

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: P455019

Luminaire Tested: **GALN-SA6A-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
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-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18575 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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



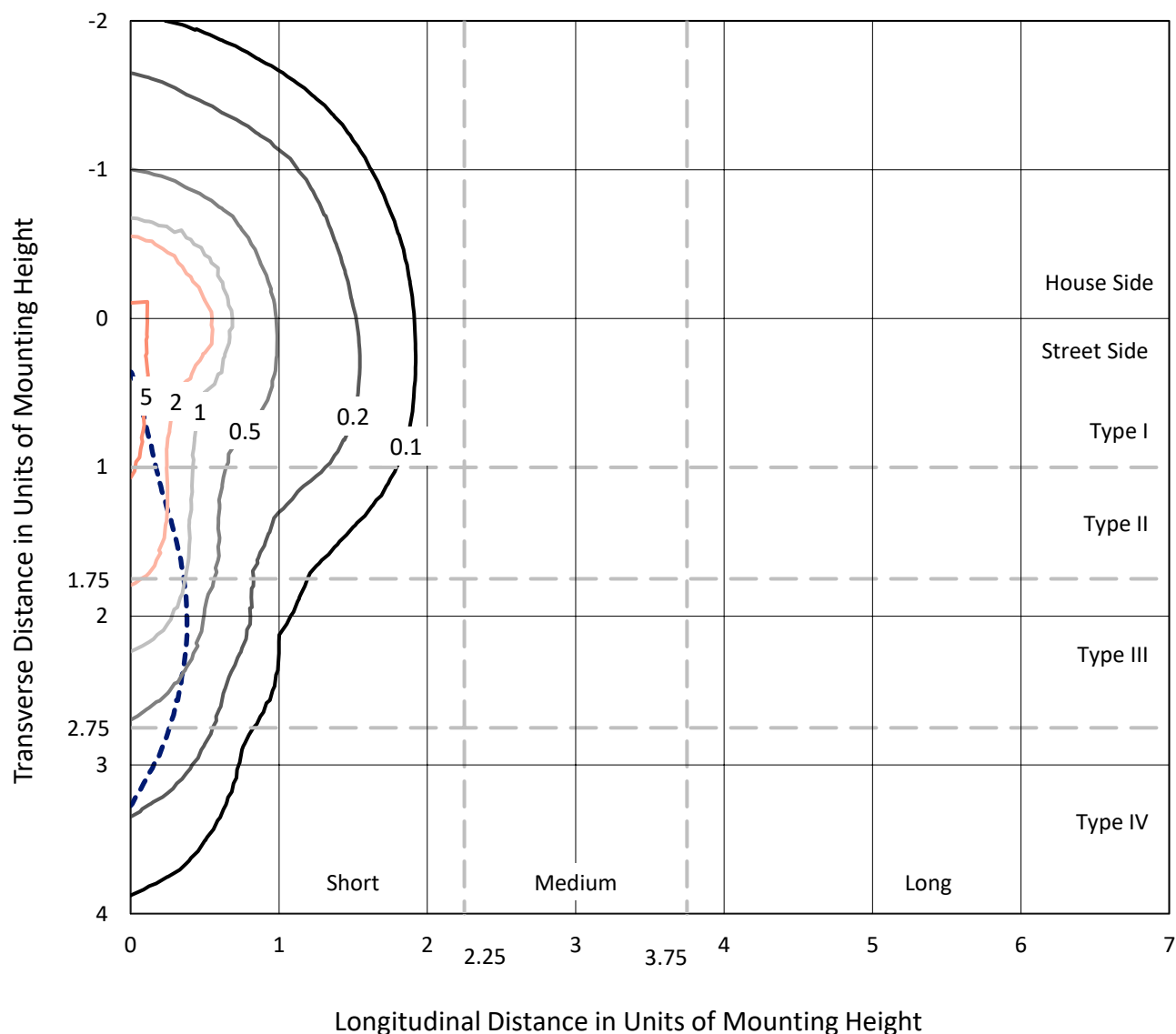
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



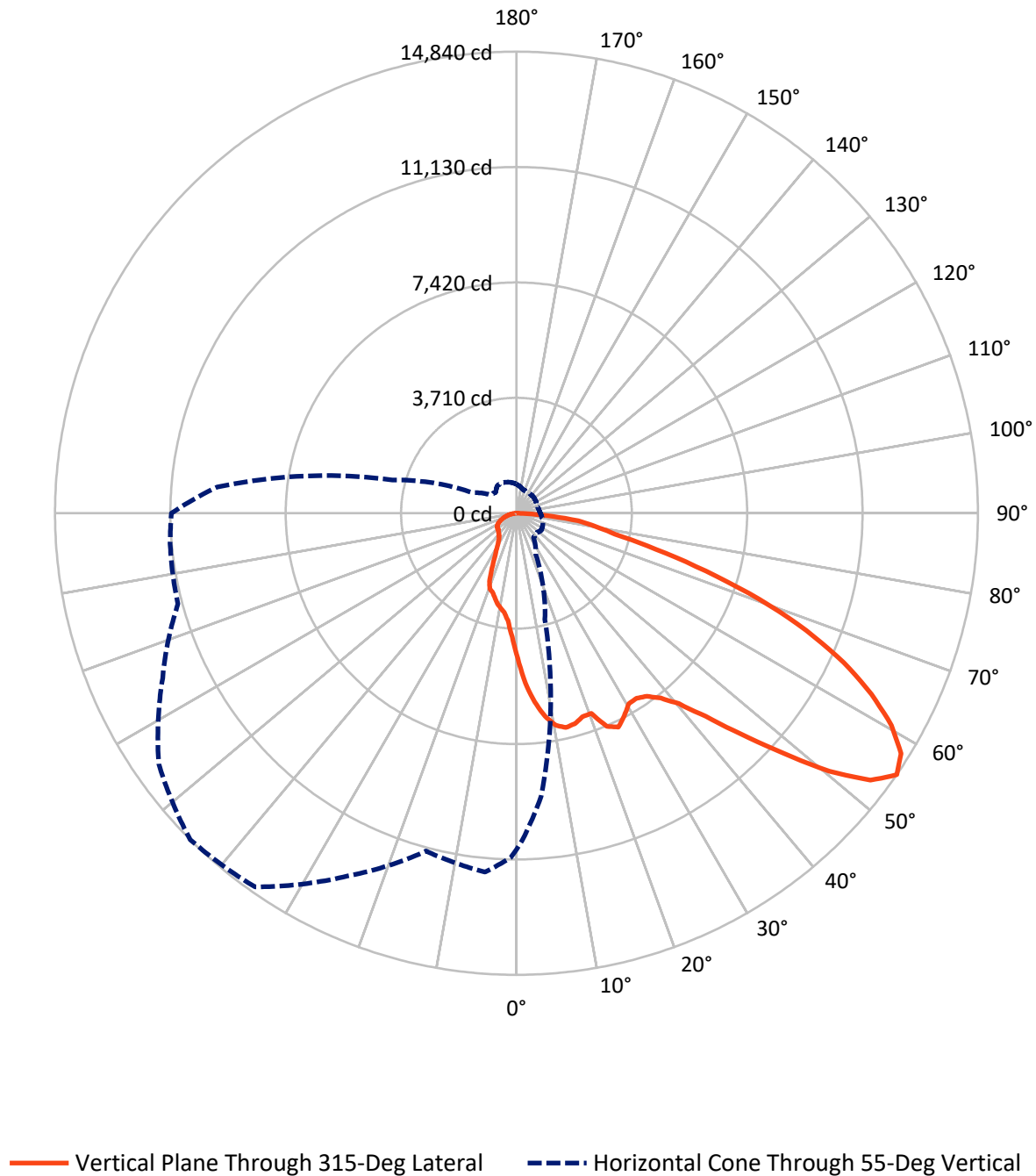
Based on 25 foot mounting height. Maximum calculated value = 8 fc

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	4063.2	0.0	4063.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14511.8	0.0	14511.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	18575.0	0.0	18575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	2.1
10°-20°	1048.2	5.6
20°-30°	1810.8	9.7
30°-40°	2104.4	11.3
40°-50°	2936.0	15.8
50°-60°	3983.9	21.4
60°-70°	3790.2	20.4
70°-80°	2047.6	11.0
80°-90°	458.9	2.5
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°	18575.0	100.0
0°-180°	18575.0	100.0

Coefficient of Utilization



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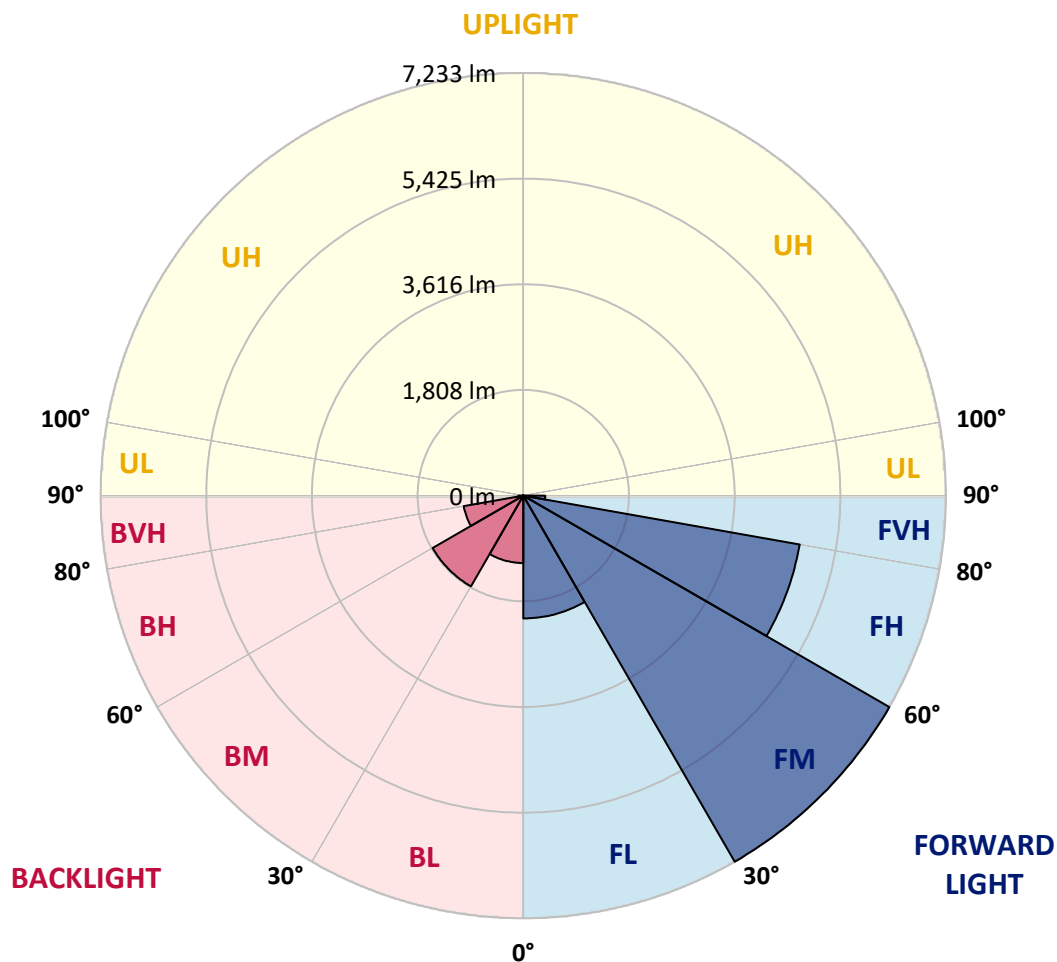
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2100.9	11.3			
FM	(30°-60°)	7232.7	38.9			
FH	(60°-80°)	4803.2	25.9			G2/5000
FVH	(80°-90°)	375.0	2.0			G3/500
BL	(0°-30°)	1153.1	6.2	B3/2500		
BM	(30°-60°)	1791.6	9.6	B2/2500		
BH	(60°-80°)	1034.6	5.6	B3/2500		G3/2500
BVH	(80°-90°)	83.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6
2.5°	5178.7	5159.1	5104.0	4959.4	4813.6	4665.3	4551.3	4409.2	4260.9	4181.2	4079.5
