

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: P450618

Luminaire Tested: **GALN-SA1B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4537 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



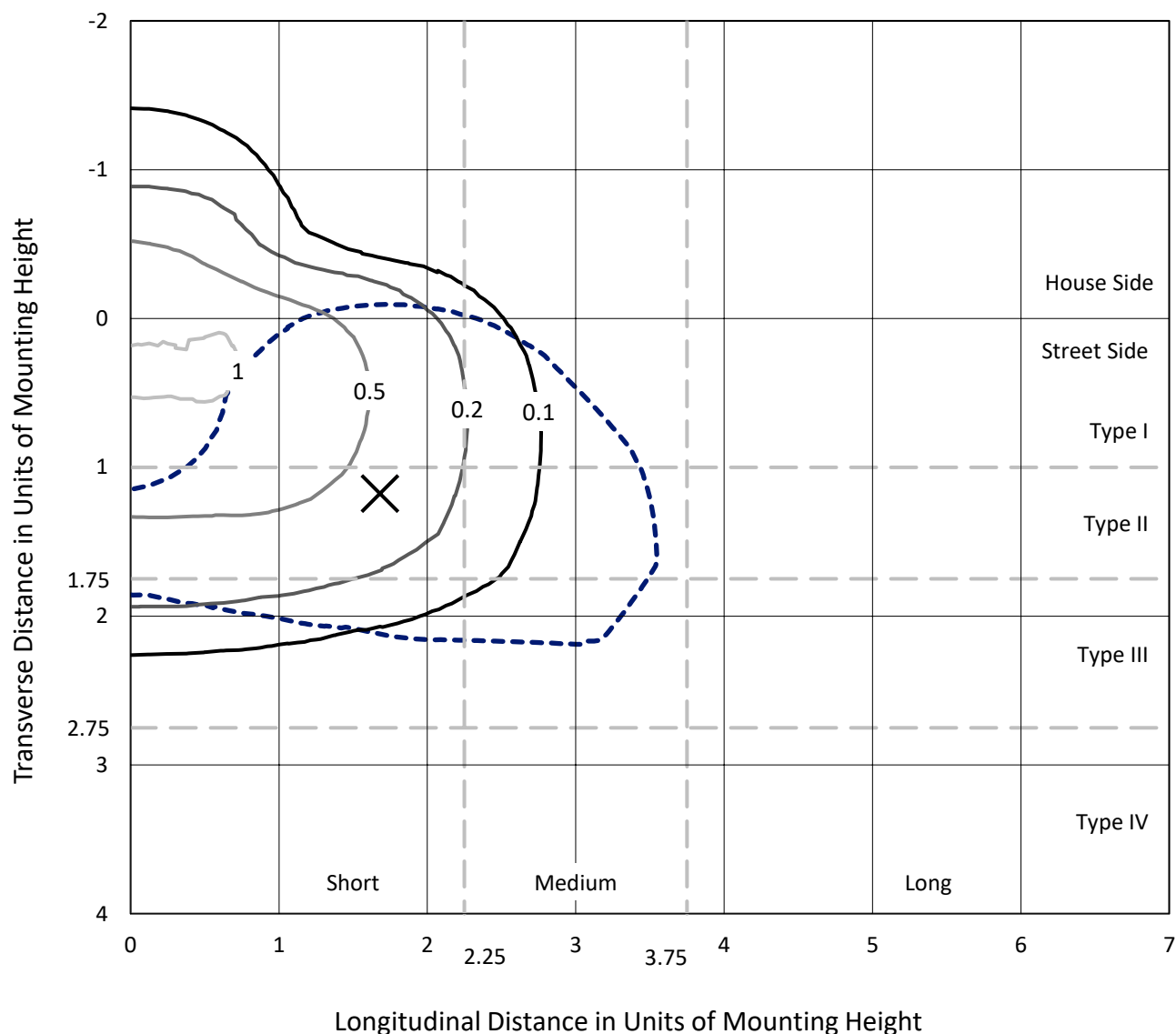
REPORT NUMBER: P450618

