

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: P452464

Luminaire Tested: **GALN-SA3B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452464
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-SA3B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 9694 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

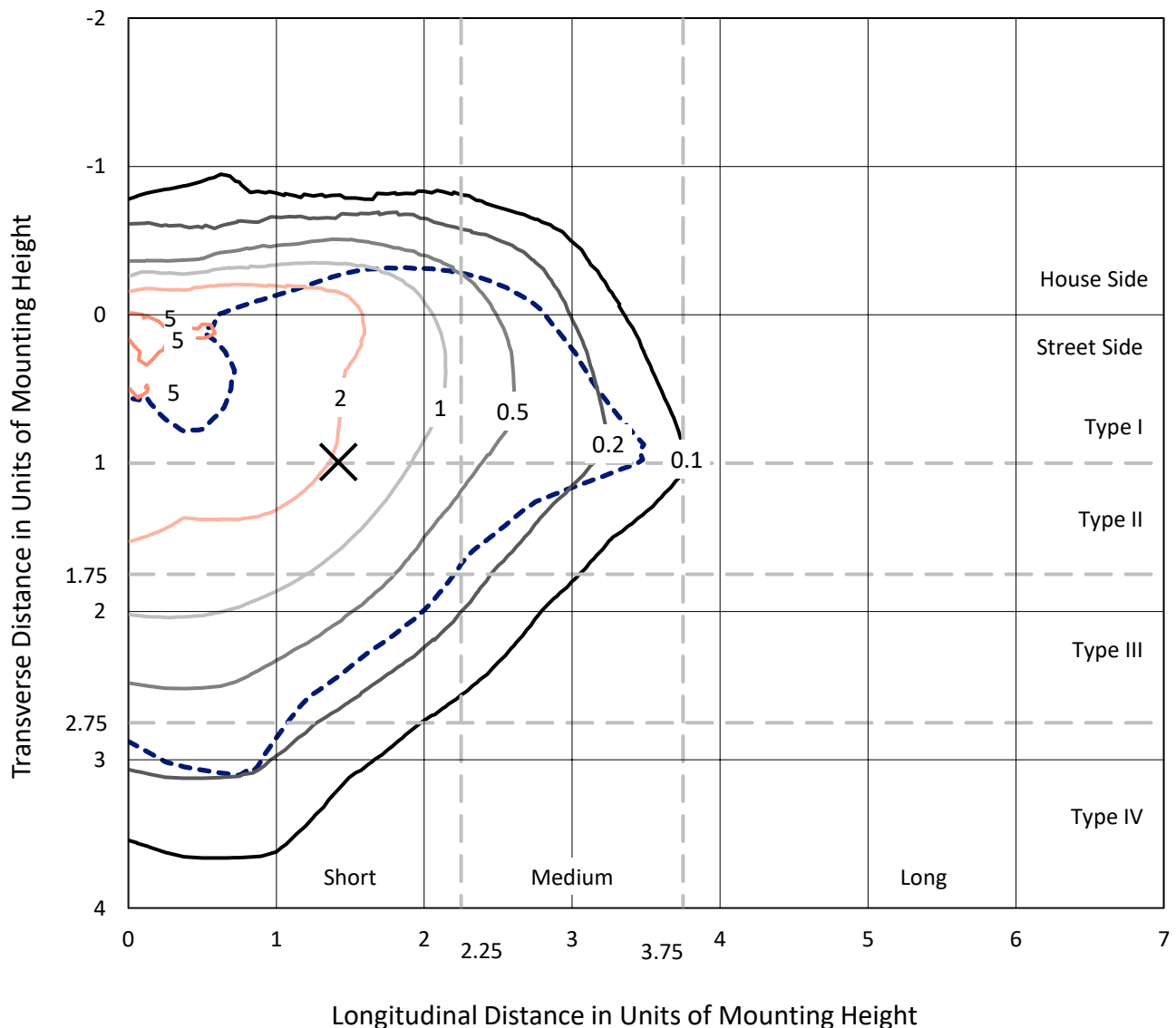


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

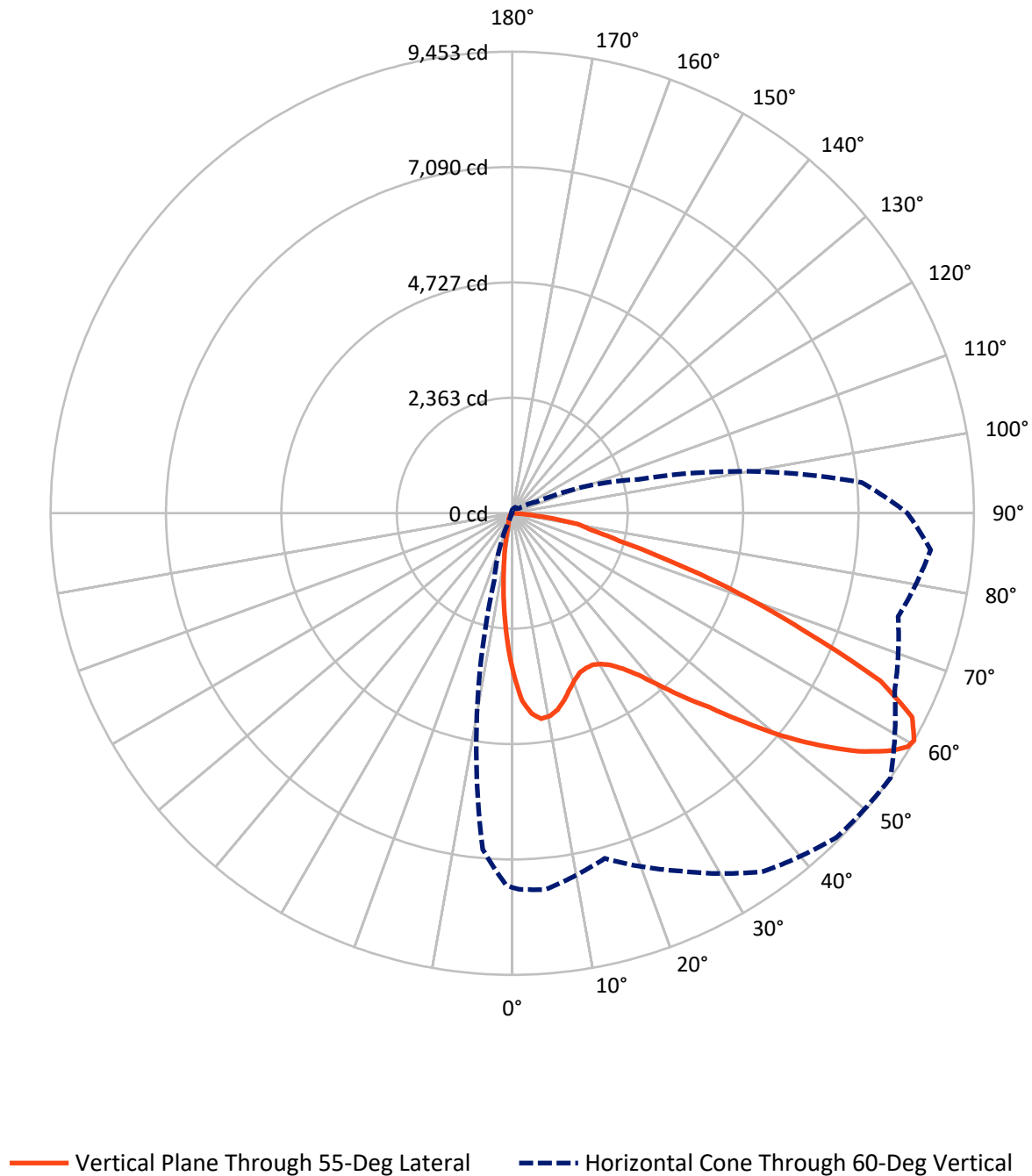


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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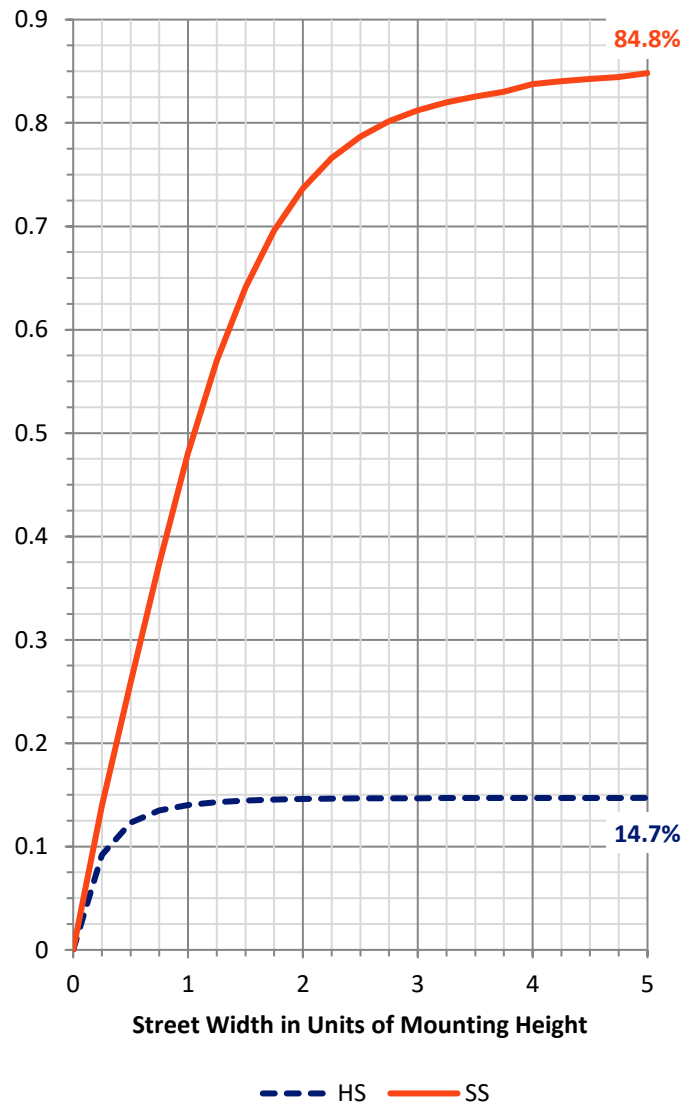
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1438.7	0.0	1438.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8255.3	0.0	8255.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	9694.0	0.0	9694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	2.5
10°-20°	478.6	4.9
20°-30°	708.5	7.3
30°-40°	1056.1	10.9
40°-50°	1546.6	16.0
50°-60°	2232.8	23.0
60°-70°	2348.8	24.2
70°-80°	966.2	10.0
80°-90°	113.2	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°	9694.0	100.0
0°-180°	9694.0	100.0

Coefficient of Utilization



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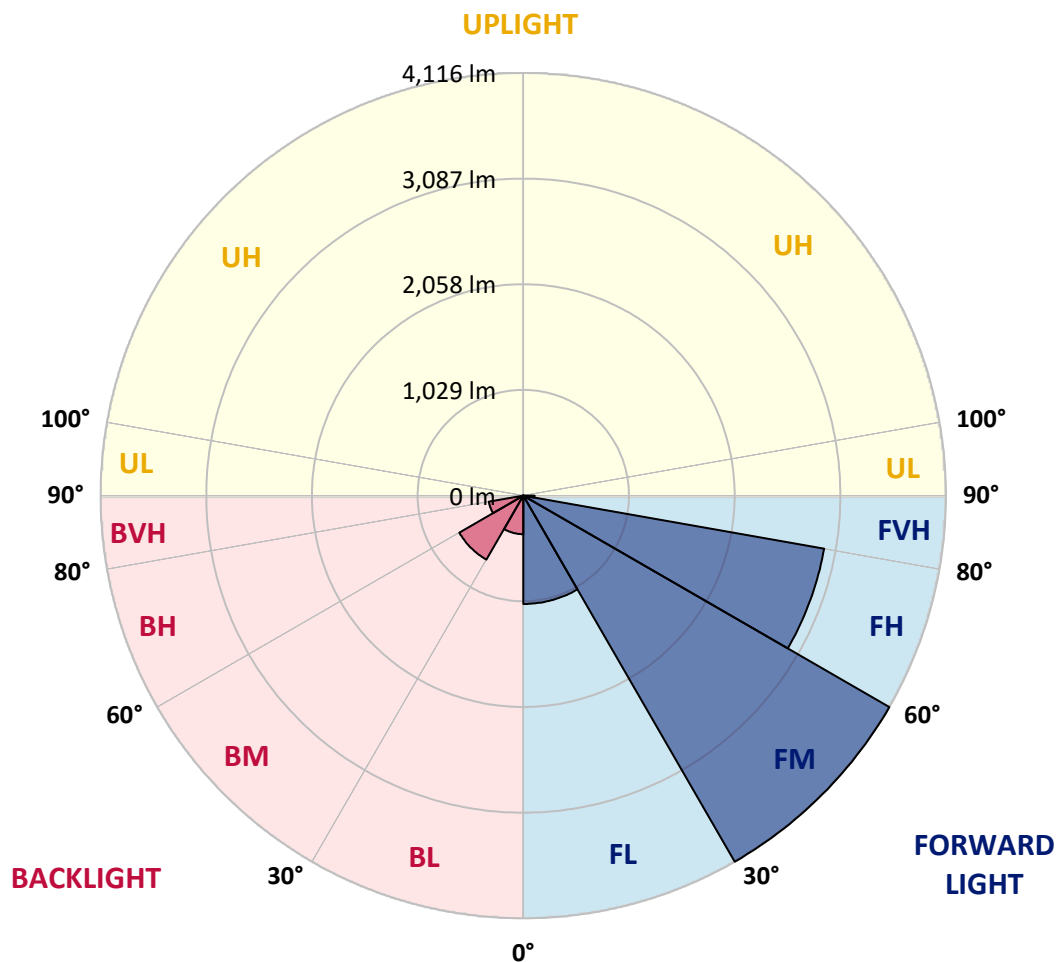
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.8	10.9			
FM	(30°-60°)	4116.1	42.5			
FH	(60°-80°)	2974.6	30.7			G2/5000
FVH	(80°-90°)	109.8	1.1			G2/225
BL	(0°-30°)	375.4	3.9	B1/500		
