

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: P531615

Luminaire Tested: **GALN-SA6D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20153 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 368
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

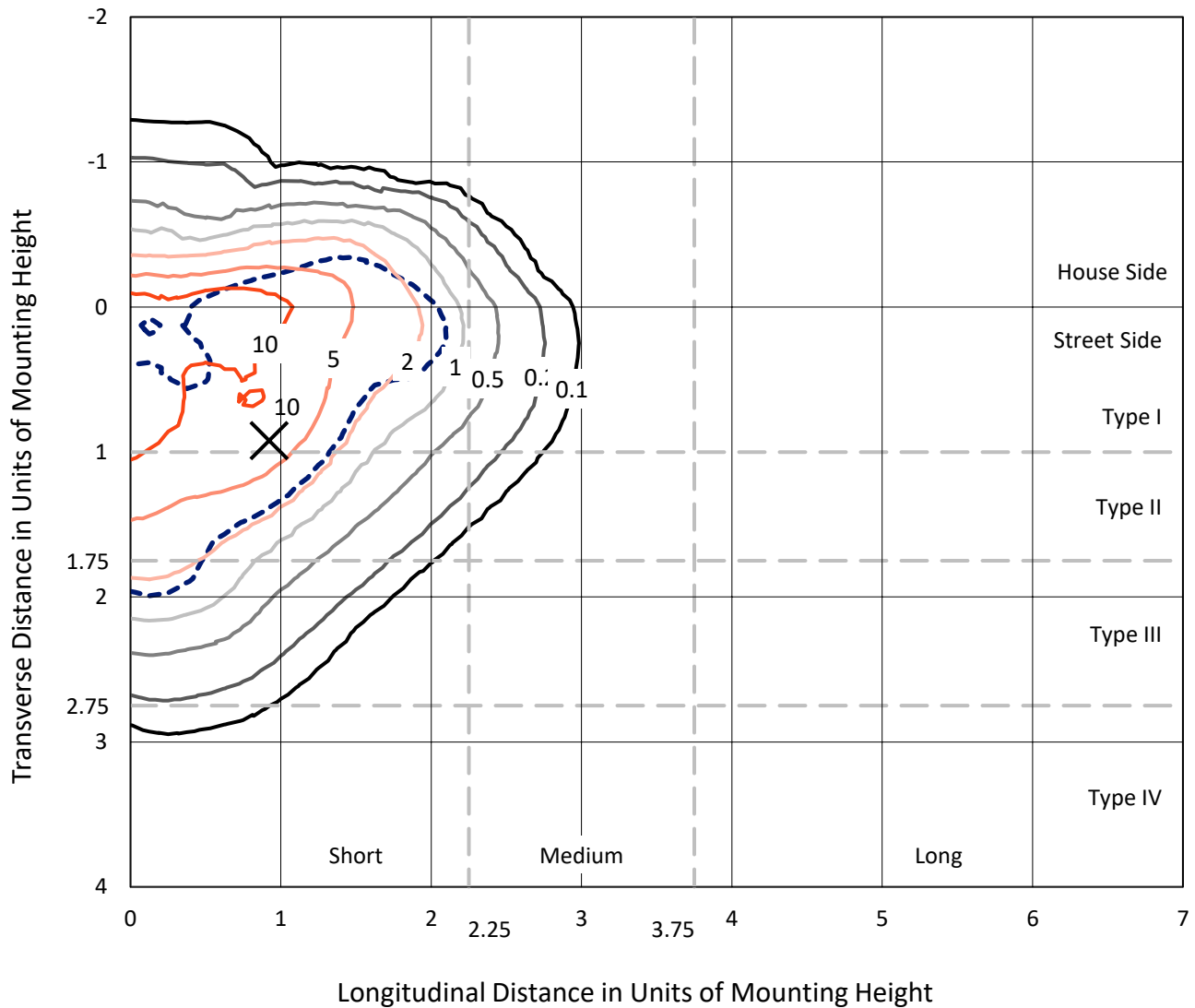


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Iso-Footcandle Lines of Horizontal Illumination

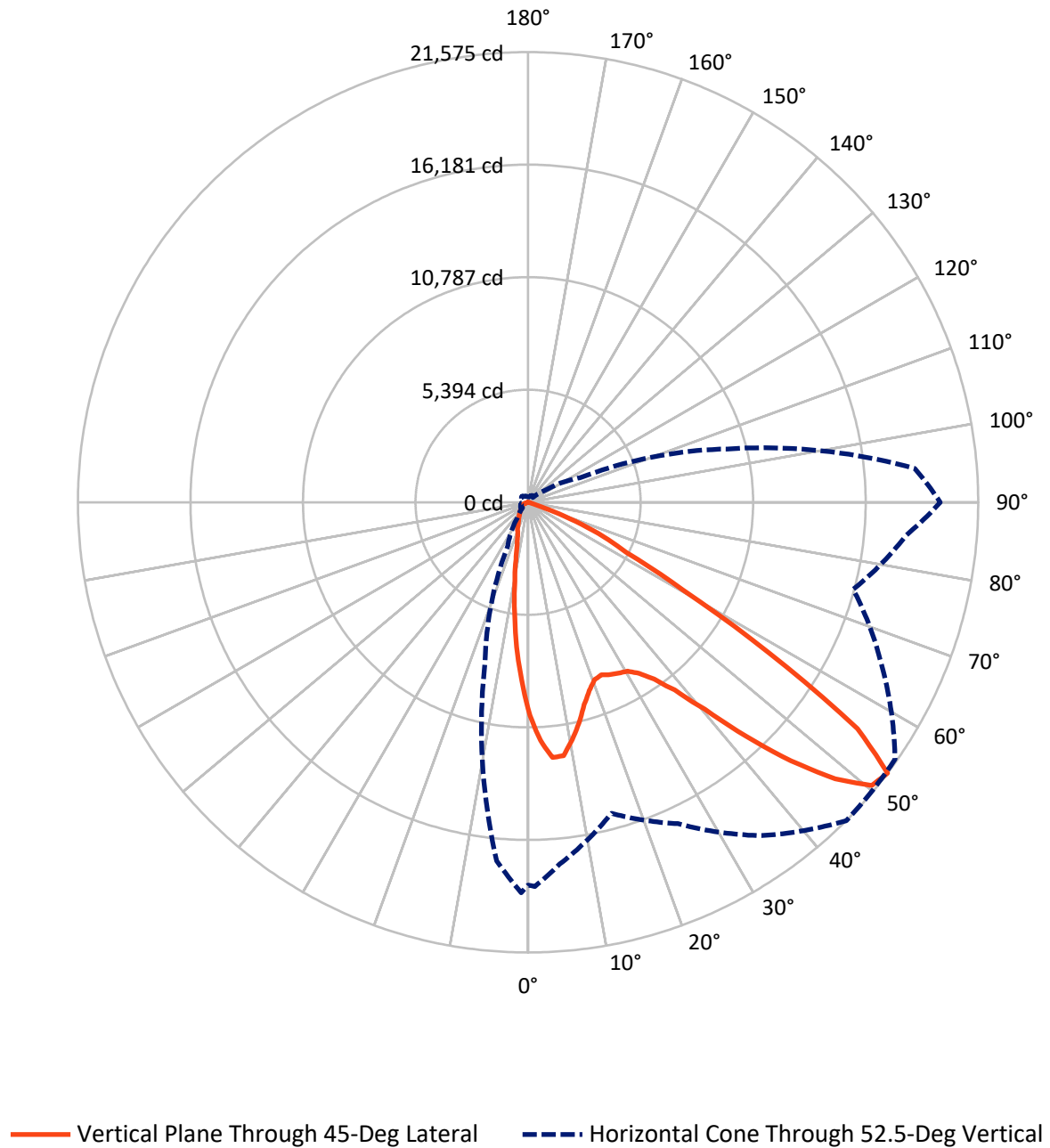
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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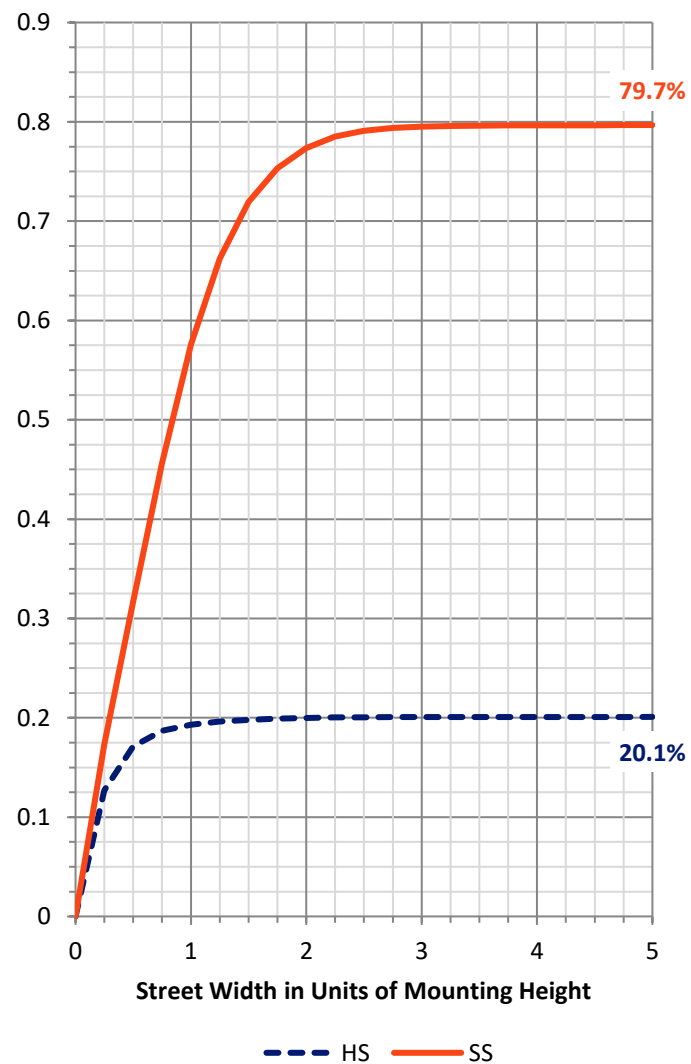
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4090.1	0.0	4090.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	16062.9	0.0	16062.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	20153.0	0.0	20153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.2	3.7
10°-20°	1470.3	7.3
20°-30°	2237.5	11.1
30°-40°	3344.3	16.6
40°-50°	4762.5	23.6
50°-60°	5119.6	25.4
60°-70°	2268.6	11.3
70°-80°	183.5	0.9
80°-90°	21.4	0.1
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°	20153.0	100.0
0°-180°	20153.0	100.0

Coefficient of Utilization



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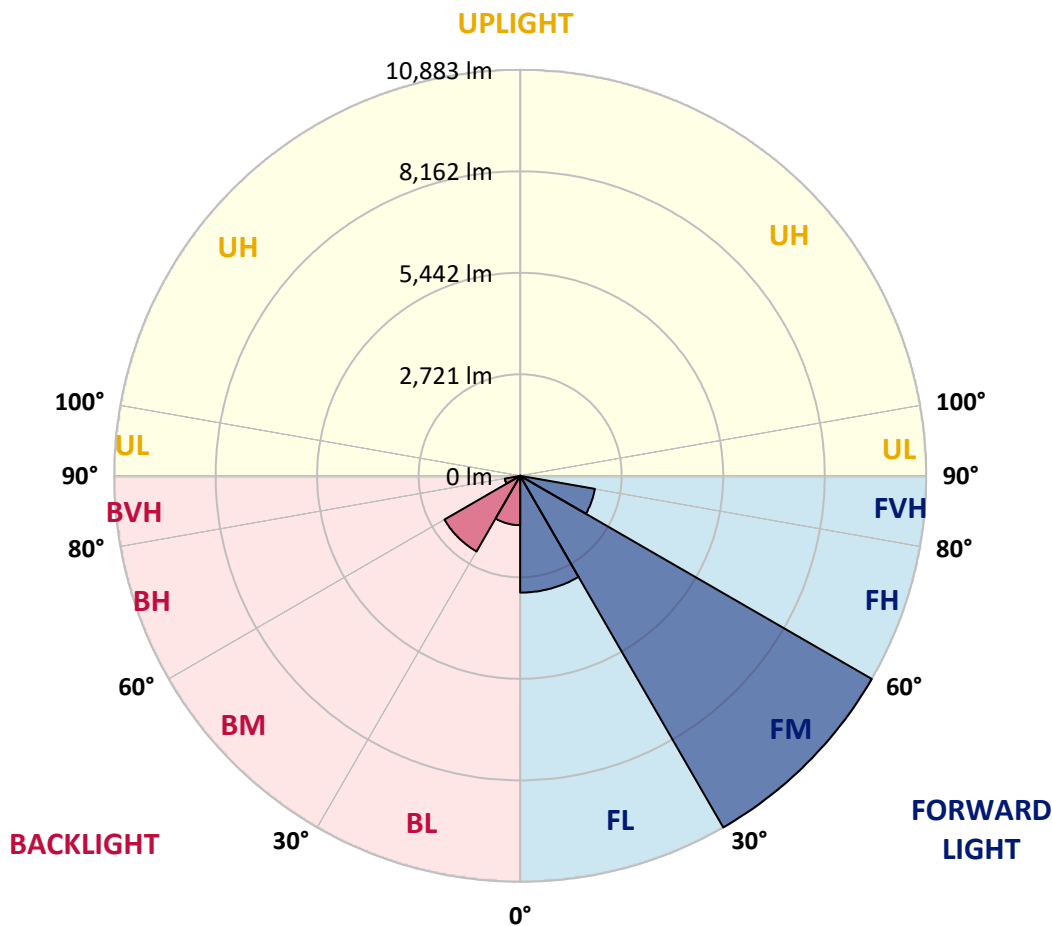
CATALOG NUMBER: GALN-SA6D-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3130.2	15.5			
FM	(30°-60°)	10883.2	54.0			
FH	(60°-80°)	2033.7	10.1			G2/5000
FVH	(80°-90°)	15.8	0.1			G1/100
BL	(0°-30°)	1322.9	6.6	B3/2500		
BM	(30°-60°)	2343.2	11.6	B2/2500		
