

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: P456178

Luminaire Tested: **GALN-SA7B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456178
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-SA7B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 22618 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 286
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



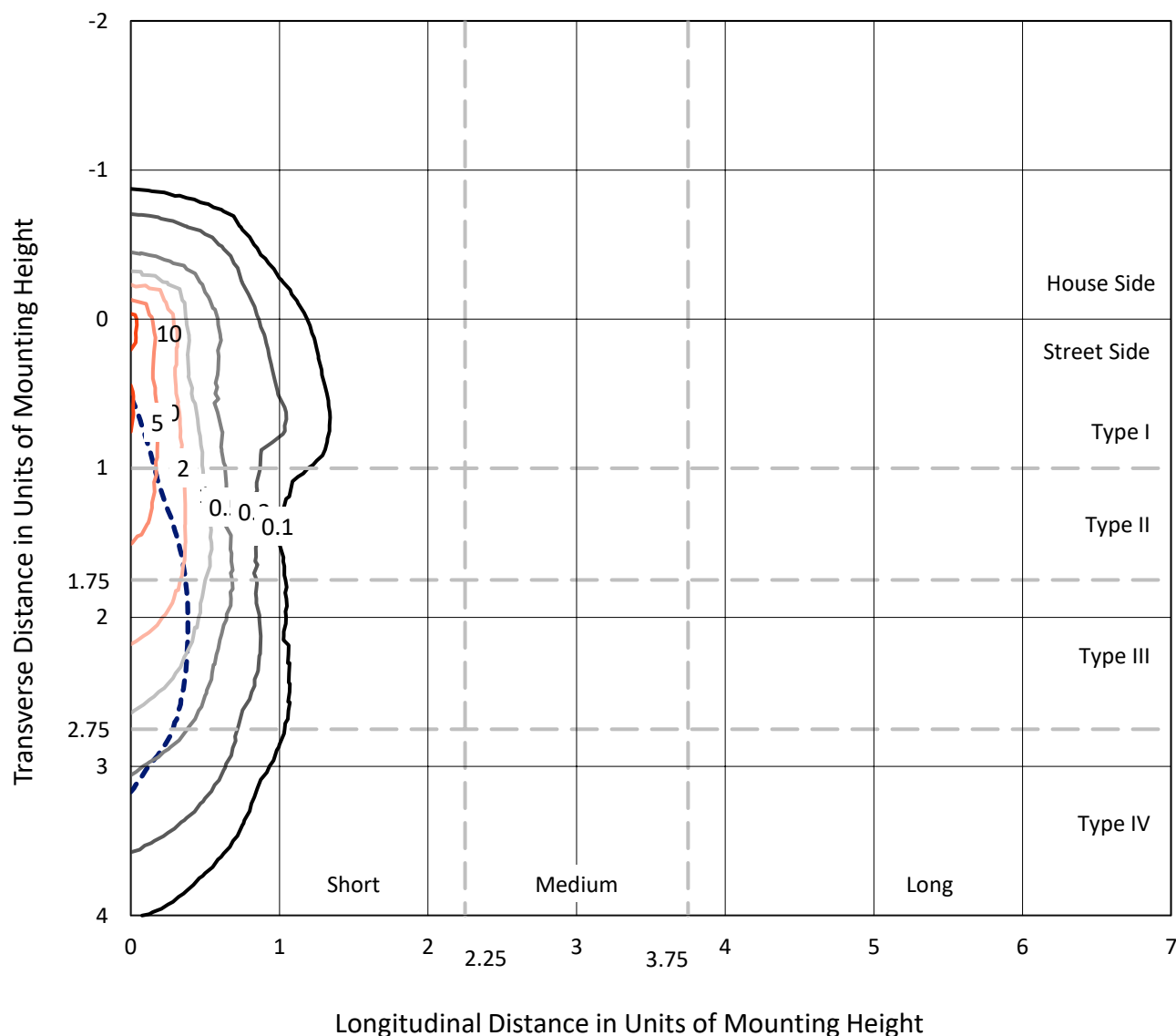
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

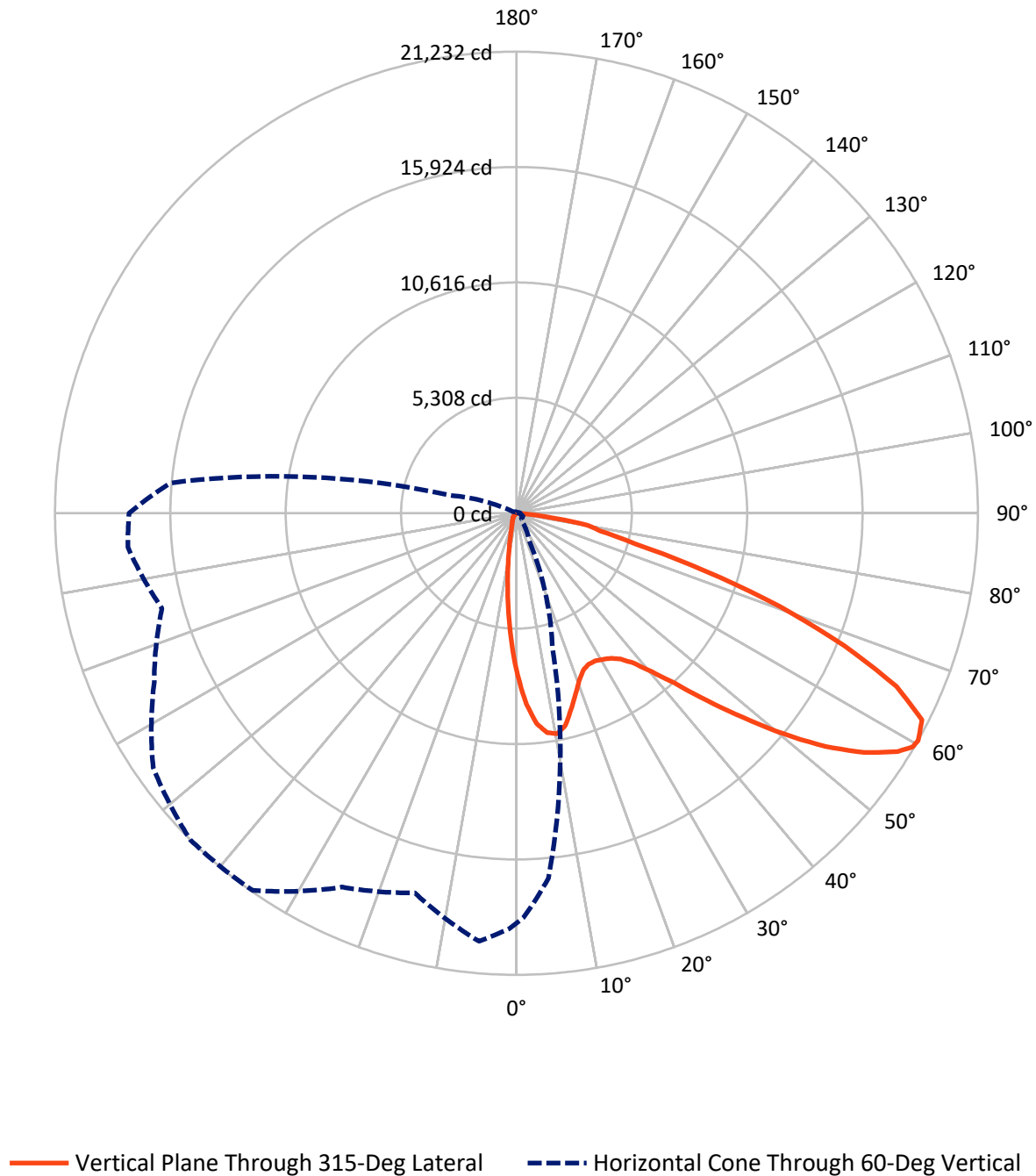


Based on 25 foot mounting height. Maximum calculated value = 12 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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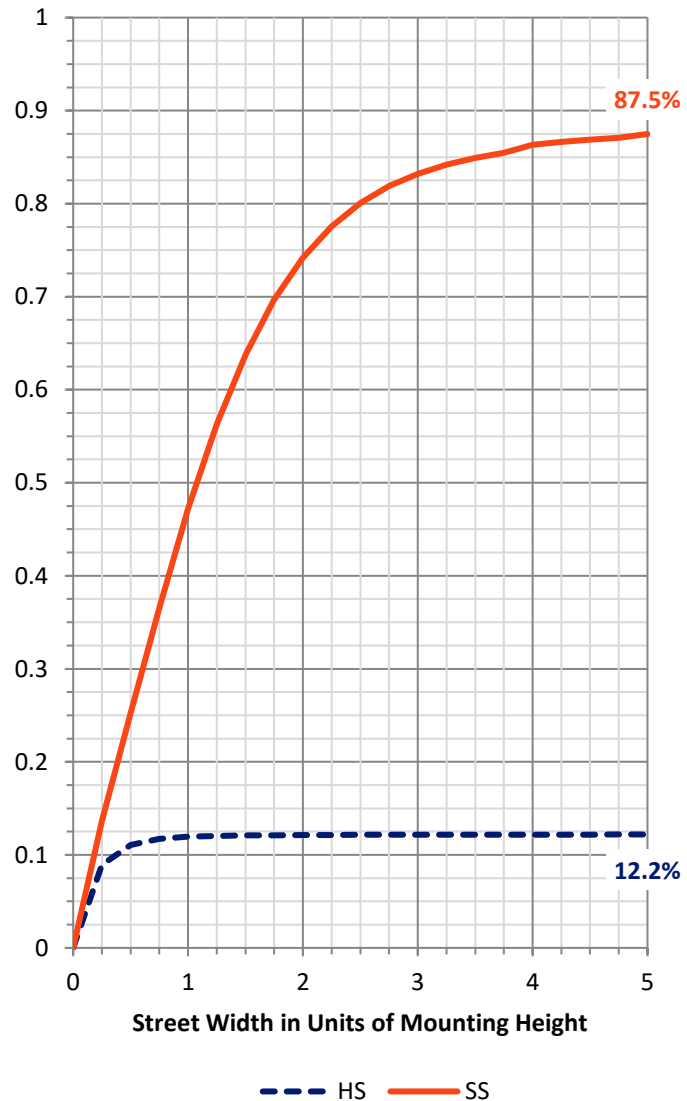
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2789.7	0.0	2789.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19828.3	0.0	19828.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	22618.0	0.0	22618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	2.5
10°-20°	1104.2	4.9
20°-30°	1619.1	7.2
30°-40°	2407.9	10.6
40°-50°	3504.2	15.5
50°-60°	5053.4	22.3
60°-70°	5558.2	24.6
70°-80°	2489.6	11.0
80°-90°	325.3	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°	22618.0	100.0
0°-180°	22618.0	100.0

Coefficient of Utilization



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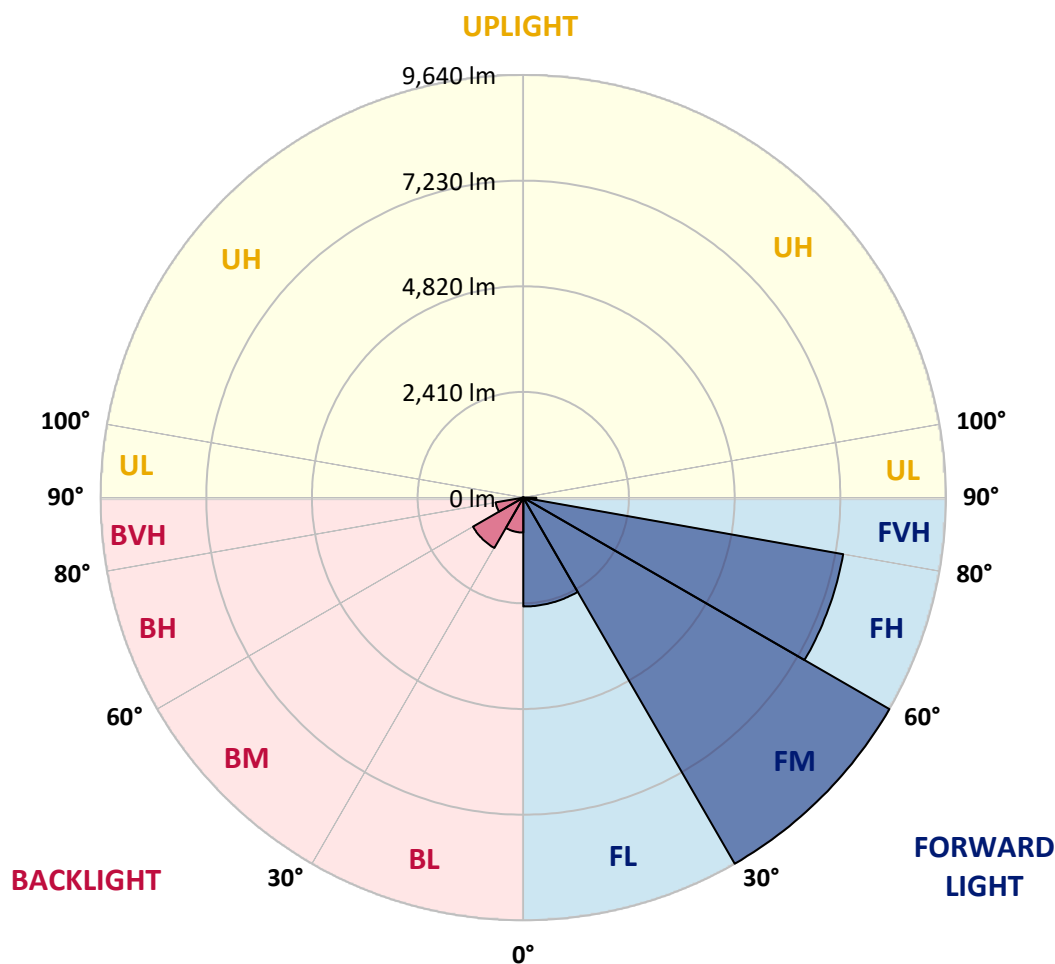
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2482.2	11.0			
FM	(30°-60°)	9640.5	42.6			
FH	(60°-80°)	7408.1	32.8			G3/7500
FVH	(80°-90°)	297.5	1.3			G3/500
BL	(0°-30°)	797.1	3.5	B2/1000		
BM	(30°-60°)	1325.0	5.9	B2/2500		
