

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: P533024

Luminaire Tested: **GALN-SA8B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30627 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 325
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

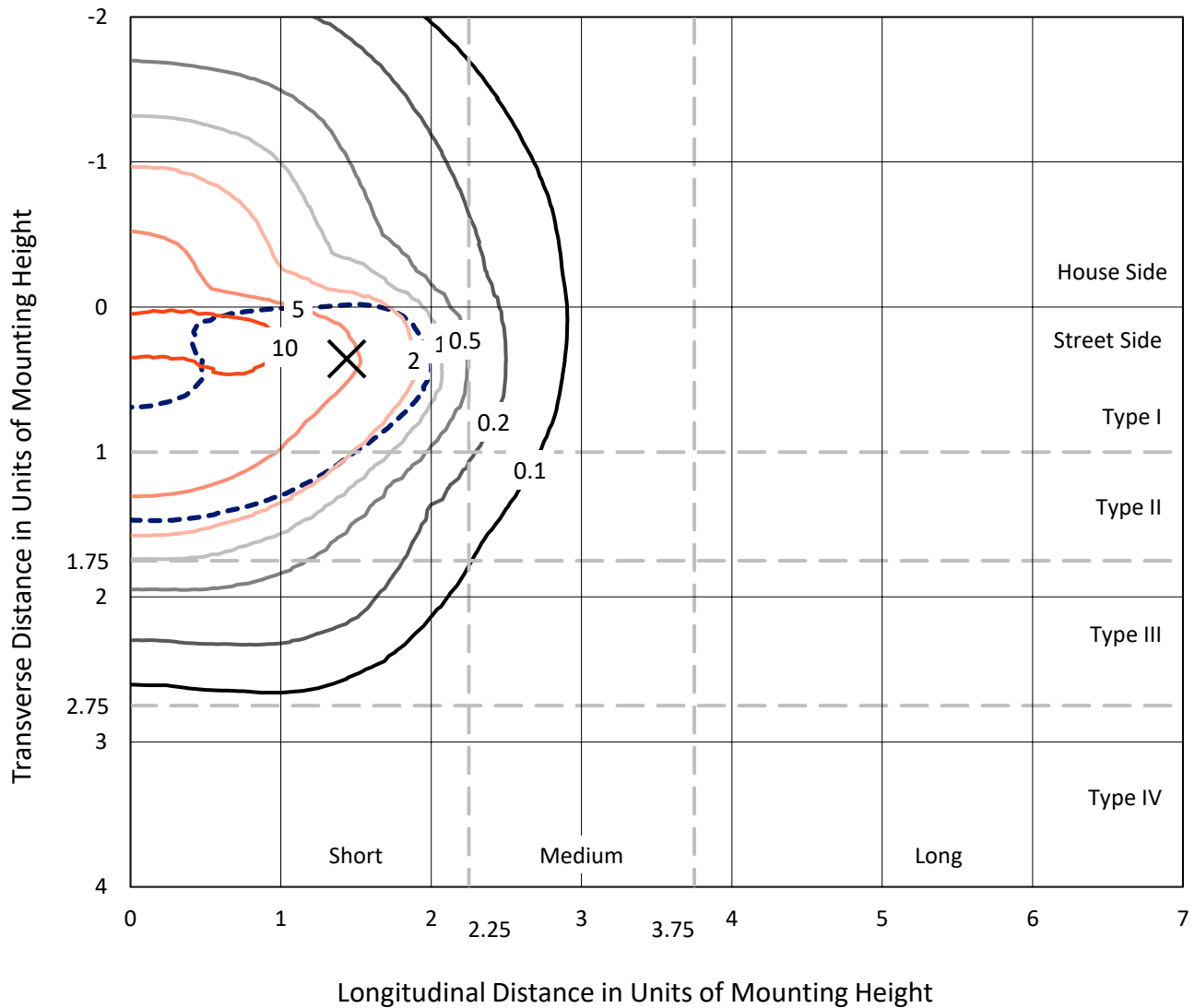


REPORT NUMBER: P533024

CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

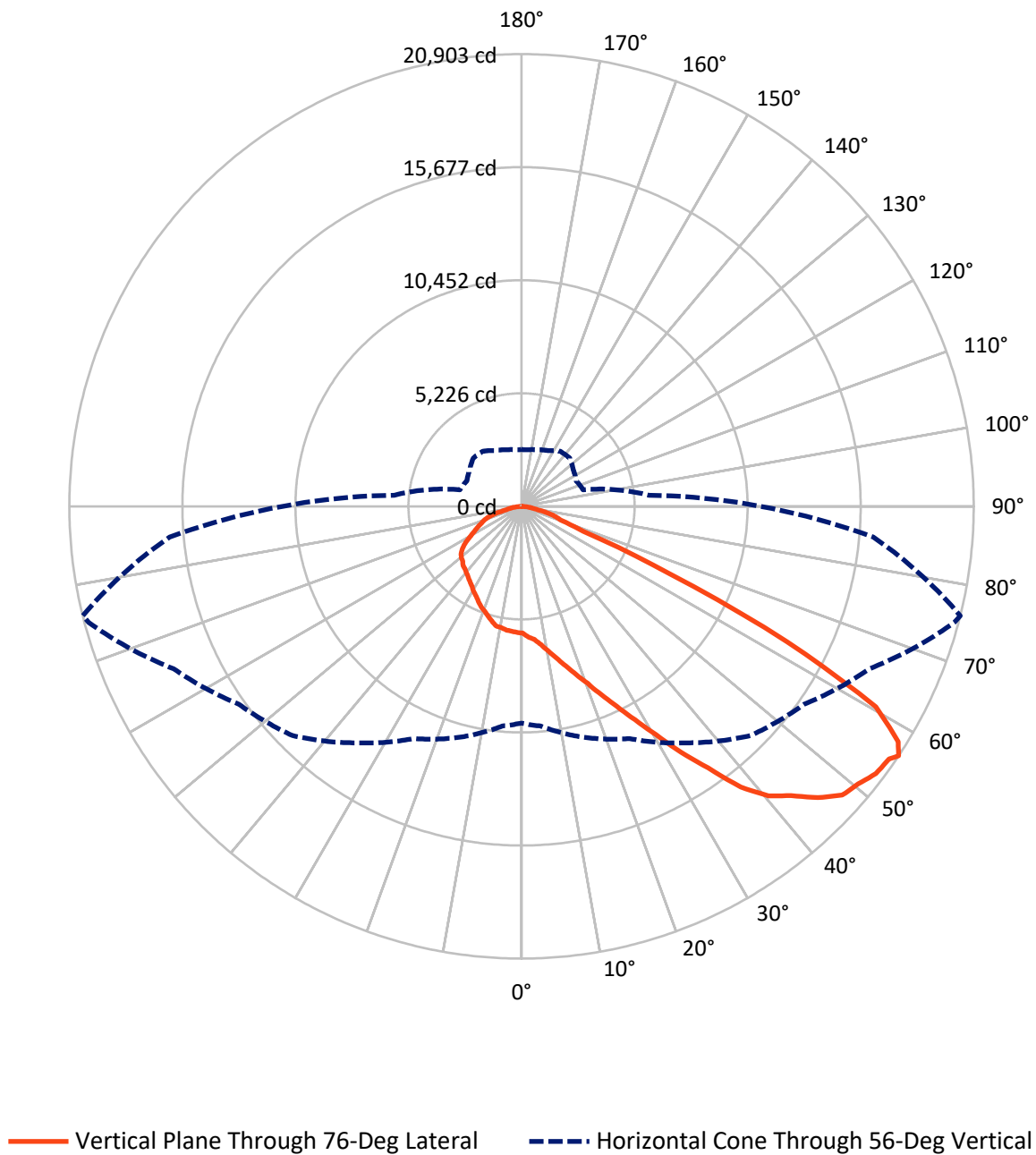


Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - N/A

REPORT NUMBER: P533024

CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533024

CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

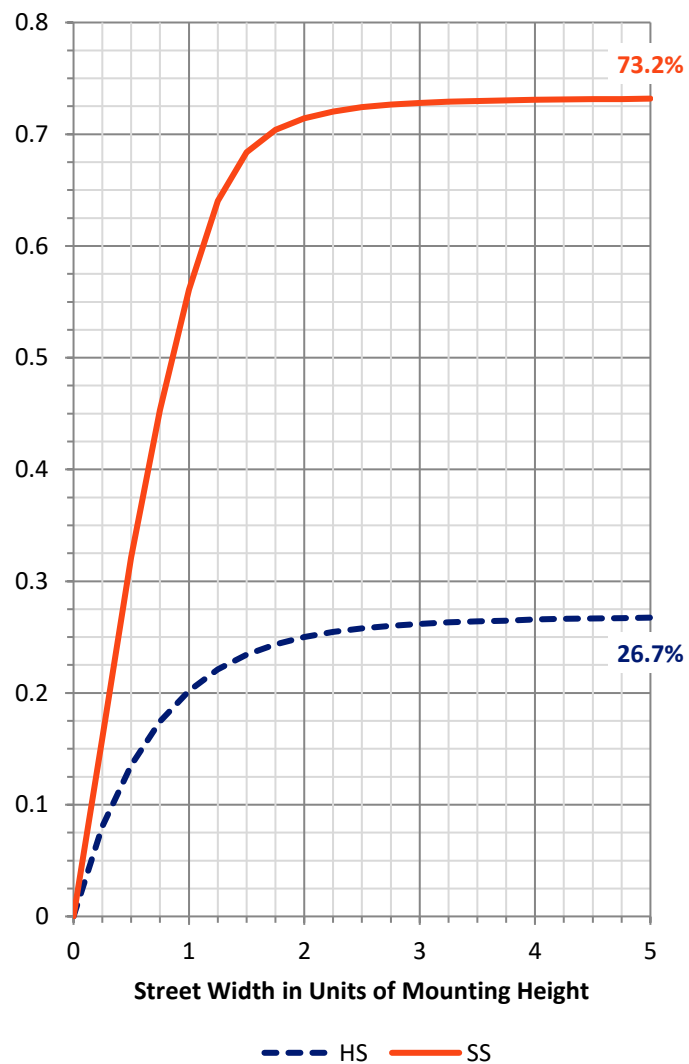
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8234.7	0.0	8234.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22392.3	0.0	22392.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	30627.0	0.0	30627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.1	1.9
10°-20°	1825.5	6.0
20°-30°	3192.7	10.4
30°-40°	4998.8	16.3
40°-50°	7271.8	23.7
50°-60°	7992.2	26.1
60°-70°	3567.4	11.6
70°-80°	1030.4	3.4
80°-90°	167.1	0.5
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°	30627.0	100.0
0°-180°	30627.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533024