BM	(30°-60°)	719.5	7.4	B1/1000		
BH	(60°-80°)	340.5	3.5	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
2.5°	3586.0	3580.1	3633.1	3719.6	3806.9	3852.4	3843.5	3839.7	3767.4	3714.4	3603.2
5°	3578.6	3609.2	3703.9	3938.2	4115.8	4201.6	4227.0	4120.3	3979.3	3774.8	3522.6
7.5°	3364.4	3402.5	3556.9	3923.3	4238.9	4425.5	4418.8	4247.9	3956.9	3640.5	3280.9
10°	3098.8	3143.6	3324.9	3769.6	4179.2	4425.5	4438.9	4222.5	3860.6	3454.7	3076.4
12.5°	2911.5	2964.5	3165.2	3626.3	4025.5	4268.0	4283.7	4127.0	3788.3	3383.1	2965.2
15°	2848.1	2898.1	3101.8	3554.0	3862.1	3992.7	3989.0	3972.6	3759.9	3400.3	2971.2
17.5°	2957.0	2998.1	3227.9	3586.8	3709.2	3695.7	3715.1	3794.2	3765.9	3544.3	3159.2
20°	3238.3	3280.1	3527.1	3687.5	3592.0	3507.0	3515.9	3648.0	3821.1	3815.1	3453.2
22.5°	3625.6	3696.5	3920.3	3883.0	3576.3	3389.8	3371.2	3542.8	3915.1	4127.0	3850.2
25°	4115.8	4187.5	4362.1	4194.9	3653.2	3362.2	3345.0	3510.7	4029.3	4431.4	4297.1
27.5°	4527.7	4582.2	4756.0	4498.6	3766.6	3374.1	3345.8	3515.2	4121.8	4690.4	4674.0
30°	4857.5	4897.8	5000.0	4640.4	3864.4	3426.4	3393.5	3580.8	4162.8	4816.5	4979.1
32.5°	5123.1	5191.0	5223.1	4791.8	4004.6	3524.9	3468.9	3706.9	4262.8	4972.4	5299.2
35°	5426.8	5505.2	5464.1	4936.6	4189.7	3678.6	3609.9	3911.4	4414.3	5116.4	5670.8
37.5°	5811.8	5902.1	5741.7	5088.8	4385.2	3909.9	3877.8	4198.6	4644.1	5322.4	6069.3
40°	6210.3	6262.5	6011.1	5273.9	4625.5	4246.4	4277.0	4625.5	4944.8	5569.3	6493.1
