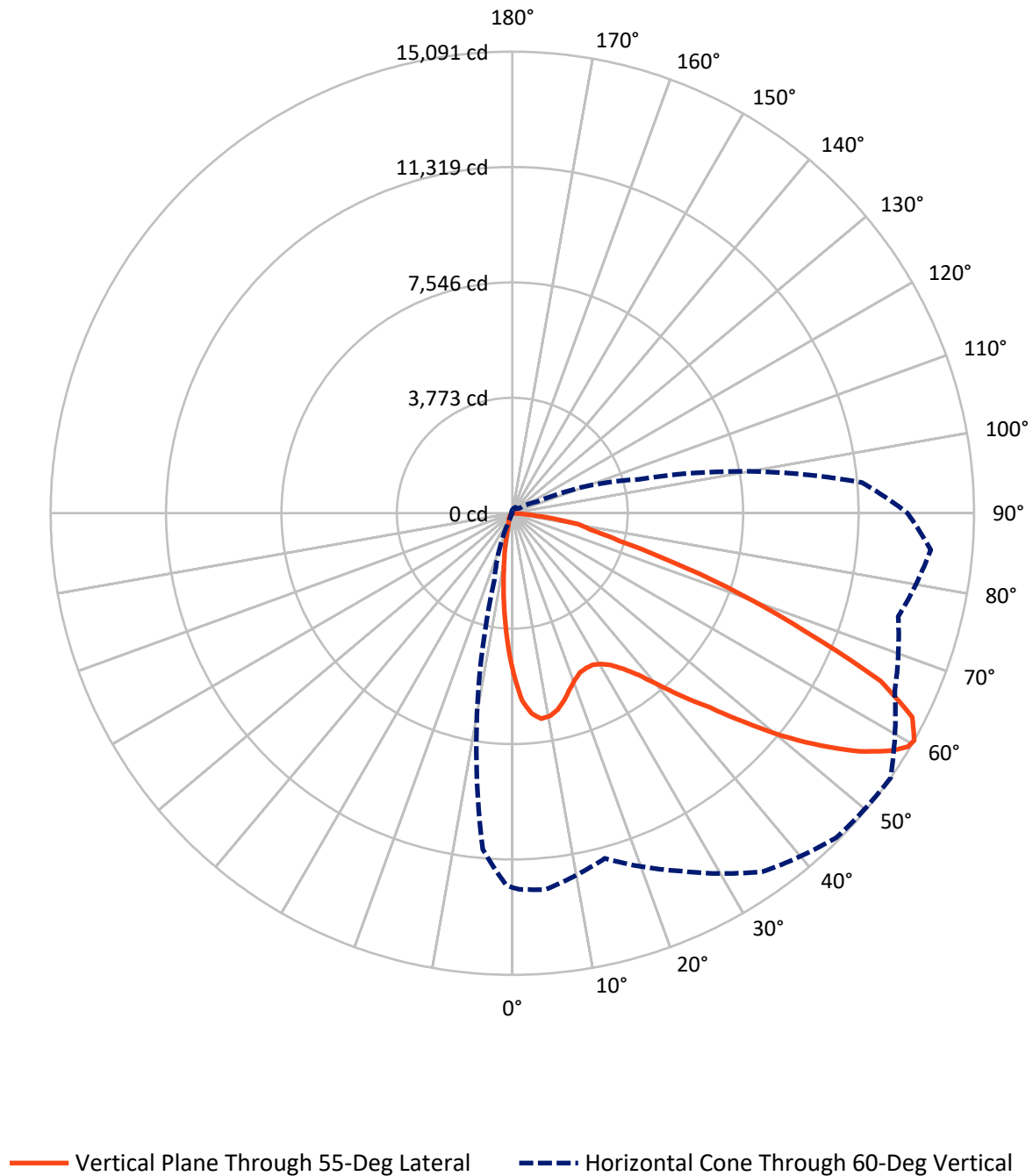
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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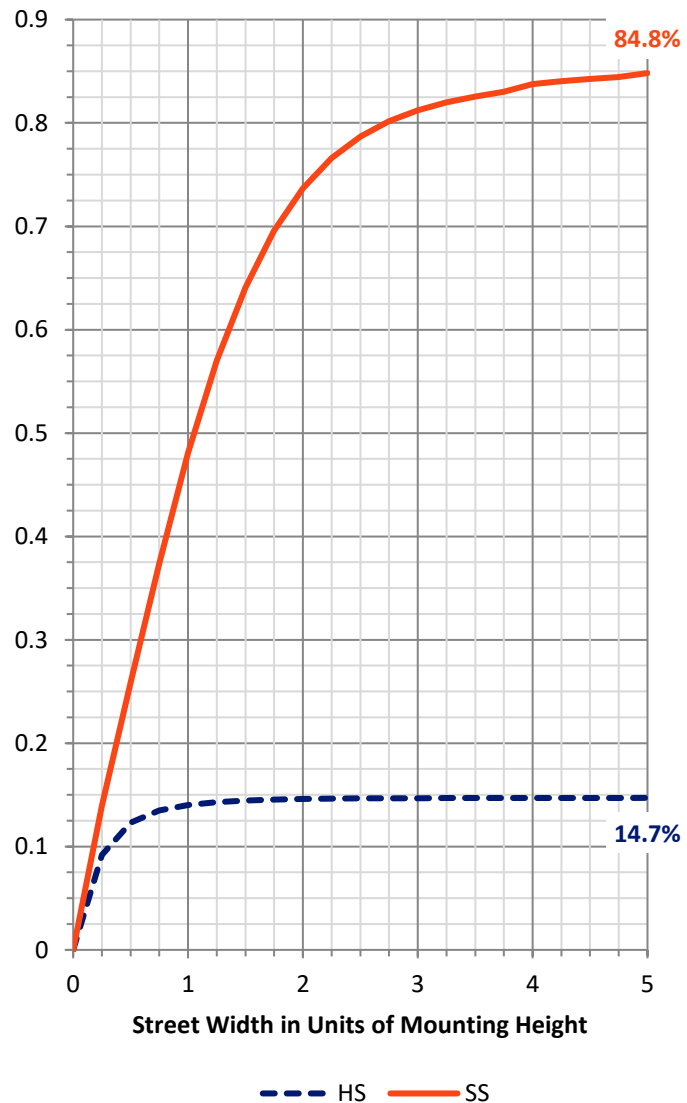
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2296.8	0.0	2296.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13179.2	0.0	13179.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	15476.0	0.0	15476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	2.5
10°-20°	764.1	4.9
20°-30°	1131.1	7.3
30°-40°	1686.0	10.9
40°-50°	2469.1	16.0
50°-60°	3564.6	23.0
60°-70°	3749.8	24.2
70°-80°	1542.5	10.0
80°-90°	180.7	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°	15476.0	100.0
0°-180°	15476.0	100.0

Coefficient of Utilization



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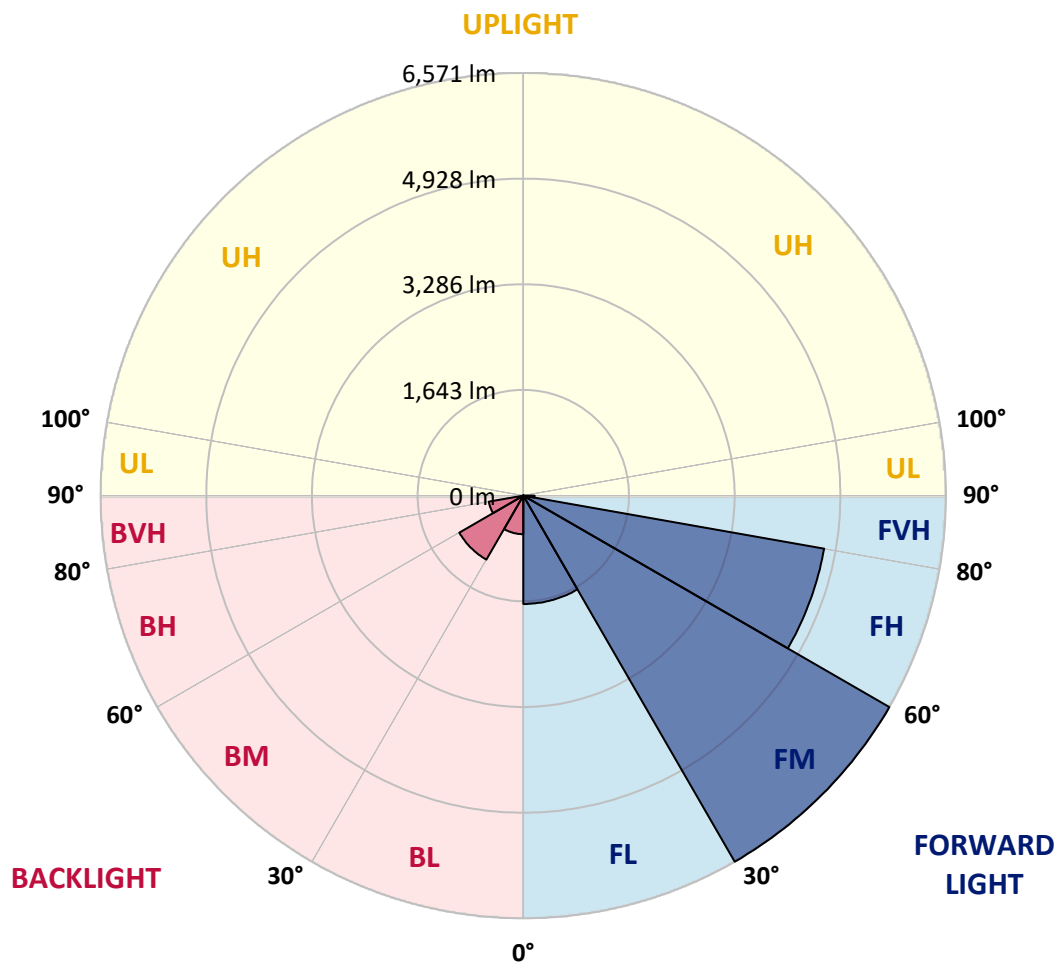
CATALOG NUMBER: GALN-SA6A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1684.0	10.9			
FM	(30°-60°)	6571.1	42.5			
FH	(60°-80°)	4748.7	30.7			G2/5000
FVH	(80°-90°)	175.4	1.1			G2/225
BL	(0°-30°)	599.2	3.9	B2/1000		
BM	(30°-60°)	1148.6	7.4	B2/2500		
BH	(60°-80°)	543.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1
2.5°	5725.0	5715.4	5800.0	5938.2	6077.6	6150.2	6135.9	6130.0	6014.4	5929.8	5752.4
5°	5713.0	5761.9	5913.2	6287.2	6570.7	6707.7	6748.2	6577.9	6352.7	6026.3	5623.7
7.5°	5371.2	5431.9	5678.5	6263.4	6767.3	7065.1	7054.3	6781.6	6317.0	5811.9	5237.7
10°	4947.1	5018.6	5308.0	6018.0	6672.0	7065.1	7086.5	6741.1	6163.3	5515.3	4911.4
12.5°	4648.1	4732.7	5053.1	5789.3	6426.6	6813.7	6838.7	6588.6	6047.8	5400.9	4733.9
15°	4546.8	4626.7	4951.9	5673.7	6165.7	6374.2	6368.2	6342.0	6002.5	5428.3	4743.4
