

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: P530213

Luminaire Tested: **GALN-SA5B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12519 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 204
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

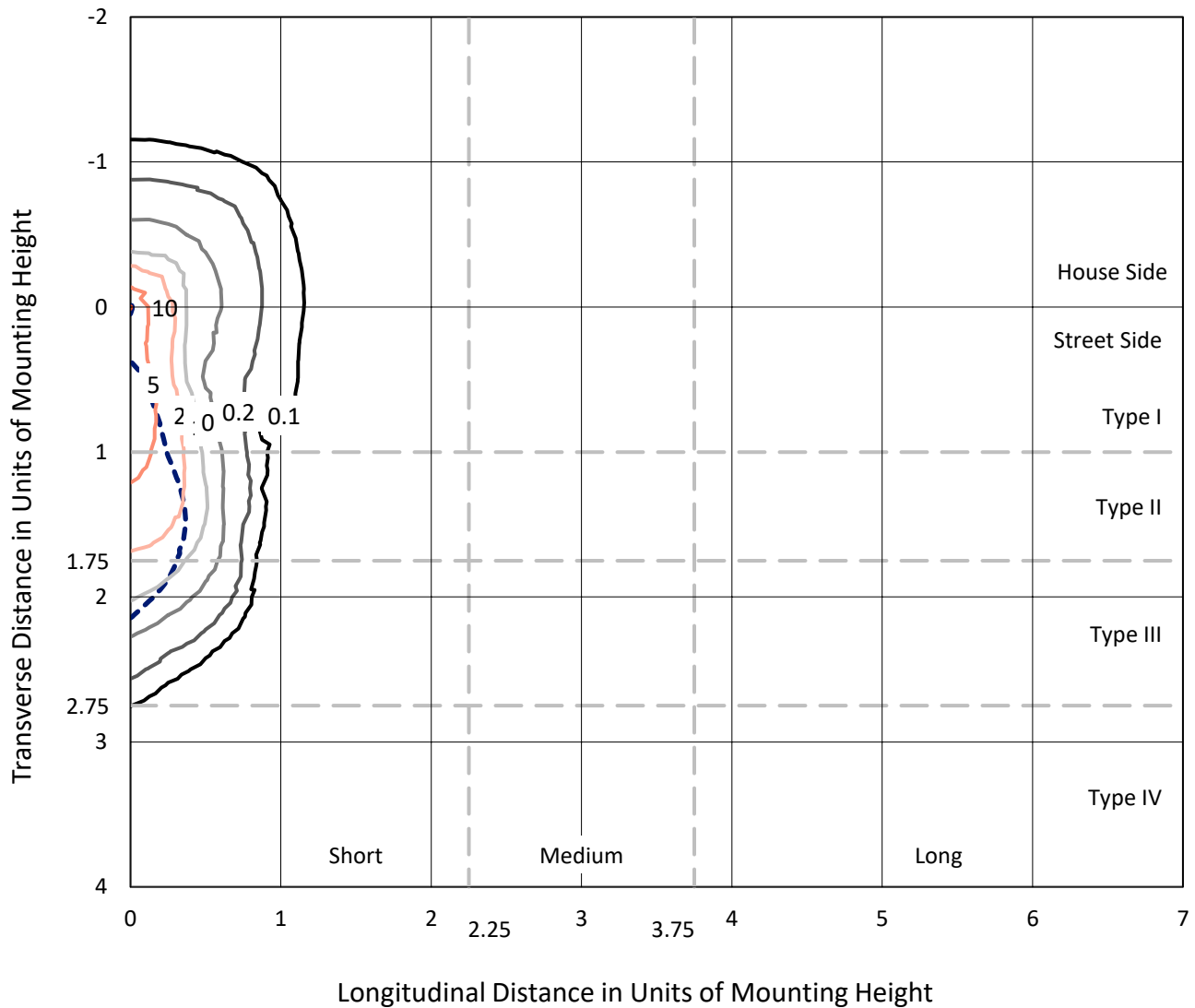


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

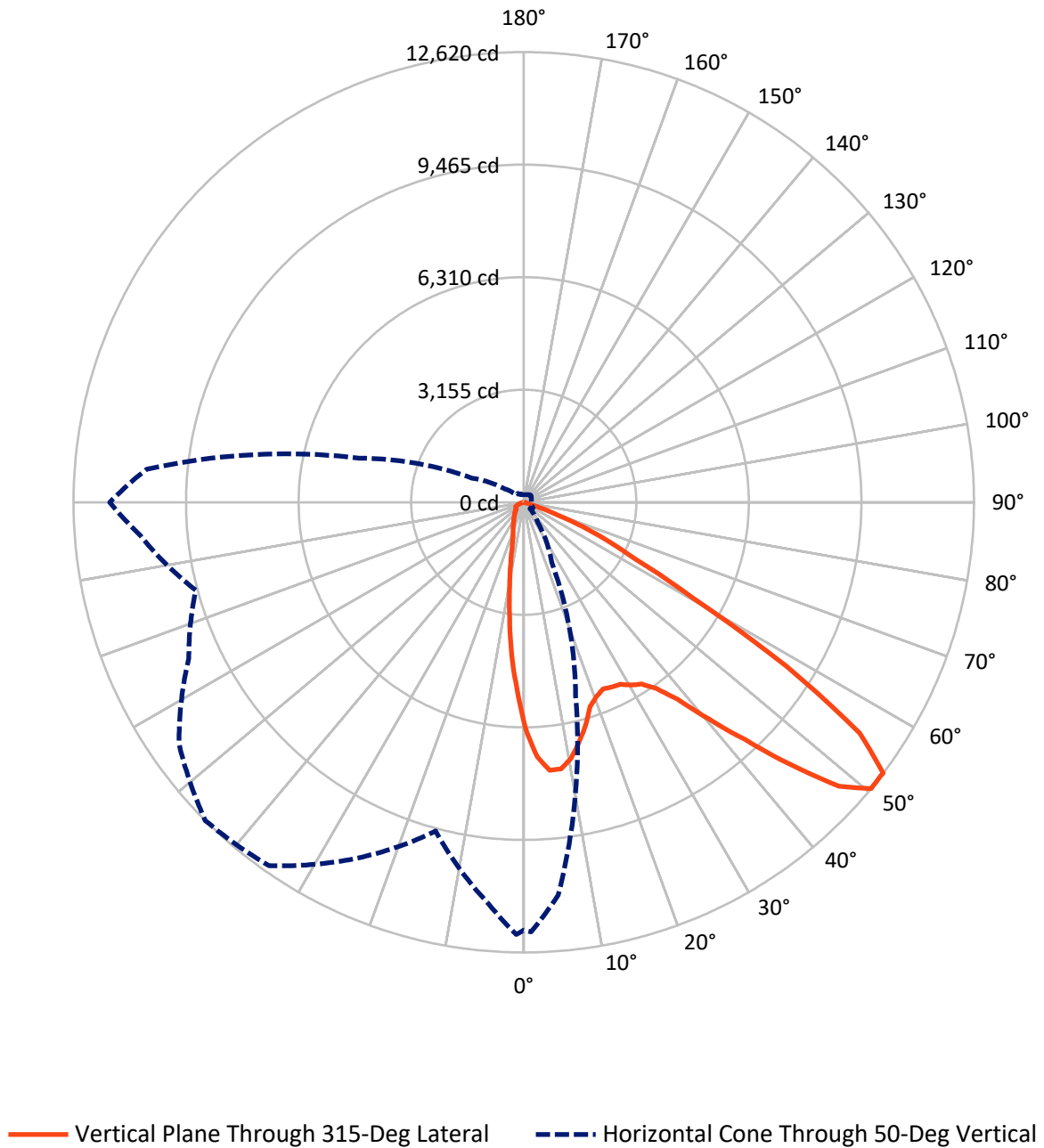


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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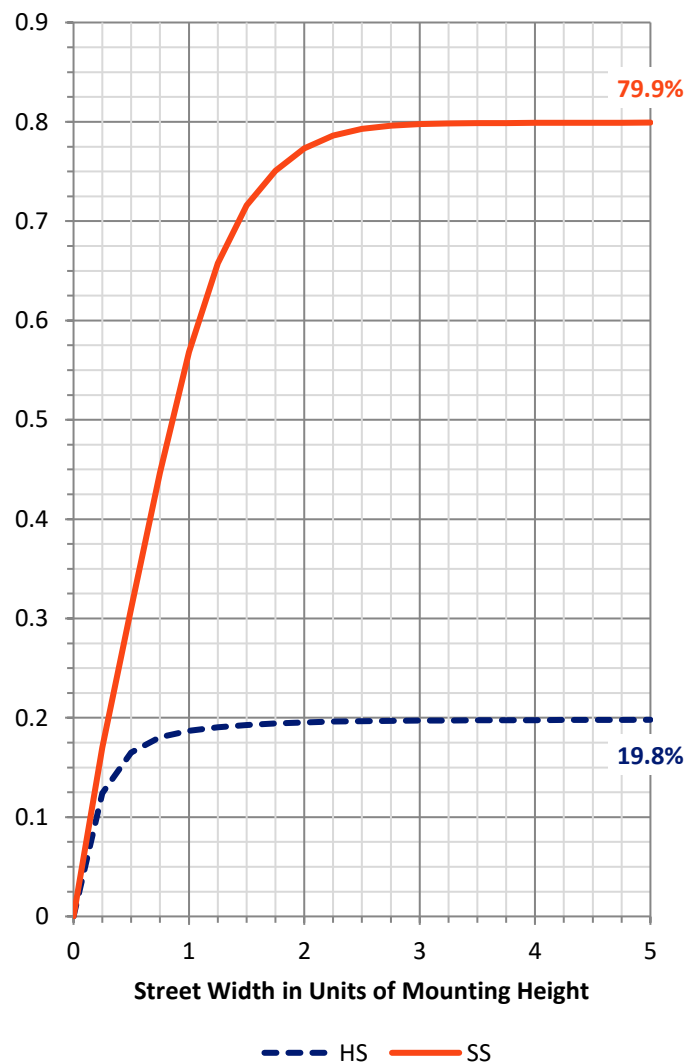
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2507.6	0.0	2507.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10011.5	0.0	10011.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	12519.0	0.0	12519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	3.7
10°-20°	919.7	7.3
20°-30°	1381.7	11.0
30°-40°	2073.9	16.6
40°-50°	2914.7	23.3
50°-60°	3144.0	25.1
60°-70°	1459.7	11.7
70°-80°	137.3	1.1
80°-90°	25.3	0.2
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°	12519.0	100.0
0°-180°	12519.0	100.0

Coefficient of Utilization



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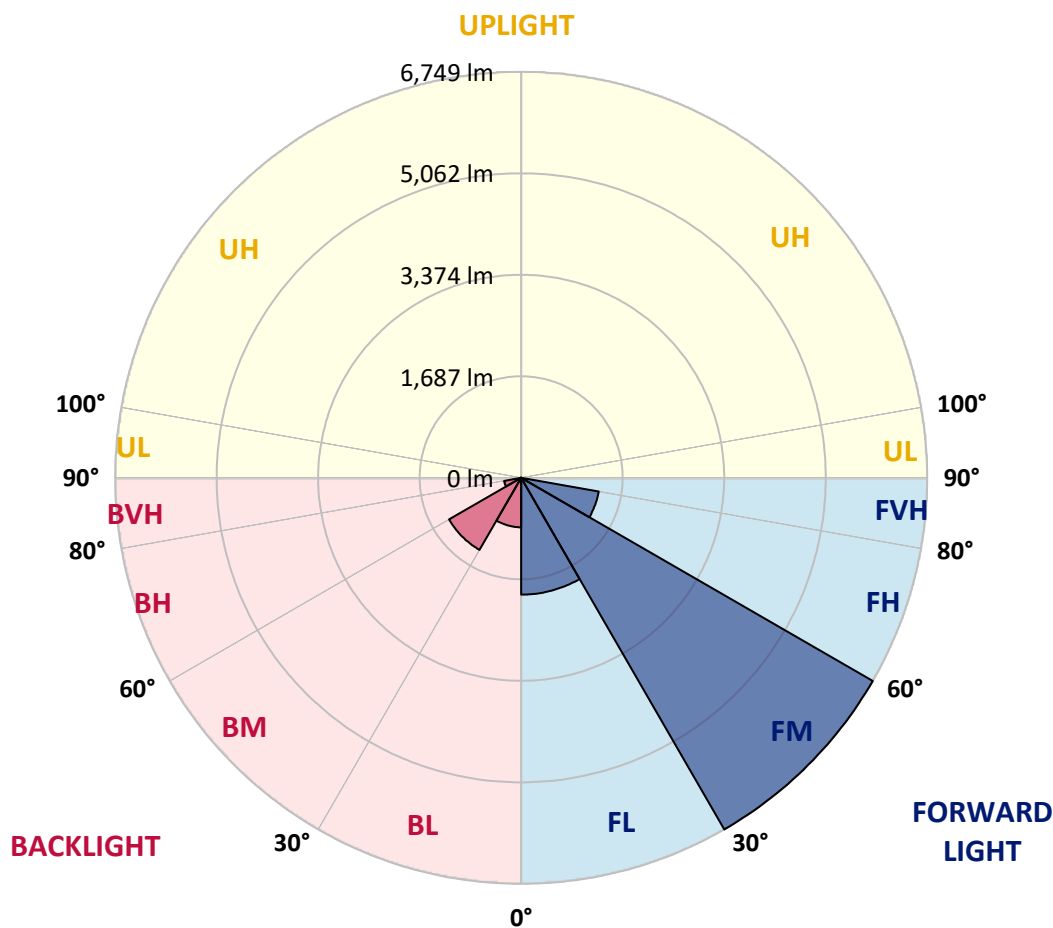
CATALOG NUMBER: GALN-SA5B-830-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.2	15.5			
FM	(30°-60°)	6748.7	53.9			
FH	(60°-80°)	1309.2	10.5			G1/1800
FVH	(80°-90°)	11.4	0.1			G1/100
BL	(0°-30°)	821.9	6.6	B2/1000		
BM	(30°-60°)	1383.8	11.1	B2/2500		
BH	(60°-80°)	287.9	2.3	B1/500		G1/500
BVH	(80°-90°)	13.9	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7
