

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: P534189

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534189
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-SA9C-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 27999 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

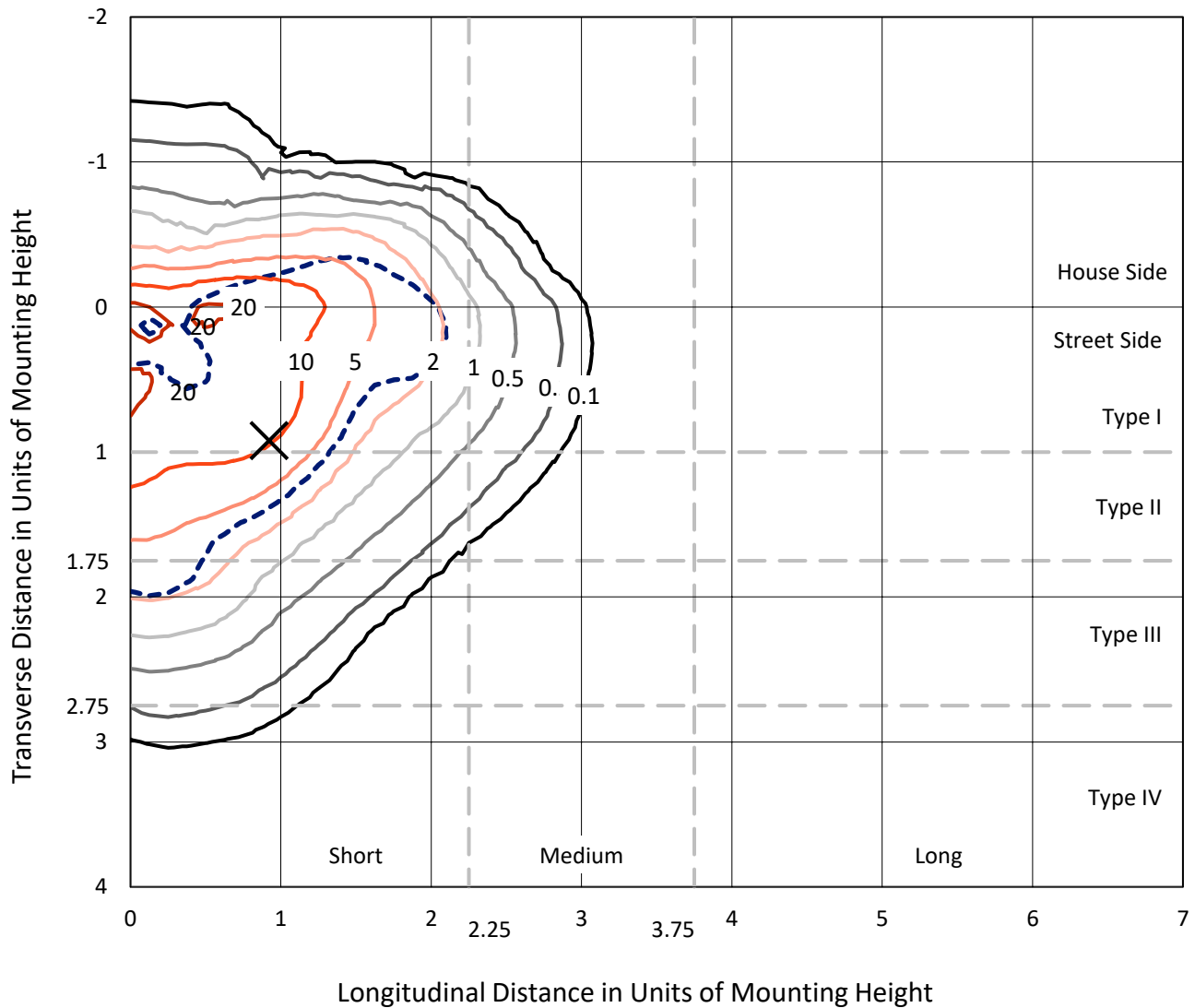
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534189
 CATALOG NUMBER: GALN-SA9C-830-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

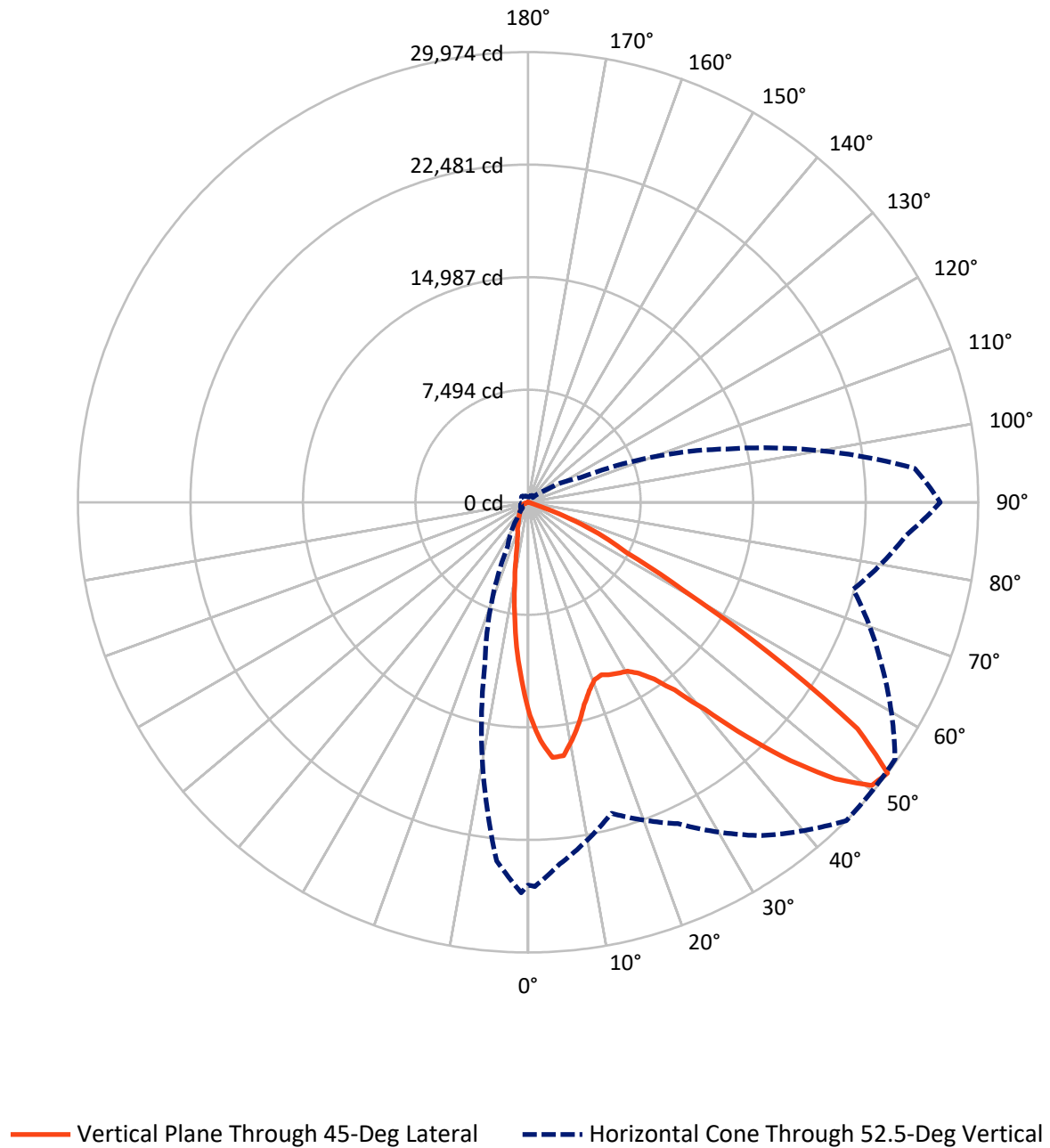
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
 Type III - Short - N/A

REPORT NUMBER: P534189
CATALOG NUMBER: GALN-SA9C-830-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P534189

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

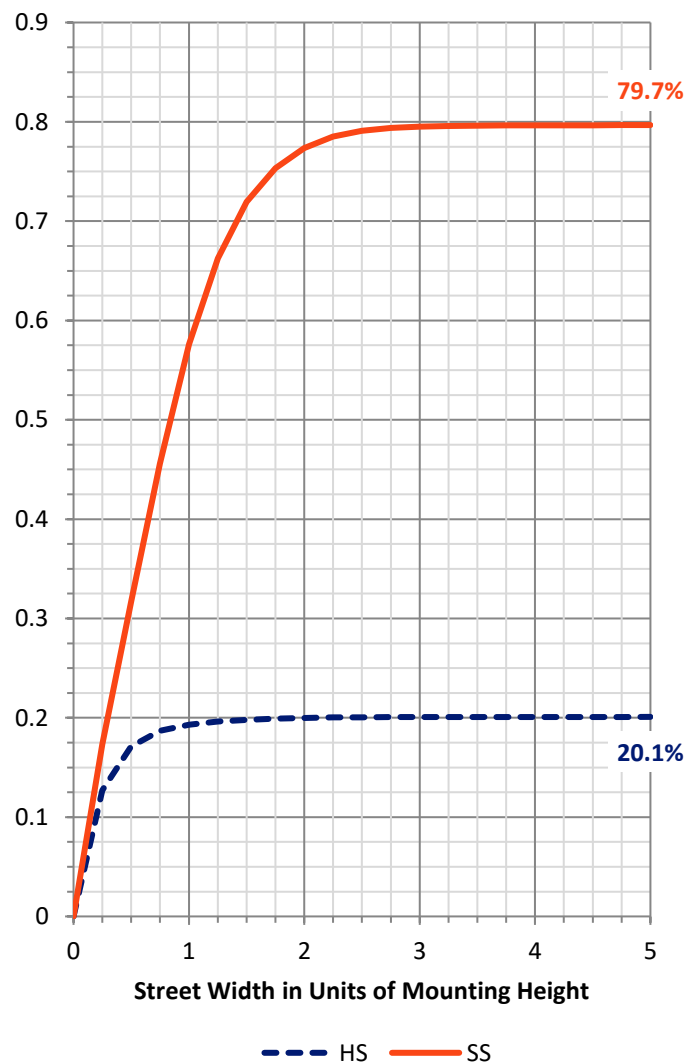
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5682.4	0.0	5682.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	22316.6	0.0	22316.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	27999.0	0.0	27999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.4	3.7
10°-20°	2042.7	7.3
20°-30°	3108.7	11.1
30°-40°	4646.3	16.6
40°-50°	6616.7	23.6
50°-60°	7112.8	25.4
60°-70°	3151.8	11.3
70°-80°	255.0	0.9
80°-90°	29.7	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°	27999.0	100.0
0°-180°	27999.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534189

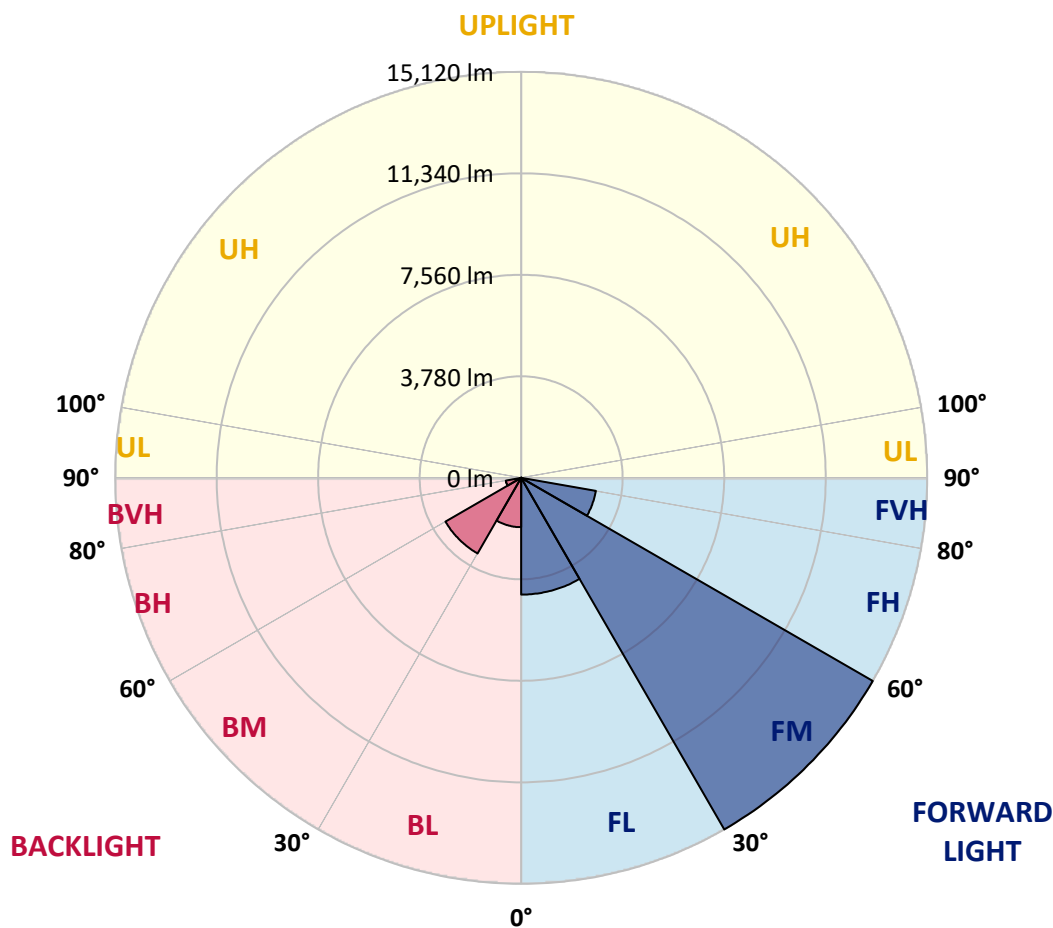
CATALOG NUMBER: GALN-SA9C-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4348.8	15.5			
FM	(30°-60°)	15120.3	54.0			
FH	(60°-80°)	2825.4	10.1			G2/5000
FVH	(80°-90°)	22.0	0.1			G1/100
