

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: P528807

Luminaire Tested: **GALN-SA3D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528807
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-SA3D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10145 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

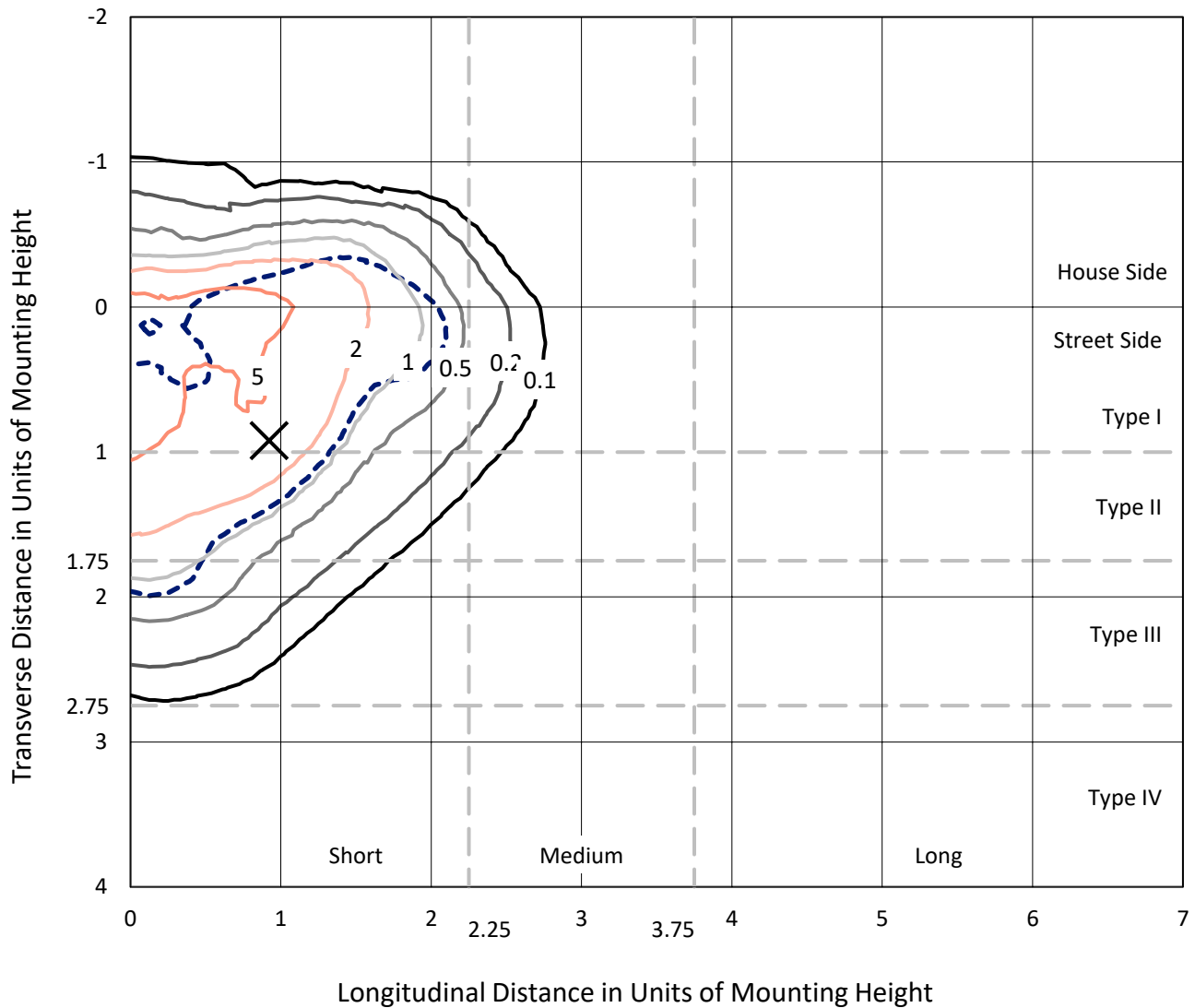
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528807
 CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

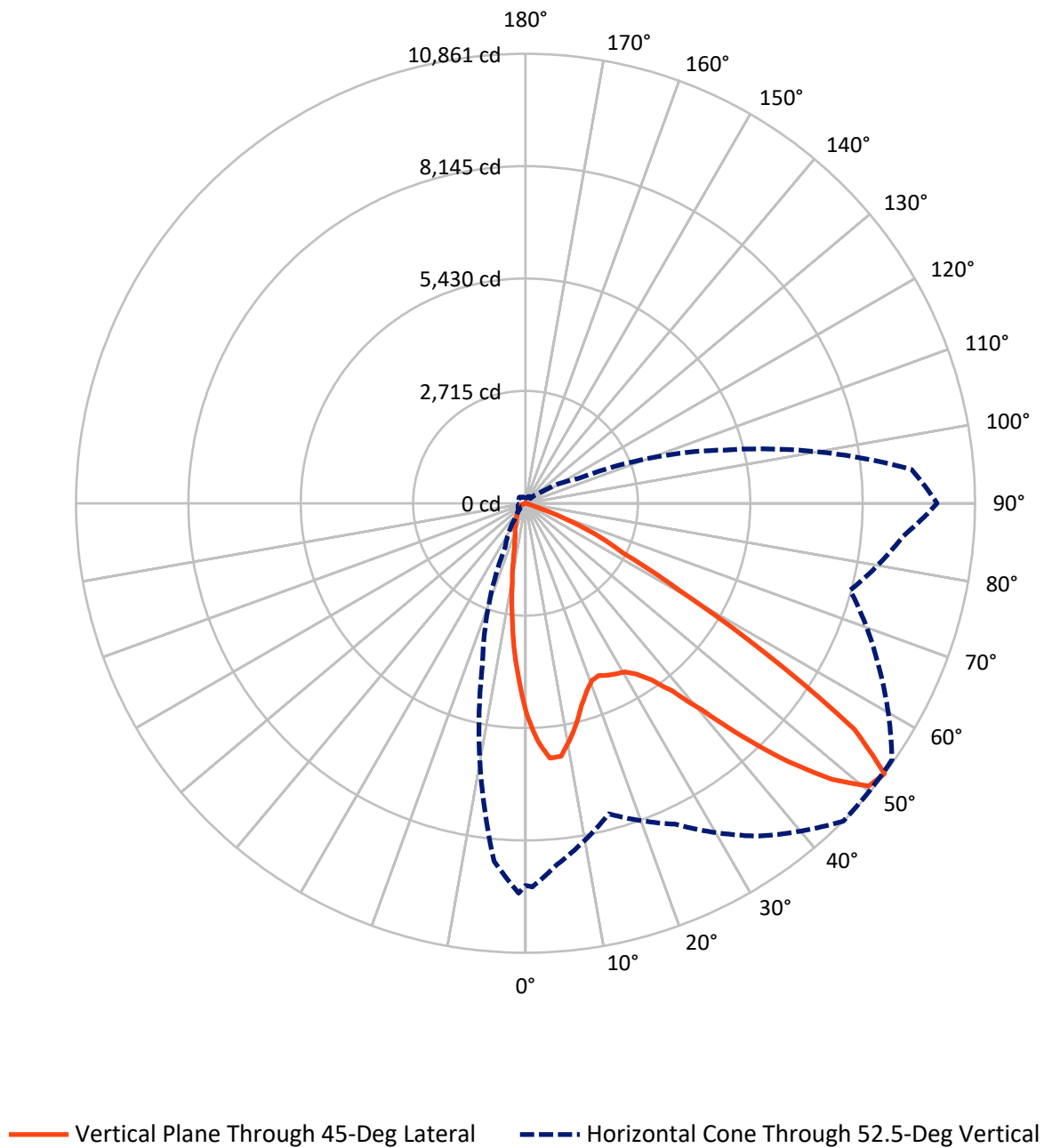


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.9	0.0	2058.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8086.1	0.0	8086.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	10145.0	0.0	10145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.1	3.7
10°-20°	740.1	7.3
20°-30°	1126.4	11.1
30°-40°	1683.5	16.6
40°-50°	2397.5	23.6
50°-60°	2577.2	25.4
60°-70°	1142.0	11.3
70°-80°	92.4	0.9
80°-90°	10.8	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°	10145.0	100.0
0°-180°	10145.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528807

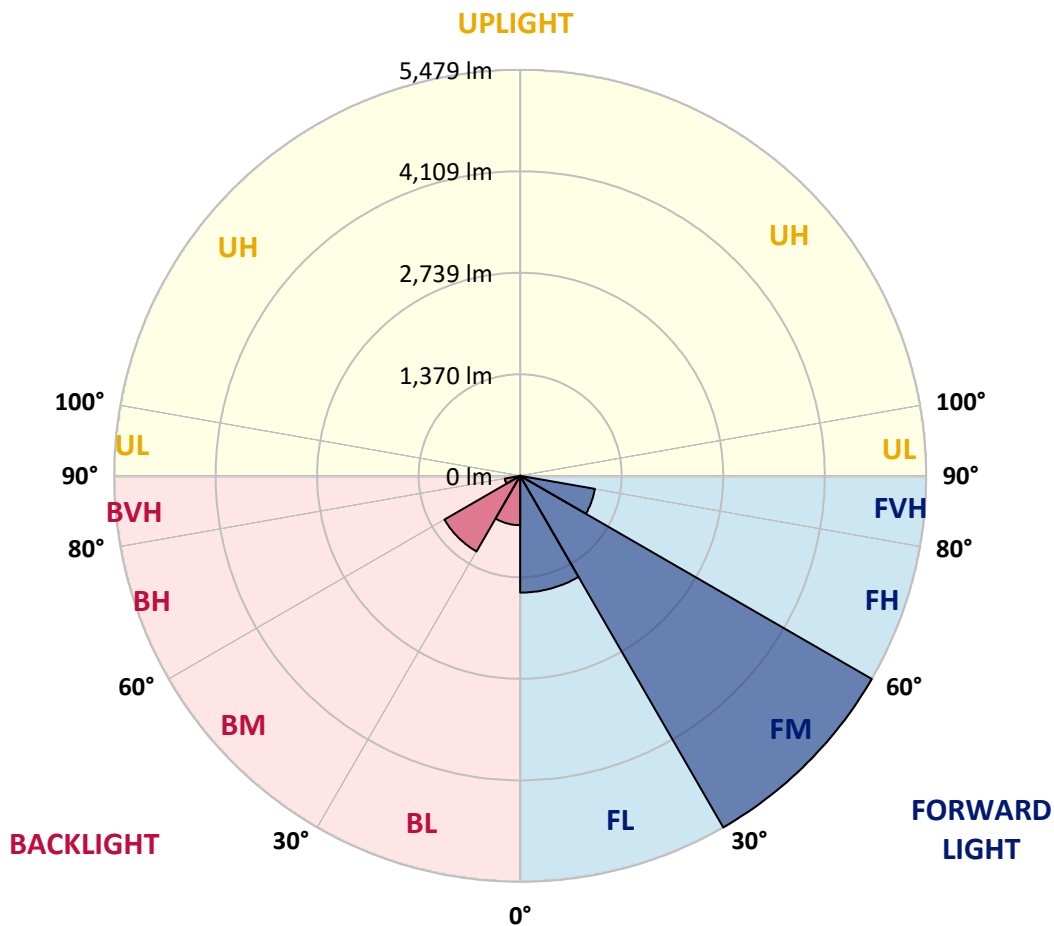
CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.7	15.5			
FM	(30°-60°)	5478.6	54.0			
FH	(60°-80°)	1023.7	10.1			G1/1800
FVH	(80°-90°)	8.0	0.1			G0/10
BL	(0°-30°)	665.9	6.6	B2/1000		
BM	(30°-60°)	1179.5	11.6	B2/2500		
BH	(60°-80°)	210.7	2.1	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
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



REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0
2.5°	5443.3	5459.3	5547.0	5656.8	5714.7	5846.3	5754.6	5778.5	5728.6	5553.0	5415.4
5°	5277.7	5275.7	5387.4	5658.8	5916.2	6177.6	6185.6	6045.9	5800.5	5531.1	5146.0