2.5°	6599.6	6497.7	6368.6	6261.8	6102.8	5782.4	5695.5	5591.1	5504.2	5387.5	5223.5
5°	6001.0	5968.7	5909.1	5506.7	5216.1	4828.6	4510.7	4376.5	4200.2	4056.1	3951.8
7.5°	5543.9	5414.8	5226.0	4821.1	4356.7	3941.9	3589.2	3383.0	3149.5	3070.0	2928.5
10°	5054.6	5084.4	4806.2	4237.4	3676.1	3340.8	3122.2	2923.5	2712.4	2573.3	2372.1
12.5°	4898.1	4801.3	4587.7	3884.7	3405.4	3092.4	2826.6	2580.7	2357.2	2133.6	1939.9
15°	5000.0	4851.0	4552.9	3810.2	3196.7	2806.7	2473.9	2141.1	1934.9	1649.3	1448.1
17.5°	5365.1	5245.9	4846.0	3889.7	3089.9	2533.5	2039.2	1696.5	1381.0	1122.7	1020.9
20°	5973.7	5804.7	5303.0	3991.5	2930.9	2203.2	1654.2	1232.0	933.9	824.6	767.5
22.5°	6569.8	6477.9	5844.5	4187.8	2789.4	1910.1	1241.9	829.6	698.0	678.1	640.8
25°	7704.9	7429.2	6671.6	4543.0	2680.1	1634.4	936.4	668.2	591.2	576.3	581.2
27.5°	8380.5	8149.5	7436.6	4778.9	2558.4	1423.2	792.3	613.5	561.3	529.1	516.6
30°	9028.8	8760.5	7816.7	4918.0	2297.6	1199.7	702.9	588.7	576.3	529.1	514.2
32.5°	9528.0	9264.7	8365.6	5126.7	2190.8	1055.6	578.7	459.5	427.2	422.3	467.0
35°	10293.1	10012.4	8835.0	5240.9	2108.8	981.1	501.7	409.8	372.6	357.7	360.2
37.5°	11005.9	10814.7	9269.7	5285.6	2021.9	958.8	449.6	367.6	335.3	325.4	322.9
40°	11602.0	11174.8	9682.0	5332.8	1984.6	916.5	417.3	335.3	313.0	298.1	298.1
42.5°	11875.3	11440.6	10144.0	5305.5	1974.7	849.5	417.3	308.0	290.6	275.7	273.2
45°	11815.7	11639.3	10350.2	5293.1	1974.7	782.4	380.0	300.5	275.7	255.8	250.9
47.5°	11969.7	11738.7	10608.5	5345.2	1934.9	735.2	320.4	315.4	260.8	236.0	231.0