BL	(0°-30°)	1837.9	6.6	B3/2500		
BM	(30°-60°)	3255.4	11.6	B3/5000		
BH	(60°-80°)	581.4	2.1	B2/1000		G2/1000
BVH	(80°-90°)	7.7	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



REPORT NUMBER: P534189

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8
2.5°	15022.8	15066.9	15309.2	15612.1	15771.8	16135.2	15881.9	15948.0	15810.3	15325.7	14945.7
5°	14565.8	14560.3	14868.6	15617.6	16328.0	17049.4	17071.4	16685.9	16008.6	15265.1	14202.3
7.5°	13189.0	13403.8	13723.2	14918.2	16234.3	16774.0	17032.8	16581.3	15540.5	14477.6	13326.7
10°	12148.2	12258.4	12798.0	14240.8	15204.6	15926.0	16085.7	15826.8	15028.3	13701.2	12412.6
12.5°	11548.0	11603.0	12236.3	13447.9	14466.6	15000.8	15077.9	15199.1	14626.3	13381.8	11834.3
15°	11553.5	11597.5	12451.1	13464.4	13866.4	13723.2	13976.5	13971.0	14218.8	13321.2	12318.9
17.5°	12385.0	12434.6	13205.6	13706.7	13530.5	13194.5	13178.0	13431.3	13954.5	14075.6	13051.4
20°	13816.8	13932.5	14499.7	14472.1	13480.9	12803.5	12616.3	12809.1	14026.1	14714.4	14527.2
22.5°	15744.2	15903.9	16300.4	15540.5	13706.7	12539.2	12478.6	12853.1	14499.7	16140.7	16201.3
25°	17980.0	18249.9	18442.6	17467.9	14510.7	12996.3	12709.9	13354.2	15138.5	17688.2	18332.5
27.5°	19461.4	19742.2	19698.2	18304.9	15050.4	13117.4	12875.1	13475.4	15694.7	18057.1	19444.9
30°	20617.8	20788.6	21096.9	18756.5	15590.0	13458.9	13045.9	13987.5	15876.4	18695.9	20788.6
32.5°	21967.0	22082.7	22104.7	19555.0	16421.6	13888.4	13574.5	14626.3	16680.4	19307.2	21978.0
35°	23327.2	23498.0	23140.0	20540.7	16933.7	14686.9	14455.6	15733.2	17324.7	19940.5	23288.7