BH	(60°-80°)	639.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	27.8	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°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	8218.3	8182.2	8099.7	7848.7	7630.3	7344.9	7056.1	6829.1	6689.8	6433.7	6316.8
5°	7962.1	7979.3	7740.3	7224.6	6650.3	6258.3	5830.2	5489.8	5115.0	4877.7	4628.4
7.5°	7293.3	7258.9	6999.3	6280.6	5582.6	5015.2	4473.7	4033.5	3756.7	3534.9	3349.2
10°	6720.8	6695.0	6363.2	5438.2	4688.6	4263.9	3897.7	3512.6	3215.1	2890.2	2630.5
12.5°	6361.5	6303.0	5921.3	4955.1	4344.7	3949.3	3550.4	3149.8	2738.9	2410.5	2095.8
15°	6241.1	6156.9	5732.2	4788.3	4124.6	3622.6	3122.3	2661.5	2188.7	1825.9	1588.6
17.5°	6459.5	6320.2	5868.0	4759.1	3861.6	3196.2	2580.7	1980.6	1488.9	1212.1	1066.0
20°	6959.8	6799.9	6211.9	4729.8	3569.3	2718.2	1961.7	1399.5	1029.9	878.6	797.8
22.5°	7702.5	7482.4	6720.8	4776.3	3299.4	2252.3	1416.7	988.6	818.4	723.8	667.1
25°	8594.8	8410.9	7365.5	4941.3	3086.2	1886.1	1095.2	808.1	689.4	631.0	588.0
27.5°	9573.1	9279.1	8199.4	5139.0	2891.9	1602.4	961.1	722.1	613.8	560.5	538.1
30°	10269.5	10040.8	8897.4	5276.6	2649.5	1389.2	878.6	711.8	615.5	551.9	510.6
32.5°	10957.2	10664.9	9482.0	5340.2	2472.4	1241.3	759.9	620.7	539.9	507.2	465.9
35°	11693.0	11387.0	10064.9	5305.8	2340.0	1143.3	689.4	553.6	462.5	407.5	366.2
37.5°	12437.5	12114.3	10644.3	5182.0	2257.5	1103.8	634.4	526.1	436.7	380.0	335.3
40°	13321.2	12889.7	11187.6	5080.6	2171.5	1083.2	598.3	508.9	417.8	357.6	312.9
42.5°	14043.3	13632.4	11701.6	5027.3	2113.0	1035.0	598.3	495.2	405.8	338.7	292.3
45°	14727.6	14301.2	12257.0	5070.3	2089.0	974.9	605.2	493.4	397.2	325.0	278.5