50°	11997.0	12041.7	11058.1	5616.0	1848.0	675.6	250.9	310.5	250.9	213.6	208.6
52°	12175.8	11897.6	11194.7	5760.0	1756.1	630.9	211.1	265.8	240.9	198.7	193.7
52.5°	11929.9	12111.2	11227.0	5812.2	1766.0	601.1	203.7	260.8	236.0	198.7	186.3
55°	11654.2	11828.1	11095.3	5924.0	1619.5	471.9	159.0	188.8	213.6	173.9	166.4
57.5°	10129.1	10305.5	9642.3	5424.7	1318.9	332.8	131.6	141.6	188.8	161.5	154.0
60°	9003.9	8877.3	8092.4	4525.6	936.4	186.3	104.3	109.3	206.2	149.0	146.5
62.5°	8229.0	7958.2	6763.5	3494.8	571.3	124.2	82.0	84.5	159.0	139.1	139.1
65°	6087.9	5784.9	4493.3	2113.8	280.7	86.9	62.1	67.1	99.4	119.2	119.2
67.5°	3474.9	3358.2	2170.9	953.8	116.7	54.6	47.2	52.2	77.0	96.9	91.9
70°	1597.1	1433.2	834.6	201.2	54.6	37.3	37.3	42.2	62.1	72.0	67.1
72.5°	467.0	442.1	203.7	32.3	22.4	22.4	24.8	32.3	47.2	54.6	49.7
75°	34.8	22.4	14.9	9.9	9.9	14.9	19.9	32.3	47.2	52.2	42.2
77.5°	2.5	5.0	2.5	2.5	7.5	14.9	22.4	39.7	62.1	64.6	47.2
80°	2.5	2.5	0.0	2.5	7.5	14.9	24.8	44.7	69.5	74.5	39.7
82.5°	0.0	0.0	0.0	2.5	9.9	19.9	29.8	47.2	64.6	79.5	42.2
85°	0.0	0.0	0.0	2.5	14.9	27.3	34.8	12.4	7.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7
2.5°	5340.3	5275.7	5250.9	5273.2	5265.8	5258.3	5394.9	5365.1	5360.1	5404.8	5394.9
5°	4008.9	3894.7	4207.6	4081.0	4212.6	4292.1	4307.0	4314.4	4406.3	4309.5	4436.1
7.5°	2856.4	2886.2	2883.7	2968.2	3119.7	3253.8	3333.3	3271.2	3266.3	3253.8	3199.2
10°	2282.7	2230.5	2220.6	2200.7	2247.9	2362.1	2459.0	2382.0	2327.4	2401.9	2379.5
12.5°	1865.4	1793.3	1753.6	1674.1	1676.6	1753.6	1753.6	1753.6	1808.2	1850.5	1882.8
