

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: P458264

Luminaire Tested: **GALN-SA9C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458264
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-SA9C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 36372 lumens
Efficiency: N/A
Efficacy: 75.6 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): 481
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

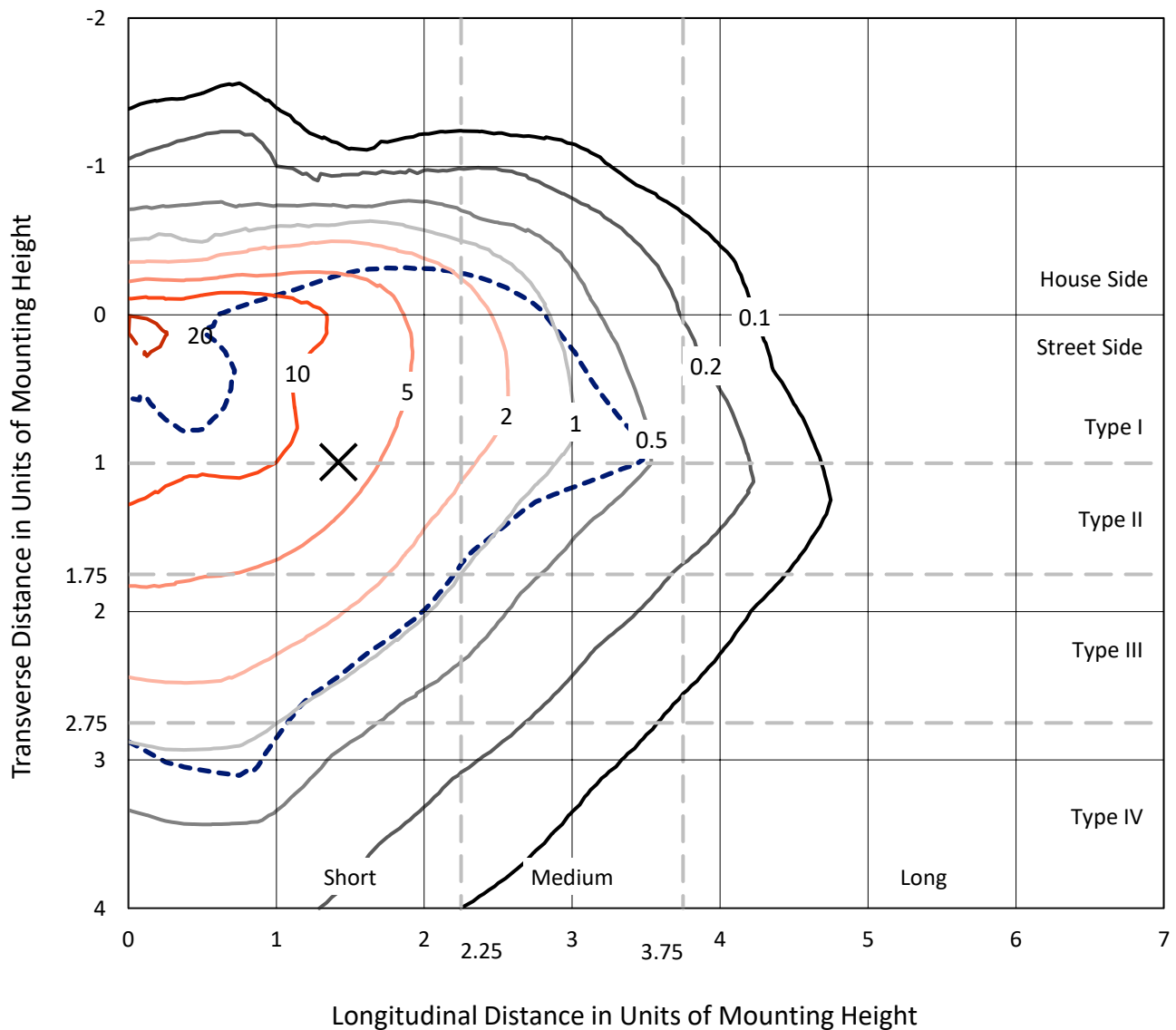


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

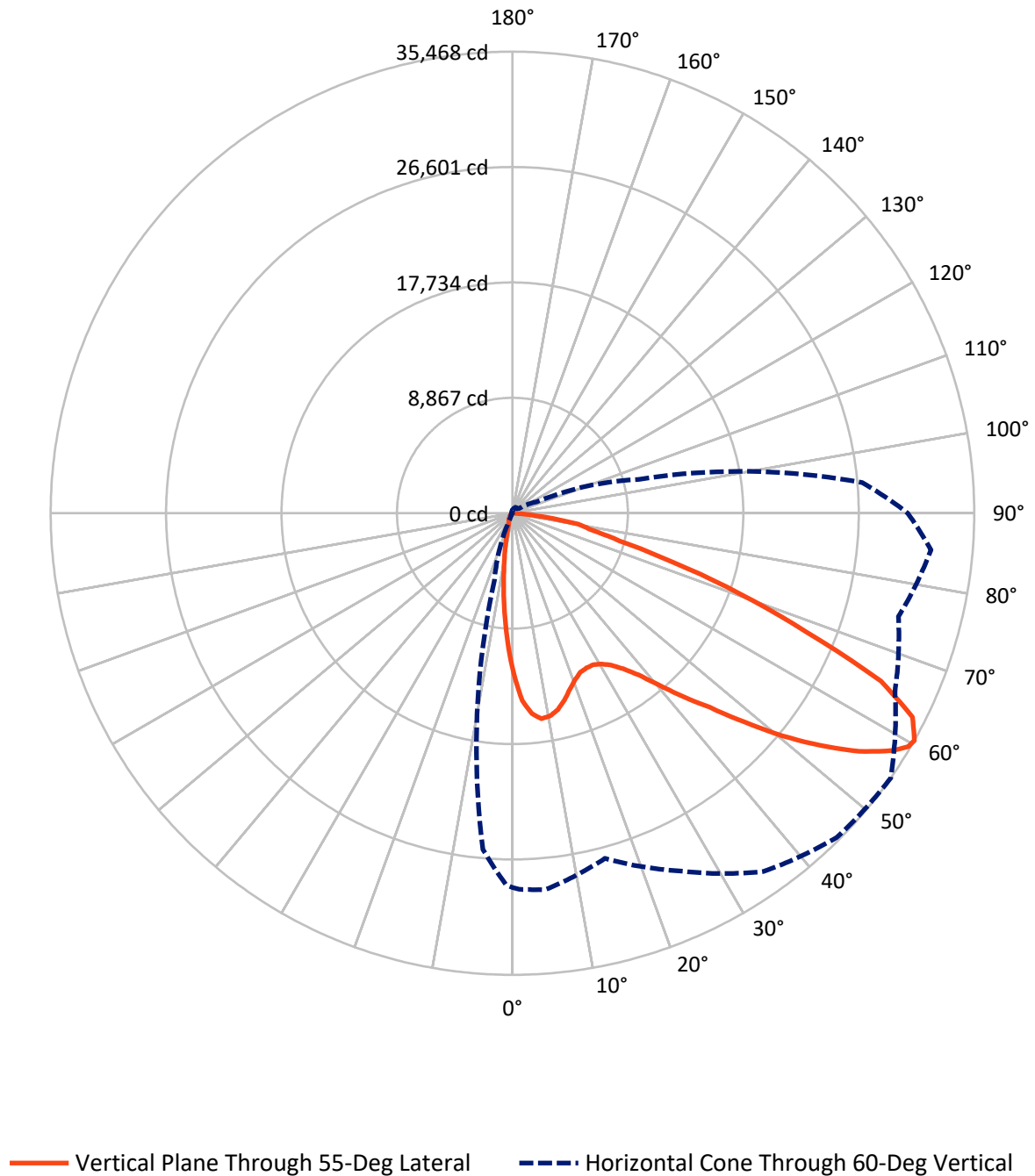


Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5397.9	0.0	5397.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	30974.1	0.0	30974.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	36372.0	0.0	36372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.0	2.5
10°-20°	1795.9	4.9
20°-30°	2658.2	7.3
30°-40°	3962.4	10.9
40°-50°	5803.0	16.0
50°-60°	8377.7	23.0
60°-70°	8812.9	24.2
70°-80°	3625.3	10.0
80°-90°	424.6	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°	36372.0	100.0
0°-180°	36372.0	100.0

Coefficient of Utilization



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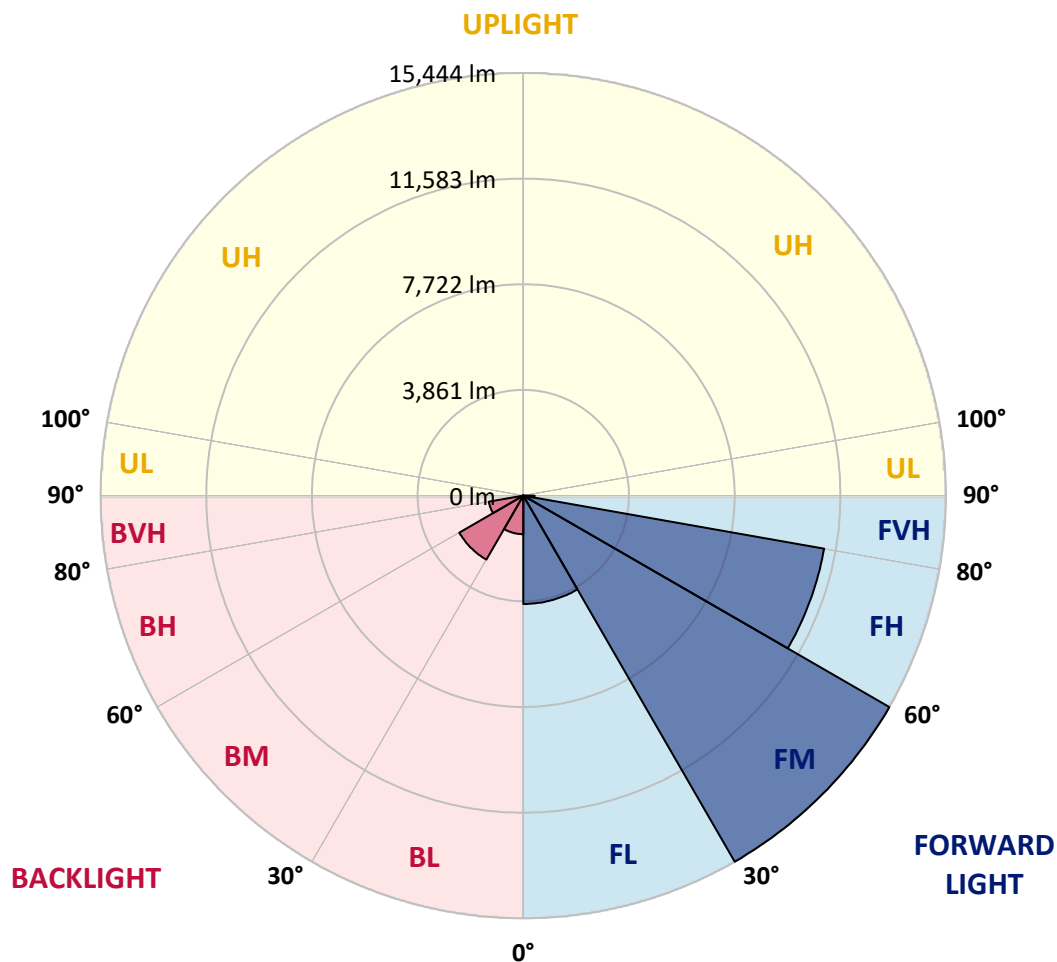
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3957.8	10.9			
FM	(30°-60°)	15443.6	42.5			
FH	(60°-80°)	11160.6	30.7			G4/12000
FVH	(80°-90°)	412.1	1.1			G3/500
BL	(0°-30°)	1408.3	3.9	B3/2500		
BM	(30°-60°)	2699.5	7.4	B3/5000		
BH	(60°-80°)	1277.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	12.5	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°	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5
2.5°	13454.9	13432.5	13631.3	13956.0	14283.6	14454.4	14420.8	14406.8	14135.2	13936.4	13519.3
5°	13426.9	13541.7	13897.2	14776.3	15442.6	15764.6	15859.8	15459.4	14930.3	14163.2	13216.9
