

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: P533955

Luminaire Tested: **GALN-SA9B-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533955
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-SA9B-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 22662 lumens
Efficiency: N/A
Efficacy: 62.3 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): 364
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



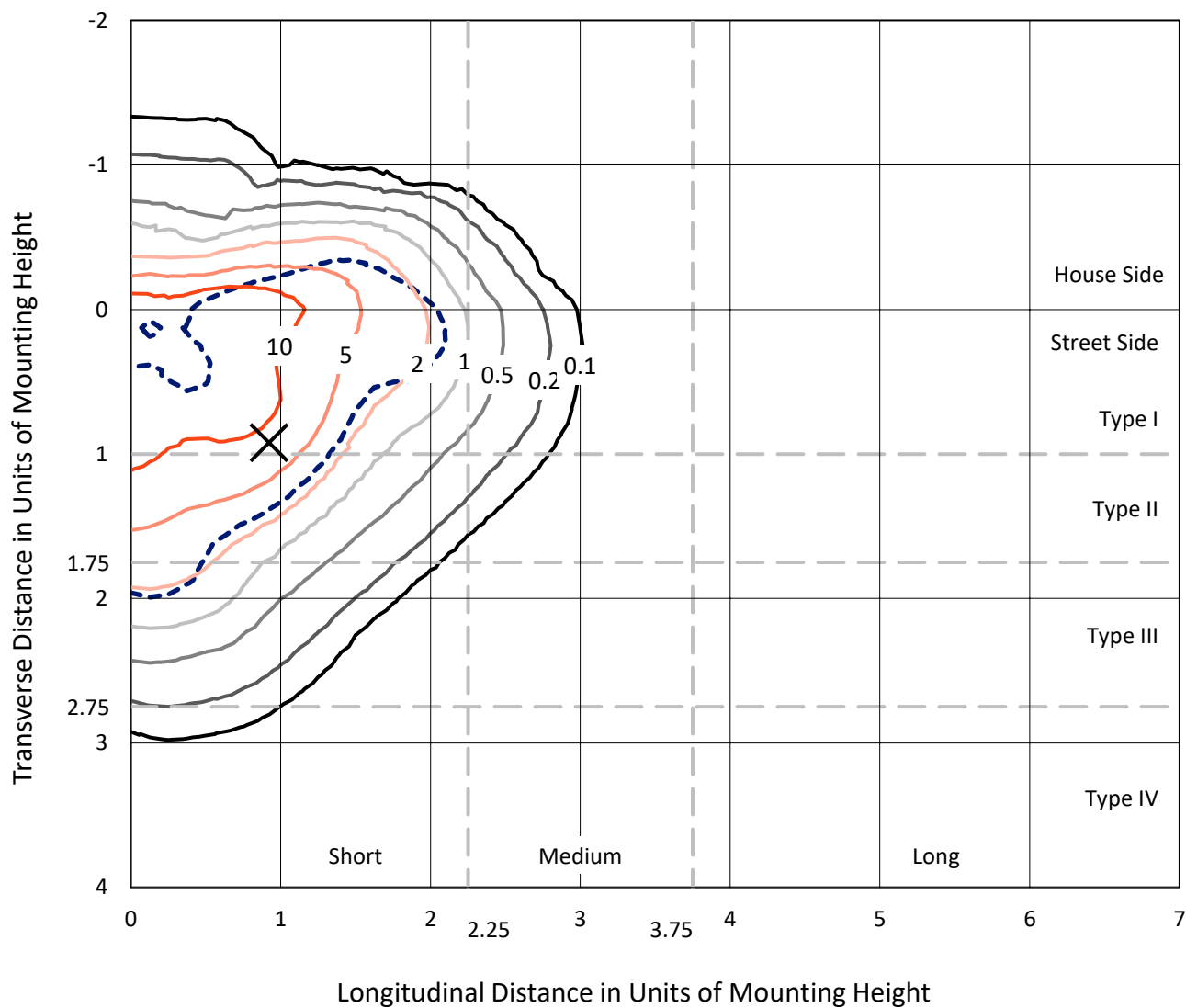
REPORT NUMBER: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

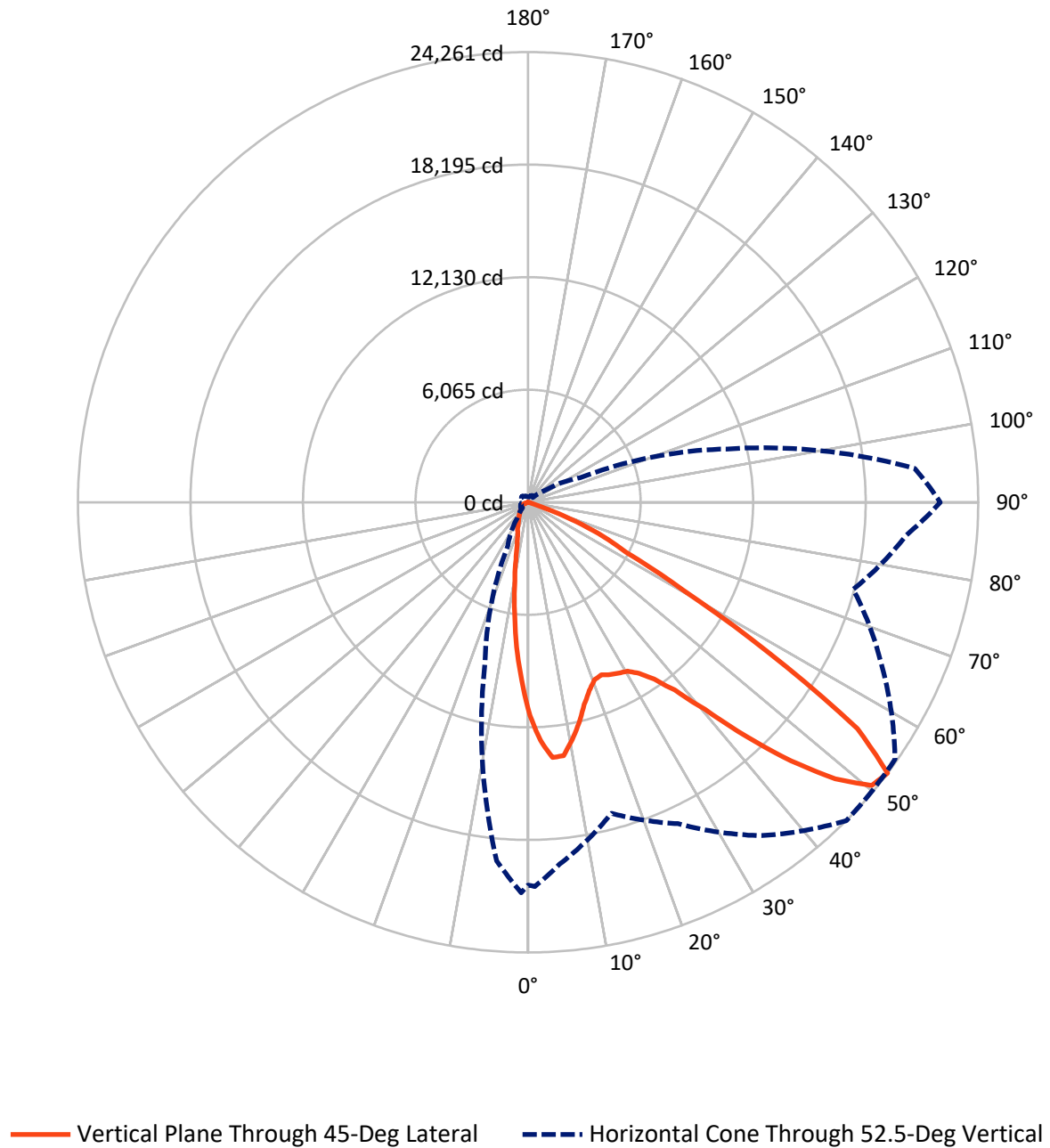
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Short - N/A

REPORT NUMBER: P533955
CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

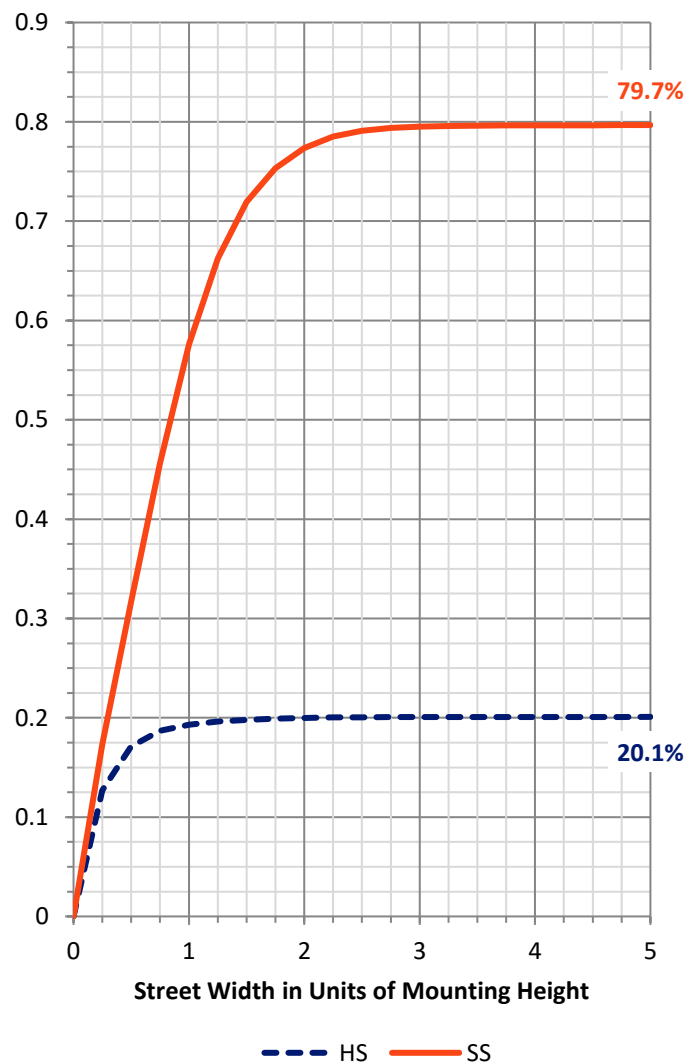
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4599.2	0.0	4599.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18062.7	0.0	18062.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	22662.0	0.0	22662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.0	3.7
10°-20°	1653.3	7.3
20°-30°	2516.1	11.1
30°-40°	3760.6	16.6
40°-50°	5355.5	23.6
50°-60°	5757.0	25.4
60°-70°	2551.0	11.3
70°-80°	206.4	0.9
80°-90°	24.1	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°	22662.0	100.0
0°-180°	22662.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533955

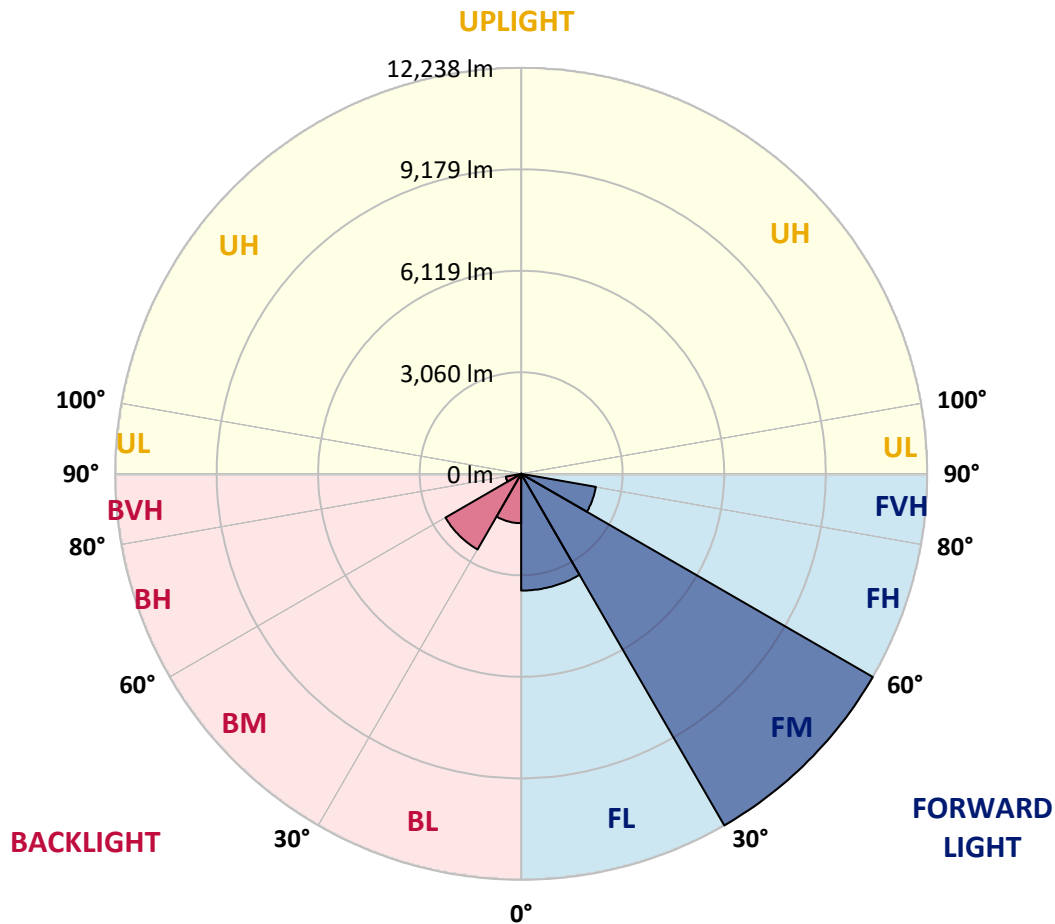
CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3519.9	15.5			
FM	(30°-60°)	12238.2	54.0			
FH	(60°-80°)	2286.9	10.1			G2/5000
FVH	(80°-90°)	17.8	0.1			G1/100
BL	(0°-30°)	1487.6	6.6	B3/2500		
