

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: P457336

Luminaire Tested: **GALN-SA8C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457336
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-SA8C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 32398 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 429
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

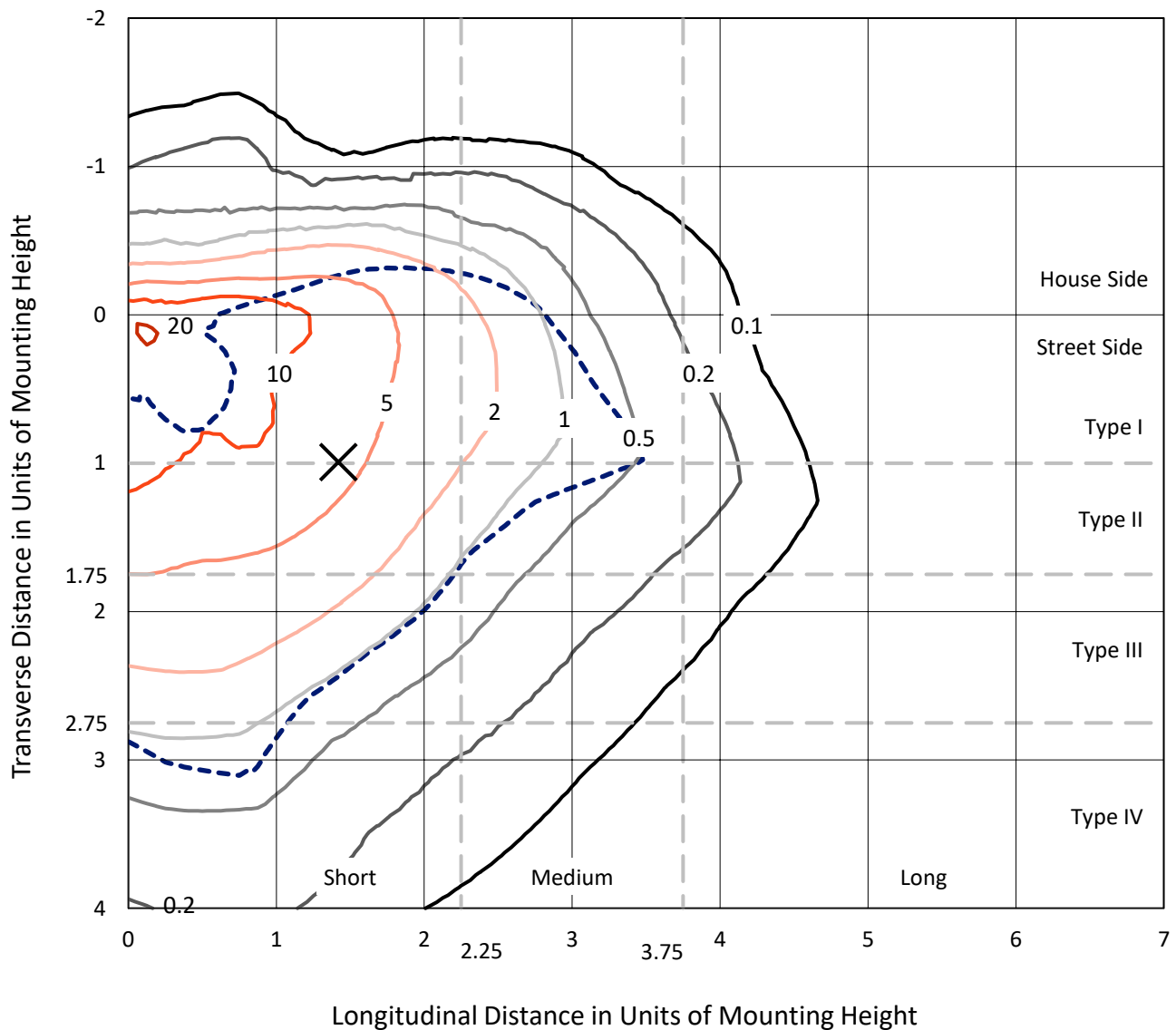


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

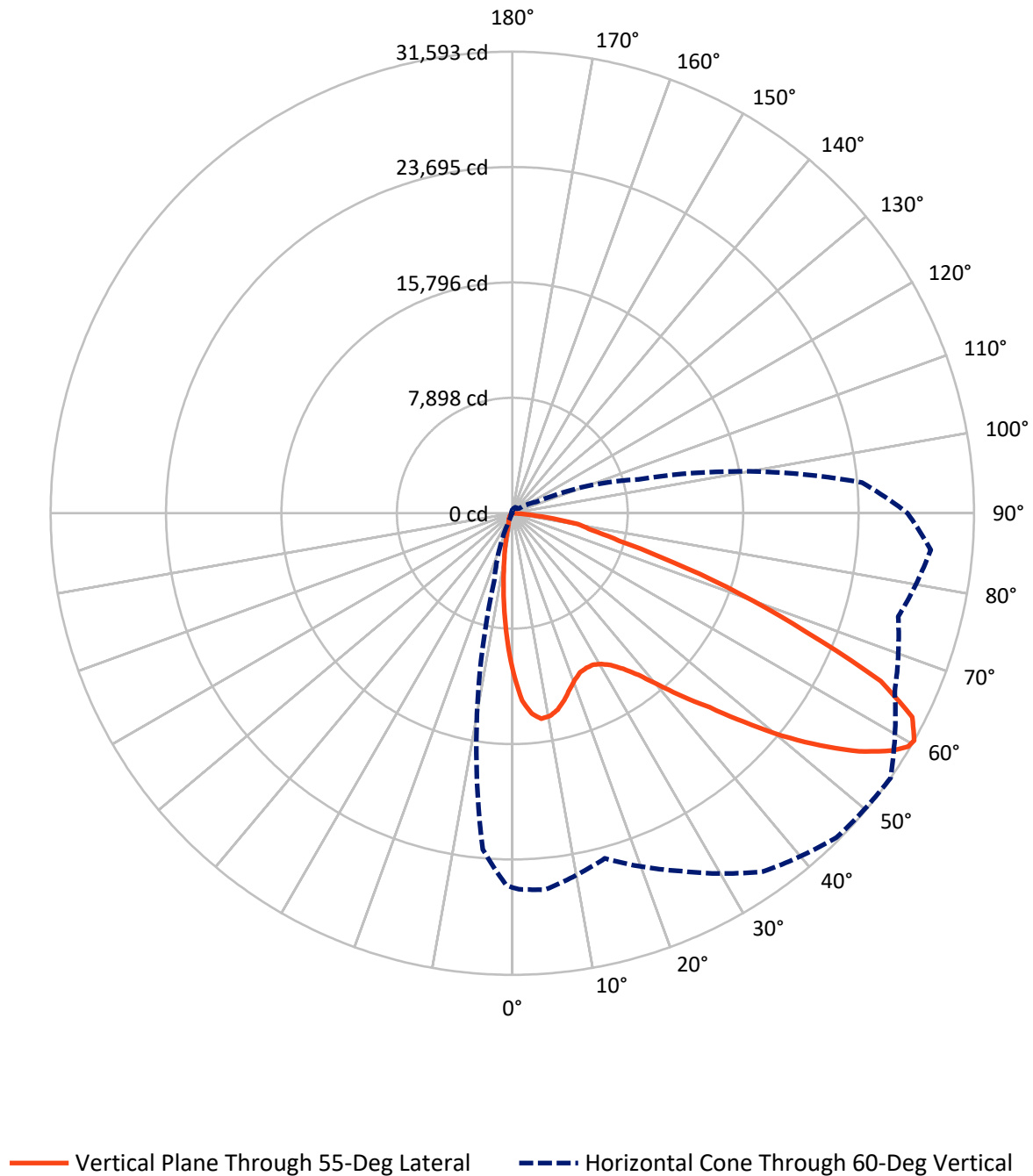


Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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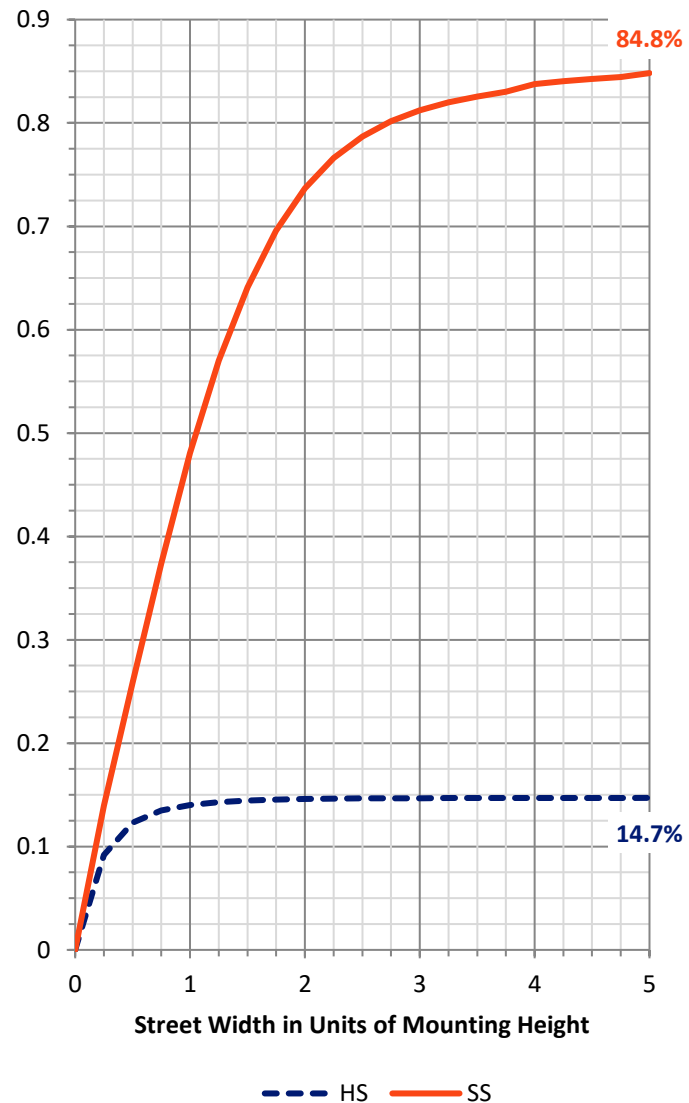
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.1	0.0	4808.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	27589.9	0.0	27589.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	32398.0	0.0	32398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.3	2.5
10°-20°	1599.7	4.9
20°-30°	2367.8	7.3
30°-40°	3529.5	10.9
40°-50°	5168.9	16.0
50°-60°	7462.3	23.0
60°-70°	7850.0	24.2
70°-80°	3229.2	10.0
80°-90°	378.2	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°	32398.0	100.0
0°-180°	32398.0	100.0

Coefficient of Utilization



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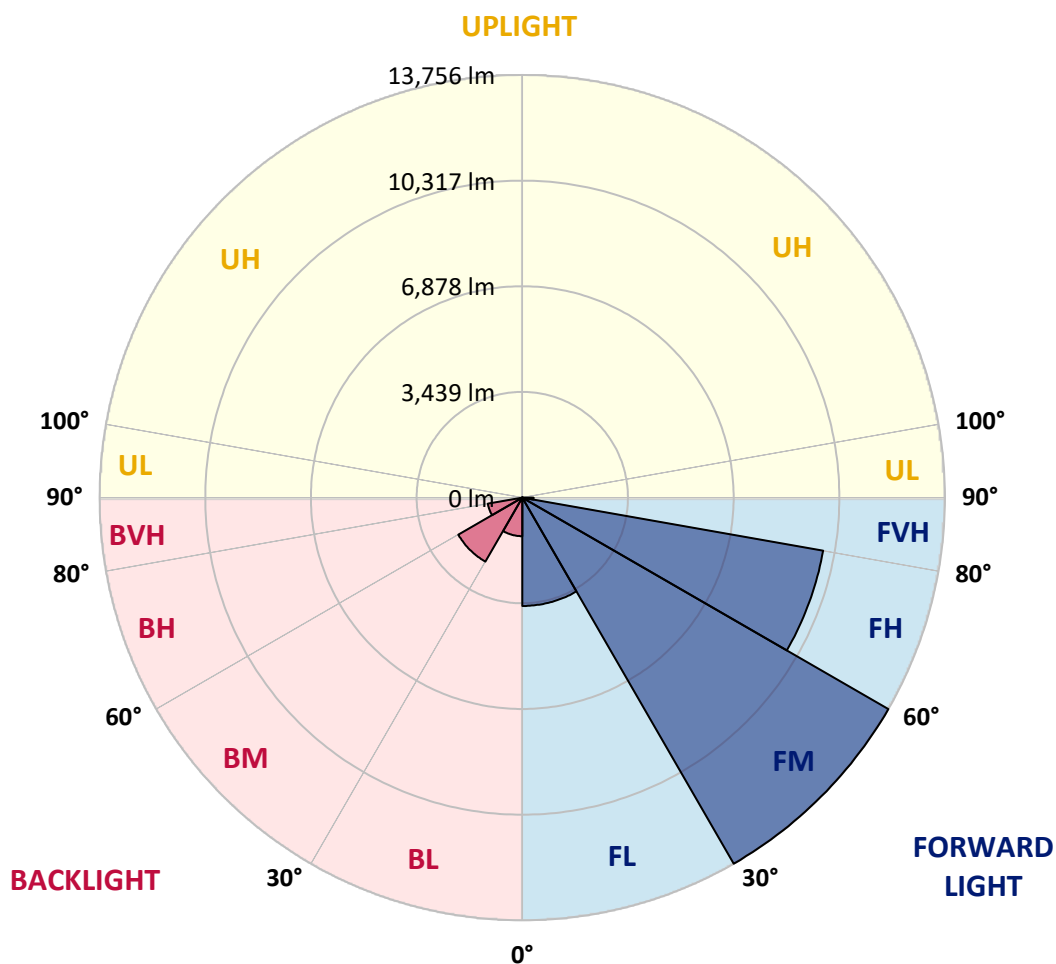
CATALOG NUMBER: GALN-SA8C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3525.4	10.9			
FM	(30°-60°)	13756.2	42.5			
FH	(60°-80°)	9941.2	30.7			G4/12000
FVH	(80°-90°)	367.1	1.1			G3/500
BL	(0°-30°)	1254.5	3.9	B3/2500		
BM	(30°-60°)	2404.5	7.4	B2/2500		