42.5°	6521.4	6570.7	6287.9	5429.1	4870.9	4645.6	4773.2	5140.3	5289.5	5822.3	6809.5
45°	6759.5	6801.3	6479.7	5598.4	5202.2	5223.9	5464.9	5670.8	5635.0	5976.7	7053.5
47.5°	6944.5	6980.3	6627.4	5780.5	5698.4	5931.2	6299.8	6387.1	5993.2	6143.9	7274.3
50°	7020.6	7031.1	6673.7	6012.6	6261.8	6832.6	7216.9	7163.9	6403.6	6329.7	7509.4
52.5°	7119.9	7117.6	6805.7	6233.4	6791.6	7638.4	8022.0	7901.8	6867.7	6608.0	7773.5
55°	7380.3	7383.3	7088.5	6546.8	7243.0	8289.1	8699.5	8612.2	7357.1	7078.1	8081.7
57.5°	7696.6	7707.8	7490.7	6913.2	7674.3	8760.7	9205.4	9171.8	8019.0	7601.1	8372.7
59°	7737.7	7760.1	7681.0	7171.4	7930.2	8905.4	9378.5	9411.3	8373.4	7945.9	8530.1
60°	7663.1	7700.4	7736.2	7317.6	8080.2	8957.7	9388.9	9453.1	8639.8	8180.2	8601.7
62.5°	7337.7	7396.7	7576.5	7767.5	8267.5	8795.0	9055.4	9189.7	8969.6	8795.7	8608.5
65°	6911.7	6942.3	7201.9	7847.4	7904.1	8035.4	8116.0	8288.4	8573.4	9033.0	8300.3
67.5°	6213.3	6303.6	6621.4	7384.0	6831.8	6676.6	6656.5	6484.9	7225.1	8467.4	7540.7
70°	5132.8	5173.1	5564.9	6053.6	5156.0	4917.2	5012.7	4948.5	5600.7	7289.2	6069.3
72.5°	3881.5	3972.6	4355.3	4825.4	3508.4	3198.8	3462.2	3438.3	4206.9	5858.1	4169.5
75°	2761.5	2820.5	3308.5	3776.3	2457.1	2081.8	2176.6	2265.3	2936.9	4625.5	2463.8
77.5°	1897.5	1948.2	2314.6	2497.4	1792.3	1716.9	1570.7	1656.5	1924.3	2744.4	1340.9
80°	1144.6	1142.4	1383.4	1428.2	1248.3	1449.8	1216.2	1365.5	1163.3	1174.5	519.3
82.5°	743.2	735.7	846.1	922.3	694.7	730.5	490.2	706.6	758.1	327.6	164.2