BM	(30°-60°)	2634.9	11.6	B3/5000		
BH	(60°-80°)	470.6	2.1	B1/500		G1/500
BVH	(80°-90°)	6.2	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: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7
2.5°	12159.3	12194.9	12391.0	12636.2	12765.4	13059.6	12854.6	12908.1	12796.6	12404.4	12096.9
5°	11789.3	11784.9	12034.5	12640.6	13215.6	13799.5	13817.4	13505.3	12957.1	12355.4	11495.1
7.5°	10675.0	10848.8	11107.4	12074.6	13139.9	13576.7	13786.2	13420.7	12578.2	11718.0	10786.4
10°	9832.6	9921.7	10358.6	11526.3	12306.4	12890.3	13019.5	12810.0	12163.7	11089.5	10046.6
12.5°	9346.8	9391.3	9903.9	10884.5	11709.1	12141.4	12203.8	12301.9	11838.3	10831.0	9578.5
15°	9351.2	9386.9	10077.8	10897.9	11223.3	11107.4	11312.4	11307.9	11508.5	10782.0	9970.8
17.5°	10024.3	10064.4	10688.4	11094.0	10951.4	10679.5	10666.1	10871.1	11294.6	11392.6	10563.6
20°	11183.1	11276.7	11735.8	11713.5	10911.3	10363.0	10211.5	10367.5	11352.5	11909.7	11758.1
22.5°	12743.2	12872.4	13193.3	12578.2	11094.0	10149.1	10100.0	10403.1	11735.8	13064.1	13113.1
25°	14552.8	14771.2	14927.2	14138.3	11744.7	10519.0	10287.2	10808.7	12252.9	14316.6	14838.1
27.5°	15751.8	15979.1	15943.4	14815.8	12181.6	10617.1	10421.0	10906.8	12703.0	14615.2	15738.4
30°	16687.8	16826.0	17075.6	15181.3	12618.4	10893.4	10559.1	11321.3	12850.1	15132.2	16826.0
32.5°	17779.8	17873.4	17891.2	15827.6	13291.4	11241.1	10987.0	11838.3	13500.9	15627.0	17788.7
35°	18880.7	19018.9	18729.2	16625.4	13705.9	11887.4	11700.2	12734.2	14022.4	16139.6	18849.5
37.5°	20075.3	20146.6	19478.0	16955.2	14298.7	12939.3	12836.8	13701.5	14927.2	17066.7	20026.2