7.5°	12623.4	12766.2	13345.7	14720.3	15904.6	16604.5	16579.3	15938.1	14846.3	13659.3	12309.9
10°	11626.8	11794.7	12475.0	14143.6	15680.6	16604.5	16654.8	15843.0	14485.2	12962.2	11542.8
12.5°	10924.1	11122.8	11875.9	13606.1	15103.9	16013.7	16072.5	15484.6	14213.6	12693.4	11125.6
15°	10686.1	10873.7	11638.0	13334.5	14490.8	14980.7	14966.7	14905.1	14107.2	12757.8	11148.0
17.5°	11094.8	11248.8	12111.1	13457.7	13916.8	13866.4	13939.2	14236.0	14129.6	13298.1	11853.5
20°	12150.3	12307.1	13233.7	13835.6	13477.3	13158.1	13191.7	13687.3	14336.8	14314.4	12956.6
22.5°	13603.3	13869.2	14709.1	14569.1	13418.5	12718.6	12648.6	13292.5	14689.5	15484.6	14446.0
25°	15442.6	15711.4	16366.5	15739.4	13706.9	12615.0	12550.6	13172.1	15117.9	16626.8	16122.9
27.5°	16988.0	17192.4	17844.7	16878.8	14132.4	12659.8	12553.4	13188.9	15465.0	17598.3	17536.7
30°	18225.4	18376.6	18760.1	17410.7	14499.1	12855.8	12732.6	13435.3	15619.0	18071.4	18681.8
32.5°	19222.1	19476.8	19597.2	17979.1	15025.5	13225.3	13015.4	13908.4	15994.1	18656.6	19882.8
35°	20361.5	20655.5	20501.5	18522.2	15719.8	13802.0	13544.5	14675.5	16562.5	19196.9	21277.0
37.5°	21806.1	22144.9	21543.0	19093.3	16453.3	14669.9	14549.5	15753.4	17424.7	19969.6	22772.0
40°	23301.1	23497.1	22553.6	19787.6	17354.7	15932.5	16047.3	17354.7	18553.0	20896.2	24362.2
42.5°	24468.5	24653.3	23592.3	20369.9	18275.8	17430.3	17909.1	19286.5	19846.4	21845.3	25549.2
45°	25361.6	25518.4	24311.8	21005.4	19518.8	19600.0	20504.3	21277.0	21142.6	22424.8	26464.7
47.5°	26055.9	26190.3	24866.1	21688.5	21380.6	22254.1	23637.1	23964.6	22486.4	23051.9	27293.3
50°	26341.5	26380.7	25039.7	22559.2	23494.3	25636.0	27077.8	26879.0	24026.2	23749.0	28175.2
52.5°	26713.8	26705.4	25535.2	23387.9	25482.0	28659.5	30098.5	29647.8	25767.6	24793.3	29166.3