37.5°	24803.1	24891.2	24065.2	20948.3	17666.1	15986.5	15859.9	16928.2	18442.6	21085.9	24742.5
40°	26042.1	26124.7	25050.9	21449.4	18437.1	17803.8	18128.7	19208.1	19962.5	21829.4	25469.4
42.5°	26730.5	26923.2	25381.3	21174.0	19984.5	19863.4	21306.2	21686.2	21724.7	22038.6	26119.2
45°	26917.7	26829.6	24836.1	21399.8	21339.2	23250.1	24560.8	25061.9	23475.9	22424.1	26284.4
47.5°	26053.2	26168.8	24032.1	21201.6	23118.0	25816.4	27512.5	28443.2	24781.1	22088.2	25876.9
50°	25353.8	25205.1	23773.3	21058.4	23597.1	27027.9	29643.7	29852.9	25981.6	22501.2	25430.9
52.5°	25491.5	25585.1	24186.3	21438.4	23608.1	27099.5	29974.1	29830.9	26020.1	22407.6	25271.2
55°	25783.3	25370.3	24010.1	20601.3	22027.6	25100.5	26603.8	26383.6	24015.6	21410.8	24880.2
57.5°	22247.9	22886.7	22077.2	18393.1	18079.2	18910.7	18883.2	19560.5	17914.0	18426.1	22649.9
60°	18057.1	18167.3	18470.2	15733.2	12511.7	12225.3	11828.8	11399.3	12054.6	15755.2	20601.3
62.5°	15881.9	15749.7	16829.1	14312.4	8833.1	7395.8	7329.7	7594.0	9301.2	15028.3	19323.7
65°	11542.5	11707.7	12489.7	11107.4	6630.3	5644.6	5545.5	6327.4	7527.9	12043.6	14747.5
67.5°	7048.8	7368.2	7439.8	6850.6	4499.1	3574.0	3430.8	4141.2	5435.3	7792.3	8645.8
70°	3254.6	3640.1	4003.5	3739.2	2604.8	1470.3	1387.7	1740.2	2742.4	4482.6	4587.2
72.5°	985.7	991.2	1387.7	1448.3	842.6	330.4	291.9	385.5	930.7	1481.4	1558.5
75°	71.6	77.1	187.2	214.8	159.7	82.6	88.1	104.6	198.2	330.4	247.8
77.5°	5.5	5.5	5.5	27.5	49.6	55.1	71.6	82.6	104.6	121.2	110.1
80°	5.5	0.0	5.5	22.0	38.5	55.1	66.1	77.1	82.6	93.6	82.6
82.5°	0.0	0.0	0.0	16.5	38.5	55.1	60.6	82.6	93.6	110.1	93.6
85°	0.0	0.0	0.0	16.5	38.5	60.6	55.1	27.5	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: P534189