CATALOG NUMBER: GALN-SA1B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



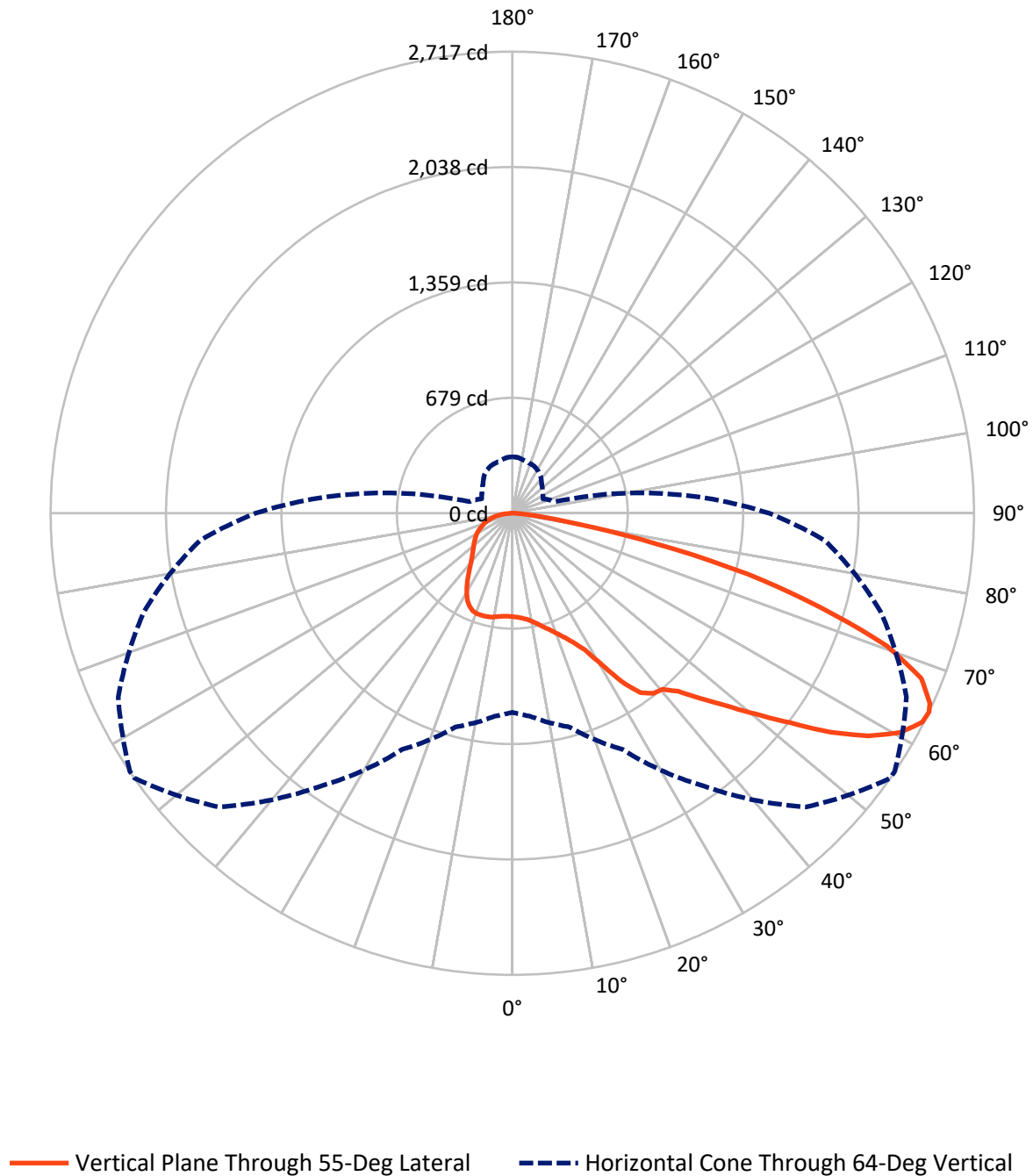
Based on 25 foot mounting height. Maximum calculated value = 1.1 fc

Type III - Short - N/A

REPORT NUMBER: P450618

CATALOG NUMBER: GALN-SA1B-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P450618

