

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: P532087

Luminaire Tested: **GALN-SA7B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532087
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-SA7B-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 18578 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 286
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

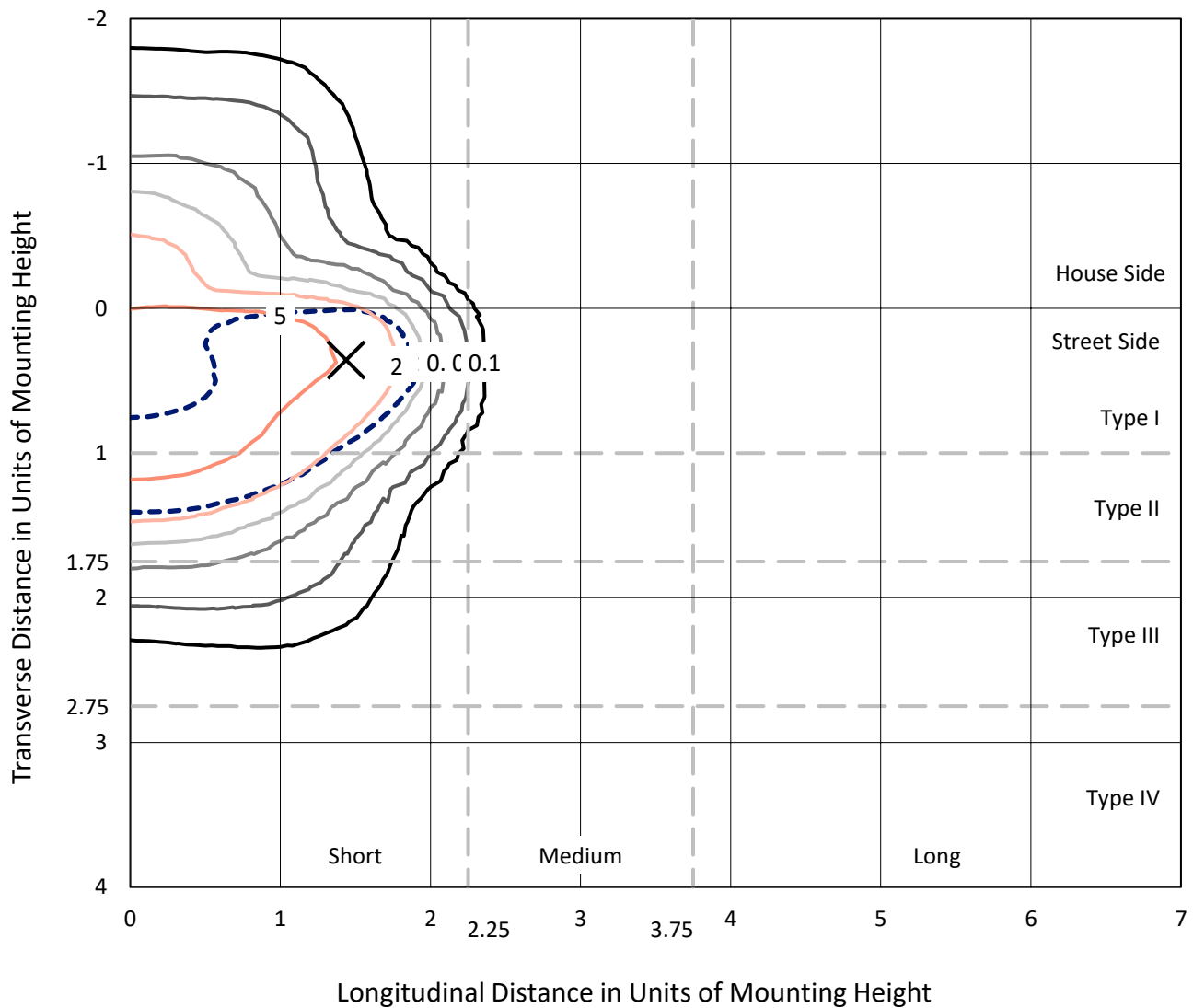


REPORT NUMBER: P532087

CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

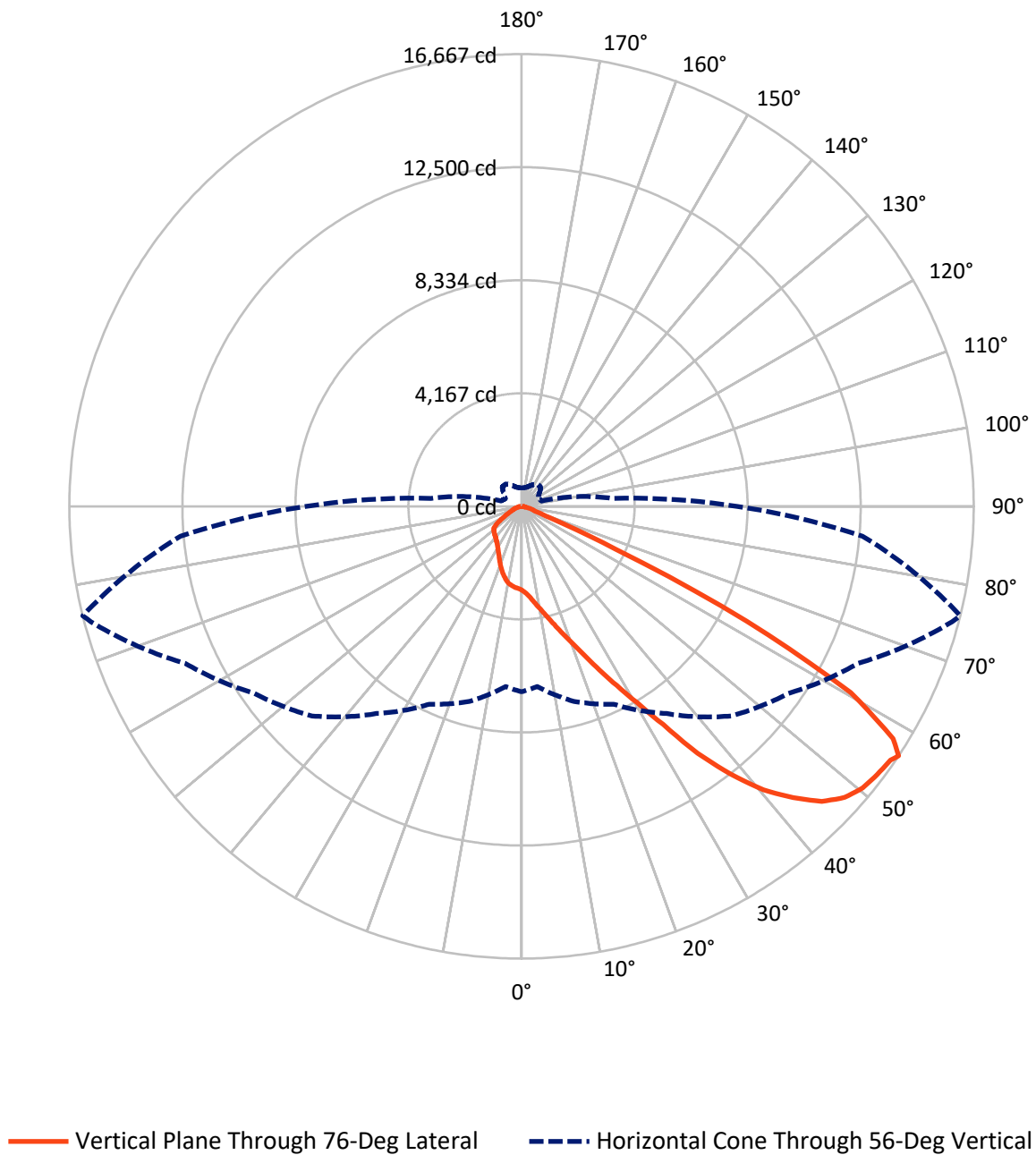
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P532087
CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532087

CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

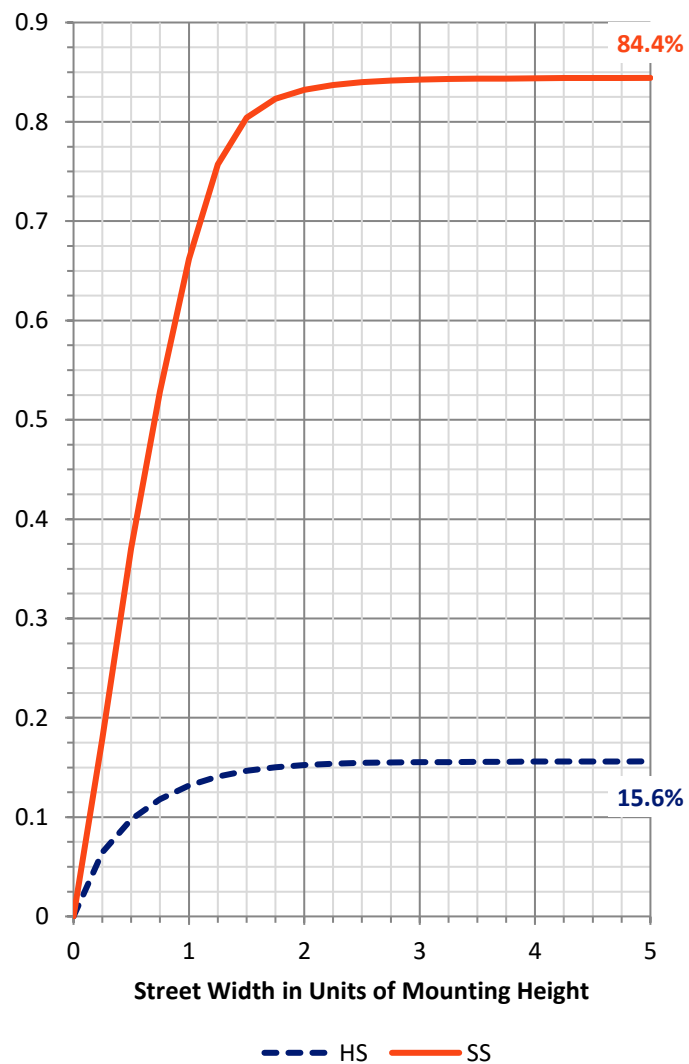
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2918.5	0.0	2918.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15659.5	0.0	15659.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	18578.0	0.0	18578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.5	1.7
10°-20°	1000.8	5.4
20°-30°	1814.7	9.8
30°-40°	3129.5	16.8
40°-50°	5083.9	27.4
50°-60°	5358.6	28.8
60°-70°	1637.3	8.8
70°-80°	209.9	1.1
80°-90°	31.9	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°	18578.0	100.0
0°-180°	18578.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532087