85°	332.8	347.0	406.7	536.5	304.4	161.9	100.0	217.1	323.1	164.9	0.0
87.5°	34.3	26.9	71.6	130.6	41.8	4.5	14.9	7.5	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°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
2.5°	3551.7	3508.4	3379.4	3258.5	3154.8	3027.9	2945.8	2816.8	2738.4	2714.5	2718.3
5°	3409.2	3284.6	3039.1	2842.9	2624.2	2499.6	2310.1	2128.1	2029.6	1993.0	1976.6
7.5°	3110.7	2977.2	2681.0	2372.8	2138.5	1919.9	1778.8	1618.4	1508.7	1418.5	1402.8
10°	2889.1	2713.8	2346.7	2015.4	1830.3	1666.2	1525.2	1364.7	1235.6	1132.7	1104.3
12.5°	2756.3	2560.1	2150.4	1872.9	1697.5	1528.9	1345.3	1159.5	1027.5	916.3	864.8
15°	2732.4	2504.9	2095.2	1770.6	1554.3	1350.6	1106.6	905.8	770.0	664.8	632.7
17.5°	2876.5	2604.1	2087.0	1663.9	1367.0	1078.2	824.5	658.1	505.2	446.2	423.1
20°	3133.1	2779.4	2086.3	1540.1	1174.5	830.5	579.0	429.0	367.1	338.8	325.3
22.5°	3483.1	3018.2	2125.8	1433.4	974.5	612.6	413.4	341.7	305.9	282.8	277.6
25°	3910.6	3371.9	2222.8	1361.0	821.5	480.5	341.0	292.5	262.6	252.2	247.7
27.5°	4290.4	3710.7	2329.5	1286.4	711.8	425.3	316.4	267.9	244.0	235.8	229.1
30°	4618.0	4018.1	2381.0	1187.9	623.8	389.5	320.8	286.5	255.2	230.6	219.4
32.5°	4891.1	4253.9	2414.6	1098.3	549.2	318.6	253.7	221.6	207.4	198.5	191.0
35°	5232.8	4509.1	2394.4	1047.6	511.1	290.3	231.3	191.0	167.1	149.2	141.8
37.5°	5591.0	4764.2	2359.4	1005.8	494.0	269.4	220.1	181.3	155.2	136.5	126.8
40°	5961.8	5000.8	2318.3	967.0	478.3	255.9	213.4	173.1	147.0	126.8	116.4