7.5°	4778.8	4856.7	4972.4	5405.4	5882.3	6077.8	6171.6	6008.0	5630.8	5245.7	4828.7
10°	4401.7	4441.6	4637.2	5159.9	5509.1	5770.5	5828.4	5734.6	5445.3	4964.4	4497.5
12.5°	4184.2	4204.2	4433.6	4872.6	5241.8	5435.3	5463.2	5507.1	5299.6	4848.7	4288.0
15°	4186.2	4202.2	4511.5	4878.6	5024.3	4972.4	5064.2	5062.2	5152.0	4826.7	4463.6
17.5°	4487.5	4505.5	4784.8	4966.4	4902.6	4780.8	4774.8	4866.6	5056.2	5100.1	4729.0
20°	5006.3	5048.2	5253.7	5243.8	4884.6	4639.2	4571.3	4641.2	5082.1	5331.5	5263.7
22.5°	5704.7	5762.5	5906.2	5630.8	4966.4	4543.4	4521.4	4657.1	5253.7	5848.3	5870.3
25°	6514.8	6612.6	6682.4	6329.2	5257.7	4709.0	4605.2	4838.7	5485.2	6409.0	6642.5
27.5°	7051.5	7153.3	7137.3	6632.5	5453.3	4752.9	4665.1	4882.6	5686.7	6542.7	7045.5
30°	7470.6	7532.4	7644.1	6796.1	5648.8	4876.6	4727.0	5068.2	5752.6	6774.2	7532.4
32.5°	7959.4	8001.3	8009.3	7085.5	5950.1	5032.2	4918.5	5299.6	6043.9	6995.7	7963.4
35°	8452.3	8514.1	8384.4	7442.6	6135.7	5321.6	5237.8	5700.7	6277.3	7225.1	8438.3
37.5°	8987.0	9018.9	8719.6	7590.3	6401.1	5792.5	5746.6	6133.7	6682.4	7640.2	8965.1
40°	9436.0	9465.9	9076.8	7771.8	6680.4	6450.9	6568.7	6959.7	7233.1	7909.5	9228.4
42.5°	9685.4	9755.2	9196.5	7672.1	7241.1	7197.2	7720.0	7857.6	7871.6	7985.4	9463.9
45°	9753.2	9721.3	8999.0	7753.9	7731.9	8424.3	8899.2	9080.8	8506.1	8125.0	9523.8
47.5°	9440.0	9481.9	8707.7	7682.1	8376.4	9354.2	9968.7	10305.9	8979.0	8003.3	9376.1
50°	9186.5	9132.7	8613.9	7630.2	8550.0	9793.1	10740.9	10816.7	9414.0	8153.0	9214.5
52.5°	9236.4	9270.3	8763.5	7767.9	8554.0	9819.1	10860.6	10808.8	9428.0	8119.0	9156.6
55°	9342.2	9192.5	8699.7	7464.6	7981.4	9094.8	9639.5	9559.7	8701.7	7757.9	9014.9