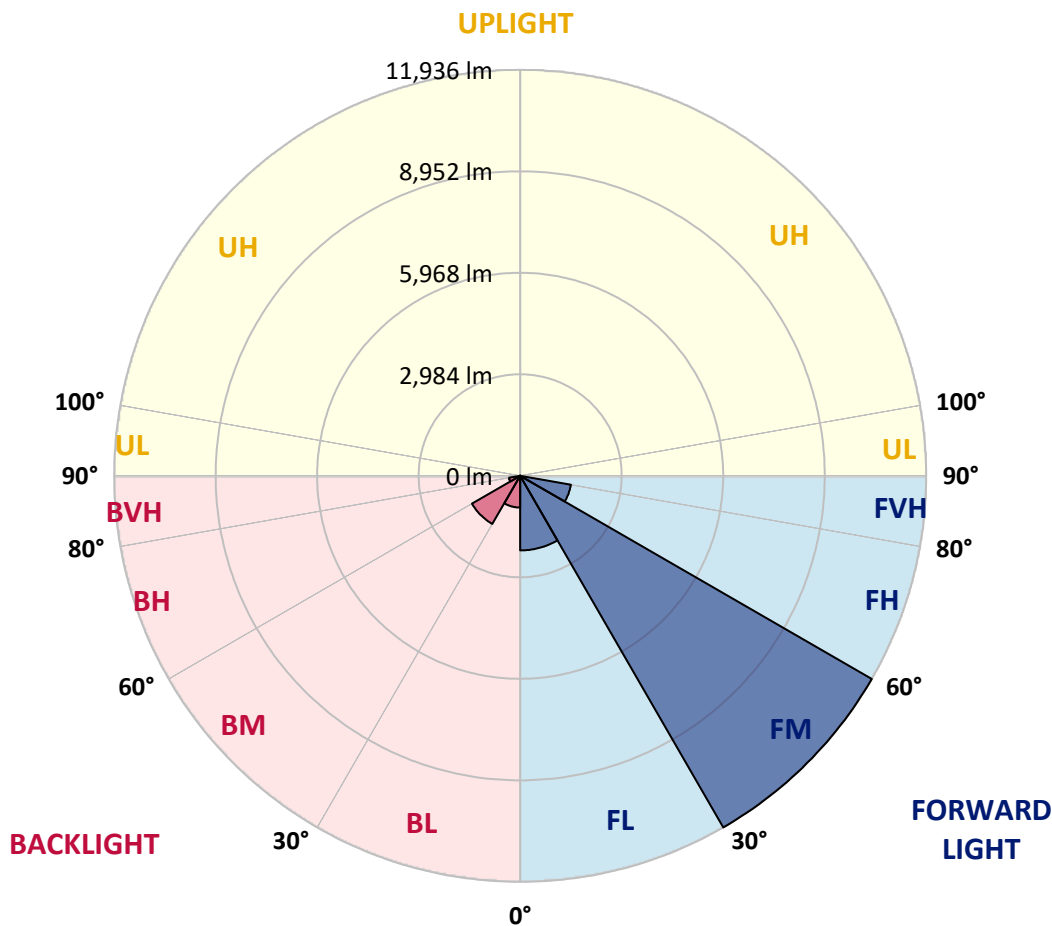
CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2193.3	11.8			
FM	(30°-60°)	11936.3	64.2			
FH	(60°-80°)	1514.2	8.2			G1/1800
FVH	(80°-90°)	15.6	0.1			G1/100
BL	(0°-30°)	933.6	5.0	B2/1000		
BM	(30°-60°)	1635.7	8.8	B2/2500		
BH	(60°-80°)	332.9	1.8	B1/500		G1/500
BVH	(80°-90°)	16.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P532087

CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3
2.5°	3561.5	3479.3	3482.7	3475.9	3465.6	3427.9	3314.9	3297.8	3222.5	3201.9	3133.4
5°	3989.6	3917.6	3958.7	3897.1	3838.9	3804.6	3619.7	3534.1	3414.2	3369.7	3273.8
7.5°	4256.7	4222.4	4208.7	4212.2	4157.4	4071.7	3989.6	3801.2	3640.3	3606.0	3404.0
10°	4386.8	4366.3	4386.8	4376.5	4400.5	4410.8	4266.9	4153.9	3917.6	3859.4	3544.4
12.5°	4417.6	4458.7	4475.8	4520.4	4578.6	4677.9	4667.6	4513.5	4198.5	4160.8	3760.1
15°	4493.0	4527.2	4510.1	4582.0	4691.6	4859.4	4948.4	4924.5	4585.4	4516.9	4010.1
17.5°	4561.5	4499.8	4558.0	4701.9	4811.4	5068.3	5284.0	5383.3	5006.6	4927.9	4239.5
20°	4653.9	4636.8	4626.5	4698.4	4893.6	5236.1	5664.1	5845.6	5479.2	5397.0	4568.3
22.5°	4934.7	4938.1	4931.3	4825.1	4965.5	5352.5	5996.3	6444.9	6044.3	5975.8	4941.6
25°	5304.6	5260.1	5225.8	5140.2	5123.1	5458.7	6331.9	7177.8	6722.3	6674.4	5345.7
27.5°	5695.0	5695.0	5592.2	5513.5	5403.9	5722.4	6640.1	7890.1	7540.8	7475.7	5698.4
30°	6119.6	6143.6	6129.9	5962.1	5893.6	6010.0	6955.2	8801.0	8479.1	8396.9	6280.6
32.5°	6746.3	6694.9	6753.1	6612.7	6410.7	6513.4	7451.7	9616.0	9698.2	9581.8	7044.2
35°	7575.0	7544.2	7506.5	7277.1	7037.4	7119.6	8153.8	10619.4	11229.0	11170.8	7814.7
37.5°	8318.1	8301.0	8270.2	8112.7	7835.3	7934.6	8951.7	11663.9	12722.1	12530.3	8903.7
40°	9098.9	9191.4	9092.1	8951.7	8698.3	8917.4	9890.0	12283.7	13978.9	13746.0	9735.9
42.5°	10157.1	10085.2	10129.7	9872.9	9735.9	9975.6	10831.7	12903.6	14954.9	14677.5	10619.4
45°	11283.8	11287.2	11167.3	11085.2	10729.0	10989.3	11410.5	13246.0	15732.2	15516.5	11287.2
47.5°	12006.3	12002.9	12133.1	12263.2	11896.8	11639.9	11804.3	13571.3	16132.9	16033.6	11530.3
50°	11893.3	11927.6	12095.4	12581.7	12773.4	12427.6	12174.1	13475.5	16314.4	16304.1	11739.2
52.5°	10345.5	10458.5	10739.3	11441.3	12407.0	12835.1	12561.1	13653.5	16403.4	16420.5	12050.9
55°	7876.4	7938.0	8472.2	9325.0	10393.4	11859.1	12407.0	13793.9	16471.9	16502.7	12427.6
56°	6831.9	6667.5	7438.0	8044.2	9321.5	10924.2	12016.6	13684.4	16430.8	16667.1	12615.9
57.5°	5157.3	5047.7	5671.0	6427.8	7657.2	9348.9	10804.3	13167.3	16153.4	16150.0	12345.4
60°	3136.9	3027.3	3506.7	3951.9	4640.2	5756.6	7301.1	10485.9	13657.0	13944.6	9996.2
62.5°	1866.4	1934.9	2407.4	2678.0	2900.6	3017.0	3777.2	6232.6	9112.6	9318.1	6201.8
65°	1243.1	1267.1	1623.2	2068.4	2167.7	1726.0	1537.6	2523.9	3951.9	3825.2	2558.1
67.5°	767.1	821.9	1089.0	1554.7	1722.5	1260.2	729.4	941.7	1089.0	1089.0	739.7
70°	465.7	493.1	726.0	1058.2	1181.5	811.6	530.8	530.8	524.0	513.7	441.8
72.5°	222.6	239.7	369.8	544.5	554.8	428.1	410.9	448.6	438.3	434.9	366.4
75°	95.9	102.7	130.1	171.2	195.2	181.5	250.0	321.9	332.2	321.9	263.7
77.5°	30.8	34.2	47.9	61.6	65.1	78.8	106.2	133.6	154.1	143.8	130.1
80°	3.4	6.8	13.7	30.8	47.9	61.6	78.8	89.0	99.3	99.3	92.5
82.5°	3.4	3.4	13.7	27.4	44.5	58.2	75.3	85.6	99.3	102.7	95.9
85°	0.0	3.4	10.3	24.0	37.7	37.7	34.2	34.2	24.0	24.0	24.0
87.5°	0.0	0.0	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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: P532087

