

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: P454320

Luminaire Tested: **GALN-SA5B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16262 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

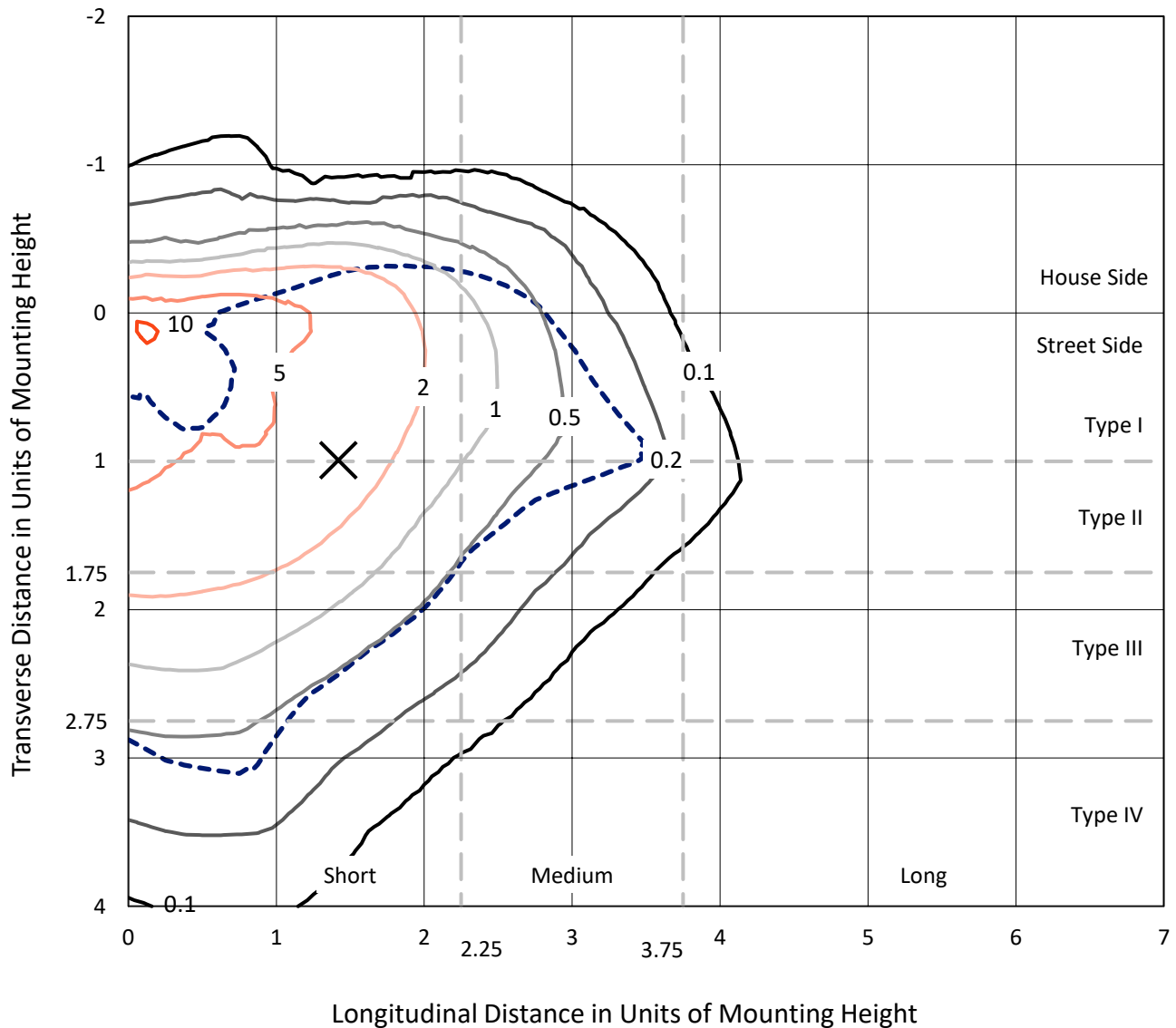


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

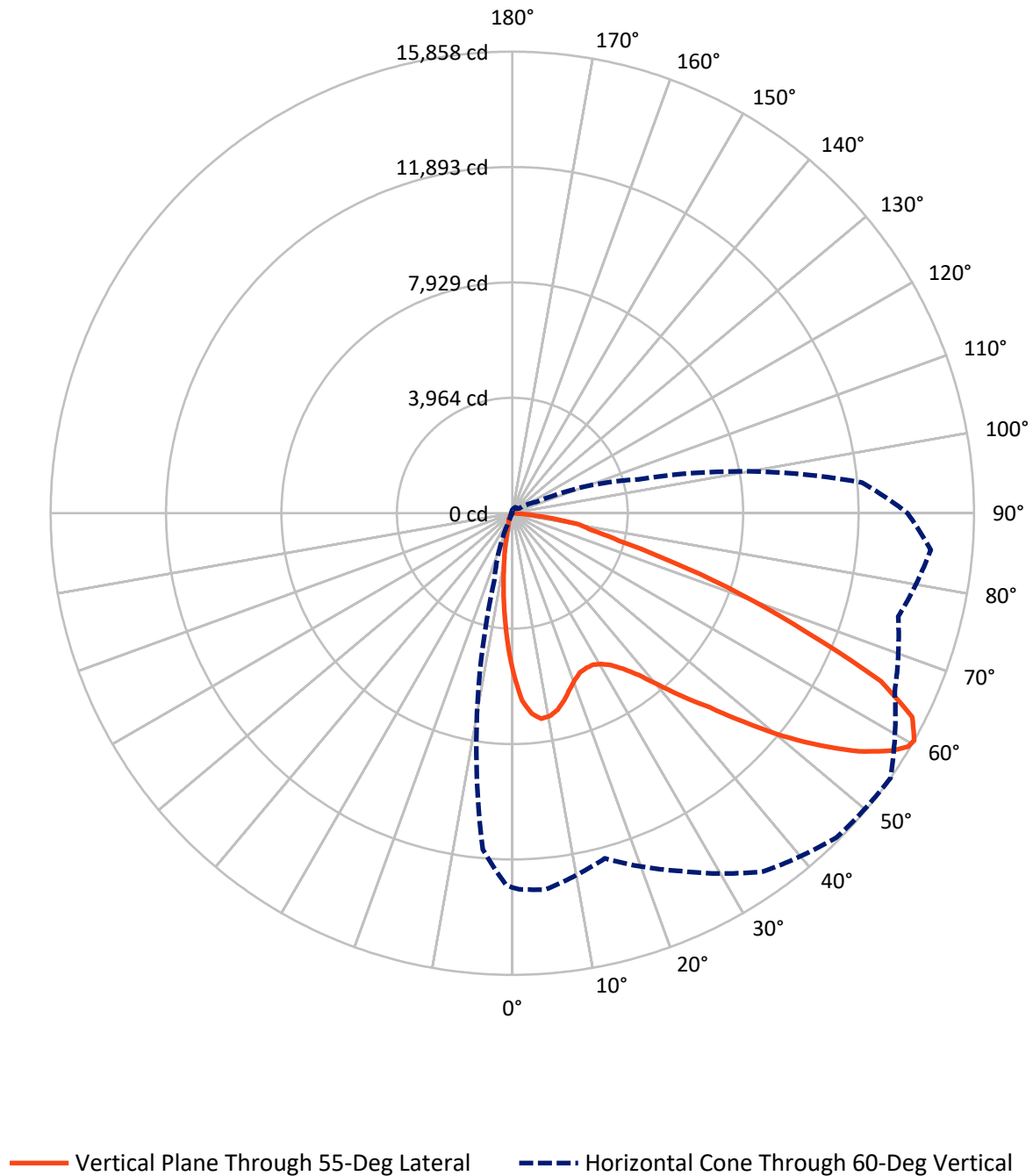


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.4	0.0	2413.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13848.6	0.0	13848.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	16262.0	0.0	16262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	2.5
10°-20°	802.9	4.9
20°-30°	1188.5	7.3
30°-40°	1771.6	10.9
40°-50°	2594.5	16.0
50°-60°	3745.7	23.0
60°-70°	3940.3	24.2
70°-80°	1620.9	10.0
80°-90°	189.8	1.2
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°	16262.0	100.0
0°-180°	16262.0	100.0

Coefficient of Utilization



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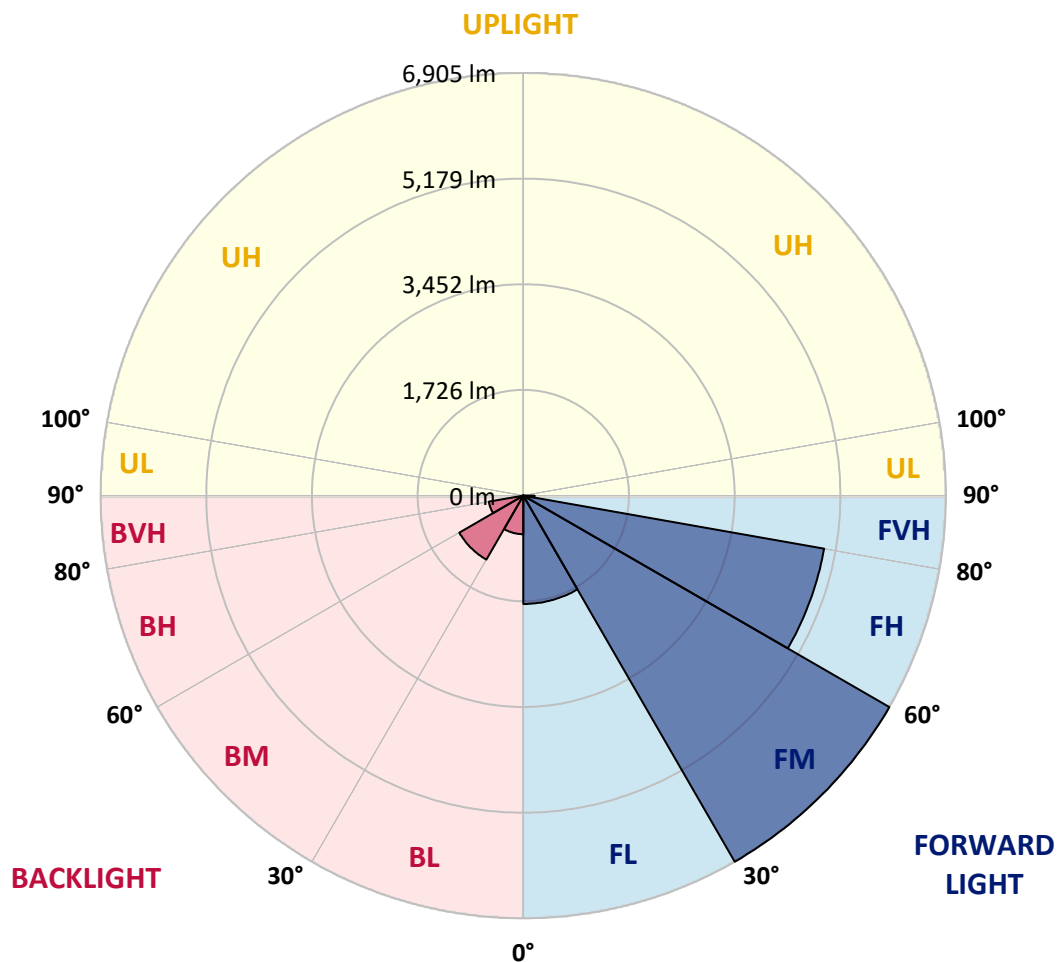
CATALOG NUMBER: GALN-SA5B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1769.5	10.9			
FM	(30°-60°)	6904.9	42.5			
FH	(60°-80°)	4989.9	30.7			G2/5000
FVH	(80°-90°)	184.3	1.1			G2/225
BL	(0°-30°)	629.7	3.9	B2/1000		
BM	(30°-60°)	1206.9	7.4	B2/2500		
BH	(60°-80°)	571.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3
2.5°	6015.7	6005.7	6094.6	6239.8	6386.2	6462.6	6447.6	6441.3	6319.9	6231.0	6044.5
5°	6003.2	6054.5	6213.5	6606.5	6904.4	7048.4	7090.9	6911.9	6675.4	6332.4	5909.3
7.5°	5644.0	5707.8	5966.9	6581.5	7111.0	7423.9	7412.6	7126.0	6637.8	6107.1	5503.8
10°	5198.3	5273.5	5577.6	6323.6	7010.8	7423.9	7446.4	7083.4	6476.3	5795.4	5160.8