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8
2.5°	15011.8	14797.0	14306.9	14059.1	13475.4	13392.8	12820.1	12726.5	12533.7	12429.1	12175.8
5°	13734.2	13475.4	12676.9	12005.0	11223.1	10677.9	10259.4	9879.4	9659.1	9455.4	9549.0
7.5°	12693.4	11939.0	11052.4	9928.9	9025.8	8442.1	7803.3	7280.1	6971.7	6762.5	6812.0
10°	11603.0	11112.9	9879.4	8618.3	7527.9	7114.9	6613.8	6211.8	5776.7	5402.3	5226.1
12.5°	11261.6	10534.7	8987.3	7704.2	6878.1	6476.1	5903.4	5440.8	4884.6	4427.5	4267.8
15°	11322.2	10622.8	8745.0	7373.7	6399.0	5705.2	5022.3	4449.6	3838.3	3518.9	3353.7
17.5°	12307.9	11096.4	8904.7	7026.8	5732.7	4769.0	3926.4	3199.5	2742.4	2412.0	2340.4
20°	13519.4	12120.7	9246.1	6773.5	5187.5	3794.3	2869.1	2241.3	1861.3	1806.3	1789.7
22.5°	15292.7	13794.8	9978.5	6602.8	4521.2	2957.2	1966.0	1630.0	1525.4	1514.4	1519.9
25°	17770.8	15892.9	10777.0	6459.6	4020.0	2279.9	1608.0	1382.2	1349.2	1332.7	1360.2
27.5°	18844.6	17159.5	11201.0	6151.2	3563.0	2054.1	1586.0	1371.2	1277.6	1250.1	1266.6
30°	20171.8	18002.1	11867.4	5622.5	2891.1	1690.6	1481.4	1492.4	1448.3	1310.6	1266.6
32.5°	21934.0	19053.9	12203.3	5248.1	2582.7	1398.8	1084.9	996.7	1112.4	1134.4	1173.0
35°	23062.9	20122.2	12374.0	5027.8	2423.0	1195.0	919.7	837.0	809.5	815.0	837.0
37.5°	25161.0	21565.0	12588.8	4796.5	2301.9	1040.8	831.5	754.4	715.9	715.9	737.9
40°	26416.6	22710.5	12880.6	4669.9	2180.7	947.2	754.4	688.4	655.3	655.3	666.3
42.5°	26730.5	23277.7	12781.5	4625.8	2043.1	925.2	688.4	638.8	600.3	594.7	589.2
45°	27292.2	24142.3	12798.0	4576.2	1899.9	842.6	649.8	594.7	539.7	534.2	528.7