57.5°	8061.2	8292.6	7999.3	6664.4	6550.7	6852.0	6842.0	7087.4	6490.8	6676.4	8206.8
60°	6542.7	6582.6	6692.4	5700.7	4533.4	4429.7	4286.0	4130.4	4367.8	5708.7	7464.6
62.5°	5754.6	5706.7	6097.8	5185.9	3200.5	2679.7	2655.8	2751.6	3370.1	5445.3	7001.6
65°	4182.2	4242.1	4525.4	4024.6	2402.4	2045.2	2009.3	2292.6	2727.6	4363.8	5343.5
67.5°	2554.0	2669.8	2695.7	2482.2	1630.2	1295.0	1243.1	1500.5	1969.4	2823.4	3132.7
70°	1179.2	1318.9	1450.6	1354.8	943.8	532.8	502.8	630.5	993.7	1624.2	1662.1
72.5°	357.2	359.2	502.8	524.8	305.3	119.7	105.8	139.7	337.2	536.7	564.7
75°	25.9	27.9	67.8	77.8	57.9	29.9	31.9	37.9	71.8	119.7	89.8
77.5°	2.0	2.0	2.0	10.0	18.0	20.0	25.9	29.9	37.9	43.9	39.9
80°	2.0	0.0	2.0	8.0	14.0	20.0	23.9	27.9	29.9	33.9	29.9
82.5°	0.0	0.0	0.0	6.0	14.0	20.0	21.9	29.9	33.9	39.9	33.9
85°	0.0	0.0	0.0	6.0	14.0	21.9	20.0	10.0	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

REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0
2.5°	5439.3	5361.5	5183.9	5094.1	4882.6	4852.7	4645.2	4611.2	4541.4	4503.5	4411.7
5°	4976.4	4882.6	4593.3	4349.8	4066.5	3869.0	3717.3	3579.6	3499.8	3426.0	3459.9
7.5°	4599.3	4325.9	4004.6	3597.6	3270.4	3058.9	2827.4	2637.8	2526.1	2450.3	2468.2
10°	4204.2	4026.6	3579.6	3122.7	2727.6	2578.0	2396.4	2250.7	2093.1	1957.4	1893.6
12.5°	4080.5	3817.1	3256.4	2791.5	2492.2	2346.5	2139.0	1971.4	1769.9	1604.3	1546.4
15°	4102.4	3849.0	3168.6	2671.8	2318.6	2067.2	1819.8	1612.2	1390.8	1275.0	1215.2
17.5°	4459.6	4020.6	3226.5	2546.1	2077.1	1728.0	1422.7	1159.3	993.7	874.0	848.0
20°	4898.6	4391.7	3350.2	2454.3	1879.6	1374.8	1039.6	812.1	674.4	654.5	648.5
22.5°	5541.1	4998.3	3615.6	2392.4	1638.2	1071.5	712.3	590.6	552.7	548.7	550.7