BH	(60°-80°)	1138.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9
2.5°	11984.8	11964.9	12141.9	12431.2	12723.0	12875.1	12845.2	12832.7	12590.8	12413.7	12042.2
5°	11959.9	12062.1	12378.8	13161.9	13755.4	14042.1	14126.9	13770.3	13299.0	12615.7	11772.9
7.5°	11244.2	11371.4	11887.6	13112.0	14166.8	14790.3	14767.8	14196.7	13224.2	12166.9	10964.9
10°	10356.4	10506.0	11112.0	12598.3	13967.3	14790.3	14835.1	14112.0	12902.5	11545.9	10281.6
12.5°	9730.5	9907.5	10578.4	12119.5	13453.6	14264.1	14316.4	13792.8	12660.6	11306.5	9910.0
15°	9518.5	9685.6	10366.4	11877.6	12907.5	13343.9	13331.4	13276.6	12565.9	11363.9	9930.0
17.5°	9882.6	10019.8	10787.8	11987.3	12396.3	12351.4	12416.2	12680.6	12585.8	11845.2	10558.4
20°	10822.7	10962.4	11787.8	12324.0	12004.8	11720.5	11750.4	12191.8	12770.3	12750.4	11540.9
22.5°	12117.0	12353.9	13102.0	12977.3	11952.4	11329.0	11266.6	11840.2	13084.5	13792.8	12867.6
25°	13755.4	13994.8	14578.3	14019.7	12209.3	11236.7	11179.3	11733.0	13466.1	14810.2	14361.3
27.5°	15131.9	15313.9	15895.0	15034.6	12588.3	11276.6	11181.8	11747.9	13775.3	15675.5	15620.7
30°	16234.1	16368.8	16710.4	15508.4	12915.0	11451.2	11341.4	11967.4	13912.5	16097.0	16640.6
32.5°	17121.9	17348.8	17456.0	16014.7	13383.8	11780.3	11593.3	12388.8	14246.6	16618.1	17710.4
35°	18136.8	18398.7	18261.5	16498.4	14002.2	12294.0	12064.6	13072.1	14752.8	17099.4	18952.3
37.5°	19423.6	19725.3	19189.2	17007.2	14655.6	13067.1	12959.9	14032.2	15520.9	17787.7	20283.9
40°	20755.2	20929.8	20089.4	17625.6	15458.6	14191.8	14294.0	15458.6	16525.9	18613.1	21700.3