BH	(60°-80°)	418.5	2.1	B1/500		G1/500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5
2.5°	10813.1	10844.8	11019.2	11237.2	11352.1	11613.7	11431.4	11479.0	11379.9	11031.1	10757.6
5°	10484.1	10480.1	10702.1	11241.2	11752.5	12271.7	12287.6	12010.1	11522.6	10987.5	10222.5
7.5°	9493.1	9647.7	9877.6	10737.8	11685.1	12073.5	12259.8	11934.8	11185.7	10420.7	9592.2
10°	8744.0	8823.3	9211.7	10250.2	10943.9	11463.1	11578.1	11391.8	10817.0	9861.8	8934.3
12.5°	8312.0	8351.6	8807.4	9679.4	10412.7	10797.2	10852.7	10939.9	10527.7	9631.9	8518.1
15°	8315.9	8347.6	8962.0	9691.3	9980.7	9877.6	10060.0	10056.0	10234.4	9588.3	8866.9
17.5°	8914.4	8950.1	9505.0	9865.7	9738.9	9497.1	9485.2	9667.5	10044.1	10131.3	9394.1
20°	9945.0	10028.2	10436.5	10416.7	9703.2	9215.7	9080.9	9219.6	10095.6	10591.1	10456.3
22.5°	11332.3	11447.3	11732.7	11185.7	9865.7	9025.4	8981.8	9251.4	10436.5	11617.7	11661.3
25°	12941.6	13135.8	13274.5	12573.0	10444.4	9354.4	9148.3	9612.1	10896.3	12731.5	13195.3
27.5°	14007.8	14210.0	14178.3	13175.5	10832.9	9441.6	9267.2	9699.3	11296.6	12997.1	13995.9
30°	14840.2	14963.1	15185.1	13500.5	11221.3	9687.4	9390.1	10067.9	11427.4	13456.9	14963.1
32.5°	15811.3	15894.6	15910.4	14075.2	11819.9	9996.5	9770.6	10527.7	12006.2	13896.9	15819.3
35°	16790.4	16913.3	16655.6	14784.7	12188.5	10571.3	10404.8	11324.4	12469.9	14352.7	16762.6
37.5°	17852.7	17916.1	17321.5	15078.0	12715.7	11506.7	11415.6	12184.5	13274.5	15177.1	17809.1
40°	18744.5	18804.0	18031.0	15438.7	13270.6	12814.8	13048.6	13825.5	14368.5	15712.2	18332.3
42.5°	19240.0	19378.7	18268.9	15240.6	14384.4	14297.2	15335.7	15609.2	15636.9	15862.9	18800.0