17.5°	4720.8	4786.3	5153.2	5726.1	5921.5	5900.1	5931.0	6057.3	6012.0	5658.2	5043.6
20°	5169.8	5236.6	5630.8	5887.0	5734.5	5598.7	5613.0	5823.8	6100.2	6090.7	5512.9
22.5°	5788.1	5901.3	6258.6	6199.1	5709.5	5411.7	5381.9	5655.9	6250.3	6588.6	6146.6
25°	6570.7	6685.1	6963.8	6697.0	5832.2	5367.6	5340.2	5604.6	6432.5	7074.6	6860.2
27.5°	7228.3	7315.2	7592.8	7181.8	6013.2	5386.6	5341.4	5611.8	6580.2	7487.9	7461.7
30°	7754.8	7819.1	7982.3	7408.1	6169.3	5470.0	5417.6	5716.6	6645.8	7689.3	7948.9
32.5°	8178.8	8287.2	8338.5	7649.9	6393.2	5627.3	5537.9	5917.9	6805.4	7938.2	8460.0
35°	8663.7	8788.7	8723.2	7881.0	6688.6	5872.7	5763.1	6244.3	7047.2	8168.1	9053.2
37.5°	9278.3	9422.5	9166.4	8124.0	7000.7	6241.9	6190.7	6702.9	7414.1	8496.9	9689.3
40°	9914.4	9997.8	9596.4	8419.5	7384.3	6779.2	6828.0	7384.3	7894.1	8891.2	10365.9
42.5°	10411.2	10489.8	10038.3	8667.2	7776.2	7416.5	7620.2	8206.2	8444.5	9295.0	10871.0
45°	10791.2	10857.9	10344.5	8937.6	8305.1	8339.7	8724.4	9053.2	8996.0	9541.6	11260.5
47.5°	11086.6	11143.8	10580.3	9228.3	9097.3	9468.9	10057.4	10196.8	9567.8	9808.4	11613.1
50°	11208.1	11224.8	10654.2	9598.8	9996.6	10907.9	11521.4	11436.8	10223.0	10105.0	11988.3
52.5°	11366.5	11362.9	10865.0	9951.4	10842.4	12194.4	12806.7	12614.9	10963.9	10549.4	12410.0
55°	11782.3	11787.0	11316.5	10451.7	11563.1	13233.1	13888.3	13748.9	11745.3	11299.8	12902.0
57.5°	12287.3	12305.2	11958.6	11036.6	12251.6	13986.0	14696.0	14642.3	12801.9	12134.9	13366.6
59°	12352.8	12388.6	12262.3	11448.7	12660.2	14217.1	14972.3	15024.7	13367.8	12685.2	13617.9
60°	12233.7	12293.3	12350.5	11682.2	12899.6	14300.5	14989.0	15091.4	13793.0	13059.2	13732.3