12.5°	4884.2	4973.0	5309.7	6083.3	6753.0	7159.8	7186.1	6923.2	6354.9	5675.2	4974.3
15°	4777.8	4861.6	5203.4	5961.9	6478.8	6697.9	6691.6	6664.1	6307.4	5704.0	4984.3
17.5°	4960.5	5029.4	5414.9	6017.0	6222.2	6199.7	6232.3	6364.9	6317.4	5945.6	5299.7
20°	5432.4	5502.5	5916.8	6185.9	6025.7	5883.0	5898.1	6119.6	6410.0	6400.0	5792.9
22.5°	6082.1	6201.0	6576.5	6513.9	5999.4	5686.5	5655.2	5943.1	6567.7	6923.2	6458.8
25°	6904.4	7024.6	7317.5	7037.1	6128.4	5640.2	5611.4	5889.3	6759.2	7433.9	7208.6
27.5°	7595.4	7686.7	7978.4	7546.6	6318.6	5660.2	5612.7	5896.8	6914.4	7868.2	7840.7
30°	8148.6	8216.2	8387.7	7784.4	6482.6	5747.8	5692.8	6007.0	6983.3	8079.8	8352.7
32.5°	8594.2	8708.1	8762.0	8038.5	6717.9	5913.1	5819.2	6218.5	7151.0	8341.4	8889.6
35°	9103.7	9235.1	9166.3	8281.3	7028.3	6170.9	6055.8	6561.5	7405.1	8583.0	9513.0
37.5°	9749.6	9901.0	9631.9	8536.7	7356.3	6559.0	6505.1	7043.4	7790.6	8928.4	10181.4
40°	10418.0	10505.6	10083.8	8847.1	7759.3	7123.5	7174.8	7759.3	8295.1	9342.8	10892.4
42.5°	10939.9	11022.6	10548.2	9107.4	8171.2	7793.1	8007.2	8623.0	8873.4	9767.1	11423.1
45°	11339.2	11409.3	10869.8	9391.6	8726.9	8763.2	9167.5	9513.0	9452.9	10026.2	11832.4
47.5°	11649.7	11709.7	11117.7	9697.0	9559.3	9949.8	10568.2	10714.6	10053.7	10306.6	12202.9
50°	11777.3	11794.9	11195.3	10086.3	10504.3	11461.9	12106.5	12017.7	10742.2	10618.2	12597.2
52.5°	11943.8	11940.1	11416.8	10456.8	11393.1	12813.7	13457.1	13255.6	11520.7	11085.1	13040.3
55°	12380.7	12385.7	11891.2	10982.5	12150.3	13905.2	14593.7	14447.2	12341.9	11873.7	13557.3
57.5°	12911.4	12930.2	12565.9	11597.1	12873.8	14696.3	15442.3	15386.0	13452.1	12751.2	14045.4
