

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: P534193

Luminaire Tested: **GALN-SA9C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29876 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

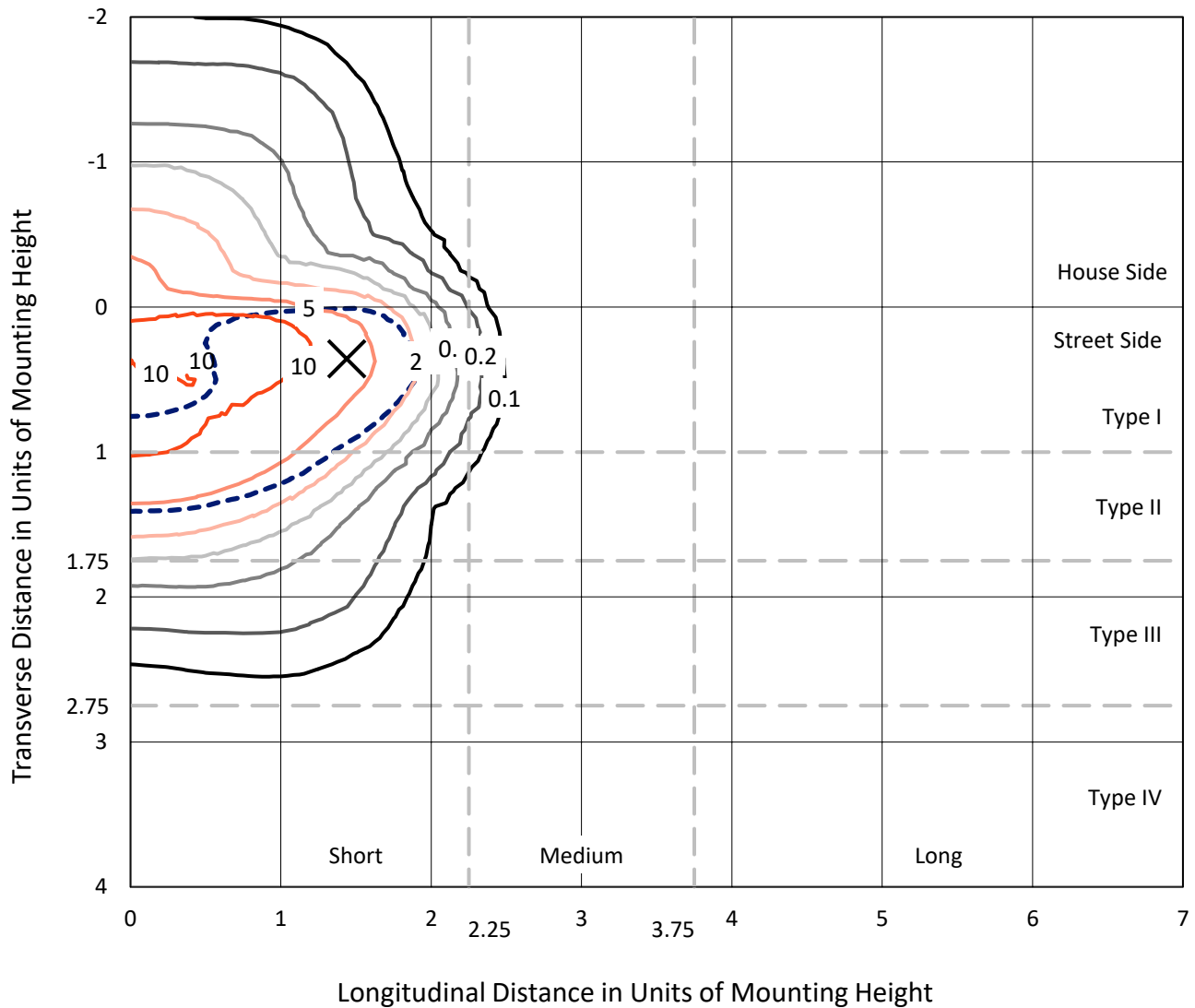
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534193
CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