42.5°	6301.3	5231.3	2301.9	941.7	452.9	258.2	208.2	169.4	138.8	117.9	108.9
45°	6575.9	5450.0	2324.3	928.2	425.3	254.4	209.7	164.9	132.1	111.9	103.0
47.5°	6869.2	5758.9	2396.7	914.8	398.4	236.5	220.9	164.2	129.1	108.2	98.5
50°	7210.2	6154.3	2562.3	882.0	365.6	217.1	235.0	163.4	125.4	103.7	94.0
52.5°	7664.6	6603.5	2733.2	824.5	317.9	198.5	224.6	161.2	117.9	98.5	88.8
55°	8072.7	7076.6	2877.9	756.6	257.4	171.6	202.2	151.5	105.2	89.5	80.6
57.5°	8241.3	7343.7	2873.5	662.6	205.9	150.7	166.4	138.8	91.8	79.1	71.6
59°	8179.4	7310.1	2777.2	593.2	188.0	139.5	138.0	137.3	85.8	71.6	65.7
60°	8092.1	7187.8	2673.5	558.9	176.8	132.1	126.8	135.8	80.6	67.2	61.2
62.5°	7757.8	6680.4	2329.5	500.7	161.9	111.9	101.5	114.9	71.6	58.2	53.0
65°	7273.6	5900.6	1972.1	484.3	157.4	92.5	84.3	82.1	61.2	49.2	44.8
67.5°	6328.9	4993.3	1597.5	473.1	158.9	77.6	73.9	61.9	50.7	41.0	38.1
70°	5067.2	3893.5	1308.0	460.4	160.4	63.4	61.9	49.2	41.0	34.3	31.3
72.5°	3078.7	2307.9	1029.7	399.9	155.9	50.7	55.2	37.3	29.8	24.6	23.1
75°	1903.5	1579.6	638.7	311.1	103.0	37.3	38.8	23.1	20.1	15.7	15.7
77.5°	1102.8	997.6	228.3	111.9	45.5	22.4	17.2	11.9	11.2	6.7	6.7
80°	457.4	366.4	79.1	38.1	24.6	10.4	3.7	0.7	0.0	0.0	0.0
82.5°	133.6	118.6	21.6	17.2	7.5	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°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
2.5°	2654.8	2630.2	2619.0	2657.1	2622.0	2666.8	2632.5	2647.4	2691.4	2710.8	2760.8