CATALOG NUMBER: GALN-SA1B-830-U-T3

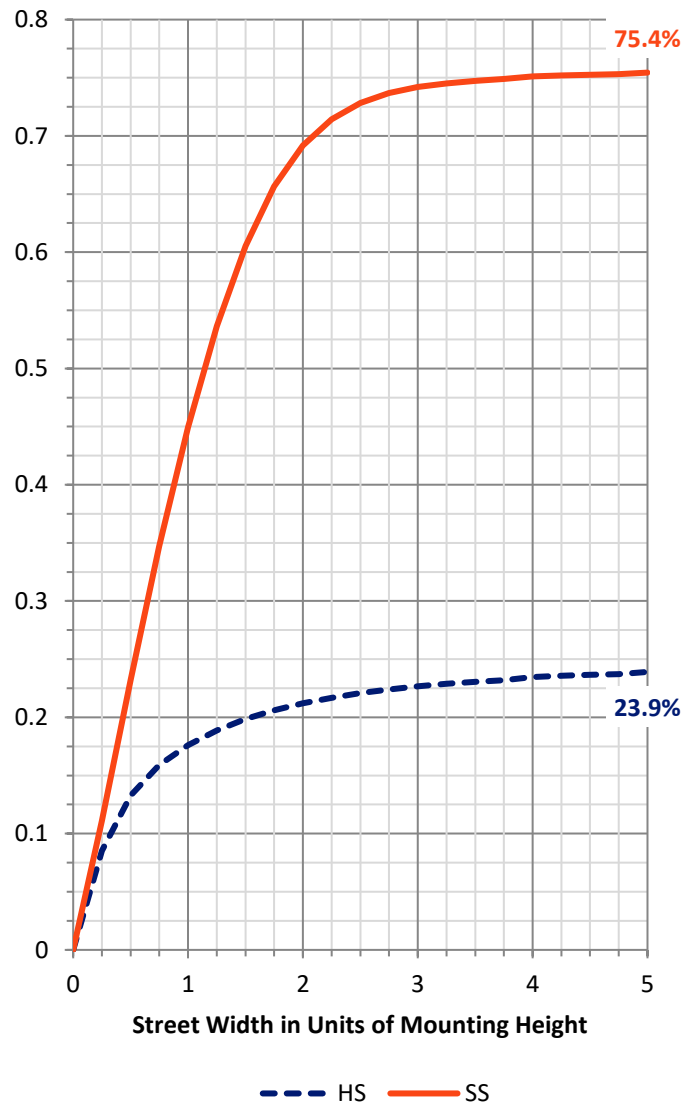
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.1	0.0	1102.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	3434.9	0.0	3434.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	4537.0	0.0	4537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.3
10°-20°	186.8	4.1
20°-30°	332.6	7.3
30°-40°	511.8	11.3
40°-50°	725.5	16.0
50°-60°	1050.1	23.1
60°-70°	1086.7	24.0
70°-80°	508.9	11.2
80°-90°	75.3	1.7
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°	4537.0	100.0
0°-180°	4537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450618