47.5°	27909.0	24764.5	12831.1	4383.5	1762.2	704.9	677.3	550.7	484.6	473.6	473.6
50°	27380.3	25260.2	13117.4	4190.8	1586.0	572.7	666.3	517.6	429.5	413.0	418.5
52.5°	27446.4	25843.9	13723.2	3920.9	1365.7	457.1	539.7	490.1	391.0	363.5	369.0
55°	26389.1	25227.1	13805.8	3634.6	1068.3	352.4	413.0	429.5	330.4	319.4	319.4
57.5°	22716.0	21361.3	12181.3	2946.2	704.9	291.9	297.4	374.5	286.4	275.3	280.9
60°	19439.4	17148.5	9802.3	1943.9	440.6	231.3	214.8	380.0	253.3	247.8	264.3
62.5°	17721.2	14092.2	7434.3	1206.0	302.9	176.2	148.7	308.4	220.3	220.3	242.3
65°	12803.5	9466.4	4322.9	633.3	214.8	137.7	110.1	176.2	181.7	187.2	198.2
67.5°	7929.9	4780.0	1822.8	308.4	143.2	93.6	71.6	110.1	121.2	121.2	132.2
70°	3915.4	1905.4	605.8	176.2	110.1	77.1	49.6	60.6	60.6	55.1	60.6
72.5°	1211.5	572.7	154.2	110.1	77.1	49.6	27.5	22.0	11.0	0.0	5.5
75°	137.7	110.1	99.1	77.1	49.6	22.0	5.5	0.0	0.0	0.0	0.0
77.5°	82.6	93.6	93.6	77.1	49.6	16.5	0.0	0.0	0.0	0.0	0.0
80°	66.1	71.6	77.1	71.6	44.1	22.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.6	93.6	104.6	93.6	60.6	27.5	11.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	16.5	5.5	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: P534189

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8
2.5°	12071.1	11950.0	12120.7	11867.4	11861.9	11867.4	11795.8	11729.7	11834.3	12115.2	12142.7
5°	9213.0	9471.9	9554.5	9824.3	9675.6	9455.4	9499.4	9350.7	9714.2	9873.9	9747.2
7.5°	6707.4	6690.9	7247.1	7280.1	7351.7	7357.2	7346.2	7054.3	6757.0	6823.1	7021.3
10°	5204.0	4923.2	5193.0	5165.5	5341.7	5292.1	5363.7	5049.8	5154.5	5154.5	5281.1