42.5°	21795.1	21959.7	21014.6	18144.3	16279.0	15525.9	15952.3	17179.2	17678.0	19458.5	22757.7
45°	22590.6	22730.3	21655.5	18710.4	17386.2	17458.5	18264.0	18952.3	18832.6	19974.7	23573.1
47.5°	23209.0	23328.7	22149.2	19318.8	19044.5	19822.6	21054.5	21346.2	20029.6	20533.3	24311.3
50°	23463.4	23498.3	22303.8	20094.4	20927.3	22835.0	24119.3	23942.2	21401.1	21154.2	25096.8
52.5°	23795.1	23787.6	22745.2	20832.5	22697.8	25528.2	26810.0	26408.5	22952.2	22084.4	25979.6
55°	24665.4	24675.4	23690.3	21879.9	24206.5	27702.7	29074.3	28782.5	24588.1	23655.4	27009.5
57.5°	25722.7	25760.1	25034.5	23104.3	25647.9	29278.8	30765.0	30652.8	26800.0	25403.5	27982.0
59°	25859.9	25934.7	25670.4	23967.1	26503.3	29762.5	31343.6	31453.3	27984.5	26555.6	28508.2
60°	25610.5	25735.2	25854.9	24455.9	27004.5	29937.1	31378.5	31592.9	28874.8	27338.6	28747.6
62.5°	24523.2	24720.2	25321.2	25959.6	27630.4	29393.5	30263.8	30712.7	29977.0	29396.0	28770.0
65°	23099.3	23201.6	24069.4	26226.5	26416.0	26854.9	27124.2	27700.2	28652.8	30189.0	27740.1
67.5°	20765.2	21066.9	22129.3	24677.9	22832.5	22313.8	22246.5	21672.9	24146.7	28298.7	25201.5
70°	17154.3	17289.0	18598.2	20231.5	17231.6	16433.6	16752.8	16538.3	18717.9	24361.1	20283.9
72.5°	12972.3	13276.6	14555.8	16126.9	11725.5	10690.6	11570.9	11491.1	14059.6	19578.2	13934.9
75°	9229.3	9426.3	11057.2	12620.7	8211.8	6957.5	7274.2	7570.9	9815.3	15458.6	8234.3
77.5°	6341.5	6511.1	7735.5	8346.5	5989.9	5738.0	5249.3	5536.1	6431.3	9171.9	4481.2
80°	3825.4	3817.9	4623.4	4773.0	4172.0	4845.3	4064.8	4563.5	3887.7	3925.1	1735.6