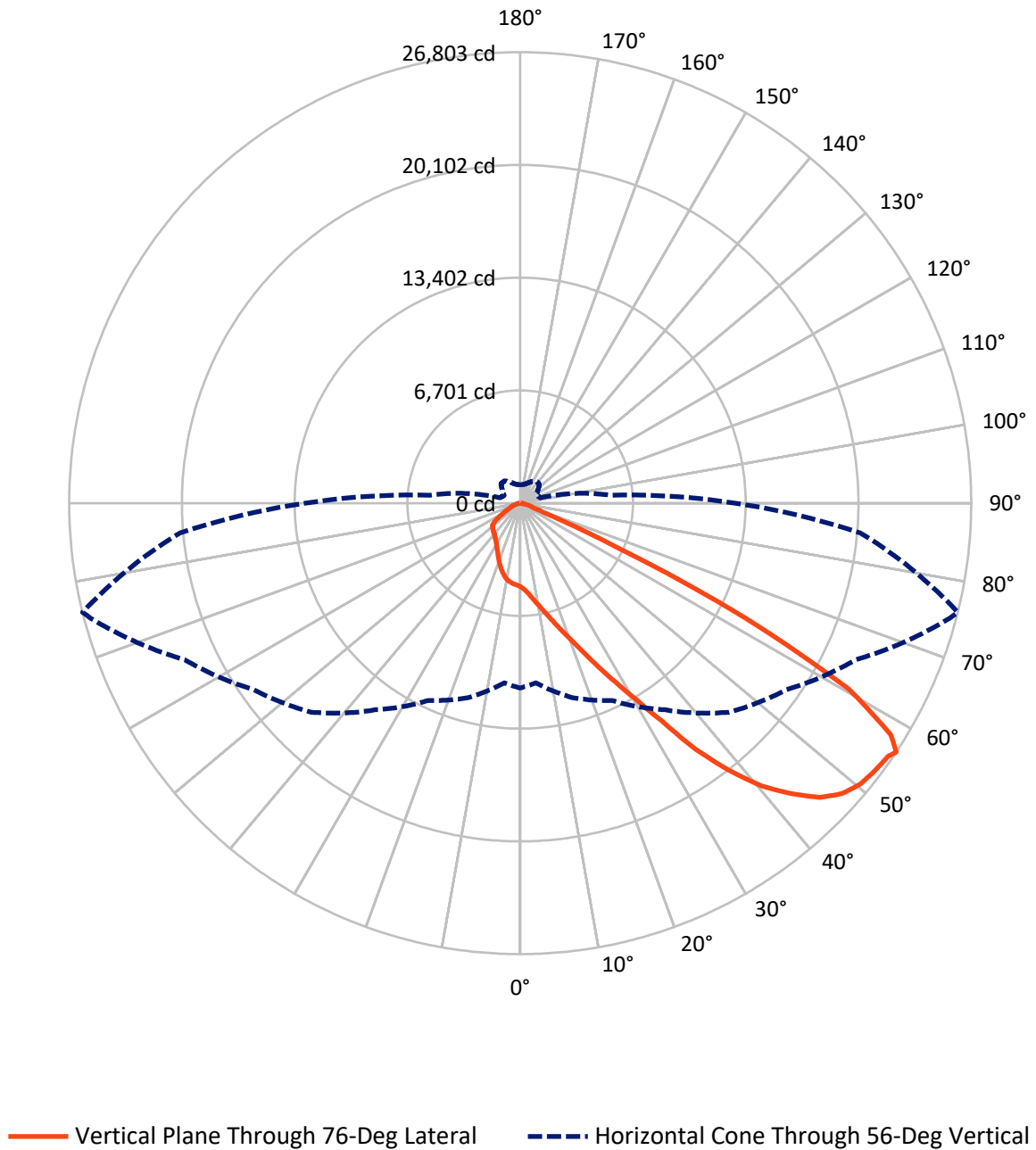
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Short - N/A

REPORT NUMBER: P534193
CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P534193