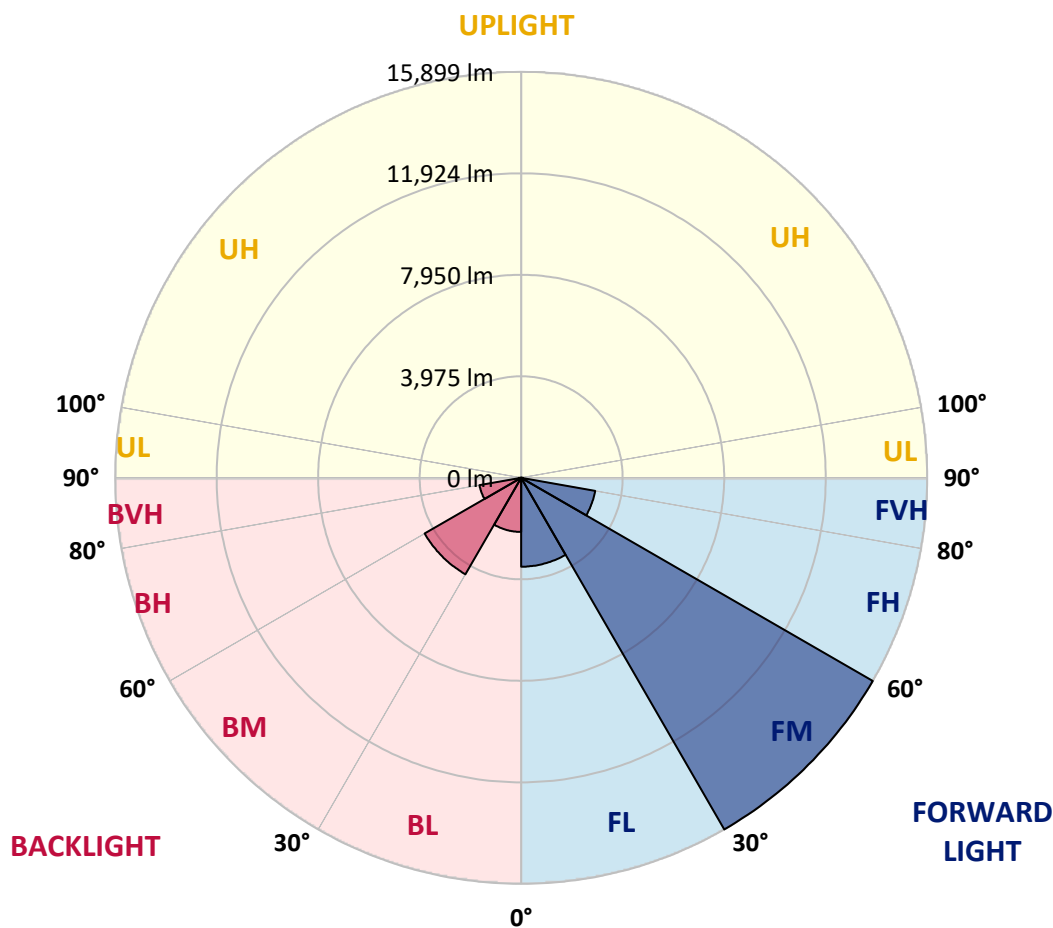
CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3480.4	11.4			
FM	(30°-60°)	15899.0	51.9			
FH	(60°-80°)	2940.9	9.6			G2/5000
FVH	(80°-90°)	71.9	0.2			G1/100
BL	(0°-30°)	2118.9	6.9	B3/2500		
BM	(30°-60°)	4363.7	14.2	B3/5000		
BH	(60°-80°)	1656.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	95.2	0.3			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 II Short