15°	1430.7	1371.1	1371.1	1291.6	1274.2	1276.7	1316.4	1321.4	1408.3	1433.2	1445.6
17.5°	1001.0	968.7	1006.0	1038.2	1018.4	1023.3	1038.2	1043.2	1055.6	1045.7	1070.5
20°	770.0	765.0	775.0	832.1	874.3	899.2	881.8	856.9	842.0	807.3	807.3
22.5°	653.3	663.2	680.6	727.8	782.4	797.3	777.4	720.3	675.6	670.6	673.1
25°	581.2	591.2	618.5	648.3	678.1	702.9	683.1	640.8	616.0	593.6	593.6
27.5°	536.5	541.5	556.4	578.7	603.6	623.4	616.0	593.6	566.3	556.4	534.0
30°	501.7	509.2	526.6	531.5	553.9	563.8	551.4	546.4	529.1	516.6	509.2
32.5°	484.4	481.9	494.3	499.3	501.7	509.2	494.3	501.7	499.3	479.4	471.9
35°	365.1	385.0	417.3	444.6	452.1	462.0	459.5	449.6	422.3	399.9	372.6
37.5°	327.9	340.3	357.7	380.0	409.8	422.3	417.3	392.4	360.2	345.3	340.3
40°	303.0	310.5	325.4	340.3	370.1	392.4	375.1	352.7	327.9	315.4	308.0
42.5°	280.7	283.2	290.6	305.5	327.9	362.6	332.8	303.0	293.1	285.6	280.7
45°	255.8	255.8	265.8	273.2	298.1	330.4	300.5	273.2	268.3	263.3	260.8
47.5°	236.0	238.4	243.4	253.4	273.2	295.6	275.7	253.4	240.9	238.4	233.5
50°	211.1	213.6	223.5	233.5	258.3	270.7	258.3	233.5	221.1	213.6	213.6
52°	191.3	198.7	208.6	228.5	245.9	265.8	250.9	223.5	208.6	201.2	196.2
52.5°	188.8	193.7	203.7	226.0	245.9	263.3	248.4	221.1	203.7	198.7	193.7
55°	168.9	176.4	193.7	221.1	243.4	263.3	243.4	218.6	193.7	181.3	176.4
57.5°	161.5	166.4	188.8	223.5	240.9	263.3	243.4	218.6	193.7	171.4	166.4
60°	154.0	163.9	188.8	216.1	238.4	265.8	245.9	216.1	188.8	161.5	161.5
62.5°	146.5	154.0	186.3	211.1	228.5	255.8	236.0	211.1	181.3	154.0	151.5
65°	126.7	139.1	163.9	176.4	196.2	221.1	201.2	183.8	159.0	136.6	134.1