62.5°	11714.4	11808.5	12095.5	12400.5	13198.6	14040.8	14456.5	14670.9	14319.5	14042.0	13743.0
65°	11034.2	11083.0	11497.6	12528.0	12618.5	12828.1	12956.8	13232.0	13687.0	14420.8	13251.0
67.5°	9919.2	10063.3	10570.8	11788.2	10906.7	10658.9	10626.8	10352.8	11534.5	13517.8	12038.4
70°	8194.3	8258.7	8884.0	9664.3	8231.3	7850.1	8002.5	7900.1	8941.2	11636.9	9689.3
72.5°	6196.7	6342.0	6953.1	7703.6	5601.1	5106.7	5527.2	5489.1	6716.0	9352.2	6656.5
75°	4408.7	4502.8	5281.8	6028.7	3922.7	3323.5	3474.8	3616.5	4688.6	7384.3	3933.4
77.5°	3029.2	3110.2	3695.1	3987.0	2861.3	2741.0	2507.5	2644.5	3072.1	4381.3	2140.6
80°	1827.3	1823.7	2208.5	2280.0	1992.9	2314.5	1941.7	2179.9	1857.1	1875.0	829.1
82.5°	1186.4	1174.5	1350.8	1472.3	1109.0	1166.2	782.6	1128.1	1210.3	522.9	262.1
85°	531.3	553.9	649.2	856.5	486.0	258.5	159.6	346.6	515.8	263.3	0.0
87.5°	54.8	42.9	114.4	208.5	66.7	7.1	23.8	11.9	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°	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1
2.5°	5670.2	5601.1	5395.0	5202.0	5036.4	4833.9	4702.9	4496.8	4371.7	4333.6	4339.6
5°	5442.6	5243.7	4851.8	4538.5	4189.5	3990.6	3688.0	3397.3	3240.1	3181.7	3155.5
7.5°	4966.2	4752.9	4280.0	3788.0	3414.0	3065.0	2839.8	2583.7	2408.6	2264.5	2239.5
10°	4612.4	4332.4	3746.4	3217.5	2922.0	2660.0	2434.8	2178.7	1972.6	1808.3	1763.0
12.5°	4400.3	4087.0	3433.1	2989.9	2710.0	2440.8	2147.8	1851.1	1640.3	1462.8	1380.6
15°	4362.2	3998.9	3344.9	2826.7	2481.3	2156.1	1766.6	1446.1	1229.3	1061.4	1010.1
17.5°	4592.1	4157.3	3331.8	2656.4	2182.3	1721.3	1316.3	1050.6	806.4	712.3	675.4
20°	5001.9	4437.3	3330.6	2458.7	1875.0	1325.8	924.4	684.9	586.1	540.8	519.4