5°	5249.8	5227.8	5097.9	4771.9	4476.6	4166.5	3919.0	3702.1	3613.8	3483.9	3379.8
7.5°	5083.2	5073.3	4878.5	4410.4	4006.0	3600.4	3319.7	3145.7	2987.6	2928.8	2941.1
10°	4931.2	4892.0	4648.1	4036.6	3564.8	3235.2	3034.2	2863.9	2752.4	2722.9	2729.1
12.5°	4805.0	4752.3	4464.3	3785.4	3372.4	3109.0	2852.8	2675.2	2573.4	2601.6	2697.2
15°	4779.2	4708.2	4387.1	3699.6	3267.0	2927.6	2647.0	2442.3	2366.3	2427.6	2580.8
17.5°	4945.9	4856.4	4519.4	3727.8	3166.6	2742.5	2398.2	2164.1	2100.4	2198.5	2398.2
20°	5481.4	5349.1	4932.4	3890.8	3156.8	2650.6	2253.6	2018.3	2045.3	2231.5	2439.9
22.5°	6471.6	6273.1	5655.4	4128.5	3208.2	2627.4	2224.2	2101.6	2249.9	2408.0	2545.3
25°	6667.7	6512.0	5785.3	4182.4	3197.2	2611.4	2307.5	2368.8	2534.2	2612.7	2564.9
27.5°	6777.9	6600.3	5776.8	3915.3	2859.0	2368.8	2205.8	2307.5	2349.2	2273.2	2143.3
30°	7035.3	6850.2	5922.6	3634.7	2354.1	1757.3	1540.4	1498.7	1526.9	1541.6	1495.0
32.5°	7389.4	7206.9	6197.1	3450.9	2035.5	1453.4	1240.2	1181.3	1167.9	1151.9	1133.5
35°	7847.8	7567.1	6466.7	3333.2	1904.3	1344.3	1148.2	1102.9	1084.5	1062.5	1042.9
37.5°	8313.4	8019.3	6807.4	3209.4	1817.3	1268.3	1087.0	1066.1	1034.3	1011.0	982.8
40°	8808.5	8478.9	7117.4	3101.6	1732.8	1219.3	1042.9	1040.4	998.7	971.8	938.7
42.5°	9237.4	8898.0	7394.3	3035.4	1667.8	1167.9	1015.9	1023.2	980.4	939.9	897.0
45°	9578.1	9244.8	7650.5	3035.4	1615.1	1116.4	1011.0	1006.1	963.2	913.0	863.9
47.5°	9877.1	9532.8	7900.5	3112.6	1582.1	1073.5	984.0	992.6	948.5	884.8	837.0
50°	10108.7	9804.8	8237.5	3232.7	1549.0	1039.2	949.7	996.3	936.2	870.1	814.9
52.5°	10404.0	10132.0	8643.1	3396.9	1520.8	1001.2	919.1	996.3	935.0	871.3	811.2