12.5°	4240.3	3942.9	3893.4	3821.8	3893.4	3920.9	3948.4	3887.9	4064.1	4146.7	4234.8
15°	3238.1	3072.9	3028.8	2891.1	2913.2	2990.2	3056.3	3083.9	3028.8	3155.5	3166.5
17.5°	2351.4	2345.9	2373.5	2368.0	2345.9	2329.4	2323.9	2252.3	2230.3	2241.3	2285.4
20°	1784.2	1828.3	1921.9	2015.5	2065.1	2004.5	1921.9	1800.8	1751.2	1762.2	1767.7
22.5°	1525.4	1591.5	1718.2	1822.8	1872.3	1762.2	1613.5	1508.9	1486.9	1481.4	1475.8
25°	1382.2	1459.3	1552.9	1586.0	1580.5	1514.4	1404.3	1360.2	1349.2	1338.2	1288.6
27.5°	1305.1	1332.7	1349.2	1387.7	1404.3	1360.2	1332.7	1266.6	1255.6	1255.6	1222.5
30°	1261.1	1244.6	1266.6	1239.1	1261.1	1228.0	1233.5	1233.5	1206.0	1217.0	1217.0
32.5°	1173.0	1178.5	1178.5	1123.4	1139.9	1101.4	1139.9	1173.0	1178.5	1184.0	1228.0
35°	859.1	958.2	1007.8	1007.8	1024.3	996.7	991.2	952.7	903.1	853.6	831.5
37.5°	754.4	793.0	859.1	897.6	925.2	903.1	853.6	793.0	765.5	743.4	721.4
40°	671.8	704.9	748.9	793.0	848.1	820.5	743.4	715.9	682.9	682.9	660.8
42.5°	605.8	622.3	649.8	715.9	776.5	721.4	666.3	644.3	627.8	622.3	616.8
45°	545.2	550.7	578.2	633.3	704.9	649.8	594.7	567.2	572.7	578.2	572.7
47.5°	490.1	501.1	517.6	583.7	627.8	600.3	539.7	523.2	523.2	523.2	528.7
50°	424.0	451.6	484.6	539.7	572.7	556.2	506.6	484.6	473.6	473.6	479.1
52.5°	380.0	402.0	446.1	512.1	556.2	528.7	479.1	446.1	424.0	418.5	429.5
55°	330.4	369.0	440.6	490.1	550.7	523.2	468.1	429.5	391.0	385.5	385.5
57.5°	297.4	357.9	424.0	484.6	534.2	512.1	468.1	418.5	369.0	363.5	363.5
60°	280.9	346.9	413.0	468.1	534.2	501.1	462.6	407.5	352.4	352.4	346.9
62.5°	264.3	324.9	391.0	446.1	512.1	484.6	446.1	391.0	335.9	335.9	324.9
65°	220.3	280.9	324.9	374.5	446.1	418.5	380.0	341.4	297.4	286.4	291.9