59°	12980.2	13017.8	12885.1	12030.2	13303.2	14939.1	15732.7	15787.8	14046.7	13329.4	14309.5
60°	12855.1	12917.6	12977.7	12275.5	13554.8	15026.8	15750.3	15857.9	14493.5	13722.5	14429.7
62.5°	12309.3	12408.2	12709.9	13030.3	13868.9	14753.9	15190.7	15416.0	15046.8	14755.1	14441.0
65°	11594.6	11645.9	12081.5	13164.2	13259.4	13479.7	13614.8	13904.0	14382.1	15153.2	13924.0
67.5°	10423.0	10574.4	11107.7	12386.9	11460.6	11200.3	11166.5	10878.6	12120.3	14204.4	12649.8
70°	8610.5	8678.1	9335.2	10155.1	8649.3	8248.8	8409.0	8301.3	9395.3	12227.9	10181.4
72.5°	6511.4	6664.1	7306.2	8094.8	5885.5	5366.1	5807.9	5767.9	7057.1	9827.2	6994.6
75°	4632.6	4731.5	5550.1	6334.9	4121.9	3492.3	3651.2	3800.2	4926.7	7759.3	4133.1
77.5°	3183.1	3268.2	3882.8	4189.5	3006.6	2880.2	2634.8	2778.8	3228.2	4603.8	2249.3
80°	1920.1	1916.4	2320.7	2395.8	2094.1	2432.1	2040.3	2290.6	1951.4	1970.2	871.2
82.5°	1246.7	1234.2	1419.4	1547.1	1165.3	1225.4	822.4	1185.4	1271.7	549.5	275.4
85°	558.3	582.0	682.2	900.0	510.7	271.6	167.7	364.2	542.0	276.6	0.0
87.5°	57.6	45.1	120.2	219.0	70.1	7.5	25.0	12.5	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°	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3
2.5°	5958.1	5885.5	5669.0	5466.2	5292.2	5079.4	4941.7	4725.2	4593.8	4553.7	4560.0
5°	5719.1	5510.0	5098.2	4769.0	4402.3	4193.2	3875.3	3569.9	3404.6	3343.3	3315.8
7.5°	5218.4	4994.3	4497.4	3980.4	3587.4	3220.6	2984.1	2715.0	2531.0	2379.5	2353.2
10°	4846.6	4552.5	3936.6	3380.9	3070.4	2795.1	2558.5	2289.4	2072.8	1900.1	1852.5
12.5°	4623.8	4294.6	3607.4	3141.8	2847.6	2564.8	2256.8	1945.2	1723.6	1537.1	1450.7
15°	4583.8	4202.0	3514.8	2970.3	2607.3	2265.6	1856.3	1519.6	1291.8	1115.3	1061.4