55°	10813.3	10526.6	9132.0	3533.0	1475.4	965.7	892.1	968.1	931.3	865.2	801.4
57.5°	11100.1	10885.6	9477.6	3623.6	1410.5	920.3	867.6	941.1	915.4	841.9	772.0
58°	11113.6	10904.0	9527.8	3644.5	1394.6	911.7	861.5	928.9	908.1	832.1	762.2
60°	10959.2	10779.0	9537.7	3615.1	1303.9	868.8	829.6	878.6	868.8	774.5	709.5
62.5°	10397.9	10205.5	9141.8	3376.1	1183.8	816.1	780.6	811.2	789.2	693.6	633.6
65°	9600.1	9246.0	8328.1	3001.1	1098.0	759.8	714.4	716.9	693.6	625.0	572.3
67.5°	8537.7	8141.9	7051.2	2529.3	1033.1	697.3	636.0	629.9	601.7	557.6	514.7
70°	7230.1	6959.3	5730.2	2057.5	960.8	628.7	547.8	544.1	526.9	493.9	455.9
72.5°	5860.1	5515.7	4627.3	1647.0	872.5	562.5	465.7	473.0	451.0	427.7	393.4
75°	4324.6	4099.1	3577.1	1321.0	753.6	490.2	388.5	390.9	381.1	356.6	329.6
77.5°	2847.9	2780.5	2558.7	867.6	579.6	389.7	317.4	319.8	312.5	290.4	262.2
80°	1916.6	1871.3	1734.0	558.8	387.2	281.9	245.1	247.5	246.3	223.0	185.0
82.5°	1181.3	1161.7	1117.6	377.4	268.4	202.2	161.8	169.1	182.6	156.9	126.2
85°	557.6	558.8	675.2	205.9	158.1	129.9	88.2	94.4	94.4	94.4	71.1
87.5°	72.3	76.0	93.1	87.0	57.6	49.0	31.9	27.0	23.3	30.6	22.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6
2.5°	4044.0	4019.5	3966.8	3954.5	3947.2	3968.0	3912.9	3927.6	3903.0	3971.7	3960.6
5°	3385.9	3388.4	3431.3	3459.4	3469.2	3459.4	3422.7	3358.9	3309.9	3290.3	3295.2
7.5°	2917.8	2960.7	3034.2	3116.3	3191.1	3213.1	3192.3	3071.0	2938.6	2855.3	2828.3
10°	2762.2	2819.8	2904.3	2969.3	3035.4	3088.1	3099.2	3004.8	2847.9	2650.6	2573.4
12.5°	2770.7	2849.2	2930.0	2950.9	2944.7	2965.6	2955.8	2939.8	2836.9	2585.7	2457.0
15°	2689.9	2783.0	2839.4	2828.3	2808.7	2790.3	2764.6	2724.2	2687.4	2510.9	2368.8