45°	19374.7	19311.3	17876.4	15403.1	15359.5	16734.9	17678.3	18039.0	16897.4	16140.3	18918.9
47.5°	18752.4	18835.7	17297.7	15260.4	16639.8	18582.0	19802.8	20472.7	17836.8	15898.5	18625.6
50°	18249.0	18142.0	17111.4	15157.3	16984.6	19454.0	21336.8	21487.4	18700.9	16195.8	18304.5
52.5°	18348.1	18415.5	17408.7	15430.8	16992.5	19505.5	21574.6	21471.6	18728.6	16128.4	18189.6
55°	18558.2	18260.9	17281.9	14828.3	15854.9	18066.7	19148.8	18990.3	17285.8	15411.0	17908.2
57.5°	16013.5	16473.3	15890.6	13238.9	13012.9	13611.5	13591.6	14079.2	12894.0	13262.7	16302.8
60°	12997.1	13076.4	13294.4	11324.4	9005.6	8799.5	8514.1	8204.9	8676.6	11340.2	14828.3
62.5°	11431.4	11336.3	12113.2	10301.7	6357.8	5323.3	5275.7	5466.0	6694.7	10817.0	13908.7
65°	8308.0	8426.9	8989.8	7994.9	4772.3	4062.8	3991.5	4554.3	5418.4	8668.7	10614.9
67.5°	5073.6	5303.5	5355.0	4930.9	3238.4	2572.5	2469.4	2980.7	3912.2	5608.7	6223.1
70°	2342.6	2620.0	2881.6	2691.4	1874.8	1058.3	998.9	1252.5	1973.9	3226.5	3301.8
72.5°	709.5	713.5	998.9	1042.5	606.5	237.8	210.1	277.5	669.9	1066.2	1121.7
75°	51.5	55.5	134.8	154.6	114.9	59.5	63.4	75.3	142.7	237.8	178.4
77.5°	4.0	4.0	4.0	19.8	35.7	39.6	51.5	59.5	75.3	87.2	79.3
80°	4.0	0.0	4.0	15.9	27.7	39.6	47.6	55.5	59.5	67.4	59.5
82.5°	0.0	0.0	0.0	11.9	27.7	39.6	43.6	59.5	67.4	79.3	67.4
85°	0.0	0.0	0.0	11.9	27.7	43.6	39.6	19.8	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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CATALOG NUMBER: GALN-SA6D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5