5°	1987.0	1961.7	1949.7	2007.2	2004.2	2032.5	2029.6	2055.7	2078.1	2028.1	2079.6
7.5°	1384.1	1367.0	1395.3	1440.1	1487.8	1472.2	1472.2	1437.1	1449.0	1441.6	1439.3
10°	1052.8	993.9	979.0	977.5	995.4	999.1	979.0	930.5	948.4	953.6	984.9
12.5°	828.2	782.7	713.3	682.0	673.8	680.5	614.1	571.6	591.7	579.8	610.4
15°	593.9	556.6	515.6	480.5	470.8	457.4	385.0	334.3	328.3	330.5	335.8
17.5°	423.8	398.4	398.4	361.1	341.0	300.7	264.1	241.8	239.5	241.8	245.5
20°	312.6	299.2	297.7	288.0	265.6	238.8	213.4	208.9	207.4	211.2	212.7
22.5°	269.4	255.2	243.2	242.5	221.6	199.2	187.3	181.3	182.1	183.6	187.3
25°	241.0	226.1	213.4	205.9	191.0	175.3	164.2	161.2	161.2	163.4	164.2
27.5°	220.9	202.2	191.0	180.6	167.1	153.7	144.0	141.8	140.3	141.8	145.5
30°	206.7	188.0	173.9	158.2	147.7	135.1	126.8	123.9	123.1	123.9	126.8
32.5°	176.8	165.6	154.5	140.3	127.6	119.4	110.4	105.2	105.2	106.7	109.7
35°	133.6	127.6	126.8	123.1	112.7	103.7	93.3	88.0	88.0	91.0	92.5
37.5°	117.9	106.7	105.2	103.7	99.2	87.3	77.6	73.1	72.4	74.6	77.6
40°	107.4	94.8	88.0	86.6	87.3	73.9	63.4	58.9	58.9	59.7	62.7
42.5°	99.2	84.3	72.4	70.9	73.9	61.9	51.5	47.0	47.0	47.0	50.7
45°	92.5	75.4	61.2	53.7	58.2	50.7	41.8	37.3	35.8	37.3	38.8
47.5°	88.0	68.6	53.7	43.3	43.3	40.3	33.6	28.4	26.9	27.6	29.8
50°	84.3	62.7	45.5	35.1	31.3	32.1	25.4	21.6	20.1	20.1	22.4
52.5°	78.3	56.7	39.5	29.8	23.9	21.6	18.7	15.7	14.9	15.7	17.2
55°	70.9	51.5	34.3	24.6	18.7	14.9	13.4	11.2	10.4	11.2	13.4
57.5°	62.7	43.3	27.6	19.4	12.7	9.7	9.0	7.5	6.0	6.7	8.2