82.5°	2483.7	2458.8	2827.9	3082.2	2321.7	2441.4	1638.4	2361.6	2533.6	1094.7	548.6
85°	1112.2	1159.6	1359.1	1793.0	1017.4	541.1	334.2	725.7	1079.8	551.1	0.0
87.5°	114.7	89.8	239.4	436.4	139.6	15.0	49.9	24.9	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°	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9
2.5°	11870.1	11725.5	11294.1	10890.1	10543.4	10119.5	9845.2	9413.8	9152.0	9072.2	9084.6
5°	11393.8	10977.4	10156.9	9501.1	8770.4	8354.0	7720.6	7112.1	6782.9	6660.7	6605.9
7.5°	10396.3	9949.9	8959.9	7930.0	7147.0	6416.3	5945.0	5408.9	5042.3	4740.6	4688.2
10°	9655.7	9069.7	7842.7	6735.5	6117.1	5568.5	5097.2	4561.0	4129.6	3785.5	3690.7
12.5°	9211.8	8556.0	7186.9	6259.2	5673.2	5109.6	4496.2	3875.2	3433.9	3062.3	2890.2
15°	9132.0	8371.4	7002.4	5917.6	5194.4	4513.6	3698.2	3027.4	2573.5	2221.9	2114.7
17.5°	9613.3	8703.1	6974.9	5561.0	4568.5	3603.4	2755.6	2199.5	1688.2	1491.2	1413.9
20°	10471.1	9289.1	6972.4	5147.0	3925.1	2775.5	1935.1	1433.9	1226.9	1132.1	1087.3
22.5°	11640.7	10087.1	7104.6	4790.4	3256.8	2047.3	1381.5	1142.1	1022.4	945.1	927.7
25°	13069.6	11269.1	7428.8	4548.5	2745.6	1606.0	1139.6	977.5	877.8	842.9	827.9
27.5°	14338.9	12401.3	7785.4	4299.2	2379.0	1421.4	1057.3	895.2	815.4	788.0	765.6
30°	15433.6	13428.7	7957.5	3970.0	2084.7	1301.7	1072.3	957.6	852.9	770.6	733.2
32.5°	16346.3	14216.7	8069.7	3670.8	1835.4	1064.8	847.9	740.6	693.3	663.3	638.4
35°	17488.5	15069.5	8002.3	3501.2	1708.2	970.1	773.1	638.4	558.6	498.7	473.8
37.5°	18685.4	15922.4	7885.1	3361.5	1650.8	900.2	735.6	606.0	518.7	456.4	423.9
40°	19924.8	16712.9	7748.0	3231.9	1598.5	855.3	713.2	578.5	491.3	423.9	389.0