17.5°	2503.6	2599.2	2645.7	2649.4	2649.4	2644.5	2582.0	2567.3	2562.4	2476.6	2389.6
20°	2537.9	2590.6	2569.8	2535.4	2545.3	2578.3	2541.6	2534.2	2562.4	2600.4	2584.5
22.5°	2557.5	2539.1	2382.3	2230.3	2196.0	2298.9	2319.8	2401.9	2515.8	2653.1	2742.5
25°	2436.2	2287.9	2007.3	1835.7	1738.9	1834.5	1959.5	2111.4	2281.8	2458.2	2562.4
27.5°	2036.7	1924.0	1723.0	1568.6	1484.0	1498.7	1605.3	1743.8	1901.9	2020.8	2096.7
30°	1534.3	1484.0	1379.9	1327.2	1275.7	1263.4	1308.8	1361.5	1431.3	1446.0	1465.6
32.5°	1129.9	1122.5	1128.6	1111.5	1101.7	1100.5	1087.0	1099.2	1106.6	1115.2	1098.0
35°	1022.0	1012.2	995.1	990.2	984.0	986.5	980.4	974.2	979.1	986.5	991.4
37.5°	966.9	952.2	927.7	919.1	919.1	922.8	913.0	910.5	919.1	942.4	954.6
40°	924.0	906.8	878.6	867.6	875.0	884.8	871.3	866.4	887.2	911.7	931.3
42.5°	883.5	870.1	843.1	830.9	837.0	855.4	835.8	832.1	859.0	886.0	909.3
45°	849.2	835.8	811.2	805.1	807.6	824.7	811.2	811.2	837.0	866.4	887.2
47.5°	822.3	805.1	789.2	784.3	786.7	796.5	794.1	794.1	818.6	849.2	870.1
50°	795.3	780.6	759.8	762.2	768.4	781.8	780.6	784.3	808.8	846.8	868.8
52.5°	783.1	761.0	737.7	740.2	758.6	774.5	769.6	773.3	801.4	872.5	904.4
55°	769.6	740.2	713.2	716.9	737.7	761.0	754.9	759.8	792.9	889.7	933.8
57.5°	743.8	709.5	680.1	682.6	713.2	737.7	727.9	734.0	773.3	871.3	917.9
58°	732.8	703.4	675.2	676.4	705.9	732.8	721.8	726.7	767.1	866.4	910.5
60°	686.3	669.1	644.6	645.8	674.0	697.3	691.2	696.1	735.3	830.9	863.9
62.5°	622.5	612.7	606.6	606.6	623.8	645.8	651.9	658.1	693.6	751.2	780.6
65°	553.9	553.9	555.1	555.1	566.2	594.3	598.0	613.9	647.0	675.2	697.3