2.5°	10805.1	10650.6	10297.8	10119.4	9699.3	9639.8	9227.6	9160.2	9021.5	8946.1	8763.8
5°	9885.6	9699.3	9124.5	8640.9	8078.1	7685.7	7384.4	7110.9	6952.4	6805.7	6873.1
7.5°	9136.4	8593.4	7955.2	7146.6	6496.6	6076.4	5616.6	5240.1	5018.1	4867.5	4903.1
10°	8351.6	7998.8	7110.9	6203.2	5418.4	5121.1	4760.4	4471.1	4158.0	3888.4	3761.6
12.5°	8105.8	7582.6	6468.8	5545.3	4950.7	4661.4	4249.1	3916.2	3515.8	3186.8	3071.9
15°	8149.4	7646.0	6294.4	5307.4	4605.9	4106.4	3614.9	3202.7	2762.7	2532.8	2413.9
17.5°	8858.9	7986.9	6409.4	5057.7	4126.2	3432.6	2826.1	2302.9	1973.9	1736.1	1684.6
20°	9731.0	8724.2	6655.1	4875.4	3733.8	2731.0	2065.1	1613.2	1339.7	1300.1	1288.2
22.5°	11007.3	9929.2	7182.3	4752.5	3254.2	2128.5	1415.1	1173.3	1098.0	1090.0	1094.0
25°	12791.0	11439.3	7757.0	4649.5	2893.5	1641.0	1157.4	994.9	971.1	959.2	979.0
27.5°	13563.9	12351.0	8062.2	4427.5	2564.5	1478.5	1141.6	987.0	919.6	899.8	911.7
30°	14519.2	12957.4	8541.8	4047.0	2081.0	1216.9	1066.2	1074.2	1042.5	943.4	911.7
32.5°	15787.6	13714.5	8783.6	3777.4	1859.0	1006.8	780.9	717.4	800.7	816.5	844.3
35°	16600.1	14483.5	8906.5	3618.9	1744.0	860.1	661.9	602.5	582.7	586.6	602.5
37.5°	18110.3	15522.0	9061.1	3452.4	1656.8	749.1	598.5	543.0	515.3	515.3	531.1
40°	19014.0	16346.4	9271.2	3361.2	1569.6	681.8	543.0	495.5	471.7	471.7	479.6
42.5°	19240.0	16754.7	9199.8	3329.5	1470.5	665.9	495.5	459.8	432.0	428.1	424.1
45°	19644.3	17377.0	9211.7	3293.9	1367.5	606.5	467.7	428.1	388.4	384.5	380.5
47.5°	20088.2	17824.9	9235.5	3155.1	1268.4	507.4	487.5	396.4	348.8	340.9	340.9