42.5°	21059.5	17483.5	7693.1	3147.1	1513.7	862.8	695.7	566.1	463.8	394.0	364.1
45°	21977.2	18214.1	7767.9	3102.2	1421.4	850.4	700.7	551.1	441.4	374.1	344.1
47.5°	22957.2	19246.5	8009.8	3057.3	1331.6	790.5	738.1	548.6	431.4	361.6	329.2
50°	24096.8	20568.2	8563.4	2947.6	1221.9	725.7	785.5	546.1	418.9	346.6	314.2
52.5°	25615.5	22069.4	9134.5	2755.6	1062.3	663.3	750.6	538.6	394.0	329.2	296.8
55°	26979.6	23650.4	9618.3	2528.6	860.3	573.6	675.8	506.2	351.6	299.2	269.3
57.5°	27543.1	24543.2	9603.3	2214.4	688.3	503.7	556.1	463.8	306.7	264.3	239.4
59°	27336.2	24431.0	9281.6	1982.5	628.4	466.3	461.3	458.8	286.8	239.4	219.4
60°	27044.4	24022.0	8935.0	1867.8	591.0	441.4	423.9	453.9	269.3	224.4	204.5
62.5°	25927.2	22326.3	7785.4	1673.3	541.1	374.1	339.1	384.0	239.4	194.5	177.1
65°	24308.8	19720.3	6590.9	1618.4	526.2	309.2	281.8	274.3	204.5	164.6	149.6
67.5°	21151.7	16688.0	5339.1	1581.0	531.2	259.3	246.9	207.0	169.6	137.2	127.2
70°	16934.9	13012.2	4371.5	1538.6	536.1	212.0	207.0	164.6	137.2	114.7	104.7
72.5°	10289.1	7713.1	3441.3	1336.6	521.2	169.6	184.5	124.7	99.7	82.3	77.3
75°	6361.5	5279.2	2134.6	1039.9	344.1	124.7	129.7	77.3	67.3	52.4	52.4
77.5°	3685.7	3334.1	763.1	374.1	152.1	74.8	57.4	39.9	37.4	22.4	22.4
80°	1528.7	1224.4	264.3	127.2	82.3	34.9	12.5	2.5	0.0	0.0	0.0
82.5°	446.4	396.5	72.3	57.4	24.9	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°	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9
2.5°	8872.7	8790.4	8753.0	8880.1	8762.9	8912.6	8797.8	8847.7	8994.8	9059.7	9226.8
5°	6640.8	6556.0	6516.1	6708.1	6698.1	6792.9	6782.9	6870.2	6945.0	6777.9	6950.0