55°	27690.9	27702.1	26596.2	24563.7	27175.8	31100.8	32640.6	32313.0	27604.1	26557.0	30322.5
57.5°	28877.9	28919.9	28105.2	25938.3	28793.9	32870.2	34538.7	34412.7	30087.3	28519.6	31414.4
59°	29031.9	29115.9	28819.1	26907.0	29754.2	33413.3	35188.2	35311.4	31417.2	29813.0	32005.1
60°	28751.9	28891.9	29026.3	27455.7	30316.9	33609.2	35227.4	35468.2	32416.6	30692.1	32273.8
62.5°	27531.3	27752.5	28427.2	29143.9	31019.6	32998.9	33976.0	34479.9	33654.0	33001.7	32299.0
65°	25932.7	26047.5	27021.8	29443.4	29656.2	30148.9	30451.3	31098.0	32167.5	33892.0	31142.8
67.5°	23312.3	23651.1	24843.7	27704.9	25633.2	25050.9	24975.3	24331.4	27108.6	31769.9	28292.8
70°	19258.5	19409.7	20879.4	22713.2	19345.3	18449.4	18807.7	18567.0	21013.8	27349.3	22772.0
72.5°	14563.5	14905.1	16341.3	18105.0	13163.7	12001.9	12990.2	12900.6	15784.2	21979.7	15644.2
75°	10361.3	10582.5	12413.4	14168.8	9219.1	7810.9	8166.4	8499.6	11019.2	17354.7	9244.3
77.5°	7119.4	7309.8	8684.4	9370.3	6724.6	6441.9	5893.2	6215.1	7220.2	10296.9	5030.9
80°	4294.6	4286.2	5190.5	5358.4	4683.7	5439.6	4563.4	5123.3	4364.6	4406.6	1948.5
82.5°	2788.4	2760.4	3174.8	3460.3	2606.4	2740.8	1839.3	2651.2	2844.4	1229.0	615.9
85°	1248.6	1301.8	1525.8	2012.9	1142.2	607.5	375.1	814.7	1212.2	618.7	0.0
87.5°	128.8	100.8	268.8	489.9	156.8	16.8	56.0	28.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5
2.5°	13326.1	13163.7	12679.4	12225.9	11836.7	11360.8	11052.8	10568.5	10274.5	10185.0	10199.0
5°	12791.4	12323.9	11402.8	10666.5	9846.2	9378.7	8667.6	7984.5	7614.9	7477.7	7416.2
7.5°	11671.5	11170.4	10059.0	8902.7	8023.7	7203.4	6674.3	6072.3	5660.8	5322.0	5263.3
10°	10840.1	10182.2	8804.8	7561.7	6867.4	6251.5	5722.4	5120.5	4636.1	4249.8	4143.4
12.5°	10341.7	9605.4	8068.5	7027.0	6369.1	5736.4	5047.7	4350.6	3855.1	3437.9	3244.7