59°	57.5	38.8	23.9	15.7	9.7	6.7	6.7	5.2	3.7	4.5	6.7
60°	55.2	35.8	20.1	13.4	8.2	5.2	5.2	3.7	2.2	3.0	5.2
62.5°	47.0	29.8	15.7	8.2	3.7	0.7	2.2	0.7	0.0	0.7	2.2
65°	39.5	23.9	10.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	32.8	17.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	26.1	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.5	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: P452464

CATALOG NUMBER: GALN-SA3B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
2.5°	2763.8	2870.5	2936.1	3060.0	3186.9	3284.6	3407.0	3516.7	3562.2	3586.0
5°	2131.8	2280.3	2406.4	2595.1	2770.5	2983.9	3200.3	3455.5	3553.2	3578.6
7.5°	1496.1	1647.5	1779.6	1998.2	2248.2	2534.0	2857.8	3181.6	3324.1	3364.4
10°	1080.4	1242.4	1403.5	1622.2	1855.7	2165.4	2502.6	2903.3	3067.5	3098.8
12.5°	682.0	855.8	1117.7	1387.9	1634.8	1884.1	2237.0	2672.7	2854.1	2911.5
15°	395.5	525.3	723.0	1075.2	1389.4	1719.2	2104.2	2586.2	2789.1	2848.1
17.5°	264.9	309.7	445.5	714.8	1129.7	1566.9	2070.6	2657.1	2881.7	2957.0
20°	223.1	243.2	291.0	435.8	870.0	1431.1	2079.6	2849.6	3144.3	3238.3
22.5°	196.2	214.9	245.5	313.4	607.4	1262.5	2122.1	3124.9	3505.5	3625.6
25°	173.1	191.8	218.6	259.7	408.1	1067.8	2215.4	3527.8	3983.8	4115.8
27.5°	153.7	170.9	194.0	229.1	314.1	850.6	2298.2	3920.3	4420.3	4527.7
30°	135.8	150.0	172.4	199.2	261.2	655.9	2340.0	4263.6	4738.1	4857.5
32.5°	117.9	131.3	153.0	174.6	214.9	499.9	2310.9	4515.8	5047.0	5123.1