47.5°	15300.2	14930.5	12827.8	5231.9	2058.0	909.5	569.1	517.5	392.0	312.9	264.8
50°	15975.9	15618.2	13582.6	5558.5	2003.0	844.2	524.4	557.1	390.3	302.6	252.7
52.5°	16928.4	16541.5	14624.5	5929.9	1915.3	744.5	483.1	551.9	383.4	285.4	240.7
55°	18092.3	17779.4	15831.4	6375.2	1795.0	632.7	417.8	490.0	362.8	256.2	220.1
57.5°	18838.5	18572.0	16735.8	6567.8	1611.0	517.5	367.9	410.9	331.8	228.7	196.0
59°	18926.2	18685.5	16924.9	6504.2	1490.6	472.8	343.9	352.5	323.2	213.2	182.2
60°	18852.3	18603.0	16849.3	6380.4	1378.9	441.9	323.2	312.9	325.0	204.6	171.9
62.5°	18377.7	17951.3	16115.1	5752.8	1205.2	405.8	287.1	256.2	287.1	184.0	153.0
65°	17461.3	16821.8	14662.3	4869.1	1136.5	385.1	244.1	214.9	218.4	161.6	132.4
67.5°	15860.7	15054.3	12728.1	3956.1	1107.2	386.8	206.3	192.6	168.5	137.5	116.9
70°	13329.8	12525.2	10212.7	3254.7	1093.5	386.8	175.4	165.1	141.0	115.2	101.4
72.5°	9445.9	8579.4	6889.3	2556.6	985.2	385.1	149.6	149.6	115.2	96.3	82.5
75°	5336.7	5343.6	4330.9	1808.7	818.4	318.1	120.4	118.6	84.2	73.9	61.9
77.5°	3110.2	3055.2	2919.4	777.1	380.0	144.4	84.2	72.2	58.5	53.3	44.7
80°	1599.0	1315.3	1280.9	282.0	135.8	91.1	58.5	41.3	37.8	34.4	30.9
82.5°	472.8	474.5	423.0	113.5	75.6	60.2	29.2	22.4	20.6	18.9	18.9
85°	32.7	20.6	24.1	34.4	46.4	24.1	1.7	5.2	5.2	6.9	8.6
87.5°	3.4	1.7	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°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	6187.8	6263.5	6122.5	6125.9	6009.0	6046.8	5909.3	5954.0	5873.2	5935.1	6117.3
5°	4655.9	4673.1	4559.6	4523.5	4540.7	4611.2	4638.7	4513.2	4566.5	4461.6	4454.7
7.5°	3280.4	3301.1	3235.7	3227.2	3350.9	3321.7	3375.0	3246.1	3124.0	3177.3	3079.3