40°	21078.1	21145.0	20275.8	17360.8	14922.7	14410.2	14673.1	15546.7	16157.4	17668.4	20614.6
42.5°	21635.3	21791.3	20543.3	17138.0	16175.2	16077.2	17244.9	17552.5	17583.7	17837.8	21140.5
45°	21786.8	21715.5	20102.0	17320.7	17271.7	18818.3	19879.2	20284.8	19001.1	18149.8	21274.3
47.5°	21087.1	21180.7	19451.3	17160.3	18711.4	20895.4	22268.2	23021.5	20057.4	17877.9	20944.4
50°	20521.0	20400.7	19241.8	17044.4	19099.1	21876.0	23993.2	24162.5	21029.1	18212.2	20583.4
52.5°	20632.4	20708.2	19576.1	17351.9	19108.1	21933.9	24260.6	24144.7	21060.3	18136.4	20454.1
55°	20868.7	20534.4	19433.4	16674.4	17828.8	20316.0	21532.8	21354.5	19437.9	17329.6	20137.7
57.5°	18007.1	18524.2	17869.0	14887.1	14633.0	15306.1	15283.8	15832.0	14499.3	14913.8	18332.5
60°	14615.2	14704.3	14949.5	12734.2	10126.8	9895.0	9574.1	9226.4	9756.8	12752.1	16674.4
62.5°	12854.6	12747.6	13621.2	11584.3	7149.4	5986.0	5932.5	6146.5	7528.2	12163.7	15640.3
65°	9342.3	9476.0	10109.0	8990.2	5366.5	4568.6	4488.4	5121.3	6093.0	9747.9	11936.4
67.5°	5705.2	5963.7	6021.7	5544.8	3641.5	2892.7	2776.8	3351.8	4399.3	6307.0	6997.8
70°	2634.2	2946.2	3240.4	3026.4	2108.3	1190.1	1123.2	1408.5	2219.7	3628.2	3712.9
72.5°	797.8	802.3	1123.2	1172.2	682.0	267.4	236.2	312.0	753.3	1199.0	1261.4
75°	57.9	62.4	151.5	173.8	129.3	66.9	71.3	84.7	160.5	267.4	200.6
77.5°	4.5	4.5	4.5	22.3	40.1	44.6	57.9	66.9	84.7	98.1	89.1
80°	4.5	0.0	4.5	17.8	31.2	44.6	53.5	62.4	66.9	75.8	66.9
82.5°	0.0	0.0	0.0	13.4	31.2	44.6	49.0	66.9	75.8	89.1	75.8
85°	0.0	0.0	0.0	13.4	31.2	49.0	44.6	22.3	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: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7