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

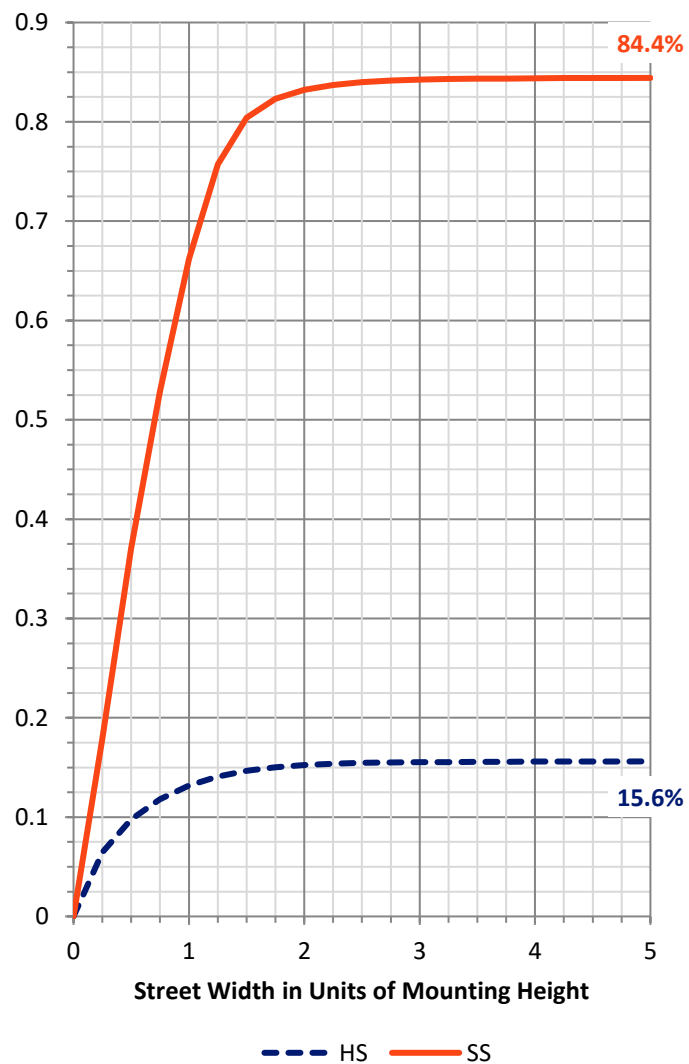
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4693.4	0.0	4693.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	25182.6	0.0	25182.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	29876.0	0.0	29876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	1.7
10°-20°	1609.4	5.4
20°-30°	2918.2	9.8
30°-40°	5032.6	16.8
40°-50°	8175.6	27.4
50°-60°	8617.4	28.8
60°-70°	2633.0	8.8
70°-80°	337.5	1.1
80°-90°	51.3	0.2
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°	29876.0	100.0
0°-180°	29876.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534193