10°	2548.0	2462.1	2327.9	2290.1	2266.1	2281.5	2281.5	2164.6	2147.4	2101.0	2171.5
12.5°	2011.6	1906.7	1779.5	1607.6	1564.6	1561.1	1497.5	1394.4	1361.7	1322.2	1380.6
15°	1461.4	1418.4	1311.8	1215.6	1117.6	1098.6	995.5	911.2	799.5	784.0	778.8
17.5°	1028.1	964.5	962.8	907.8	851.1	813.2	717.0	620.7	577.7	572.5	572.5
20°	770.3	747.9	711.8	704.9	687.7	644.7	558.8	507.2	486.6	488.3	495.2
22.5°	648.2	632.7	600.0	584.6	577.7	539.9	476.2	441.9	431.5	431.5	433.3
25°	579.4	565.7	529.5	505.5	496.9	469.4	419.5	393.7	385.1	385.1	385.1
27.5°	527.8	510.6	472.8	452.2	436.7	405.8	374.8	349.0	340.4	340.4	342.1
30°	491.7	472.8	438.4	410.9	386.8	359.3	333.5	311.2	300.9	299.2	300.9
32.5°	443.6	426.4	392.0	374.8	347.3	314.6	294.0	273.4	263.1	264.8	263.1
35°	345.6	340.4	316.4	321.5	306.0	278.5	259.6	237.3	225.2	223.5	226.9
37.5°	314.6	294.0	266.5	268.2	263.1	252.7	221.8	197.7	189.1	189.1	190.8
40°	290.6	269.9	239.0	223.5	225.2	225.2	192.6	166.8	158.2	156.5	159.9
42.5°	269.9	249.3	214.9	189.1	182.2	190.8	163.3	137.5	128.9	125.5	128.9
45°	256.2	233.8	194.3	165.1	144.4	154.7	134.1	113.5	103.2	103.2	101.4
47.5°	242.4	221.8	178.8	142.7	120.4	115.2	110.0	91.1	80.8	79.1	80.8
50°	230.4	209.8	161.6	123.8	101.4	89.4	89.4	72.2	65.3	61.9	63.6
52.5°	218.4	196.0	146.1	110.0	87.7	72.2	63.6	58.5	53.3	51.6	53.3
55°	201.2	178.8	130.7	94.6	75.6	60.2	49.9	48.1	44.7	41.3	44.7
57.5°	180.5	159.9	115.2	80.8	60.2	46.4	41.3	39.5	36.1	34.4	34.4
59°	168.5	149.6	106.6	70.5	53.3	41.3	37.8	36.1	32.7	29.2	30.9
60°	161.6	146.1	101.4	65.3	48.1	37.8	34.4	32.7	29.2	27.5	29.2
62.5°	142.7	130.7	89.4	53.3	37.8	27.5	24.1	25.8	24.1	22.4	24.1