2.5°	12150.4	11976.5	11579.8	11379.3	10906.8	10839.9	10376.4	10300.6	10144.6	10059.9	9854.9
5°	11116.3	10906.8	10260.5	9716.7	9083.8	8642.5	8303.8	7996.2	7817.9	7653.0	7728.8
7.5°	10273.9	9663.2	8945.6	8036.3	7305.4	6832.9	6315.9	5892.4	5642.8	5473.5	5513.6
10°	9391.3	8994.6	7996.2	6975.5	6093.0	5758.7	5353.1	5027.7	4675.6	4372.5	4229.9
12.5°	9115.0	8526.6	7274.2	6235.6	5567.1	5241.7	4778.1	4403.7	3953.5	3583.6	3454.3
15°	9164.0	8598.0	7078.0	5968.2	5179.3	4617.7	4065.0	3601.4	3106.7	2848.2	2714.4
17.5°	9961.9	8981.3	7207.3	5687.4	4640.0	3859.9	3178.0	2589.6	2219.7	1952.3	1894.3
20°	10942.5	9810.3	7483.7	5482.4	4198.7	3071.0	2322.2	1814.1	1506.5	1462.0	1448.6
22.5°	12377.7	11165.3	8076.5	5344.2	3659.4	2393.5	1591.2	1319.3	1234.6	1225.7	1230.2
25°	14383.4	12863.5	8722.8	5228.3	3253.8	1845.3	1301.5	1118.8	1092.0	1078.6	1100.9
27.5°	15252.6	13888.7	9066.0	4978.7	2883.8	1662.5	1283.7	1109.8	1034.1	1011.8	1025.2
30°	16326.8	14570.6	9605.3	4550.8	2340.0	1368.4	1199.0	1207.9	1172.2	1060.8	1025.2
32.5°	17753.1	15421.9	9877.2	4247.7	2090.4	1132.1	878.1	806.8	900.4	918.2	949.4
35°	18666.8	16286.6	10015.4	4069.4	1961.2	967.2	744.4	677.5	655.2	659.7	677.5
37.5°	20365.0	17454.4	10189.2	3882.2	1863.1	842.4	673.0	610.6	579.4	579.4	597.3
40°	21381.2	18381.5	10425.4	3779.7	1765.1	766.6	610.6	557.2	530.4	530.4	539.3
42.5°	21635.3	18840.6	10345.2	3744.1	1653.6	748.8	557.2	517.0	485.8	481.4	476.9
45°	22089.9	19540.4	10358.6	3703.9	1537.7	682.0	526.0	481.4	436.8	432.3	427.9