50°	19707.7	18181.7	9441.6	3016.4	1141.6	412.2	479.6	372.6	309.2	297.3	301.2
52.5°	19755.3	18601.8	9877.6	2822.2	983.0	329.0	388.4	352.8	281.4	261.6	265.6
55°	18994.2	18157.9	9937.1	2616.1	769.0	253.7	297.3	309.2	237.8	229.9	229.9
57.5°	16350.4	15375.3	8767.8	2120.6	507.4	210.1	214.0	269.5	206.1	198.2	202.2
60°	13992.0	12343.1	7055.4	1399.2	317.1	166.5	154.6	273.5	182.3	178.4	190.3
62.5°	12755.3	10143.2	5351.0	868.1	218.0	126.8	107.0	222.0	158.5	158.5	174.4
65°	9215.7	6813.7	3111.5	455.8	154.6	99.1	79.3	126.8	130.8	134.8	142.7
67.5°	5707.8	3440.5	1312.0	222.0	103.1	67.4	51.5	79.3	87.2	87.2	95.1
70°	2818.2	1371.5	436.0	126.8	79.3	55.5	35.7	43.6	43.6	39.6	43.6
72.5°	872.0	412.2	111.0	79.3	55.5	35.7	19.8	15.9	7.9	0.0	4.0
75°	99.1	79.3	71.3	55.5	35.7	15.9	4.0	0.0	0.0	0.0	0.0
77.5°	59.5	67.4	67.4	55.5	35.7	11.9	0.0	0.0	0.0	0.0	0.0
80°	47.6	51.5	55.5	51.5	31.7	15.9	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	67.4	75.3	67.4	43.6	19.8	7.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.9	4.0	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°	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5
2.5°	8688.5	8601.3	8724.2	8541.8	8537.9	8541.8	8490.3	8442.8	8518.1	8720.2	8740.0
5°	6631.3	6817.6	6877.1	7071.3	6964.3	6805.7	6837.4	6730.4	6992.0	7107.0	7015.8
7.5°	4827.8	4815.9	5216.3	5240.1	5291.6	5295.5	5287.6	5077.5	4863.5	4911.1	5053.8
10°	3745.7	3543.6	3737.8	3718.0	3844.8	3809.1	3860.7	3634.7	3710.1	3710.1	3801.2
12.5°	3052.1	2838.0	2802.4	2750.8	2802.4	2822.2	2842.0	2798.4	2925.2	2984.7	3048.1