65°	125.5	115.2	75.6	41.3	29.2	18.9	17.2	22.4	20.6	18.9	20.6
67.5°	111.8	99.7	63.6	30.9	20.6	10.3	12.0	18.9	18.9	17.2	18.9
70°	96.3	86.0	51.6	22.4	10.3	5.2	8.6	13.8	17.2	15.5	17.2
72.5°	79.1	67.1	39.5	15.5	5.2	0.0	5.2	12.0	17.2	15.5	17.2
75°	61.9	49.9	29.2	8.6	0.0	0.0	1.7	10.3	17.2	15.5	17.2
77.5°	44.7	36.1	17.2	1.7	0.0	0.0	1.7	10.3	17.2	15.5	17.2
80°	29.2	25.8	6.9	0.0	0.0	0.0	1.7	10.3	17.2	17.2	18.9
82.5°	18.9	13.8	0.0	0.0	0.0	0.0	3.4	13.8	18.9	20.6	20.6
85°	8.6	0.0	0.0	0.0	0.0	0.0	6.9	17.2	22.4	22.4	22.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	12.0	20.6	25.8	25.8	25.8
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°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	6148.3	6256.6	6409.6	6645.1	6836.0	7136.9	7367.3	7681.9	8000.0	8096.2	8245.8
5°	4525.2	4664.5	5011.8	5328.2	5527.6	6163.7	6566.1	7200.5	7769.6	8042.9	8340.4
7.5°	3142.9	3308.0	3572.7	4014.6	4434.1	4951.6	5601.5	6327.1	7160.9	7551.2	7970.7
10°	2205.9	2412.2	2785.3	3148.1	3675.9	4167.6	4808.9	5610.1	6530.0	6990.7	7516.8
12.5°	1392.6	1576.6	2070.1	2477.5	3136.0	3706.8	4298.3	5023.8	6089.8	6562.6	7114.5
15°	796.0	950.8	1181.2	1703.8	2434.5	3189.3	3926.9	4769.4	5864.6	6447.4	7044.0
17.5°	593.2	634.4	737.6	1033.3	1698.7	2580.7	3584.8	4692.0	6017.6	6701.9	7382.7
20°	498.6	526.1	574.3	691.2	1083.2	1987.5	3251.2	4705.8	6512.8	7372.4	8018.9
22.5°	447.0	464.2	503.8	579.4	739.3	1447.7	2860.9	4786.6	7112.8	8196.0	8942.1
25°	392.0	414.4	448.7	514.1	615.5	1004.1	2475.8	4967.1	7953.5	9241.3	9942.8
27.5°	349.0	369.7	404.0	464.2	539.9	766.8	2027.1	5121.8	8840.7	10293.5	10867.8