67.5°	507.3	504.9	507.3	501.2	506.1	523.3	541.6	556.4	590.7	610.3	617.6
70°	447.3	446.1	447.3	438.7	444.8	459.5	471.8	496.3	531.8	546.5	550.2
72.5°	388.5	388.5	390.9	384.8	384.8	400.7	409.3	436.3	469.3	477.9	479.1
75°	327.2	330.9	330.9	322.3	324.7	334.5	345.6	367.6	398.3	404.4	404.4
77.5°	259.8	273.3	273.3	264.7	268.4	269.6	284.3	295.3	318.6	321.1	311.3
80°	188.7	202.2	213.2	205.9	212.0	204.6	213.2	220.6	243.9	232.8	216.9
82.5°	134.8	144.6	153.2	154.4	148.3	134.8	145.8	147.1	158.1	143.4	134.8
85°	74.8	83.3	94.4	89.5	79.7	71.1	74.8	77.2	76.0	72.3	67.4
87.5°	19.6	20.8	23.3	17.2	15.9	13.5	18.4	18.4	20.8	22.1	20.8
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°	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6
2.5°	3969.2	4023.1	4139.6	4227.8	4335.6	4466.8	4621.2	4776.8	4944.7	4997.4	5070.9
5°	3284.2	3419.0	3475.4	3635.9	3795.2	4034.2	4289.1	4584.4	4907.9	5063.5	5213.1
7.5°	2806.3	2878.6	2937.4	3055.0	3246.2	3536.6	3856.5	4225.3	4683.7	4910.4	5129.7
10°	2548.9	2556.3	2628.6	2774.4	2941.1	3197.2	3499.9	3912.9	4423.9	4699.6	4956.9
12.5°	2378.6	2346.7	2425.2	2577.1	2765.8	3002.3	3280.5	3673.9	4236.4	4519.4	4830.7
15°	2229.1	2178.8	2237.7	2393.3	2579.6	2857.7	3156.8	3573.4	4162.8	4492.5	4838.1
17.5°	2232.8	2094.3	2115.1	2246.2	2431.3	2714.4	3077.1	3569.7	4274.4	4654.2	5063.5
20°	2508.5	2286.7	2192.3	2216.8	2395.7	2704.6	3113.9	3741.3	4640.8	5194.7	5632.2
22.5°	2779.3	2645.7	2493.8	2443.5	2541.6	2865.1	3347.9	4146.9	5437.3	6271.8	7062.2
25°	2685.0	2798.9	2760.9	2689.9	2711.9	2980.3	3507.2	4480.2	6056.2	6996.1	7738.7
27.5°	2148.2	2355.3	2397.0	2395.7	2404.3	2624.9	3154.3	4256.0	6133.4	7134.6	7844.1