7.5°	4625.9	4568.5	4663.3	4812.9	4972.5	4920.1	4920.1	4802.9	4842.8	4817.9	4810.4
10°	3518.6	3321.6	3271.8	3266.8	3326.6	3339.1	3271.8	3109.7	3169.5	3187.0	3291.7
12.5°	2768.0	2615.9	2384.0	2279.3	2251.8	2274.3	2052.3	1910.2	1977.5	1937.6	2039.9
15°	1985.0	1860.3	1723.2	1606.0	1573.5	1528.7	1286.8	1117.2	1097.2	1104.7	1122.2
17.5°	1416.4	1331.6	1331.6	1207.0	1139.6	1005.0	882.8	808.0	800.5	808.0	820.4
20°	1044.9	1000.0	995.0	962.6	887.8	798.0	713.2	698.2	693.3	705.7	710.7
22.5°	900.2	852.9	813.0	810.5	740.6	665.8	625.9	606.0	608.5	613.5	625.9
25°	805.5	755.6	713.2	688.3	638.4	586.0	548.6	538.6	538.6	546.1	548.6
27.5°	738.1	675.8	638.4	603.5	558.6	513.7	481.3	473.8	468.8	473.8	486.3
30°	690.8	628.4	581.0	528.7	493.8	451.4	423.9	414.0	411.5	414.0	423.9
32.5°	591.0	553.6	516.2	468.8	426.4	399.0	369.1	351.6	351.6	356.6	366.6
35°	446.4	426.4	423.9	411.5	376.6	346.6	311.7	294.3	294.3	304.2	309.2
37.5°	394.0	356.6	351.6	346.6	331.7	291.8	259.3	244.4	241.9	249.4	259.3
40°	359.1	316.7	294.3	289.3	291.8	246.9	212.0	197.0	197.0	199.5	209.5
42.5°	331.7	281.8	241.9	236.9	246.9	207.0	172.1	157.1	157.1	157.1	169.6
45°	309.2	251.9	204.5	179.5	194.5	169.6	139.6	124.7	119.7	124.7	129.7
47.5°	294.3	229.4	179.5	144.6	144.6	134.7	112.2	94.8	89.8	92.3	99.7
50°	281.8	209.5	152.1	117.2	104.7	107.2	84.8	72.3	67.3	67.3	74.8
52.5°	261.8	189.5	132.2	99.7	79.8	72.3	62.3	52.4	49.9	52.4	57.4
55°	236.9	172.1	114.7	82.3	62.3	49.9	44.9	37.4	34.9	37.4	44.9
57.5°	209.5	144.6	92.3	64.8	42.4	32.4	29.9	24.9	19.9	22.4	27.4