22.5°	5560.6	4818.4	3393.8	2288.3	1555.7	978.0	659.9	545.6	488.4	451.5	443.1
25°	6243.1	5383.1	3548.6	2172.8	1311.5	767.1	544.4	467.0	419.3	402.6	395.5
27.5°	6849.5	5923.9	3719.0	2053.6	1136.4	679.0	505.1	427.6	389.5	376.4	365.7
30°	7372.4	6414.7	3801.1	1896.4	995.9	621.8	512.2	457.4	407.4	368.1	350.2
32.5°	7808.4	6791.1	3854.8	1753.5	876.7	508.6	405.0	353.8	331.2	316.9	304.9
35°	8354.0	7198.5	3822.6	1672.5	816.0	463.4	369.3	304.9	266.8	238.2	226.3
37.5°	8925.7	7605.9	3766.6	1605.8	788.6	430.0	351.4	289.5	247.8	218.0	202.5
40°	9517.8	7983.5	3701.1	1543.8	763.6	408.6	340.7	276.4	234.7	202.5	185.8
42.5°	10059.8	8351.6	3674.9	1503.3	723.1	412.2	332.3	270.4	221.6	188.2	173.9
45°	10498.1	8700.6	3710.6	1481.9	679.0	406.2	334.7	263.3	210.8	178.7	164.4
47.5°	10966.3	9193.8	3826.2	1460.4	636.1	377.6	352.6	262.1	206.1	172.7	157.2
50°	11510.7	9825.1	4090.6	1408.0	583.7	346.6	375.2	260.9	200.1	165.6	150.1
52.5°	12236.1	10542.2	4363.4	1316.3	507.5	316.9	358.6	257.3	188.2	157.2	141.8
55°	12887.7	11297.4	4594.5	1207.9	411.0	274.0	322.8	241.8	168.0	142.9	128.7
57.5°	13156.9	11723.9	4587.3	1057.8	328.8	240.6	265.6	221.6	146.5	126.3	114.4
59°	13058.0	11670.3	4433.7	947.0	300.2	222.8	220.4	219.2	137.0	114.4	104.8
60°	12918.7	11474.9	4268.1	892.2	282.3	210.8	202.5	216.8	128.7	107.2	97.7
62.5°	12385.0	10664.9	3719.0	799.3	258.5	178.7	162.0	183.4	114.4	92.9	84.6
65°	11611.9	9420.1	3148.4	773.1	251.3	147.7	134.6	131.0	97.7	78.6	71.5
67.5°	10103.8	7971.6	2550.4	755.2	253.7	123.9	117.9	98.9	81.0	65.5	60.8
70°	8089.5	6215.7	2088.2	735.0	256.1	101.3	98.9	78.6	65.5	54.8	50.0
72.5°	4914.9	3684.4	1643.9	638.5	249.0	81.0	88.1	59.6	47.6	39.3	36.9