30°	1509.8	1528.1	1550.2	1593.1	1632.3	1829.6	2468.0	3736.4	6099.0	7197.0	7907.8
32.5°	1089.4	1113.9	1144.6	1203.4	1296.5	1547.7	2159.2	3571.0	6280.4	7455.6	8094.1
35°	996.3	1024.5	1053.9	1121.3	1209.5	1442.4	2036.7	3502.3	6578.2	7874.7	8428.6
37.5°	966.9	998.7	1024.5	1073.5	1144.6	1366.4	1925.2	3455.8	6883.3	8318.3	8877.1
40°	946.0	982.8	1003.6	1042.9	1091.9	1296.5	1825.9	3419.0	7178.7	8724.0	9237.4
42.5°	927.7	965.7	992.6	1020.8	1061.2	1234.0	1737.7	3382.2	7434.8	9117.3	9596.5
45°	905.6	953.4	987.7	1009.8	1045.3	1181.3	1670.3	3352.8	7726.4	9466.6	9959.2
47.5°	887.2	939.9	982.8	1008.5	1022.0	1144.6	1616.4	3393.3	8076.9	9831.8	10296.2
50°	888.4	938.7	992.6	1033.1	997.5	1113.9	1583.3	3553.8	8532.8	10265.6	10562.1
52.5°	927.7	988.9	1031.8	1041.6	963.2	1077.2	1566.1	3834.4	9072.0	10649.1	10830.5
55°	971.8	1035.5	1082.1	1075.9	944.8	1030.6	1562.4	4133.4	9662.6	11096.4	11179.8
57.5°	955.8	1049.0	1120.1	1088.2	946.0	985.3	1546.5	4374.8	10156.5	11431.0	11525.3
58°	950.9	1044.1	1125.0	1085.7	942.4	971.8	1542.8	4395.7	10225.1	11454.3	11574.3
60°	903.2	1001.2	1121.3	1067.4	921.5	935.0	1502.4	4463.1	10206.7	11334.2	11603.8
62.5°	816.1	897.0	1036.7	977.9	857.8	886.0	1411.7	4379.7	9709.2	10755.7	11173.6
65°	718.1	778.2	871.3	860.3	767.1	835.8	1287.9	4050.1	8712.9	9817.1	10257.0
67.5°	644.6	693.6	752.4	736.5	689.9	768.4	1154.4	3492.5	7595.3	8689.6	9243.5
70°	569.8	607.8	637.2	626.2	611.5	702.2	1035.5	2834.5	6524.3	7618.6	8155.3
72.5°	493.9	529.4	553.9	538.0	529.4	632.3	938.7	2199.7	5153.0	6285.3	6975.2
75°	413.0	448.5	465.7	447.3	442.4	557.6	795.3	1643.3	3866.3	4845.4	5441.0
77.5°	319.8	357.8	379.9	373.8	376.2	458.3	642.1	1125.0	2764.6	3302.6	3930.0