15°	10252.2	9398.3	7861.3	6643.5	5831.6	5067.3	4151.8	3398.7	2889.2	2494.4	2374.1
17.5°	10792.5	9770.6	7830.5	6243.1	5128.9	4045.4	3093.6	2469.3	1895.3	1674.2	1587.4
20°	11755.5	10428.5	7827.7	5778.4	4406.6	3116.0	2172.5	1609.8	1377.4	1271.0	1220.6
22.5°	13068.6	11324.4	7976.1	5378.0	3656.3	2298.5	1551.0	1282.2	1147.8	1061.0	1041.5
25°	14672.7	12651.4	8340.0	5106.5	3082.4	1802.9	1279.4	1097.4	985.5	946.3	929.5
27.5°	16097.7	13922.4	8740.4	4826.5	2670.8	1595.8	1187.0	1005.1	915.5	884.7	859.5
30°	17326.7	15075.9	8933.5	4457.0	2340.5	1461.4	1203.8	1075.0	957.5	865.1	823.1
32.5°	18351.4	15960.5	9059.5	4121.0	2060.5	1195.4	951.9	831.5	778.3	744.7	716.7
35°	19633.6	16918.0	8983.9	3930.6	1917.7	1089.0	867.9	716.7	627.1	559.9	531.9
37.5°	20977.4	17875.5	8852.3	3773.9	1853.3	1010.7	825.9	680.3	582.3	512.3	475.9
40°	22368.8	18762.9	8698.4	3628.3	1794.5	960.3	800.7	649.5	551.5	475.9	436.7
42.5°	23642.7	19628.0	8636.8	3533.1	1699.4	968.7	781.1	635.5	520.7	442.3	408.7
45°	24672.9	20448.3	8720.8	3482.7	1595.8	954.7	786.7	618.7	495.5	419.9	386.3
47.5°	25773.2	21607.3	8992.3	3432.3	1495.0	887.5	828.7	615.9	484.3	405.9	369.5
50°	27052.6	23091.1	9613.8	3309.1	1371.8	814.7	881.9	613.1	470.3	389.1	352.8
52.5°	28757.5	24776.5	10254.9	3093.6	1192.6	744.7	842.7	604.7	442.3	369.5	333.2
55°	30288.9	26551.4	10798.1	2838.8	965.9	643.9	758.7	568.3	394.7	336.0	302.4
57.5°	30921.6	27553.7	10781.3	2486.0	772.7	565.5	624.3	520.7	344.4	296.8	268.8
59°	30689.3	27427.7	10420.1	2225.7	705.5	523.5	517.9	515.1	322.0	268.8	246.4
60°	30361.7	26968.6	10031.0	2096.9	663.5	495.5	475.9	509.5	302.4	252.0	229.6
62.5°	29107.5	25064.9	8740.4	1878.5	607.5	419.9	380.7	431.1	268.8	218.4	198.8
65°	27290.5	22139.3	7399.4	1816.9	590.7	347.2	316.4	308.0	229.6	184.8	168.0