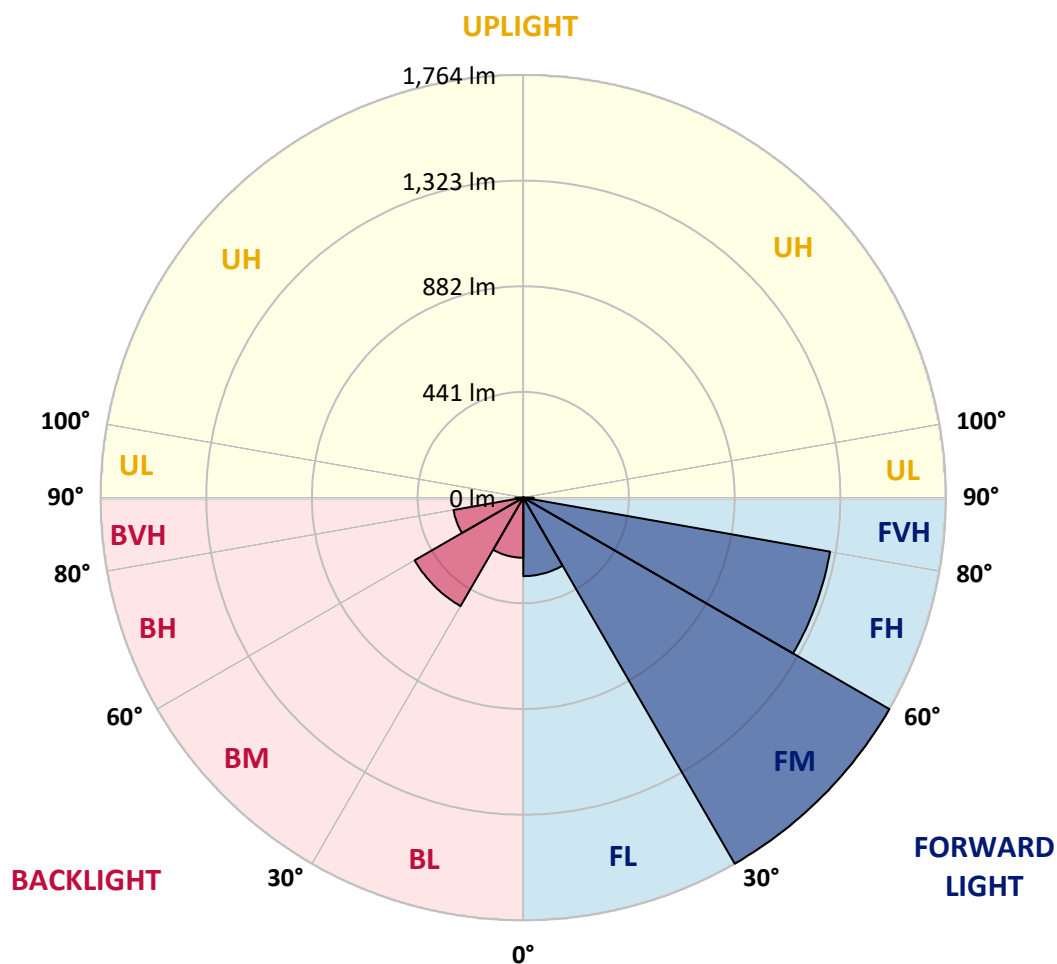
CATALOG NUMBER: GALN-SA1B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.6	7.2			
FM	(30°-60°)	1764.1	38.9			
FH	(60°-80°)	1300.0	28.7			G1/1800
FVH	(80°-90°)	43.1	1.0			G1/100
BL	(0°-30°)	251.0	5.5	B1/500		
BM	(30°-60°)	523.2	11.5	B1/1000		
BH	(60°-80°)	295.7	6.5	B1/500		G1/500
BVH	(80°-90°)	32.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P450618