75°	3038.8	2521.8	1019.7	496.7	164.4	59.6	61.9	36.9	32.2	25.0	25.0
77.5°	1760.6	1592.6	364.5	178.7	72.7	35.7	27.4	19.1	17.9	10.7	10.7
80°	730.2	584.9	126.3	60.8	39.3	16.7	6.0	1.2	0.0	0.0	0.0
82.5°	213.2	189.4	34.5	27.4	11.9	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°	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1
2.5°	4238.3	4199.0	4181.1	4241.9	4185.9	4257.4	4202.6	4226.4	4296.7	4327.7	4407.5
5°	3172.2	3131.7	3112.6	3204.4	3199.6	3244.9	3240.1	3281.8	3317.5	3237.7	3319.9
7.5°	2209.7	2182.3	2227.6	2299.0	2375.3	2350.3	2350.3	2294.3	2313.3	2301.4	2297.8
10°	1680.8	1586.7	1562.9	1560.5	1589.1	1595.0	1562.9	1485.4	1514.0	1522.4	1572.4
12.5°	1322.2	1249.6	1138.8	1088.8	1075.7	1086.4	980.4	912.5	944.6	925.6	974.4
15°	948.2	888.6	823.1	767.1	751.7	730.2	614.7	533.7	524.1	527.7	536.0
17.5°	676.6	636.1	636.1	576.5	544.4	480.1	421.7	386.0	382.4	386.0	391.9
20°	499.1	477.7	475.3	459.8	424.1	381.2	340.7	333.5	331.2	337.1	339.5
22.5°	430.0	407.4	388.3	387.1	353.8	318.1	299.0	289.5	290.7	293.0	299.0
25°	384.8	360.9	340.7	328.8	304.9	279.9	262.1	257.3	257.3	260.9	262.1
27.5°	352.6	322.8	304.9	288.3	266.8	245.4	229.9	226.3	223.9	226.3	232.3
30°	330.0	300.2	277.6	252.5	235.9	215.6	202.5	197.7	196.5	197.7	202.5
32.5°	282.3	264.4	246.6	223.9	203.7	190.6	176.3	168.0	168.0	170.3	175.1
35°	213.2	203.7	202.5	196.5	179.9	165.6	148.9	140.6	140.6	145.3	147.7
37.5°	188.2	170.3	168.0	165.6	158.4	139.4	123.9	116.7	115.5	119.1	123.9
40°	171.5	151.3	140.6	138.2	139.4	117.9	101.3	94.1	94.1	95.3	100.1
42.5°	158.4	134.6	115.5	113.2	117.9	98.9	82.2	75.0	75.0	75.0	81.0
45°	147.7	120.3	97.7	85.8	92.9	81.0	66.7	59.6	57.2	59.6	61.9