15°	2330.7	2211.8	2180.1	2081.0	2096.8	2152.3	2199.9	2219.7	2180.1	2271.2	2279.1
17.5°	1692.5	1688.6	1708.4	1704.4	1688.6	1676.7	1672.7	1621.2	1605.3	1613.2	1644.9
20°	1284.3	1316.0	1383.3	1450.7	1486.4	1442.8	1383.3	1296.1	1260.5	1268.4	1272.4
22.5°	1098.0	1145.5	1236.7	1312.0	1347.7	1268.4	1161.4	1086.1	1070.2	1066.2	1062.3
25°	994.9	1050.4	1117.8	1141.6	1137.6	1090.0	1010.8	979.0	971.1	963.2	927.5
27.5°	939.4	959.2	971.1	998.9	1010.8	979.0	959.2	911.7	903.7	903.7	879.9
30°	907.7	895.8	911.7	891.8	907.7	883.9	887.9	887.9	868.1	876.0	876.0
32.5°	844.3	848.2	848.2	808.6	820.5	792.7	820.5	844.3	848.2	852.2	883.9
35°	618.3	689.7	725.4	725.4	737.3	717.4	713.5	685.7	650.1	614.4	598.5
37.5°	543.0	570.8	618.3	646.1	665.9	650.1	614.4	570.8	551.0	535.1	519.2
40°	483.6	507.4	539.1	570.8	610.4	590.6	535.1	515.3	491.5	491.5	475.6
42.5°	436.0	447.9	467.7	515.3	558.9	519.2	479.6	463.8	451.9	447.9	443.9
45°	392.4	396.4	416.2	455.8	507.4	467.7	428.1	408.3	412.2	416.2	412.2
47.5°	352.8	360.7	372.6	420.2	451.9	432.0	388.4	376.6	376.6	376.6	380.5
50°	305.2	325.0	348.8	388.4	412.2	400.3	364.7	348.8	340.9	340.9	344.8
52.5°	273.5	289.4	321.1	368.6	400.3	380.5	344.8	321.1	305.2	301.2	309.2
55°	237.8	265.6	317.1	352.8	396.4	376.6	336.9	309.2	281.4	277.5	277.5
57.5°	214.0	257.6	305.2	348.8	384.5	368.6	336.9	301.2	265.6	261.6	261.6
60°	202.2	249.7	297.3	336.9	384.5	360.7	333.0	293.3	253.7	253.7	249.7
62.5°	190.3	233.9	281.4	321.1	368.6	348.8	321.1	281.4	241.8	241.8	233.9
65°	158.5	202.2	233.9	269.5	321.1	301.2	273.5	245.8	214.0	206.1	210.1