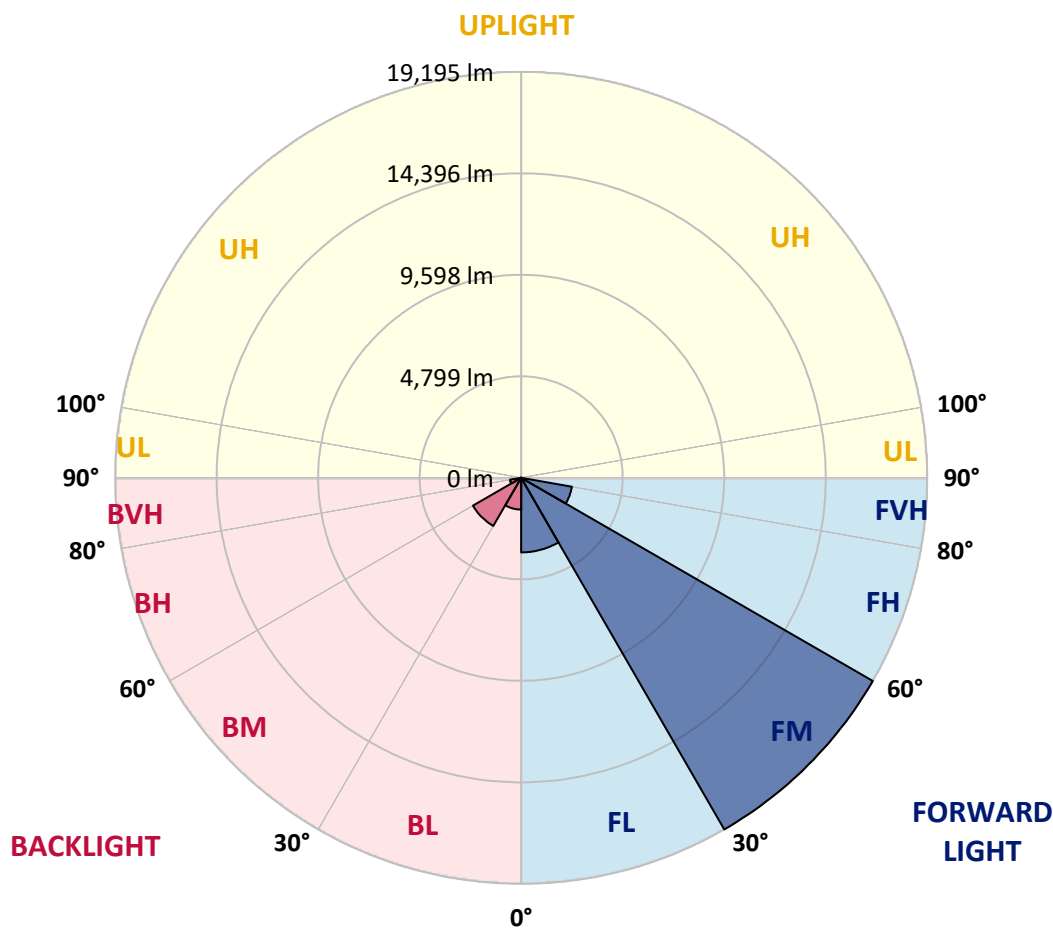
CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3527.1	11.8			
FM	(30°-60°)	19195.3	64.2			
FH	(60°-80°)	2435.1	8.2			G2/5000
FVH	(80°-90°)	25.1	0.1			G1/100
BL	(0°-30°)	1501.4	5.0	B3/2500		
BM	(30°-60°)	2630.4	8.8	B3/5000		
BH	(60°-80°)	535.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	26.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P534193