47.5°	140.6	109.6	85.8	69.1	69.1	64.3	53.6	45.3	42.9	44.1	47.6
50°	134.6	100.1	72.7	56.0	50.0	51.2	40.5	34.5	32.2	32.2	35.7
52.5°	125.1	90.5	63.1	47.6	38.1	34.5	29.8	25.0	23.8	25.0	27.4
55°	113.2	82.2	54.8	39.3	29.8	23.8	21.4	17.9	16.7	17.9	21.4
57.5°	100.1	69.1	44.1	31.0	20.3	15.5	14.3	11.9	9.5	10.7	13.1
59°	91.7	61.9	38.1	25.0	15.5	10.7	10.7	8.3	6.0	7.1	10.7
60°	88.1	57.2	32.2	21.4	13.1	8.3	8.3	6.0	3.6	4.8	8.3
62.5°	75.0	47.6	25.0	13.1	6.0	1.2	3.6	1.2	0.0	1.2	3.6
65°	63.1	38.1	16.7	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	52.4	28.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	41.7	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.1	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: P455016

CATALOG NUMBER: GALN-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1	5240.1
2.5°	4412.2	4582.6	4687.4	4885.2	5087.7	5243.7	5439.1	5614.2	5686.8	5725.0
5°	3403.3	3640.3	3841.7	4143.0	4423.0	4763.6	5109.1	5516.5	5672.5	5713.0
7.5°	2388.4	2630.2	2841.0	3190.1	3589.1	4045.3	4562.3	5079.3	5306.8	5371.2
10°	1724.9	1983.4	2240.7	2589.7	2962.5	3456.9	3995.3	4635.0	4897.1	4947.1
12.5°	1088.8	1366.3	1784.4	2215.6	2609.9	3007.8	3571.2	4266.9	4556.4	4648.1
15°	631.3	838.6	1154.3	1716.5	2218.0	2744.5	3359.2	4128.7	4452.7	4546.8
17.5°	422.9	494.4	711.2	1141.2	1803.5	2501.5	3305.6	4241.9	4600.5	4720.8
20°	356.2	388.3	464.6	695.7	1389.0	2284.7	3319.9	4549.2	5019.8	5169.8
22.5°	313.3	343.1	391.9	500.3	969.6	2015.5	3387.8	4988.8	5596.3	5788.1
25°	276.4	306.1	349.0	414.5	651.6	1704.6	3536.7	5632.0	6359.9	6570.7
27.5°	245.4	272.8	309.7	365.7	501.5	1358.0	3668.9	6258.6	7056.7	7228.3