47.5°	22589.1	20044.1	10385.3	3547.9	1426.3	570.5	548.2	445.7	392.2	383.3	383.3
50°	22161.2	20445.2	10617.1	3391.9	1283.7	463.5	539.3	419.0	347.7	334.3	338.7
52.5°	22214.7	20917.7	11107.4	3173.5	1105.4	369.9	436.8	396.7	316.5	294.2	298.6
55°	21359.0	20418.5	11174.2	2941.8	864.7	285.3	334.3	347.7	267.4	258.5	258.5
57.5°	18386.0	17289.5	9859.3	2384.6	570.5	236.2	240.7	303.1	231.8	222.9	227.3
60°	15734.0	13879.8	7933.8	1573.4	356.6	187.2	173.8	307.5	205.0	200.6	213.9
62.5°	14343.3	11406.0	6017.2	976.1	245.1	142.6	120.3	249.6	178.3	178.3	196.1
65°	10363.0	7661.9	3498.9	512.6	173.8	111.4	89.1	142.6	147.1	151.5	160.5
67.5°	6418.4	3868.9	1475.3	249.6	115.9	75.8	57.9	89.1	98.1	98.1	107.0
70°	3169.1	1542.2	490.3	142.6	89.1	62.4	40.1	49.0	49.0	44.6	49.0
72.5°	980.6	463.5	124.8	89.1	62.4	40.1	22.3	17.8	8.9	0.0	4.5
75°	111.4	89.1	80.2	62.4	40.1	17.8	4.5	0.0	0.0	0.0	0.0
77.5°	66.9	75.8	75.8	62.4	40.1	13.4	0.0	0.0	0.0	0.0	0.0
80°	53.5	57.9	62.4	57.9	35.7	17.8	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	75.8	84.7	75.8	49.0	22.3	8.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.4	4.5	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: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7
2.5°	9770.2	9672.1	9810.3	9605.3	9600.8	9605.3	9547.3	9493.9	9578.5	9805.9	9828.1
5°	7456.9	7666.4	7733.3	7951.7	7831.3	7653.0	7688.7	7568.3	7862.5	7991.8	7889.3
7.5°	5428.9	5415.5	5865.7	5892.4	5950.4	5954.8	5945.9	5709.7	5469.0	5522.5	5682.9
10°	4212.1	3984.7	4203.1	4180.9	4323.5	4283.4	4341.3	4087.3	4171.9	4171.9	4274.5
12.5°	3432.1	3191.4	3151.2	3093.3	3151.2	3173.5	3195.8	3146.8	3289.4	3356.3	3427.6