30°	306.0	326.7	361.1	409.2	478.0	620.7	1543.9	5213.0	9702.1	11082.7	11524.6
32.5°	269.9	287.1	319.8	362.8	419.5	526.1	1217.3	5118.4	10360.6	11799.6	12095.4
35°	233.8	254.5	282.0	321.5	371.4	448.7	1012.7	4791.7	10926.2	12537.2	12643.8
37.5°	196.0	220.1	249.3	285.4	325.0	412.6	813.2	4430.7	11531.4	13457.1	13281.7
40°	165.1	187.4	214.9	254.5	290.6	378.2	625.8	4045.5	12184.8	14320.2	13978.0
42.5°	134.1	158.2	190.8	226.9	287.1	330.1	484.8	3646.7	12771.1	15071.5	14607.3
45°	106.6	127.2	161.6	208.0	285.4	283.7	374.8	3252.9	13212.9	15607.9	15076.7
47.5°	84.2	101.4	135.8	202.9	263.1	240.7	300.9	3008.8	13677.1	16091.0	15436.0
50°	67.1	84.2	116.9	211.5	230.4	206.3	252.7	3048.3	14125.9	16336.9	15583.9
52.5°	56.7	73.9	101.4	166.8	177.1	180.5	221.8	3230.6	14705.3	16600.0	15877.9
55°	49.9	65.3	86.0	116.9	137.5	161.6	202.9	3363.0	15480.7	17163.9	16526.0
57.5°	39.5	56.7	77.4	99.7	113.5	141.0	187.4	3373.3	16182.2	17887.7	17387.4
59°	36.1	51.6	72.2	94.6	101.4	127.2	177.1	3285.6	16208.0	17996.0	17782.9
60°	32.7	49.9	68.8	87.7	96.3	120.4	168.5	3184.2	15974.1	17824.1	17946.2
62.5°	27.5	43.0	60.2	70.5	82.5	99.7	146.1	2816.2	14841.1	17045.3	17643.6
65°	24.1	37.8	51.6	58.5	68.8	86.0	128.9	2254.0	13589.4	15989.6	16777.1
67.5°	22.4	34.4	44.7	49.9	60.2	79.1	115.2	1592.1	11968.1	14650.3	15475.5
70°	20.6	32.7	39.5	46.4	53.3	67.1	98.0	928.4	9219.0	12301.7	13173.4
72.5°	20.6	30.9	34.4	39.5	46.4	60.2	91.1	502.0	6303.0	9384.0	10510.2
75°	20.6	29.2	30.9	34.4	41.3	55.0	80.8	263.1	4074.8	6519.6	8046.4
77.5°	20.6	27.5	30.9	32.7	39.5	48.1	70.5	165.1	2714.8	4566.5	5438.2
80°	22.4	27.5	29.2	32.7	37.8	44.7	58.5	110.0	1595.5	2747.5	3309.7