17.5°	4825.3	4368.5	3501.0	2791.3	2293.1	1808.7	1383.1	1104.0	847.4	748.5	709.7
20°	5255.9	4662.6	3499.8	2583.5	1970.2	1393.2	971.3	719.7	615.8	568.3	545.7
22.5°	5843.0	5063.2	3566.1	2404.5	1634.7	1027.7	693.4	573.3	513.2	474.4	465.6
25°	6560.2	5656.5	3728.8	2283.1	1378.1	806.1	572.0	490.7	440.6	423.1	415.6
27.5°	7197.3	6224.7	3907.8	2157.9	1194.1	713.5	530.7	449.4	409.3	395.5	384.3
30°	7746.8	6740.5	3994.2	1992.7	1046.4	653.4	538.2	480.7	428.1	386.8	368.0
32.5°	8205.0	7136.0	4050.5	1842.5	921.3	534.5	425.6	371.8	348.0	333.0	320.4
35°	8778.2	7564.1	4016.7	1757.4	857.4	486.9	388.0	320.4	280.4	250.3	237.8
37.5°	9379.1	7992.2	3957.9	1687.3	828.6	451.9	369.3	304.2	260.4	229.1	212.8
40°	10001.2	8389.0	3889.1	1622.2	802.3	429.3	358.0	290.4	246.6	212.8	195.3
42.5°	10570.7	8775.7	3861.5	1579.7	759.8	433.1	349.2	284.1	232.8	197.8	182.7
45°	11031.3	9142.5	3899.1	1557.1	713.5	426.8	351.7	276.6	221.6	187.8	172.7
47.5°	11523.2	9660.7	4020.5	1534.6	668.4	396.8	370.5	275.4	216.5	181.5	165.2
50°	12095.3	10324.1	4298.4	1479.5	613.3	364.2	394.3	274.1	210.3	174.0	157.7
52.5°	12857.6	11077.6	4585.0	1383.1	533.2	333.0	376.8	270.4	197.8	165.2	149.0
55°	13542.2	11871.2	4827.8	1269.2	431.8	287.9	339.2	254.1	176.5	150.2	135.2
57.5°	13825.1	12319.3	4820.3	1111.5	345.5	252.8	279.1	232.8	154.0	132.7	120.2
59°	13721.2	12263.0	4658.9	995.1	315.4	234.1	231.6	230.3	143.9	120.2	110.2
60°	13574.8	12057.7	4484.9	937.5	296.7	221.6	212.8	227.8	135.2	112.7	102.6
62.5°	13014.0	11206.6	3907.8	839.9	271.6	187.8	170.2	192.8	120.2	97.6	88.9
65°	12201.7	9898.5	3308.3	812.4	264.1	155.2	141.4	137.7	102.6	82.6	75.1
67.5°	10617.0	8376.4	2679.9	793.6	266.6	130.2	123.9	103.9	85.1	68.8	63.8