67.5°	23746.2	18735.0	5994.0	1774.9	596.3	291.2	277.2	232.4	190.4	154.0	142.8
70°	19012.1	14608.3	4907.7	1727.4	601.9	238.0	232.4	184.8	154.0	128.8	117.6
72.5°	11551.2	8659.2	3863.5	1500.6	585.1	190.4	207.2	140.0	112.0	92.4	86.8
75°	7141.8	5926.8	2396.5	1167.4	386.3	140.0	145.6	86.8	75.6	58.8	58.8
77.5°	4137.8	3743.1	856.7	419.9	170.8	84.0	64.4	44.8	42.0	25.2	25.2
80°	1716.2	1374.6	296.8	142.8	92.4	39.2	14.0	2.8	0.0	0.0	0.0
82.5°	501.1	445.1	81.2	64.4	28.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5
2.5°	9961.0	9868.6	9826.6	9969.4	9837.8	10005.8	9877.0	9933.0	10098.2	10171.0	10358.5
5°	7455.3	7360.2	7315.4	7530.9	7519.7	7626.1	7614.9	7712.9	7796.9	7609.3	7802.5
7.5°	5193.3	5128.9	5235.3	5403.2	5582.4	5523.6	5523.6	5392.0	5436.8	5408.8	5400.4
10°	3950.2	3729.1	3673.1	3667.5	3734.7	3748.7	3673.1	3491.1	3558.3	3577.9	3695.5
12.5°	3107.6	2936.8	2676.4	2558.8	2528.0	2553.2	2304.1	2144.5	2220.1	2175.3	2290.1
15°	2228.5	2088.5	1934.5	1802.9	1766.6	1716.2	1444.6	1254.2	1231.8	1240.2	1259.8
17.5°	1590.2	1495.0	1495.0	1355.0	1279.4	1128.2	991.1	907.1	898.7	907.1	921.1
20°	1173.0	1122.6	1117.0	1080.6	996.7	895.9	800.7	783.9	778.3	792.3	797.9
22.5°	1010.7	957.5	912.7	909.9	831.5	747.5	702.7	680.3	683.1	688.7	702.7
25°	904.3	848.3	800.7	772.7	716.7	657.9	615.9	604.7	604.7	613.1	615.9
27.5°	828.7	758.7	716.7	677.5	627.1	576.7	540.3	531.9	526.3	531.9	545.9
30°	775.5	705.5	652.3	593.5	554.3	506.7	475.9	464.7	461.9	464.7	475.9
32.5°	663.5	621.5	579.5	526.3	478.7	447.9	414.3	394.7	394.7	400.3	411.5
35°	501.1	478.7	475.9	461.9	422.7	389.1	350.0	330.4	330.4	341.6	347.2
37.5°	442.3	400.3	394.7	389.1	372.3	327.6	291.2	274.4	271.6	280.0	291.2
40°	403.1	355.5	330.4	324.8	327.6	277.2	238.0	221.2	221.2	224.0	235.2
42.5°	372.3	316.4	271.6	266.0	277.2	232.4	193.2	176.4	176.4	176.4	190.4