82.5°	24.1	27.5	30.9	34.4	39.5	43.0	51.6	68.8	735.9	1817.3	2056.3
85°	25.8	29.2	32.7	36.1	41.3	43.0	48.1	49.9	120.4	820.1	1109.0
87.5°	27.5	30.9	34.4	37.8	44.7	44.7	44.7	44.7	41.3	87.7	223.5
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: P456178

CATALOG NUMBER: GALN-SA7B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	8434.9	8629.2	8765.1	8799.4	8701.4	8656.7	8532.9	8340.4	8223.5	8218.3
5°	8888.8	9344.5	9660.8	9714.1	9525.0	9205.2	8825.2	8335.2	8048.1	7962.1
7.5°	8811.5	9609.2	10118.2	10192.1	9874.0	9263.7	8527.8	7738.6	7425.7	7293.3
10°	8493.4	9466.5	10193.8	10310.7	9886.0	9026.4	8091.1	7210.8	6822.2	6720.8
12.5°	8221.8	9205.2	9851.7	10013.3	9691.8	8833.8	7829.8	6872.1	6456.0	6361.5
15°	8103.1	8895.7	9291.2	9373.7	9320.4	8713.5	7802.2	6820.5	6344.3	6241.1
17.5°	8221.8	8632.7	8682.5	8766.8	8885.4	8701.4	8067.0	7100.8	6586.7	6459.5
20°	8532.9	8404.0	8197.7	8233.8	8505.4	8751.3	8538.1	7721.4	7095.6	6959.8
22.5°	9062.5	8347.3	7879.6	7848.7	8192.5	8918.1	9229.3	8562.2	7836.6	7702.5
25°	9712.4	8490.0	7762.7	7695.6	8070.5	9162.2	9980.6	9592.0	8799.4	8594.8
27.5°	10420.8	8785.7	7762.7	7697.4	8060.1	9378.9	10623.6	10503.3	9796.6	9573.1
30°	10809.3	9029.8	7874.5	7800.5	8187.4	9504.4	10967.5	11313.1	10546.3	10269.5
32.5°	11156.6	9368.5	8092.8	7953.5	8453.9	9690.0	11275.3	12000.8	11142.9	10957.2
35°	11476.4	9731.3	8393.7	8232.1	8804.6	9944.5	11615.7	12722.9	11973.3	11693.0
37.5°	11828.9	10152.5	8863.1	8725.5	9390.9	10439.7	12019.7	13672.0	12790.0	12437.5
40°	12212.3	10640.8	9635.0	9576.6	10322.8	11000.2	12530.4	14684.7	13721.8	13321.2