25°	6439.0	5758.6	3904.9	2340.5	1456.6	826.1	582.6	500.8	488.9	482.9	492.8
27.5°	6828.1	6217.5	4058.5	2228.8	1291.0	744.3	574.7	496.8	462.9	452.9	458.9
30°	7308.9	6522.8	4300.0	2037.2	1047.6	612.6	536.7	540.7	524.8	474.9	458.9
32.5°	7947.4	6903.9	4421.7	1901.6	935.8	506.8	393.1	361.2	403.1	411.0	425.0
35°	8356.5	7291.0	4483.5	1821.7	877.9	433.0	333.2	303.3	293.3	295.3	303.3
37.5°	9116.7	7813.8	4561.3	1737.9	834.1	377.1	301.3	273.4	259.4	259.4	267.4
40°	9571.6	8228.8	4667.1	1692.0	790.2	343.2	273.4	249.4	237.4	237.4	241.4
42.5°	9685.4	8434.3	4631.2	1676.1	740.3	335.2	249.4	231.5	217.5	215.5	213.5
45°	9888.9	8747.6	4637.2	1658.1	688.4	305.3	235.5	215.5	195.5	193.5	191.6
47.5°	10112.4	8973.0	4649.1	1588.3	638.5	255.4	245.4	199.5	175.6	171.6	171.6
50°	9920.8	9152.6	4752.9	1518.5	574.7	207.5	241.4	187.6	155.6	149.7	151.6
52.5°	9944.8	9364.1	4972.4	1420.7	494.8	165.6	195.5	177.6	141.7	131.7	133.7
55°	9561.7	9140.7	5002.3	1316.9	387.1	127.7	149.7	155.6	119.7	115.7	115.7
57.5°	8230.8	7739.9	4413.7	1067.5	255.4	105.8	107.7	135.7	103.8	99.8	101.8
60°	7043.6	6213.5	3551.7	704.4	159.6	83.8	77.8	137.7	91.8	89.8	95.8
62.5°	6421.0	5106.1	2693.7	437.0	109.7	63.9	53.9	111.7	79.8	79.8	87.8
65°	4639.2	3430.0	1566.3	229.5	77.8	49.9	39.9	63.9	65.8	67.8	71.8
67.5°	2873.3	1732.0	660.5	111.7	51.9	33.9	25.9	39.9	43.9	43.9	47.9
70°	1418.7	690.4	219.5	63.9	39.9	27.9	18.0	21.9	21.9	20.0	21.9
72.5°	439.0	207.5	55.9	39.9	27.9	18.0	10.0	8.0	4.0	0.0	2.0
75°	49.9	39.9	35.9	27.9	18.0	8.0	2.0	0.0	0.0	0.0	0.0
77.5°	29.9	33.9	33.9	27.9	18.0	6.0	0.0	0.0	0.0	0.0	0.0
80°	23.9	25.9	27.9	25.9	16.0	8.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.9	33.9	37.9	33.9	21.9	10.0	4.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.0	2.0	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

REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0
2.5°	4373.8	4329.9	4391.7	4300.0	4298.0	4300.0	4274.0	4250.1	4288.0	4389.7	4399.7
5°	3338.2	3432.0	3461.9	3559.7	3505.8	3426.0	3442.0	3388.1	3519.8	3577.6	3531.8
7.5°	2430.3	2424.3	2625.9	2637.8	2663.8	2665.8	2661.8	2556.0	2448.3	2472.2	2544.1
10°	1885.6	1783.8	1881.6	1871.6	1935.5	1917.5	1943.5	1829.7	1867.6	1867.6	1913.5
12.5°	1536.4	1428.7	1410.7	1384.8	1410.7	1420.7	1430.7	1408.7	1472.6	1502.5	1534.4
15°	1173.3	1113.4	1097.4	1047.6	1055.5	1083.5	1107.4	1117.4	1097.4	1143.3	1147.3
17.5°	852.0	850.0	860.0	858.0	850.0	844.0	842.0	816.1	808.1	812.1	828.1
20°	646.5	662.5	696.4	730.3	748.3	726.3	696.4	652.5	634.5	638.5	640.5
22.5°	552.7	576.7	622.5	660.5	678.4	638.5	584.6	546.7	538.7	536.7	534.8
25°	500.8	528.8	562.7	574.7	572.7	548.7	508.8	492.8	488.9	484.9	466.9
27.5°	472.9	482.9	488.9	502.8	508.8	492.8	482.9	458.9	454.9	454.9	443.0
30°	456.9	450.9	458.9	449.0	456.9	445.0	447.0	447.0	437.0	441.0	441.0
32.5°	425.0	427.0	427.0	407.0	413.0	399.1	413.0	425.0	427.0	429.0	445.0
35°	311.3	347.2	365.1	365.1	371.1	361.2	359.2	345.2	327.2	309.3	301.3
37.5°	273.4	287.3	311.3	325.2	335.2	327.2	309.3	287.3	277.4	269.4	261.4
40°	243.4	255.4	271.4	287.3	307.3	297.3	269.4	259.4	247.4	247.4	239.4
42.5°	219.5	225.5	235.5	259.4	281.3	261.4	241.4	233.5	227.5	225.5	223.5
45°	197.5	199.5	209.5	229.5	255.4	235.5	215.5	205.5	207.5	209.5	207.5
47.5°	177.6	181.6	187.6	211.5	227.5	217.5	195.5	189.6	189.6	189.6	191.6
50°	153.6	163.6	175.6	195.5	207.5	201.5	183.6	175.6	171.6	171.6	173.6
52.5°	137.7	145.7	161.6	185.6	201.5	191.6	173.6	161.6	153.6	151.6	155.6