15°	2620.8	2487.1	2451.5	2340.0	2357.9	2420.3	2473.8	2496.0	2451.5	2554.0	2562.9
17.5°	1903.2	1898.8	1921.1	1916.6	1898.8	1885.4	1880.9	1823.0	1805.2	1814.1	1849.7
20°	1444.1	1479.8	1555.6	1631.3	1671.5	1622.4	1555.6	1457.5	1417.4	1426.3	1430.8
22.5°	1234.6	1288.1	1390.6	1475.3	1515.5	1426.3	1306.0	1221.3	1203.4	1199.0	1194.5
25°	1118.8	1181.2	1256.9	1283.7	1279.2	1225.7	1136.6	1100.9	1092.0	1083.1	1043.0
27.5°	1056.4	1078.6	1092.0	1123.2	1136.6	1100.9	1078.6	1025.2	1016.2	1016.2	989.5
30°	1020.7	1007.3	1025.2	1002.9	1020.7	994.0	998.4	998.4	976.1	985.0	985.0
32.5°	949.4	953.8	953.8	909.3	922.6	891.4	922.6	949.4	953.8	958.3	994.0
35°	695.3	775.6	815.7	815.7	829.0	806.8	802.3	771.1	731.0	690.9	673.0
37.5°	610.6	641.8	695.3	726.5	748.8	731.0	690.9	641.8	619.6	601.7	583.9
40°	543.8	570.5	606.2	641.8	686.4	664.1	601.7	579.4	552.7	552.7	534.9
42.5°	490.3	503.7	526.0	579.4	628.5	583.9	539.3	521.5	508.1	503.7	499.2
45°	441.3	445.7	468.0	512.6	570.5	526.0	481.4	459.1	463.5	468.0	463.5
47.5°	396.7	405.6	419.0	472.5	508.1	485.8	436.8	423.4	423.4	423.4	427.9
50°	343.2	365.5	392.2	436.8	463.5	450.2	410.1	392.2	383.3	383.3	387.8
52.5°	307.5	325.4	361.0	414.5	450.2	427.9	387.8	361.0	343.2	338.7	347.7
55°	267.4	298.6	356.6	396.7	445.7	423.4	378.9	347.7	316.5	312.0	312.0
57.5°	240.7	289.7	343.2	392.2	432.3	414.5	378.9	338.7	298.6	294.2	294.2
60°	227.3	280.8	334.3	378.9	432.3	405.6	374.4	329.8	285.3	285.3	280.8
62.5°	213.9	263.0	316.5	361.0	414.5	392.2	361.0	316.5	271.9	271.9	263.0
65°	178.3	227.3	263.0	303.1	361.0	338.7	307.5	276.3	240.7	231.8	236.2