45°	347.2	282.8	229.6	201.6	218.4	190.4	156.8	140.0	134.4	140.0	145.6
47.5°	330.4	257.6	201.6	162.4	162.4	151.2	126.0	106.4	100.8	103.6	112.0
50°	316.4	235.2	170.8	131.6	117.6	120.4	95.2	81.2	75.6	75.6	84.0
52.5°	294.0	212.8	148.4	112.0	89.6	81.2	70.0	58.8	56.0	58.8	64.4
55°	266.0	193.2	128.8	92.4	70.0	56.0	50.4	42.0	39.2	42.0	50.4
57.5°	235.2	162.4	103.6	72.8	47.6	36.4	33.6	28.0	22.4	25.2	30.8
59°	215.6	145.6	89.6	58.8	36.4	25.2	25.2	19.6	14.0	16.8	25.2
60°	207.2	134.4	75.6	50.4	30.8	19.6	19.6	14.0	8.4	11.2	19.6
62.5°	176.4	112.0	58.8	30.8	14.0	2.8	8.4	2.8	0.0	2.8	8.4
65°	148.4	89.6	39.2	14.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
67.5°	123.2	67.2	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	98.0	44.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	67.2	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.8	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: P458264

CATALOG NUMBER: GALN-SA9C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5	12315.5
2.5°	10369.7	10770.1	11016.4	11481.2	11957.1	12323.9	12783.0	13194.5	13365.3	13454.9
5°	7998.5	8555.6	9028.7	9737.0	10394.9	11195.6	12007.5	12965.0	13331.7	13426.9
7.5°	5613.2	6181.5	6677.1	7497.3	8435.2	9507.5	10722.5	11937.5	12472.2	12623.4
10°	4053.8	4661.3	5266.1	6086.3	6962.6	8124.5	9389.9	10893.3	11509.2	11626.8
12.5°	2558.8	3211.1	4193.8	5207.3	6133.9	7069.0	8393.2	10028.2	10708.5	10924.1
15°	1483.8	1970.9	2712.8	4034.2	5212.9	6450.3	7894.9	9703.4	10464.9	10686.1
17.5°	993.9	1161.8	1671.4	2682.0	4238.6	5879.2	7768.9	9969.4	10812.1	11094.8
20°	837.1	912.7	1091.8	1635.0	3264.3	5369.6	7802.5	10691.7	11797.5	12150.3
22.5°	736.3	806.3	921.1	1175.8	2278.9	4736.9	7962.1	11724.7	13152.5	13603.3
25°	649.5	719.5	820.3	974.3	1531.4	4006.2	8312.0	13236.5	14947.1	15442.6