CATALOG NUMBER: GALN-SA1B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7
2.5°	615.6	615.3	616.1	615.3	615.8	614.0	613.3	613.8	613.0	611.8	609.5
5°	623.1	622.9	623.1	622.1	622.6	621.6	619.9	620.4	619.1	616.3	613.0
7.5°	636.0	635.0	635.0	634.8	633.8	632.2	631.0	630.5	629.2	625.7	620.6
10°	652.7	652.7	653.0	651.0	652.2	649.4	648.2	647.9	643.6	639.1	632.0
12.5°	674.7	676.0	675.2	674.2	673.7	672.7	668.4	669.4	664.6	656.8	648.2
15°	702.0	704.1	702.8	702.3	701.0	697.2	695.5	694.7	688.4	677.0	665.6
17.5°	738.2	735.7	734.7	733.4	728.1	725.3	722.3	721.8	716.2	702.8	685.1
20°	769.8	773.4	771.3	770.1	764.8	759.5	757.2	756.4	751.6	736.9	708.6
22.5°	807.5	808.3	809.0	806.0	803.5	799.4	795.4	794.1	792.3	777.2	742.5
25°	847.7	850.8	848.2	845.2	842.2	841.9	845.7	845.2	844.4	829.8	787.5
27.5°	913.2	916.0	916.8	913.5	901.8	902.9	911.4	914.2	925.9	901.6	845.4
30°	950.1	952.9	959.2	971.6	990.1	1006.3	1027.0	1033.3	1044.5	998.7	914.2
32.5°	972.9	973.9	985.3	1008.3	1063.7	1124.1	1180.5	1182.8	1189.9	1125.7	977.2
35°	1008.8	1009.6	1018.7	1044.0	1109.0	1209.6	1296.9	1299.6	1293.8	1165.1	1006.5
37.5°	1053.1	1055.1	1060.9	1081.9	1159.5	1281.2	1345.2	1343.1	1291.6	1196.5	1058.4
40°	1117.6	1117.6	1110.7	1139.1	1212.9	1322.2	1362.1	1358.6	1344.9	1287.3	1137.3
42.5°	1174.5	1173.5	1189.6	1208.9	1279.7	1385.4	1433.2	1439.0	1461.5	1401.3	1227.1
45°	1248.6	1253.1	1262.2	1297.1	1393.2	1493.4	1555.1	1560.6	1592.5	1535.6	1332.0
47.5°	1323.4	1324.9	1353.5	1400.1	1533.8	1639.8	1690.4	1699.5	1728.6	1692.7	1445.1
50°	1376.5	1390.9	1436.7	1510.1	1678.7	1818.3	1857.8	1868.7	1920.0	1863.6	1576.8
52.5°	1432.7	1446.8	1502.7	1614.5	1845.2	2000.9	2049.5	2056.8	2110.2	2036.6	1711.6
55°	1480.7	1493.9	1557.4	1707.1	1977.7	2187.3	2275.3	2266.7	2292.3	2169.9	1815.6
57.5°	1488.6	1499.2	1579.1	1766.2	2077.3	2347.2	2473.4	2478.4	2448.8	2269.5	1901.3
60°	1427.9	1449.6	1541.4	1759.9	2122.1	2458.4	2621.0	2624.6	2540.6	2320.6	1935.4
62.5°	1320.4	1318.1	1429.1	1658.3	2059.4	2483.7	2708.0	2704.3	2576.5	2296.1	1902.3
64°	1171.9	1199.2	1302.9	1533.3	1958.2	2444.8	2717.1	2715.1	2559.3	2245.0	1845.9
65°	1081.4	1079.9	1182.3	1431.2	1857.5	2386.1	2701.0	2698.2	2523.4	2199.2	1802.2
67.5°	780.7	784.2	885.4	1104.4	1510.1	2156.7	2595.5	2585.1	2381.8	2047.5	1635.8
70°	472.9	474.9	554.4	732.6	1083.9	1743.5	2339.6	2340.1	2165.1	1820.9	1392.2
72.5°	249.1	254.4	286.3	416.0	658.3	1223.3	1898.0	1943.0	1858.8	1554.1	1099.9
75°	138.6	139.3	161.9	205.1	335.9	684.6	1426.6	1439.5	1471.6	1250.8	813.3
77.5°	105.7	107.2	114.3	132.5	182.8	317.4	863.4	928.1	1037.1	881.9	464.1
80°	85.7	87.3	93.3	104.2	121.6	150.5	401.1	436.0	555.1	391.5	181.1
82.5°	66.8	65.8	73.6	80.7	88.5	89.0	164.6	182.1	226.1	168.4	78.4
85°	49.6	49.6	55.9	54.4	57.2	52.1	72.6	80.2	90.5	71.6	36.4
87.5°	19.7	21.7	36.7	32.9	25.5	20.5	26.8	28.3	31.4	28.1	15.2
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: P450618