55°	119.7	133.7	159.6	177.6	199.5	189.6	169.6	155.6	141.7	139.7	139.7
57.5°	107.7	129.7	153.6	175.6	193.5	185.6	169.6	151.6	133.7	131.7	131.7
60°	101.8	125.7	149.7	169.6	193.5	181.6	167.6	147.7	127.7	127.7	125.7
62.5°	95.8	117.7	141.7	161.6	185.6	175.6	161.6	141.7	121.7	121.7	117.7
65°	79.8	101.8	117.7	135.7	161.6	151.6	137.7	123.7	107.7	103.8	105.8
67.5°	55.9	69.8	85.8	103.8	119.7	115.7	109.7	99.8	85.8	83.8	81.8
70°	27.9	37.9	51.9	69.8	83.8	79.8	75.8	67.8	59.9	57.9	57.9
72.5°	4.0	12.0	21.9	31.9	43.9	45.9	43.9	41.9	39.9	37.9	39.9
75°	0.0	0.0	0.0	8.0	18.0	21.9	25.9	29.9	29.9	25.9	31.9
77.5°	0.0	0.0	0.0	0.0	2.0	10.0	20.0	25.9	31.9	27.9	37.9
80°	0.0	0.0	0.0	0.0	2.0	12.0	20.0	27.9	31.9	27.9	39.9
82.5°	0.0	0.0	0.0	0.0	2.0	14.0	20.0	25.9	29.9	27.9	35.9
85°	0.0	0.0	0.0	0.0	6.0	12.0	8.0	4.0	2.0	2.0	6.0
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

REPORT NUMBER: P528807

CATALOG NUMBER: GALN-SA3D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0	5144.0
2.5°	4455.6	4597.3	4748.9	4806.8	4986.4	5122.0	5213.8	5411.4	5441.3	5443.3
5°	3579.6	3651.5	3910.9	4032.6	4300.0	4507.5	4729.0	5048.2	5261.7	5277.7
7.5°	2544.1	2743.6	2853.3	3170.6	3499.8	3825.1	4154.3	4525.4	4772.9	4778.8
10°	2047.2	2176.9	2372.5	2609.9	2887.3	3218.5	3657.5	4088.5	4339.9	4401.7
12.5°	1648.2	1875.6	2099.1	2344.5	2556.0	2805.4	3278.3	3853.0	4060.5	4184.2
15°	1269.0	1476.6	1739.9	2027.3	2266.7	2599.9	3138.7	3795.1	4144.3	4186.2
17.5°	935.8	1121.4	1364.8	1636.2	1995.3	2468.2	3162.6	4088.5	4417.7	4487.5
20°	672.4	780.2	971.7	1287.0	1743.9	2314.6	3186.6	4385.8	4886.6	5006.3
22.5°	532.8	576.7	702.4	981.7	1462.6	2153.0	3356.2	4954.4	5531.1	5704.7
25°	462.9	486.9	546.7	774.2	1285.0	2137.0	3627.5	5636.8	6389.1	6514.8