42.5°	12602.6	11203.0	10580.7	10676.9	11378.4	11785.9	13054.7	15463.5	14485.2	14043.3
45°	12956.7	11921.7	11810.0	12286.2	12609.4	12552.7	13443.3	16012.0	15150.6	14727.6
47.5°	13403.8	12968.8	13297.2	14031.3	14039.9	13386.6	13737.3	16460.7	15723.1	15300.2
50°	13904.1	14205.0	15217.6	15965.5	15764.4	14206.7	14081.2	16992.0	16314.6	15975.9
52.5°	14483.5	15589.0	16992.0	17822.4	17353.0	15100.7	14653.7	17566.2	17253.3	16928.4
55°	15157.5	16532.9	18761.1	19423.1	18950.3	16211.4	15523.7	18345.1	18314.1	18092.3
57.5°	15919.1	17530.1	19785.9	20681.6	20260.4	17514.6	16739.2	19079.2	18962.3	18838.5
59°	16520.9	18042.5	20238.0	21166.5	20912.0	18427.6	17555.9	19536.6	19111.9	18926.2
60°	16885.4	18389.8	20404.8	21231.8	21173.3	18970.9	18073.4	19760.1	19110.2	18852.3
62.5°	17966.8	18996.7	20341.2	20941.2	21169.9	20012.8	19591.6	20005.9	18756.0	18377.7
65°	18351.9	18795.5	19287.3	19213.3	19409.3	19959.5	20561.3	19736.0	17999.5	17461.3
67.5°	17602.3	16589.6	16763.3	16269.9	16173.6	17745.0	20167.5	18415.6	16519.2	15860.7
70°	14837.7	12709.2	12621.5	12848.4	12226.0	14366.6	18109.5	15872.7	14076.0	13329.8
72.5°	11679.3	8981.7	8242.4	9078.0	9059.1	10960.6	15044.0	11263.2	9509.5	9445.9
75°	9184.6	6253.1	5488.0	5623.9	5885.2	7934.6	11981.9	7152.3	5856.0	5336.7
77.5°	6165.5	4430.7	4133.2	3966.5	4248.4	5094.3	7580.5	3878.8	3283.9	3110.2
80°	3553.8	3218.6	3655.3	3318.3	3469.6	3210.0	3770.5	1779.5	1476.9	1599.0
82.5°	2312.5	1832.8	1953.1	1451.1	1984.1	2001.3	1210.4	526.1	445.3	472.8
85°	1445.9	859.7	483.1	343.9	684.3	1258.5	378.2	32.7	37.8	32.7
87.5°	374.8	142.7	60.2	89.4	110.0	98.0	87.7	5.2	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)