67.5°	124.8	156.0	191.7	231.8	267.4	258.5	245.1	222.9	191.7	187.2	182.7
70°	62.4	84.7	115.9	156.0	187.2	178.3	169.4	151.5	133.7	129.3	129.3
72.5°	8.9	26.7	49.0	71.3	98.1	102.5	98.1	93.6	89.1	84.7	89.1
75°	0.0	0.0	0.0	17.8	40.1	49.0	57.9	66.9	66.9	57.9	71.3
77.5°	0.0	0.0	0.0	0.0	4.5	22.3	44.6	57.9	71.3	62.4	84.7
80°	0.0	0.0	0.0	0.0	4.5	26.7	44.6	62.4	71.3	62.4	89.1
82.5°	0.0	0.0	0.0	0.0	4.5	31.2	44.6	57.9	66.9	62.4	80.2
85°	0.0	0.0	0.0	0.0	13.4	26.7	17.8	8.9	4.5	4.5	13.4
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: P533955

CATALOG NUMBER: GALN-SA9B-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7	11490.7
2.5°	9952.9	10269.4	10608.2	10737.4	11138.6	11441.7	11646.7	12088.0	12154.8	12159.3
5°	7996.2	8156.7	8736.1	9008.0	9605.3	10068.8	10563.6	11276.7	11753.7	11789.3
7.5°	5682.9	6128.7	6373.8	7082.5	7817.9	8544.5	9279.9	10109.0	10661.6	10675.0
10°	4573.1	4862.8	5299.6	5830.0	6449.6	7189.5	8170.1	9132.8	9694.4	9832.6
12.5°	3681.7	4189.8	4689.0	5237.2	5709.7	6266.8	7323.2	8606.9	9070.4	9346.8
15°	2834.8	3298.3	3886.7	4528.5	5063.4	5807.7	7011.2	8477.6	9257.6	9351.2
17.5°	2090.4	2505.0	3048.7	3654.9	4457.2	5513.6	7064.7	9132.8	9868.3	10024.3
20°	1502.1	1742.8	2170.7	2874.9	3895.6	5170.4	7118.2	9796.9	10915.7	11183.1
22.5°	1190.1	1288.1	1568.9	2192.9	3267.1	4809.3	7497.0	11067.3	12355.4	12743.2
25°	1034.1	1087.6	1221.3	1729.4	2870.4	4773.7	8103.2	12591.6	14272.0	14552.8
27.5°	998.4	1007.3	1123.2	1586.8	2656.5	4537.4	8335.0	13674.7	15466.5	15751.8
30°	1051.9	1194.5	1203.4	1341.6	2259.8	4069.4	8455.3	14722.2	16478.3	16687.8