67.5°	96.9	101.8	121.7	136.6	149.0	171.4	161.5	139.1	121.7	104.3	104.3
70°	67.1	72.0	86.9	94.4	106.8	119.2	111.8	94.4	82.0	72.0	69.5
72.5°	47.2	49.7	54.6	59.6	64.6	69.5	67.1	54.6	47.2	44.7	42.2
75°	37.3	42.2	44.7	42.2	39.7	37.3	37.3	32.3	27.3	24.8	24.8
77.5°	37.3	39.7	37.3	32.3	27.3	24.8	22.4	19.9	14.9	12.4	14.9
80°	32.3	32.3	32.3	27.3	24.8	22.4	19.9	17.4	14.9	12.4	12.4
82.5°	34.8	34.8	32.3	27.3	27.3	22.4	22.4	19.9	17.4	12.4	12.4
85°	0.0	0.0	0.0	5.0	12.4	22.4	22.4	19.9	17.4	14.9	14.9
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	9.9	12.4	14.9	14.9	14.9
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°	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7
2.5°	5484.3	5578.7	5757.6	5936.4	6045.7	6174.8	6408.3	6532.5	6694.0	6773.4	6929.9
5°	4418.8	4642.3	4721.8	4925.5	5144.0	5362.6	5710.4	6092.9	6410.8	6629.4	6912.5
7.5°	3224.0	3276.2	3584.2	3720.8	4078.5	4475.9	4950.3	5432.2	5834.6	6192.2	6408.3
10°	2416.8	2608.0	2801.8	3062.6	3350.7	3760.5	4215.1	4746.6	5268.2	5625.9	5899.1
12.5°	1942.4	2093.9	2352.2	2632.9	2988.1	3258.8	3715.8	4242.4	4918.0	5268.2	5628.4
15°	1470.4	1664.2	1957.3	2247.9	2622.9	2908.6	3370.6	4033.8	4903.1	5385.0	5695.5
17.5°	1090.4	1222.1	1485.3	1810.7	2193.2	2595.6	3219.1	4011.4	5069.5	5643.3	5963.7
20°	834.6	879.3	1045.7	1336.3	1751.1	2277.7	2973.2	4108.3	5561.3	6271.7	6597.1
22.5°	675.6	695.5	760.1	961.2	1363.6	1999.5	2856.4	4175.3	6115.2	7024.3	7459.0
25°	588.7	583.7	625.9	712.9	1065.6	1738.7	2707.4	4428.7	6793.3	7908.6	8298.5
27.5°	536.5	536.5	556.4	618.5	884.2	1569.8	2613.0	4610.0	7476.4	8686.0	8897.1