70°	8500.4	6531.4	2194.2	772.3	269.1	106.4	103.9	82.6	68.8	57.6	52.6
72.5°	5164.6	3871.5	1727.4	670.9	261.6	85.1	92.6	62.6	50.1	41.3	38.8
75°	3193.1	2649.9	1071.5	522.0	172.7	62.6	65.1	38.8	33.8	26.3	26.3
77.5°	1850.0	1673.5	383.0	187.8	76.4	37.6	28.8	20.0	18.8	11.3	11.3
80°	767.3	614.6	132.7	63.8	41.3	17.5	6.3	1.3	0.0	0.0	0.0
82.5°	224.1	199.0	36.3	28.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3
2.5°	4453.6	4412.3	4393.5	4457.3	4398.5	4473.6	4416.0	4441.1	4514.9	4547.5	4631.3
5°	3333.3	3290.7	3270.7	3367.1	3362.1	3409.7	3404.6	3448.5	3486.0	3402.1	3488.5
7.5°	2321.9	2293.1	2340.7	2415.8	2495.9	2469.6	2469.6	2410.8	2430.8	2418.3	2414.5
10°	1766.2	1667.3	1642.2	1639.7	1669.8	1676.0	1642.2	1560.9	1590.9	1599.7	1652.3
12.5°	1389.4	1313.0	1196.6	1144.1	1130.3	1141.6	1030.2	958.8	992.6	972.6	1023.9
15°	996.4	933.8	864.9	806.1	789.8	767.3	645.9	560.8	550.8	554.5	563.3
17.5°	711.0	668.4	668.4	605.8	572.0	504.4	443.1	405.6	401.8	405.6	411.8
20°	524.5	501.9	499.4	483.2	445.6	400.5	358.0	350.5	348.0	354.2	356.7
22.5°	451.9	428.1	408.1	406.8	371.8	334.2	314.2	304.2	305.4	307.9	314.2
25°	404.3	379.3	358.0	345.5	320.4	294.2	275.4	270.4	270.4	274.1	275.4
27.5°	370.5	339.2	320.4	302.9	280.4	257.9	241.6	237.8	235.3	237.8	244.1
30°	346.7	315.4	291.6	265.4	247.8	226.6	212.8	207.8	206.5	207.8	212.8
32.5°	296.7	277.9	259.1	235.3	214.0	200.3	185.3	176.5	176.5	179.0	184.0
35°	224.1	214.0	212.8	206.5	189.0	174.0	156.5	147.7	147.7	152.7	155.2
37.5°	197.8	179.0	176.5	174.0	166.5	146.4	130.2	122.7	121.4	125.2	130.2
40°	180.2	159.0	147.7	145.2	146.4	123.9	106.4	98.9	98.9	100.1	105.1
42.5°	166.5	141.4	121.4	118.9	123.9	103.9	86.4	78.9	78.9	78.9	85.1