67.5°	154.2	192.7	236.8	286.4	330.4	319.4	302.9	275.3	236.8	231.3	225.8
70°	77.1	104.6	143.2	192.7	231.3	220.3	209.3	187.2	165.2	159.7	159.7
72.5°	11.0	33.0	60.6	88.1	121.2	126.7	121.2	115.6	110.1	104.6	110.1
75°	0.0	0.0	0.0	22.0	49.6	60.6	71.6	82.6	82.6	71.6	88.1
77.5°	0.0	0.0	0.0	0.0	5.5	27.5	55.1	71.6	88.1	77.1	104.6
80°	0.0	0.0	0.0	0.0	5.5	33.0	55.1	77.1	88.1	77.1	110.1
82.5°	0.0	0.0	0.0	0.0	5.5	38.5	55.1	71.6	82.6	77.1	99.1
85°	0.0	0.0	0.0	0.0	16.5	33.0	22.0	11.0	5.5	5.5	16.5
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: P534189

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8	14196.8
2.5°	12296.9	12687.9	13106.4	13266.1	13761.7	14136.2	14389.5	14934.7	15017.3	15022.8
5°	9879.4	10077.6	10793.5	11129.4	11867.4	12440.1	13051.4	13932.5	14521.7	14565.8
7.5°	7021.3	7572.0	7874.9	8750.5	9659.1	10556.7	11465.4	12489.7	13172.5	13189.0
10°	5650.1	6008.0	6547.7	7203.0	7968.5	8882.6	10094.2	11283.6	11977.5	12148.2
12.5°	4548.7	5176.5	5793.3	6470.6	7054.3	7742.7	9047.8	10633.8	11206.5	11548.0
15°	3502.4	4075.1	4802.0	5595.0	6255.8	7175.5	8662.4	10474.1	11437.8	11553.5
17.5°	2582.7	3094.9	3766.7	4515.7	5506.9	6812.0	8728.4	11283.6	12192.3	12385.0
20°	1855.8	2153.2	2681.9	3552.0	4813.0	6388.0	8794.5	12104.2	13486.4	13816.8
22.5°	1470.3	1591.5	1938.4	2709.4	4036.6	5941.9	9262.6	13673.6	15265.1	15744.2
25°	1277.6	1343.7	1508.9	2136.7	3546.4	5897.9	10011.5	15557.0	17633.1	17980.0
27.5°	1233.5	1244.6	1387.7	1960.5	3282.1	5606.0	10297.9	16895.2	19109.0	19461.4
30°	1299.6	1475.8	1486.9	1657.6	2792.0	5027.8	10446.6	18189.3	20359.0	20617.8