59°	192.0	129.7	79.8	52.4	32.4	22.4	22.4	17.5	12.5	15.0	22.4
60°	184.5	119.7	67.3	44.9	27.4	17.5	17.5	12.5	7.5	10.0	17.5
62.5°	157.1	99.7	52.4	27.4	12.5	2.5	7.5	2.5	0.0	2.5	7.5
65°	132.2	79.8	34.9	12.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	109.7	59.8	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	87.3	39.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	59.8	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.0	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: P457336

CATALOG NUMBER: GALN-SA8C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9	10969.9
2.5°	9236.7	9593.3	9812.8	10226.7	10650.7	10977.4	11386.3	11752.9	11905.0	11984.8
5°	7124.6	7620.8	8042.2	8673.2	9259.2	9972.4	10695.6	11548.4	11875.1	11959.9
7.5°	4999.9	5506.1	5947.5	6678.2	7513.6	8468.7	9550.9	10633.2	11109.5	11244.2
10°	3610.9	4152.0	4690.7	5421.3	6201.9	7236.8	8363.9	9703.1	10251.7	10356.4
12.5°	2279.3	2860.3	3735.6	4638.3	5463.7	6296.6	7476.2	8932.5	9538.5	9730.5
15°	1321.7	1755.6	2416.4	3593.5	4643.3	5745.5	7032.3	8643.2	9321.5	9518.5
17.5°	885.3	1034.9	1488.8	2389.0	3775.5	5236.8	6920.1	8880.1	9630.7	9882.6
20°	745.6	813.0	972.6	1456.3	2907.7	4783.0	6950.0	9523.5	10508.5	10822.7
22.5°	655.8	718.2	820.4	1047.4	2029.9	4219.4	7092.1	10443.7	11715.5	12117.0
25°	578.5	640.9	730.7	867.8	1364.1	3568.5	7403.9	11790.3	13314.0	13755.4
27.5°	513.7	571.1	648.4	765.6	1049.9	2842.8	7680.7	13102.0	14772.8	15131.9
30°	453.9	501.2	576.0	665.8	872.8	2192.0	7820.3	14249.1	15835.1	16234.1
32.5°	394.0	438.9	511.2	583.5	718.2	1670.8	7723.1	15092.0	16867.5	17121.9