45°	155.2	126.4	102.6	90.1	97.6	85.1	70.1	62.6	60.1	62.6	65.1
47.5°	147.7	115.2	90.1	72.6	72.6	67.6	56.3	47.6	45.1	46.3	50.1
50°	141.4	105.1	76.4	58.8	52.6	53.8	42.6	36.3	33.8	33.8	37.6
52.5°	131.4	95.1	66.3	50.1	40.1	36.3	31.3	26.3	25.0	26.3	28.8
55°	118.9	86.4	57.6	41.3	31.3	25.0	22.5	18.8	17.5	18.8	22.5
57.5°	105.1	72.6	46.3	32.5	21.3	16.3	15.0	12.5	10.0	11.3	13.8
59°	96.4	65.1	40.1	26.3	16.3	11.3	11.3	8.8	6.3	7.5	11.3
60°	92.6	60.1	33.8	22.5	13.8	8.8	8.8	6.3	3.8	5.0	8.8
62.5°	78.9	50.1	26.3	13.8	6.3	1.3	3.8	1.3	0.0	1.3	3.8
65°	66.3	40.1	17.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	55.1	30.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	43.8	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P454320

CATALOG NUMBER: GALN-SA5B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3	5506.3
2.5°	4636.3	4815.3	4925.5	5133.3	5346.0	5510.0	5715.3	5899.3	5975.7	6015.7
5°	3576.1	3825.2	4036.8	4353.4	4647.6	5005.6	5368.6	5796.7	5960.6	6003.2
7.5°	2509.7	2763.8	2985.3	3352.1	3771.4	4250.8	4794.0	5337.3	5576.4	5644.0
10°	1812.5	2084.1	2354.5	2721.2	3113.0	3632.5	4198.2	4870.4	5145.8	5198.3
12.5°	1144.1	1435.7	1875.1	2328.2	2742.5	3160.6	3752.6	4483.6	4787.8	4884.2
15°	663.4	881.2	1212.9	1803.7	2330.7	2883.9	3529.8	4338.4	4678.9	4777.8
17.5°	444.4	519.5	747.3	1199.1	1895.1	2628.6	3473.5	4457.3	4834.1	4960.5
20°	374.3	408.1	488.2	731.0	1459.5	2400.8	3488.5	4780.3	5274.7	5432.4
22.5°	329.2	360.5	411.8	525.7	1018.9	2117.9	3559.9	5242.2	5880.5	6082.1
25°	290.4	321.7	366.8	435.6	684.7	1791.2	3716.3	5918.1	6682.9	6904.4
27.5°	257.9	286.6	325.4	384.3	527.0	1426.9	3855.3	6576.5	7415.1	7595.4