32.5°	909.3	864.7	895.9	1038.5	1987.9	3797.5	8682.6	15635.9	17632.7	17779.8
35°	632.9	664.1	735.4	900.4	1738.3	3512.3	8740.6	16643.2	18729.2	18880.7
37.5°	583.9	601.7	659.7	766.6	1528.8	3351.8	8660.4	17378.7	19865.8	20075.3
40°	543.8	566.1	597.3	695.3	1372.8	3173.5	8548.9	18042.8	20561.1	21078.1
42.5°	512.6	530.4	557.2	664.1	1239.1	2995.2	8392.9	18978.8	21185.1	21635.3
45°	476.9	503.7	534.9	646.3	1163.3	2874.9	8277.0	18920.9	21546.2	21786.8
47.5°	441.3	485.8	521.5	601.7	1141.0	2817.0	8326.1	18702.5	21252.0	21087.1
50°	405.6	463.5	526.0	499.2	1087.6	2701.1	8384.0	19001.1	20552.2	20521.0
52.5°	374.4	441.3	490.3	410.1	967.2	2589.6	8945.6	19393.3	21046.9	20632.4
55°	329.8	396.7	392.2	329.8	784.5	2505.0	9386.9	19402.2	20712.7	20868.7
57.5°	298.6	352.1	307.5	276.3	579.4	2094.9	8669.3	16268.8	17730.8	18007.1
60°	276.3	343.2	231.8	218.4	378.9	1511.0	7568.3	12600.5	14093.7	14615.2
62.5°	254.1	325.4	182.7	178.3	263.0	1074.2	6222.3	10545.8	12145.9	12854.6
65°	222.9	231.8	147.1	138.2	187.2	579.4	3788.6	7260.8	9079.3	9342.3
67.5°	182.7	178.3	120.3	111.4	124.8	280.8	1671.5	3637.1	5264.0	5705.2
70°	147.1	147.1	102.5	89.1	89.1	129.3	436.8	1448.6	2380.2	2634.2
72.5°	107.0	111.4	80.2	71.3	66.9	62.4	71.3	289.7	624.0	797.8
75°	93.6	98.1	80.2	62.4	49.0	40.1	31.2	26.7	35.7	57.9
77.5°	102.5	102.5	84.7	57.9	44.6	31.2	17.8	8.9	8.9	4.5
80°	129.3	133.7	111.4	75.8	53.5	35.7	22.3	8.9	4.5	4.5
82.5°	138.2	151.5	124.8	93.6	66.9	40.1	22.3	4.5	0.0	0.0
85°	35.7	57.9	98.1	84.7	66.9	40.1	22.3	4.5	0.0	0.0
87.5°	0.0	4.5	13.4	13.4	17.8	17.8	13.4	4.5	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)