35°	100.7	114.9	132.8	153.0	185.8	403.7	2165.4	4799.3	5367.1	5426.8
37.5°	86.6	98.5	117.1	132.8	167.9	323.1	1989.3	5054.5	5726.0	5811.8
40°	73.1	85.1	103.7	117.9	154.5	254.4	1830.3	5338.0	6104.3	6210.3
42.5°	59.7	73.9	90.3	113.4	132.8	194.0	1637.8	5567.9	6388.6	6521.4
45°	47.8	63.4	81.3	112.7	115.7	147.7	1452.0	5746.9	6640.1	6759.5
47.5°	38.1	53.7	78.3	105.2	94.8	117.1	1346.1	5934.2	6849.0	6944.5
50°	30.6	44.8	82.1	92.5	79.1	99.2	1343.1	6143.1	6957.2	7020.6
52.5°	24.6	36.6	69.4	70.9	67.2	87.3	1423.7	6378.2	7067.6	7119.9
55°	20.9	30.6	45.5	52.2	60.4	79.1	1484.1	6740.1	7331.0	7380.3
57.5°	16.4	26.1	35.1	41.8	53.7	72.4	1492.3	7019.1	7664.6	7696.6
59°	14.2	22.4	31.3	37.3	49.2	67.9	1458.7	7036.3	7686.2	7737.7
60°	11.9	20.1	27.6	35.1	45.5	64.2	1422.2	6911.7	7605.6	7663.1
62.5°	9.0	15.7	20.1	28.4	37.3	55.2	1249.1	6476.7	7297.5	7337.7
65°	6.0	11.2	14.9	20.9	29.1	47.8	1017.8	5912.6	6821.4	6911.7
67.5°	3.7	8.2	11.9	15.7	23.9	40.3	725.3	5070.2	6155.1	6213.3
70°	2.2	5.2	9.0	12.7	18.7	32.1	430.5	4007.6	5120.9	5132.8
72.5°	1.5	3.7	6.0	9.0	14.9	29.1	208.9	2612.3	3739.0	3881.5
75°	0.7	2.2	3.7	6.7	11.9	23.9	100.0	1745.3	2720.5	2761.5
77.5°	0.0	0.7	2.2	4.5	9.0	18.7	58.2	1146.1	1855.0	1897.5
80°	0.0	0.0	1.5	3.7	6.7	11.9	35.1	676.0	1123.7	1144.6
82.5°	0.0	0.0	0.7	3.0	4.5	9.0	17.9	297.0	735.7	743.2
85°	0.0	0.0	0.7	3.0	3.7	6.0	6.7	40.3	326.8	332.8
87.5°	0.0	0.0	0.7	3.7	3.7	3.7	3.7	2.2	27.6	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)