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9
2.5°	5727.4	5595.2	5600.7	5589.7	5573.2	5512.6	5330.9	5303.3	5182.2	5149.1	5039.0
5°	6415.8	6300.1	6366.2	6267.1	6173.5	6118.4	5821.0	5683.3	5490.6	5419.0	5264.8
7.5°	6845.3	6790.2	6768.2	6773.7	6685.6	6547.9	6415.8	6112.9	5854.0	5799.0	5474.1
10°	7054.6	7021.5	7054.6	7038.1	7076.6	7093.1	6861.8	6680.1	6300.1	6206.5	5699.8
12.5°	7104.2	7170.2	7197.8	7269.4	7363.0	7522.7	7506.2	7258.3	6751.7	6691.1	6046.8
15°	7225.3	7280.4	7252.8	7368.5	7544.7	7814.6	7957.7	7919.2	7374.0	7263.9	6448.8
17.5°	7335.4	7236.3	7329.9	7561.2	7737.5	8150.5	8497.4	8657.2	8051.4	7924.7	6817.8
20°	7484.1	7456.6	7440.1	7555.7	7869.6	8420.3	9108.7	9400.6	8811.3	8679.2	7346.5
22.5°	7935.7	7941.2	7930.2	7759.5	7985.3	8607.6	9642.9	10364.3	9720.0	9609.9	7946.7
25°	8530.5	8458.9	8403.8	8266.1	8238.6	8778.3	10182.6	11542.9	10810.4	10733.3	8596.6
27.5°	9158.3	9158.3	8993.1	8866.4	8690.2	9202.4	10678.3	12688.3	12126.6	12022.0	9163.8
30°	9841.2	9879.7	9857.7	9587.8	9477.7	9664.9	11184.9	14153.2	13635.6	13503.4	10100.0
32.5°	10849.0	10766.4	10860.0	10634.2	10309.3	10474.5	11983.4	15463.9	15596.1	15408.8	11328.1
35°	12181.7	12132.1	12071.5	11702.6	11317.1	11449.2	13112.4	17077.5	18057.8	17964.1	12567.2
37.5°	13376.7	13349.2	13299.6	13046.3	12600.2	12759.9	14395.5	18757.2	20458.9	20150.5	14318.4
40°	14632.3	14781.0	14621.3	14395.5	13988.0	14340.5	15904.5	19753.9	22480.0	22105.5	15656.7
42.5°	16334.0	16218.4	16290.0	15876.9	15656.7	16042.2	17418.9	20750.7	24049.5	23603.4	17077.5
45°	18145.9	18151.4	17958.6	17826.5	17253.7	17672.3	18349.6	21301.4	25299.6	24952.6	18151.4
47.5°	19307.9	19302.4	19511.6	19720.9	19131.6	18718.6	18983.0	21824.6	25943.9	25784.2	18542.4
50°	19126.1	19181.2	19451.1	20233.1	20541.5	19985.2	19577.7	21670.4	26235.8	26219.3	18878.3
52.5°	16636.9	16818.7	17270.2	18399.2	19952.2	20640.6	20200.0	21956.8	26379.0	26406.5	19379.5
55°	12666.3	12765.4	13624.5	14995.8	16714.0	19071.1	19952.2	22182.6	26489.1	26538.7	19985.2
56°	10986.7	10722.3	11961.4	12936.2	14990.3	17567.6	19324.4	22006.3	26423.0	26803.0	20288.1
57.5°	8293.7	8117.5	9119.7	10336.8	12313.9	15034.4	17374.9	21174.8	25977.0	25971.5	19853.1
60°	5044.5	4868.3	5639.3	6355.2	7462.1	9257.4	11741.1	16862.7	21962.3	22424.9	16075.2
62.5°	3001.4	3111.5	3871.5	4306.5	4664.5	4851.7	6074.3	10022.9	14654.4	14984.8	9973.3
65°	1999.1	2037.6	2610.4	3326.3	3486.0	2775.6	2472.7	4058.7	6355.2	6151.4	4113.8
67.5°	1233.6	1321.7	1751.3	2500.2	2770.1	2026.6	1173.0	1514.5	1751.3	1751.3	1189.5
70°	749.0	793.0	1167.5	1701.7	1899.9	1305.2	853.6	853.6	842.6	826.1	710.4
72.5°	358.0	385.5	594.8	875.6	892.1	688.4	660.9	721.4	704.9	699.4	589.3
75°	154.2	165.2	209.3	275.4	313.9	291.9	402.0	517.7	534.2	517.7	424.0
77.5°	49.6	55.1	77.1	99.1	104.6	126.7	170.7	214.8	247.8	231.3	209.3
80°	5.5	11.0	22.0	49.6	77.1	99.1	126.7	143.2	159.7	159.7	148.7
82.5°	5.5	5.5	22.0	44.1	71.6	93.6	121.2	137.7	159.7	165.2	154.2
85°	0.0	5.5	16.5	38.5	60.6	60.6	55.1	55.1	38.5	38.5	38.5
87.5°	0.0	0.0	5.5	5.5	5.5	11.0	11.0	11.0	11.0	11.0	11.0
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: P534193