30°	509.2	514.2	571.3	591.2	735.2	1368.6	2456.5	4793.8	8129.6	9182.8	9473.4
32.5°	471.9	452.1	439.6	489.3	618.5	1187.3	2300.0	4870.8	8658.7	9791.3	10039.7
35°	362.6	352.7	367.6	404.9	531.5	1033.3	2126.2	4957.8	9267.2	10496.7	10546.4
37.5°	327.9	325.4	335.3	367.6	447.1	899.2	2002.0	4935.4	9731.7	11080.4	10946.3
40°	303.0	303.0	310.5	337.8	399.9	804.8	1872.8	4915.5	10181.3	11736.2	11343.7
42.5°	283.2	283.2	295.6	313.0	380.0	742.7	1776.0	4888.2	10558.8	12138.6	11577.2
45°	255.8	263.3	283.2	300.5	385.0	700.4	1703.9	4783.9	10688.0	12133.6	11465.4
47.5°	236.0	245.9	265.8	290.6	347.7	688.0	1654.2	4692.0	10643.3	11835.5	11115.2
50°	213.6	226.0	253.4	295.6	295.6	663.2	1602.1	4774.0	10611.0	11604.5	10779.9
52°	198.7	208.6	243.4	288.1	258.3	611.0	1569.8	4932.9	10742.6	11574.7	10630.9
52.5°	196.2	203.7	236.0	283.2	245.9	601.1	1547.4	4970.2	10784.9	11500.2	10732.7
55°	173.9	183.8	216.1	221.1	201.2	494.3	1475.4	5054.6	10576.2	11353.7	10635.8
57.5°	163.9	168.9	191.3	181.3	173.9	372.6	1269.2	4923.0	9393.9	10084.4	9895.6
60°	151.5	156.5	178.8	141.6	146.5	260.8	953.8	4274.7	7543.4	8402.9	8743.1
62.5°	146.5	144.1	168.9	114.3	124.2	188.8	673.1	3474.9	5812.2	6917.5	7506.2
65°	129.2	126.7	121.7	96.9	106.8	146.5	402.4	2267.8	4095.9	5233.5	5556.4
67.5°	99.4	104.3	89.4	77.0	89.4	114.3	223.5	1015.9	2148.5	3139.6	3400.4
70°	69.5	74.5	72.0	67.1	79.5	94.4	129.2	347.7	889.2	1649.3	1818.2
72.5°	42.2	52.2	54.6	57.1	69.5	82.0	91.9	111.8	236.0	583.7	725.3
75°	24.8	34.8	42.2	49.7	57.1	69.5	77.0	79.5	82.0	109.3	176.4