27.5°	576.7	641.1	727.9	859.5	1178.6	3191.5	8622.8	14709.1	16584.9	16988.0
30°	509.5	562.7	646.7	747.5	979.9	2460.9	8779.6	15996.9	17777.5	18225.4
32.5°	442.3	492.7	573.9	655.1	806.3	1875.7	8670.4	16943.2	18936.5	19222.1
35°	377.9	431.1	498.3	573.9	697.1	1514.6	8124.5	18007.1	20137.6	20361.5
37.5°	324.8	369.5	439.5	498.3	629.9	1212.2	7463.7	18964.5	21484.2	21806.1
40°	274.4	319.2	389.1	442.3	579.5	954.7	6867.4	20028.4	22903.6	23301.1
42.5°	224.0	277.2	338.8	425.5	498.3	727.9	6145.1	20890.6	23970.2	24468.5
45°	179.2	238.0	305.2	422.7	433.9	554.3	5448.0	21562.6	24913.7	25361.6
47.5°	142.8	201.6	294.0	394.7	355.5	439.5	5050.5	22265.3	25697.6	26055.9
50°	114.8	168.0	308.0	347.2	296.8	372.3	5039.3	23049.1	26103.5	26341.5
52.5°	92.4	137.2	260.4	266.0	252.0	327.6	5341.6	23931.0	26517.9	26713.8
55°	78.4	114.8	170.8	196.0	226.8	296.8	5568.4	25288.8	27506.1	27690.9
57.5°	61.6	98.0	131.6	156.8	201.6	271.6	5599.2	26335.9	28757.5	28877.9
59°	53.2	84.0	117.6	140.0	184.8	254.8	5473.2	26400.3	28838.7	29031.9
60°	44.8	75.6	103.6	131.6	170.8	240.8	5336.0	25932.7	28536.4	28751.9
62.5°	33.6	58.8	75.6	106.4	140.0	207.2	4686.5	24300.6	27380.1	27531.3
65°	22.4	42.0	56.0	78.4	109.2	179.2	3818.7	22184.1	25594.0	25932.7
67.5°	14.0	30.8	44.8	58.8	89.6	151.2	2721.2	19023.3	23093.9	23312.3
70°	8.4	19.6	33.6	47.6	70.0	120.4	1615.4	15036.7	19213.7	19258.5
72.5°	5.6	14.0	22.4	33.6	56.0	109.2	783.9	9801.4	14028.8	14563.5
75°	2.8	8.4	14.0	25.2	44.8	89.6	375.1	6548.3	10207.4	10361.3
77.5°	0.0	2.8	8.4	16.8	33.6	70.0	218.4	4300.2	6959.8	7119.4
80°	0.0	0.0	5.6	14.0	25.2	44.8	131.6	2536.4	4216.2	4294.6
82.5°	0.0	0.0	2.8	11.2	16.8	33.6	67.2	1114.2	2760.4	2788.4
85°	0.0	0.0	2.8	11.2	14.0	22.4	25.2	151.2	1226.2	1248.6
87.5°	0.0	0.0	2.8	14.0	14.0	14.0	14.0	8.4	103.6	128.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)