27.5°	447.0	450.9	502.8	710.3	1189.2	2031.3	3731.3	6121.7	6923.8	7051.5
30°	470.9	534.8	538.7	600.6	1011.6	1821.7	3785.2	6590.6	7376.8	7470.6
32.5°	407.0	387.1	401.1	464.9	889.9	1700.0	3886.9	6999.7	7893.6	7959.4
35°	283.3	297.3	329.2	403.1	778.2	1572.3	3912.9	7450.6	8384.4	8452.3
37.5°	261.4	269.4	295.3	343.2	684.4	1500.5	3876.9	7779.8	8893.2	8987.0
40°	243.4	253.4	267.4	311.3	614.6	1420.7	3827.1	8077.1	9204.5	9436.0
42.5°	229.5	237.4	249.4	297.3	554.7	1340.9	3757.2	8496.2	9483.9	9685.4
45°	213.5	225.5	239.4	289.3	520.8	1287.0	3705.3	8470.2	9645.5	9753.2
47.5°	197.5	217.5	233.5	269.4	510.8	1261.1	3727.3	8372.4	9513.8	9440.0
50°	181.6	207.5	235.5	223.5	486.9	1209.2	3753.2	8506.1	9200.5	9186.5
52.5°	167.6	197.5	219.5	183.6	433.0	1159.3	4004.6	8681.7	9422.0	9236.4
55°	147.7	177.6	175.6	147.7	351.2	1121.4	4202.2	8685.7	9272.3	9342.2
57.5°	133.7	157.6	137.7	123.7	259.4	937.8	3880.9	7283.0	7937.5	8061.2
60°	123.7	153.6	103.8	97.8	169.6	676.4	3388.1	5640.8	6309.3	6542.7
62.5°	113.7	145.7	81.8	79.8	117.7	480.9	2785.5	4721.0	5437.3	5754.6
65°	99.8	103.8	65.8	61.9	83.8	259.4	1696.0	3250.4	4064.5	4182.2
67.5°	81.8	79.8	53.9	49.9	55.9	125.7	748.3	1628.2	2356.5	2554.0
70°	65.8	65.8	45.9	39.9	39.9	57.9	195.5	648.5	1065.5	1179.2
72.5°	47.9	49.9	35.9	31.9	29.9	27.9	31.9	129.7	279.3	357.2
75°	41.9	43.9	35.9	27.9	21.9	18.0	14.0	12.0	16.0	25.9
77.5°	45.9	45.9	37.9	25.9	20.0	14.0	8.0	4.0	4.0	2.0
80°	57.9	59.9	49.9	33.9	23.9	16.0	10.0	4.0	2.0	2.0
82.5°	61.9	67.8	55.9	41.9	29.9	18.0	10.0	2.0	0.0	0.0
85°	16.0	25.9	43.9	37.9	29.9	18.0	10.0	2.0	0.0	0.0
87.5°	0.0	2.0	6.0	6.0	8.0	8.0	6.0	2.0	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)