67.5°	111.0	138.7	170.4	206.1	237.8	229.9	218.0	198.2	170.4	166.5	162.5
70°	55.5	75.3	103.1	138.7	166.5	158.5	150.6	134.8	118.9	114.9	114.9
72.5°	7.9	23.8	43.6	63.4	87.2	91.2	87.2	83.2	79.3	75.3	79.3
75°	0.0	0.0	0.0	15.9	35.7	43.6	51.5	59.5	59.5	51.5	63.4
77.5°	0.0	0.0	0.0	0.0	4.0	19.8	39.6	51.5	63.4	55.5	75.3
80°	0.0	0.0	0.0	0.0	4.0	23.8	39.6	55.5	63.4	55.5	79.3
82.5°	0.0	0.0	0.0	0.0	4.0	27.7	39.6	51.5	59.5	55.5	71.3
85°	0.0	0.0	0.0	0.0	11.9	23.8	15.9	7.9	4.0	4.0	11.9
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: P531615

CATALOG NUMBER: GALN-SA6D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5	10218.5
2.5°	8851.0	9132.4	9433.7	9548.6	9905.4	10174.9	10357.2	10749.6	10809.1	10813.1
5°	7110.9	7253.6	7768.9	8010.7	8541.8	8954.1	9394.1	10028.2	10452.4	10484.1
7.5°	5053.8	5450.1	5668.1	6298.4	6952.4	7598.5	8252.5	8989.8	9481.3	9493.1
10°	4066.8	4324.4	4712.9	5184.6	5735.5	6393.5	7265.5	8121.7	8621.1	8744.0
12.5°	3274.0	3725.9	4169.8	4657.4	5077.5	5573.0	6512.4	7654.0	8066.2	8312.0
15°	2520.9	2933.2	3456.4	4027.2	4502.8	5164.7	6235.0	7539.0	8232.7	8315.9
17.5°	1859.0	2227.6	2711.2	3250.3	3963.7	4903.1	6282.5	8121.7	8775.7	8914.4
20°	1335.8	1549.8	1930.3	2556.6	3464.3	4597.9	6330.1	8712.3	9707.2	9945.0
22.5°	1058.3	1145.5	1395.2	1950.2	2905.4	4276.9	6667.0	9842.0	10987.5	11332.3
25°	919.6	967.2	1086.1	1537.9	2552.6	4245.2	7206.1	11197.6	12691.9	12941.6
27.5°	887.9	895.8	998.9	1411.1	2362.4	4035.1	7412.2	12160.7	13754.2	14007.8
30°	935.4	1062.3	1070.2	1193.1	2009.6	3618.9	7519.2	13092.2	14653.9	14840.2