CATALOG NUMBER: GALN-SA1B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7
2.5°	609.7	610.5	608.7	607.5	607.0	606.2	605.4	605.7	606.7	607.7	607.5
5°	612.8	613.0	610.0	608.5	607.5	606.5	606.5	607.2	609.2	610.8	610.8
7.5°	620.4	620.4	616.1	613.3	611.8	610.0	609.5	609.7	611.3	613.3	613.5
10°	632.2	631.2	625.7	621.4	618.6	614.3	610.5	608.5	609.2	610.5	610.5
12.5°	646.7	643.9	636.8	631.0	624.2	616.1	608.2	604.2	603.9	605.2	604.7
15°	662.1	659.1	649.2	638.6	626.7	614.8	605.4	599.6	595.1	593.8	596.6
17.5°	680.0	673.7	660.1	645.4	627.7	612.3	597.6	585.7	577.6	575.3	576.1
20°	701.8	693.4	675.0	652.0	626.9	603.2	580.4	564.5	551.3	547.3	547.8
22.5°	731.9	717.5	690.4	655.3	620.6	586.0	554.4	533.6	517.7	511.4	515.2
25°	766.0	750.4	705.1	654.5	604.2	558.4	523.5	496.4	482.0	472.7	474.7
27.5°	813.1	785.3	720.8	647.7	580.7	524.8	484.3	458.8	445.6	440.8	443.1
30°	873.3	830.5	737.7	629.2	543.5	482.3	444.8	428.2	420.3	414.2	416.3
32.5°	916.8	862.4	741.5	598.1	503.3	443.6	418.0	405.7	397.1	391.2	392.5
35°	947.9	889.4	739.7	559.9	461.3	411.7	396.8	386.7	372.8	360.1	357.9
37.5°	989.6	923.3	726.8	518.2	419.8	390.2	379.6	360.9	340.9	324.0	323.2
40°	1053.6	963.0	699.3	469.1	384.4	374.3	361.4	337.1	315.6	302.0	301.0
42.5°	1119.6	999.7	661.8	417.5	355.3	357.6	341.9	317.9	304.7	295.9	294.9
45°	1200.3	1039.4	621.4	372.8	333.8	341.9	325.0	311.1	303.2	297.4	295.9
47.5°	1287.5	1080.1	575.9	332.6	315.6	327.5	317.9	311.6	307.3	303.2	301.5
50°	1381.6	1125.7	533.1	300.2	299.2	312.6	317.1	314.9	312.3	311.1	309.5
52.5°	1484.8	1172.2	497.2	277.4	284.8	302.0	317.4	319.2	319.2	318.4	317.4
55°	1554.6	1204.6	460.8	259.0	270.1	293.4	316.9	323.7	326.2	325.2	324.2
57.5°	1606.2	1222.3	415.0	243.0	257.7	285.0	314.1	324.2	326.7	328.0	327.5
60°	1616.8	1205.8	355.1	226.3	244.3	272.9	304.0	316.6	319.9	327.8	328.5
62.5°	1569.0	1155.2	295.4	209.9	227.9	254.4	290.3	308.0	314.6	326.7	328.0
64°	1510.3	1098.6	262.3	199.5	217.2	244.0	283.5	305.8	314.4	330.5	331.6
65°	1467.3	1057.4	241.5	193.0	210.4	237.2	279.7	306.5	316.6	336.4	337.9
67.5°	1309.0	915.5	199.8	177.5	194.2	225.6	280.5	312.8	316.1	338.6	338.4
70°	1083.2	728.9	167.4	163.4	178.5	216.2	277.4	302.7	303.0	317.9	314.4
72.5°	811.0	538.7	145.2	148.7	161.1	194.0	262.0	289.1	284.8	286.8	283.2
75°	557.1	356.3	124.9	133.0	142.9	171.5	240.3	262.5	255.7	253.2	250.6
77.5°	297.4	197.0	103.9	117.6	124.2	148.2	209.7	231.1	224.1	214.2	210.9
80°	120.4	92.8	83.7	97.4	101.2	119.4	174.5	187.9	182.6	165.4	159.8
82.5°	60.4	55.6	65.8	76.6	76.9	85.2	129.7	142.4	130.5	109.5	104.7
85°	31.6	32.6	45.3	53.9	47.5	46.0	77.9	86.2	79.2	68.8	62.0
87.5°	11.4	13.2	23.8	23.5	16.7	8.9	17.2	8.3	4.6	2.8	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)