80°	224.3	265.9	280.6	274.5	291.7	349.3	453.4	714.4	1906.8	2143.3	2585.7
82.5°	138.5	177.7	180.1	186.3	198.5	258.6	341.9	435.0	1197.3	1237.7	1558.8
85°	69.9	84.6	90.7	100.5	111.5	158.1	194.8	269.6	770.8	583.3	871.3
87.5°	23.3	24.5	29.4	36.8	45.3	64.9	83.3	110.3	191.2	105.4	269.6
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: P455019

CATALOG NUMBER: GALN-SA6A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6	4661.6
2.5°	5219.2	5323.3	5399.3	5469.2	5401.8	5395.6	5329.5	5222.9	5178.7	5178.7
5°	5526.8	5770.6	5967.9	6094.1	6040.2	5910.3	5695.9	5422.6	5275.5	5249.8
7.5°	5611.3	6092.9	6459.3	6589.2	6498.5	6211.8	5801.3	5340.5	5129.7	5083.2
10°	5559.9	6186.1	6724.0	6929.9	6803.7	6369.9	5809.8	5244.9	4985.1	4931.2
12.5°	5505.9	6198.3	6773.0	7070.8	6988.7	6497.3	5872.3	5182.4	4882.2	4805.0
15°	5545.1	6203.2	6713.0	7020.6	7073.3	6650.5	5975.3	5227.8	4861.3	4779.2
17.5°	5792.7	6296.3	6627.2	6876.0	7061.0	6858.8	6268.2	5444.7	5047.6	4945.9
20°	6309.8	6519.4	6676.2	6868.6	7166.4	7284.1	6867.4	6040.2	5570.9	5481.4
22.5°	7807.3	7769.3	7448.3	7444.6	7875.9	8347.7	8319.6	7251.0	6545.1	6471.6
25°	8368.6	8192.1	7727.7	7614.9	7804.9	8532.8	8427.4	7498.5	6846.6	6667.7
27.5°	8149.2	7711.7	7406.6	7380.9	7318.4	8005.8	8259.5	7599.0	6952.0	6777.9
30°	8135.7	7492.4	7056.1	7107.6	7167.6	7824.5	8352.6	7913.9	7221.6	7035.3
32.5°	8168.8	7523.0	7081.9	7091.7	7270.6	7851.4	8455.6	8257.1	7575.7	7389.4
35°	8302.4	7697.0	7246.1	7222.8	7502.2	8027.9	8630.8	8796.3	8059.8	7847.8
37.5°	8518.1	8043.8	7546.3	7540.2	7945.8	8346.5	8849.0	9340.4	8541.4	8313.4
40°	8835.5	8449.5	8080.6	8047.5	8548.7	8864.9	9132.0	9920.0	9101.4	8808.5