77.5°	17.4	24.8	37.3	47.2	57.1	69.5	82.0	86.9	82.0	77.0	82.0
80°	14.9	24.8	34.8	44.7	59.6	72.0	82.0	82.0	79.5	69.5	74.5
82.5°	14.9	24.8	37.3	47.2	57.1	69.5	79.5	82.0	74.5	69.5	72.0
85°	17.4	27.3	39.7	49.7	62.1	57.1	52.2	42.2	39.7	32.3	34.8
87.5°	17.4	24.8	24.8	27.3	29.8	29.8	29.8	27.3	22.4	19.9	19.9
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: P530213

CATALOG NUMBER: GALN-SA5B-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7	6348.7
2.5°	6937.4	7136.1	7128.6	7133.6	7103.8	6902.6	6805.7	6559.8	6629.4	6599.6
5°	7203.2	7399.4	7568.3	7548.4	7319.9	7046.7	6641.8	6259.3	6155.0	6001.0
7.5°	6937.4	7409.3	7565.8	7543.4	7205.6	6855.4	6209.6	5827.1	5645.8	5543.9
10°	6515.1	7061.6	7255.3	7295.1	7066.5	6535.0	5941.4	5327.9	5231.0	5054.6
12.5°	6274.2	6671.6	6790.8	6897.6	6818.2	6420.7	5737.7	5149.0	5014.9	4898.1
15°	6078.0	6313.9	6363.6	6485.3	6532.5	6318.9	5844.5	5342.8	5012.4	5000.0
17.5°	6259.3	6162.4	5981.1	6018.4	6167.4	6321.4	6120.2	5725.3	5404.8	5365.1
20°	6559.8	6132.6	5722.8	5814.7	5938.9	6410.8	6537.5	6259.3	6075.5	5973.7
22.5°	6905.1	6184.8	5640.8	5685.5	5921.5	6612.0	7213.1	7059.1	6716.3	6569.8
25°	7543.4	6328.8	5705.4	5735.2	6058.1	6892.7	7824.1	7938.4	7734.7	7704.9
27.5°	8166.9	6701.4	5847.0	5779.9	6127.6	7165.9	8194.2	8807.7	8450.0	8380.5
30°	8484.8	7004.4	6058.1	5943.8	6415.8	7332.3	8417.8	9374.0	9061.1	9028.8
32.5°	8971.7	7280.2	6222.0	6075.5	6577.2	7538.5	8835.0	9992.5	9689.5	9528.0
35°	9175.3	7580.7	6582.2	6410.8	7039.2	7826.6	9048.7	10543.9	10449.5	10293.1
37.5°	9567.8	7903.6	7006.9	6997.0	7598.1	8201.7	9433.6	11294.0	11276.7	11005.9