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9	4972.9
2.5°	5017.0	5005.9	4857.3	4763.6	4714.1	4614.9	4554.4	4510.3	4477.3	4438.7	4444.2
5°	5083.0	5044.5	4796.7	4626.0	4422.2	4312.1	4218.4	4141.3	4091.8	4080.8	4058.7
7.5°	5270.3	5066.5	4692.0	4383.6	4124.8	4014.7	3932.1	3882.5	3904.5	3855.0	3893.5
10°	5413.5	5110.6	4565.4	4119.3	3860.5	3777.9	3733.8	3772.4	3827.4	3805.4	3777.9
12.5°	5589.7	5154.6	4361.6	3866.0	3623.7	3563.1	3640.2	3711.8	3821.9	3866.0	3810.9
15°	5788.0	5204.2	4102.8	3574.1	3419.9	3469.5	3601.6	3728.3	3838.4	3893.5	3926.6
17.5°	6030.3	5187.7	3849.5	3342.8	3227.2	3370.3	3530.0	3645.7	3810.9	3893.5	3871.5
20°	6256.1	5132.6	3568.6	3111.5	3117.0	3249.2	3381.4	3568.6	3656.7	3766.9	3728.3
22.5°	6470.8	5033.5	3276.7	2951.8	2951.8	3155.6	3221.6	3342.8	3419.9	3475.0	3469.5
25°	6773.7	4846.2	3034.4	2797.6	2863.7	2995.9	3050.9	3089.5	3056.4	3100.5	3106.0
27.5°	6988.5	4653.5	2836.2	2659.9	2781.1	2880.2	2863.7	2841.7	2764.6	2704.0	2742.5
30°	7219.8	4427.7	2665.4	2566.3	2632.4	2720.5	2654.4	2588.3	2467.2	2368.1	2373.6
32.5°	7550.2	4323.1	2516.7	2456.2	2544.3	2555.3	2483.7	2384.6	2263.4	2169.8	2164.3
35°	8167.0	4257.0	2390.1	2384.6	2401.1	2406.6	2335.0	2213.9	2164.3	2087.2	2114.7
37.5°	8783.8	4223.9	2302.0	2279.9	2274.4	2279.9	2197.3	2081.7	2175.3	2169.8	2180.8
40°	9571.3	4372.6	2175.3	2147.8	2153.3	2153.3	2048.6	2015.6	2180.8	2197.3	2202.8
42.5°	10369.9	4559.9	2092.7	2004.6	2026.6	2026.6	1971.5	1933.0	2048.6	1938.5	1922.0
45°	11063.8	4835.2	2004.6	1861.4	1916.5	1944.0	1927.5	1861.4	1789.8	1602.6	1602.6
47.5°	11289.5	5077.5	1899.9	1723.7	1767.8	1888.9	1839.4	1701.7	1575.0	1420.8	1409.8
50°	11686.1	5341.9	1817.3	1564.0	1657.6	1806.3	1756.8	1619.1	1475.9	1365.8	1371.3
52.5°	12093.6	5644.8	1663.1	1376.8	1492.4	1740.2	1740.2	1586.0	1365.8	1288.7	1277.6
55°	12704.9	5633.8	1387.8	1129.0	1332.7	1641.1	1668.6	1420.8	1222.6	1162.0	1162.0
56°	12793.0	5380.4	1250.1	1057.4	1261.1	1613.6	1619.1	1376.8	1167.5	1101.4	1101.4
57.5°	12132.1	4857.3	1095.9	969.2	1173.0	1564.0	1569.5	1338.2	1123.4	1029.8	1018.8
60°	9334.5	3287.7	914.2	864.6	1062.9	1409.8	1437.4	1217.1	985.8	914.2	908.7
62.5°	5270.3	1822.8	804.0	782.0	914.2	1200.5	1283.2	1062.9	837.1	798.5	809.5
65°	2406.6	1002.3	677.4	633.3	738.0	925.2	1035.3	875.6	688.4	644.3	644.3
67.5°	881.1	682.9	578.2	501.1	517.7	600.3	671.9	567.2	457.1	391.0	407.5
70°	627.8	572.7	506.7	435.1	402.0	391.0	385.5	319.4	225.8	176.2	187.2
72.5°	506.7	473.6	424.0	369.0	313.9	264.3	225.8	165.2	104.6	71.6	66.1
75°	363.5	346.9	308.4	264.3	220.3	187.2	154.2	104.6	55.1	27.5	27.5
77.5°	187.2	187.2	181.7	165.2	137.7	110.1	88.1	60.6	33.0	11.0	11.0
80°	143.2	154.2	159.7	143.2	126.7	99.1	71.6	44.1	22.0	5.5	5.5
82.5°	137.7	159.7	170.7	148.7	126.7	93.6	71.6	44.1	22.0	5.5	5.5
85°	33.0	33.0	49.6	55.1	71.6	77.1	60.6	38.5	16.5	5.5	5.5
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	5.5	5.5	5.5	5.5	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

(END OF REPORT)