30°	216.8	239.4	275.2	318.1	416.9	1047.1	3735.6	6806.6	7564.2	7754.8
32.5°	188.2	209.7	244.2	278.7	343.1	798.1	3689.2	7209.2	8057.3	8178.8
35°	160.8	183.4	212.0	244.2	296.6	644.4	3456.9	7661.9	8568.4	8663.7
37.5°	138.2	157.2	187.0	212.0	268.0	515.8	3175.8	8069.3	9141.3	9278.3
40°	116.7	135.8	165.6	188.2	246.6	406.2	2922.0	8521.9	9745.3	9914.4
42.5°	95.3	117.9	144.1	181.1	212.0	309.7	2614.7	8888.8	10199.1	10411.2
45°	76.2	101.3	129.8	179.9	184.6	235.9	2318.1	9174.7	10600.6	10791.2
47.5°	60.8	85.8	125.1	168.0	151.3	187.0	2148.9	9473.7	10934.1	11086.6
50°	48.8	71.5	131.0	147.7	126.3	158.4	2144.2	9807.2	11106.8	11208.1
52.5°	39.3	58.4	110.8	113.2	107.2	139.4	2272.8	10182.5	11283.1	11366.5
55°	33.4	48.8	72.7	83.4	96.5	126.3	2369.3	10760.2	11703.6	11782.3
57.5°	26.2	41.7	56.0	66.7	85.8	115.5	2382.4	11205.7	12236.1	12287.3
59°	22.6	35.7	50.0	59.6	78.6	108.4	2328.8	11233.1	12270.6	12352.8
60°	19.1	32.2	44.1	56.0	72.7	102.4	2270.4	11034.2	12142.0	12233.7
62.5°	14.3	25.0	32.2	45.3	59.6	88.1	1994.1	10339.7	11650.0	11714.4
65°	9.5	17.9	23.8	33.4	46.5	76.2	1624.8	9439.1	10890.0	11034.2
67.5°	6.0	13.1	19.1	25.0	38.1	64.3	1157.9	8094.3	9826.3	9919.2
70°	3.6	8.3	14.3	20.3	29.8	51.2	687.3	6398.0	8175.3	8194.3
72.5°	2.4	6.0	9.5	14.3	23.8	46.5	333.5	4170.4	5969.2	6196.7
75°	1.2	3.6	6.0	10.7	19.1	38.1	159.6	2786.2	4343.2	4408.7
77.5°	0.0	1.2	3.6	7.1	14.3	29.8	92.9	1829.7	2961.3	3029.2
80°	0.0	0.0	2.4	6.0	10.7	19.1	56.0	1079.2	1794.0	1827.3
82.5°	0.0	0.0	1.2	4.8	7.1	14.3	28.6	474.1	1174.5	1186.4
85°	0.0	0.0	1.2	4.8	6.0	9.5	10.7	64.3	521.7	531.3
87.5°	0.0	0.0	1.2	6.0	6.0	6.0	6.0	3.6	44.1	54.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)