REPORT NUMBER: P533024

CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	6455.6	6352.4	6344.5	6316.7	6332.5	6261.1	6185.6	6086.4	5983.2	6046.7	5895.8
5°	6908.2	6769.3	6824.9	6729.6	6741.5	6646.2	6491.4	6376.2	6249.2	6173.7	6066.5
7.5°	7067.0	7078.9	7118.7	7102.8	7023.4	7023.4	6920.1	6717.7	6495.3	6451.6	6273.0
10°	7281.4	7285.4	7241.7	7253.6	7364.8	7313.2	7221.9	7134.5	6848.7	6797.1	6479.4
12.5°	7356.9	7285.4	7356.9	7420.4	7551.4	7622.9	7603.0	7539.5	7233.8	7198.1	6733.5
15°	7368.8	7325.1	7384.7	7527.6	7642.7	7944.5	8095.3	8051.7	7646.7	7650.7	7019.4
17.5°	7313.2	7372.7	7396.6	7519.6	7785.7	8067.5	8504.3	8563.8	8230.3	8178.7	7380.7
20°	7388.6	7345.0	7376.7	7487.9	7841.2	8281.9	8853.6	9246.7	8778.2	8742.5	7753.9
22.5°	7678.5	7618.9	7611.0	7682.4	7936.5	8393.1	9222.9	9929.6	9445.2	9465.1	8218.4
25°	7904.8	7936.5	7908.7	7904.8	8063.6	8559.9	9711.2	10743.5	10350.4	10235.3	8766.3
27.5°	8293.8	8369.3	8313.7	8389.1	8353.4	8810.0	10060.6	11644.7	11327.1	11172.3	9262.6
30°	8833.8	8873.5	8821.9	8821.9	8714.7	9159.4	10378.2	12585.7	12454.7	12244.2	9846.2
32.5°	9544.5	9604.0	9500.8	9441.2	9425.4	9679.5	10949.9	13514.7	13737.1	13558.4	10620.4
35°	10485.4	10449.7	10326.6	10271.0	10056.6	10477.5	11799.6	14582.7	15166.3	14848.7	11557.4
37.5°	11315.2	11259.6	11251.7	10942.0	10993.6	11339.0	12522.2	15392.6	16552.0	16460.6	12546.0
40°	12089.4	12141.0	12224.4	12049.7	11970.3	12351.4	13363.8	16012.0	17627.9	17592.2	13308.3
42.5°	12919.2	12871.5	13018.4	12871.5	12752.4	13292.4	14277.0	16440.8	18572.8	18279.0	14106.3
45°	14122.2	13971.3	14022.9	14034.8	13947.5	14146.0	14654.2	16750.5	19235.8	19204.1	14689.9
47.5°	15126.6	15130.6	15043.3	14975.8	14709.8	14908.3	15075.0	16945.0	19998.1	19946.5	14916.2
50°	15499.8	15448.2	15702.3	15849.2	15865.1	15460.1	15404.6	17052.2	20399.1	20172.8	15142.5
52.5°	14157.9	14205.5	14606.5	15480.0	15984.2	16027.9	15789.7	17274.5	20561.9	20514.3	15325.1
55°	11394.6	11624.9	12283.9	13292.4	14487.4	15801.6	16206.5	17504.8	20649.2	20609.5	16135.1
56°	10016.9	10195.6	11053.2	11843.2	13344.0	14979.7	15944.5	17751.0	20716.7	20903.3	16325.7
57.5°	8063.6	8270.0	8885.4	9782.7	11553.4	13415.5	15221.9	17449.2	20454.7	20526.2	16464.6
60°	5042.2	5062.1	5800.5	6392.1	7638.8	9457.1	11616.9	15182.2	18930.1	18826.9	14789.2
62.5°	3307.2	3311.2	3982.2	4466.5	5034.3	5451.1	6836.8	10068.5	13967.3	13784.7	10529.1
65°	2322.6	2374.2	2894.3	3541.5	3771.7	3553.4	3509.7	5308.2	7801.5	7539.5	5657.6
67.5°	1699.3	1703.2	2163.8	2858.6	3192.1	2703.7	2195.5	2592.6	3088.9	3080.9	2620.4
70°	1123.6	1171.2	1524.6	2136.0	2517.1	2171.7	1794.6	1854.1	1965.3	1965.3	1949.4
72.5°	655.1	698.8	933.0	1353.9	1413.4	1357.8	1421.3	1588.1	1659.6	1655.6	1635.7
75°	373.2	393.1	444.7	563.8	702.7	829.8	1044.2	1203.0	1274.4	1318.1	1266.5
77.5°	218.4	230.3	262.0	321.6	365.3	448.6	567.7	678.9	774.2	762.3	770.2
80°	115.1	115.1	146.9	190.6	254.1	317.6	377.2	440.7	492.3	504.2	516.1
82.5°	67.5	71.5	95.3	139.0	182.6	226.3	289.8	333.5	381.1	385.1	393.1
85°	35.7	39.7	59.6	91.3	123.1	139.0	142.9	135.0	146.9	139.0	158.8
87.5°	11.9	11.9	19.9	15.9	15.9	19.9	23.8	23.8	31.8	31.8	31.8
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: P533024