32.5°	808.6	769.0	796.7	923.6	1767.8	3377.1	7721.4	13904.8	15680.5	15811.3
35°	562.9	590.6	654.0	800.7	1545.9	3123.4	7772.9	14800.6	16655.6	16790.4
37.5°	519.2	535.1	586.6	681.8	1359.6	2980.7	7701.5	15454.6	17666.4	17852.7
40°	483.6	503.4	531.1	618.3	1220.8	2822.2	7602.4	16045.2	18284.7	18744.5
42.5°	455.8	471.7	495.5	590.6	1101.9	2663.6	7463.7	16877.6	18839.6	19240.0
45°	424.1	447.9	475.6	574.7	1034.5	2556.6	7360.7	16826.1	19160.7	19374.7
47.5°	392.4	432.0	463.8	535.1	1014.7	2505.1	7404.3	16631.8	18899.1	18752.4
50°	360.7	412.2	467.7	443.9	967.2	2402.0	7455.8	16897.4	18276.8	18249.0
52.5°	333.0	392.4	436.0	364.7	860.1	2302.9	7955.2	17246.2	18716.8	18348.1
55°	293.3	352.8	348.8	293.3	697.6	2227.6	8347.6	17254.1	18419.5	18558.2
57.5°	265.6	313.1	273.5	245.8	515.3	1863.0	7709.5	14467.6	15767.7	16013.5
60°	245.8	305.2	206.1	194.2	336.9	1343.7	6730.4	11205.5	12533.3	12997.1
62.5°	225.9	289.4	162.5	158.5	233.9	955.3	5533.4	9378.2	10801.2	11431.4
65°	198.2	206.1	130.8	122.9	166.5	515.3	3369.2	6456.9	8074.1	8308.0
67.5°	162.5	158.5	107.0	99.1	111.0	249.7	1486.4	3234.4	4681.2	5073.6
70°	130.8	130.8	91.2	79.3	79.3	114.9	388.4	1288.2	2116.6	2342.6
72.5°	95.1	99.1	71.3	63.4	59.5	55.5	63.4	257.6	554.9	709.5
75°	83.2	87.2	71.3	55.5	43.6	35.7	27.7	23.8	31.7	51.5
77.5°	91.2	91.2	75.3	51.5	39.6	27.7	15.9	7.9	7.9	4.0
80°	114.9	118.9	99.1	67.4	47.6	31.7	19.8	7.9	4.0	4.0
82.5°	122.9	134.8	111.0	83.2	59.5	35.7	19.8	4.0	0.0	0.0
85°	31.7	51.5	87.2	75.3	59.5	35.7	19.8	4.0	0.0	0.0
87.5°	0.0	4.0	11.9	11.9	15.9	15.9	11.9	4.0	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)