40°	9600.1	8256.3	7677.6	7990.5	8462.5	8854.9	9771.5	11502.7	11785.9	11602.0
42.5°	9649.7	8874.8	8837.5	9095.8	9500.7	9416.3	9783.9	11552.4	11984.6	11875.3
45°	9672.1	9493.3	10017.4	10494.3	10663.2	10151.5	9667.1	11458.0	12088.9	11815.7
47.5°	9493.3	10024.8	10971.1	11892.7	11942.3	10603.5	9617.5	11361.1	12151.0	11969.7
50°	9518.1	10357.6	11795.8	12620.4	12439.1	11003.4	9540.5	11301.5	12118.7	11997.0
52°	9458.5	10365.1	11912.5	12605.5	12478.8	10782.4	9408.8	11073.0	12088.9	12175.8
52.5°	9525.6	10320.4	11790.8	12615.5	12451.5	10891.7	9391.4	11199.7	12106.3	11929.9
55°	9294.6	9788.8	11078.0	11428.2	11403.3	9885.7	8857.4	10779.9	11651.7	11654.2
57.5°	8400.4	8484.8	8688.5	8681.0	8566.8	7772.0	7575.7	9913.0	10387.4	10129.1
60°	7401.9	6212.1	5663.2	5439.6	5312.9	5183.8	6701.4	9068.5	9113.2	9003.9
62.5°	6395.9	4307.0	3576.7	3514.6	3544.4	4016.4	6477.9	8733.2	8464.9	8229.0
65°	5161.4	3139.6	2598.1	2516.1	2806.7	3315.9	5243.4	6696.4	6284.1	6087.9
67.5°	3241.4	2290.1	1756.1	1602.1	1952.3	2282.7	3445.1	4207.6	3745.6	3474.9
70°	1922.5	1279.2	794.8	712.9	802.3	1217.1	1929.9	2098.9	1736.2	1597.1
72.5°	757.6	469.4	221.1	188.8	196.2	427.2	710.4	693.0	524.1	467.0
75°	203.7	141.6	77.0	62.1	52.2	79.5	114.3	74.5	27.3	34.8
77.5°	94.4	84.5	67.1	52.2	39.7	29.8	14.9	5.0	5.0	2.5
80°	82.0	72.0	62.1	52.2	39.7	24.8	12.4	2.5	2.5	2.5
82.5°	77.0	67.1	57.1	47.2	37.3	24.8	12.4	2.5	0.0	0.0
85°	32.3	42.2	47.2	44.7	39.7	24.8	12.4	2.5	0.0	0.0
87.5°	17.4	14.9	12.4	9.9	7.5	5.0	5.0	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

(END OF REPORT)