42.5°	9219.0	8936.0	8785.2	8916.4	9398.0	9447.0	9573.2	10455.5	9578.1	9237.4
45°	9574.4	9560.9	9770.5	10118.5	10399.1	10105.0	10034.0	10814.6	9948.2	9578.1
47.5°	9997.2	10362.4	10994.7	11504.5	11798.6	10870.9	10427.3	11048.6	10217.8	9877.1
50°	10426.1	11321.9	12331.7	13042.4	13104.9	11703.0	10698.2	11269.2	10462.9	10108.7
52.5°	10877.1	12087.8	13432.1	14258.1	14136.8	12427.3	10960.4	11418.7	10715.3	10404.0
55°	11269.2	12557.2	14047.3	14840.2	14662.5	12868.4	11243.5	11580.5	11075.6	10813.3
57.5°	11488.6	12596.4	13894.1	14586.5	14394.1	12782.6	11373.4	11700.6	11306.0	11100.1
58°	11520.4	12543.7	13758.1	14439.4	14243.4	12710.3	11372.1	11695.7	11320.7	11113.6
60°	11492.2	12201.8	13252.0	13858.6	13652.7	12256.9	11325.6	11603.8	11134.4	10959.2
62.5°	11231.2	11608.7	12378.2	12819.4	12760.6	11548.6	11134.4	11257.0	10567.0	10397.9
65°	10888.1	10799.9	11259.4	11571.9	11616.0	11018.0	10944.5	10507.0	9839.1	9600.1
67.5°	10471.4	9883.2	9882.0	10059.7	10133.2	10201.8	10548.6	9692.1	8790.1	8537.7
70°	9764.4	8470.3	8080.6	8290.1	8228.9	8808.5	9841.6	8547.5	7525.5	7230.1
72.5°	8467.8	6721.6	6097.8	6367.4	6213.0	6907.8	8611.2	7034.1	6222.8	5860.1
75°	6863.7	5028.0	4384.6	4632.2	4536.6	5240.0	7165.2	5108.9	4463.1	4324.6
77.5°	5329.5	3643.3	3269.5	3235.2	3306.3	3899.4	5255.9	3449.6	2942.3	2847.9
80°	3423.9	2607.8	2629.8	2585.7	2622.5	2458.2	3191.1	2200.9	1992.6	1916.6
82.5°	2253.6	1817.3	2166.6	1999.9	1899.4	1653.1	2093.1	1441.1	1223.0	1181.3
85°	1535.5	1338.2	1218.1	931.3	1096.8	1273.2	1569.8	775.7	615.2	557.6
87.5°	693.6	465.7	341.9	210.8	333.3	384.8	762.2	90.7	69.9	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)