32.5°	1123.4	1068.3	1106.9	1283.1	2456.1	4691.9	10727.4	19318.2	21785.3	21967.0
35°	782.0	820.5	908.6	1112.4	2147.7	4339.4	10799.0	20562.8	23140.0	23327.2
37.5°	721.4	743.4	815.0	947.2	1888.9	4141.2	10699.9	21471.4	24544.3	24803.1
40°	671.8	699.4	737.9	859.1	1696.1	3920.9	10562.2	22291.9	25403.3	26042.1
42.5°	633.3	655.3	688.4	820.5	1530.9	3700.6	10369.5	23448.4	26174.3	26730.5
45°	589.2	622.3	660.8	798.5	1437.3	3552.0	10226.3	23376.8	26620.4	26917.7
47.5°	545.2	600.3	644.3	743.4	1409.8	3480.4	10286.9	23107.0	26256.9	26053.2
50°	501.1	572.7	649.8	616.8	1343.7	3337.2	10358.5	23475.9	25392.3	25353.8
52.5°	462.6	545.2	605.8	506.6	1195.0	3199.5	11052.4	23960.5	26003.6	25491.5
55°	407.5	490.1	484.6	407.5	969.2	3094.9	11597.5	23971.5	25590.6	25783.3
57.5°	369.0	435.0	380.0	341.4	715.9	2588.2	10710.9	20100.2	21906.5	22247.9
60°	341.4	424.0	286.4	269.8	468.1	1866.8	9350.7	15568.0	17412.8	18057.1
62.5°	313.9	402.0	225.8	220.3	324.9	1327.2	7687.6	13029.3	15006.3	15881.9
65°	275.3	286.4	181.7	170.7	231.3	715.9	4680.9	8970.7	11217.6	11542.5
67.5°	225.8	220.3	148.7	137.7	154.2	346.9	2065.1	4493.6	6503.7	7048.8
70°	181.7	181.7	126.7	110.1	110.1	159.7	539.7	1789.7	2940.7	3254.6
72.5°	132.2	137.7	99.1	88.1	82.6	77.1	88.1	357.9	771.0	985.7
75°	115.6	121.2	99.1	77.1	60.6	49.6	38.5	33.0	44.1	71.6
77.5°	126.7	126.7	104.6	71.6	55.1	38.5	22.0	11.0	11.0	5.5
80°	159.7	165.2	137.7	93.6	66.1	44.1	27.5	11.0	5.5	5.5
82.5°	170.7	187.2	154.2	115.6	82.6	49.6	27.5	5.5	0.0	0.0
85°	44.1	71.6	121.2	104.6	82.6	49.6	27.5	5.5	0.0	0.0
87.5°	0.0	5.5	16.5	16.5	22.0	22.0	16.5	5.5	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)