30°	227.8	251.6	289.1	334.2	438.1	1100.3	3925.4	7152.3	7948.4	8148.6
32.5°	197.8	220.3	256.6	292.9	360.5	838.6	3876.5	7575.3	8466.6	8594.2
35°	169.0	192.8	222.8	256.6	311.7	677.2	3632.5	8051.0	9003.5	9103.7
37.5°	145.2	165.2	196.5	222.8	281.6	542.0	3337.1	8479.1	9605.6	9749.6
40°	122.7	142.7	174.0	197.8	259.1	426.8	3070.4	8954.7	10240.2	10418.0
42.5°	100.1	123.9	151.5	190.3	222.8	325.4	2747.5	9340.3	10717.1	10939.9
45°	80.1	106.4	136.4	189.0	194.0	247.8	2435.8	9640.7	11139.0	11339.2
47.5°	63.8	90.1	131.4	176.5	159.0	196.5	2258.1	9954.8	11489.4	11649.7
50°	51.3	75.1	137.7	155.2	132.7	166.5	2253.1	10305.3	11670.9	11777.3
52.5°	41.3	61.3	116.4	118.9	112.7	146.4	2388.3	10699.6	11856.2	11943.8
55°	35.0	51.3	76.4	87.6	101.4	132.7	2489.6	11306.7	12298.0	12380.7
57.5°	27.5	43.8	58.8	70.1	90.1	121.4	2503.4	11774.8	12857.6	12911.4
59°	23.8	37.6	52.6	62.6	82.6	113.9	2447.1	11803.6	12893.9	12980.2
60°	20.0	33.8	46.3	58.8	76.4	107.6	2385.8	11594.6	12758.7	12855.1
62.5°	15.0	26.3	33.8	47.6	62.6	92.6	2095.4	10864.8	12241.7	12309.3
65°	10.0	18.8	25.0	35.0	48.8	80.1	1707.3	9918.5	11443.1	11594.6
67.5°	6.3	13.8	20.0	26.3	40.1	67.6	1216.7	8505.4	10325.3	10423.0
70°	3.8	8.8	15.0	21.3	31.3	53.8	722.2	6722.9	8590.5	8610.5
72.5°	2.5	6.3	10.0	15.0	25.0	48.8	350.5	4382.2	6272.3	6511.4
75°	1.3	3.8	6.3	11.3	20.0	40.1	167.7	2927.7	4563.7	4632.6
77.5°	0.0	1.3	3.8	7.5	15.0	31.3	97.6	1922.6	3111.7	3183.1
80°	0.0	0.0	2.5	6.3	11.3	20.0	58.8	1134.0	1885.1	1920.1
82.5°	0.0	0.0	1.3	5.0	7.5	15.0	30.0	498.2	1234.2	1246.7
85°	0.0	0.0	1.3	5.0	6.3	10.0	11.3	67.6	548.2	558.3
87.5°	0.0	0.0	1.3	6.3	6.3	6.3	6.3	3.8	46.3	57.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)