CATALOG NUMBER: GALN-SA8B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5891.8	5891.8	5824.4	5697.3	5677.5	5625.8	5578.2	5574.2	5538.5	5506.7	5490.9
5°	6003.0	5879.9	5780.7	5665.5	5530.6	5467.0	5395.6	5316.2	5284.4	5316.2	5312.2
7.5°	6130.1	6026.8	5729.1	5514.7	5359.8	5296.3	5216.9	5133.5	5141.5	5141.5	5085.9
10°	6253.1	6114.2	5637.7	5363.8	5137.5	5089.9	5046.2	5077.9	5117.6	5125.6	5089.9
12.5°	6459.6	6145.9	5594.1	5212.9	5070.0	4966.8	4994.6	5081.9	5165.3	5141.5	5169.3
15°	6614.4	6173.7	5395.6	5058.1	4879.4	4927.1	5026.3	5085.9	5224.8	5209.0	5236.8
17.5°	6765.3	6189.6	5201.0	4851.6	4776.2	4907.2	4982.7	5153.4	5197.1	5292.3	5328.1
20°	7075.0	6221.4	5002.5	4724.6	4700.8	4851.6	4982.7	5062.1	5157.3	5240.7	5240.7
22.5°	7233.8	6205.5	4871.5	4557.8	4633.3	4728.6	4847.7	4982.7	4982.7	5062.1	5066.0
25°	7432.3	6142.0	4665.0	4478.4	4534.0	4625.3	4760.3	4712.7	4764.3	4764.3	4827.8
27.5°	7658.6	6007.0	4486.4	4335.5	4446.7	4545.9	4565.8	4534.0	4474.5	4466.5	4442.7
30°	7841.2	5840.2	4355.4	4287.9	4379.2	4434.8	4371.2	4303.7	4200.5	4192.6	4137.0
32.5°	8091.4	5633.8	4192.6	4168.8	4272.0	4276.0	4256.1	4152.9	4002.0	3938.5	3875.0
35°	8512.2	5514.7	4069.5	4105.2	4137.0	4125.1	4089.4	3978.2	3827.3	3799.5	3775.7
37.5°	8821.9	5427.3	3942.5	3986.1	4013.9	4029.8	3922.6	3799.5	3803.5	3747.9	3732.0
40°	9171.3	5371.7	3839.2	3859.1	3863.0	3914.7	3783.6	3724.1	3751.9	3716.2	3740.0
42.5°	9619.9	5387.6	3732.0	3716.2	3791.6	3771.7	3708.2	3628.8	3644.7	3537.5	3553.4
45°	9858.1	5494.8	3668.5	3597.0	3680.4	3676.4	3593.1	3517.6	3422.4	3215.9	3223.8
47.5°	10016.9	5522.6	3517.6	3470.0	3557.3	3609.0	3513.7	3339.0	3204.0	3057.1	3021.4
50°	10179.7	5574.2	3446.2	3346.9	3382.6	3505.7	3386.6	3219.9	3088.9	2957.8	2977.7
52.5°	10322.6	5673.5	3307.2	3160.3	3223.8	3358.8	3295.3	3092.8	2949.9	2842.7	2810.9
55°	10957.9	5895.8	3073.0	2882.4	3033.3	3204.0	3168.3	2922.1	2767.3	2711.7	2703.7
56°	11057.1	5903.8	2949.9	2787.1	2926.1	3152.4	3108.7	2846.7	2707.7	2620.4	2624.3
57.5°	11073.0	5808.5	2775.2	2699.8	2818.9	3076.9	3021.4	2787.1	2596.5	2517.1	2493.3
60°	9743.0	4534.0	2556.8	2509.2	2648.2	2846.7	2826.8	2624.3	2409.9	2318.6	2362.3
62.5°	6642.2	3323.1	2386.1	2378.2	2449.6	2644.2	2592.6	2409.9	2231.3	2171.7	2143.9
65°	3867.0	2521.1	2219.4	2187.6	2247.2	2350.4	2386.1	2195.5	2008.9	1969.2	1957.3
67.5°	2282.9	2084.4	2005.0	1953.4	1933.5	1997.0	2024.8	1913.7	1727.1	1671.5	1719.1
70°	1909.7	1854.1	1858.1	1770.7	1723.1	1679.4	1655.6	1556.3	1401.5	1330.0	1310.2
72.5°	1647.7	1623.8	1607.9	1528.5	1484.9	1385.6	1282.4	1183.1	1068.0	1008.4	1012.4
75°	1258.6	1250.6	1258.6	1218.9	1143.4	1064.0	968.7	841.7	754.3	678.9	694.8
77.5°	750.4	774.2	786.1	770.2	738.5	667.0	607.4	524.1	440.7	381.1	373.2
80°	516.1	536.0	555.8	536.0	504.2	452.6	389.1	325.6	266.0	234.2	226.3
82.5°	393.1	412.9	424.8	405.0	365.3	309.7	266.0	222.3	174.7	142.9	135.0
85°	142.9	162.8	158.8	190.6	206.5	198.5	170.7	131.0	99.3	71.5	67.5
87.5°	39.7	35.7	39.7	39.7	39.7	35.7	31.8	31.8	31.8	19.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)