35°	336.7	384.0	443.9	511.2	620.9	1349.1	7236.8	16039.6	17937.3	18136.8
37.5°	289.3	329.2	391.5	443.9	561.1	1079.8	6648.3	16892.5	19136.8	19423.6
40°	244.4	284.3	346.6	394.0	516.2	850.4	6117.1	17840.1	20401.1	20755.2
42.5°	199.5	246.9	301.7	379.0	443.9	648.4	5473.7	18608.1	21351.2	21795.1
45°	159.6	212.0	271.8	376.6	386.5	493.8	4852.8	19206.6	22191.6	22590.6
47.5°	127.2	179.5	261.8	351.6	316.7	391.5	4498.7	19832.6	22889.9	23209.0
50°	102.2	149.6	274.3	309.2	264.3	331.7	4488.7	20530.8	23251.4	23463.4
52.5°	82.3	122.2	231.9	236.9	224.4	291.8	4758.0	21316.3	23620.5	23795.1
55°	69.8	102.2	152.1	174.6	202.0	264.3	4960.0	22525.8	24500.8	24665.4
57.5°	54.9	87.3	117.2	139.6	179.5	241.9	4987.4	23458.4	25615.5	25722.7
59°	47.4	74.8	104.7	124.7	164.6	226.9	4875.2	23515.8	25687.8	25859.9
60°	39.9	67.3	92.3	117.2	152.1	214.5	4753.0	23099.3	25418.5	25610.5
62.5°	29.9	52.4	67.3	94.8	124.7	184.5	4174.5	21645.5	24388.6	24523.2
65°	19.9	37.4	49.9	69.8	97.3	159.6	3401.4	19760.2	22797.6	23099.3
67.5°	12.5	27.4	39.9	52.4	79.8	134.7	2423.9	16944.8	20570.7	20765.2
70°	7.5	17.5	29.9	42.4	62.3	107.2	1438.9	13393.8	17114.4	17154.3
72.5°	5.0	12.5	19.9	29.9	49.9	97.3	698.2	8730.5	12496.0	12972.3
75°	2.5	7.5	12.5	22.4	39.9	79.8	334.2	5832.8	9092.1	9229.3
77.5°	0.0	2.5	7.5	15.0	29.9	62.3	194.5	3830.4	6199.4	6341.5
80°	0.0	0.0	5.0	12.5	22.4	39.9	117.2	2259.3	3755.5	3825.4
82.5°	0.0	0.0	2.5	10.0	15.0	29.9	59.8	992.5	2458.8	2483.7
85°	0.0	0.0	2.5	10.0	12.5	19.9	22.4	134.7	1092.2	1112.2
87.5°	0.0	0.0	2.5	12.5	12.5	12.5	12.5	7.5	92.3	114.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)