CATALOG NUMBER: GALN-SA7B-830-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3	3092.3
2.5°	3119.7	3112.9	3020.4	2962.2	2931.4	2869.7	2832.1	2804.7	2784.1	2760.2	2763.6
5°	3160.8	3136.9	2982.8	2876.6	2749.9	2681.4	2623.2	2575.2	2544.4	2537.6	2523.9
7.5°	3277.3	3150.6	2917.7	2725.9	2565.0	2496.5	2445.1	2414.3	2428.0	2397.2	2421.1
10°	3366.3	3177.9	2838.9	2561.5	2400.6	2349.2	2321.8	2345.8	2380.0	2366.3	2349.2
12.5°	3475.9	3205.3	2712.2	2404.0	2253.3	2215.7	2263.6	2308.1	2376.6	2404.0	2369.8
15°	3599.2	3236.2	2551.3	2222.5	2126.6	2157.4	2239.6	2318.4	2386.9	2421.1	2441.7
17.5°	3749.8	3225.9	2393.7	2078.7	2006.8	2095.8	2195.1	2267.0	2369.8	2421.1	2407.4
20°	3890.2	3191.6	2219.1	1934.9	1938.3	2020.5	2102.7	2219.1	2273.9	2342.4	2318.4
22.5°	4023.8	3130.0	2037.6	1835.5	1835.5	1962.2	2003.3	2078.7	2126.6	2160.9	2157.4
25°	4212.2	3013.6	1886.9	1739.7	1780.7	1862.9	1897.2	1921.2	1900.6	1928.0	1931.4
27.5°	4345.7	2893.7	1763.6	1654.0	1729.4	1791.0	1780.7	1767.0	1719.1	1681.4	1705.4
30°	4489.5	2753.3	1657.5	1595.8	1636.9	1691.7	1650.6	1609.5	1534.2	1472.5	1476.0
32.5°	4695.0	2688.2	1565.0	1527.3	1582.1	1589.0	1544.5	1482.8	1407.5	1349.3	1345.8
35°	5078.6	2647.1	1486.2	1482.8	1493.1	1496.5	1452.0	1376.7	1345.8	1297.9	1315.0
37.5°	5462.1	2626.6	1431.4	1417.7	1414.3	1417.7	1366.4	1294.5	1352.7	1349.3	1356.1
40°	5951.8	2719.1	1352.7	1335.6	1339.0	1339.0	1273.9	1253.4	1356.1	1366.4	1369.8
42.5°	6448.4	2835.5	1301.3	1246.5	1260.2	1260.2	1226.0	1202.0	1273.9	1205.4	1195.2
45°	6879.8	3006.7	1246.5	1157.5	1191.7	1208.9	1198.6	1157.5	1113.0	996.5	996.5
47.5°	7020.3	3157.4	1181.5	1071.9	1099.3	1174.6	1143.8	1058.2	979.4	883.5	876.7
50°	7266.8	3321.8	1130.1	972.6	1030.8	1123.2	1092.4	1006.8	917.8	849.3	852.7
52.5°	7520.2	3510.1	1034.2	856.1	928.0	1082.1	1082.1	986.3	849.3	801.3	794.5
55°	7900.4	3503.3	863.0	702.0	828.7	1020.5	1037.6	883.5	760.2	722.6	722.6
56°	7955.1	3345.8	777.4	657.5	784.2	1003.4	1006.8	856.1	726.0	684.9	684.9
57.5°	7544.2	3020.4	681.5	602.7	729.4	972.6	976.0	832.2	698.6	640.4	633.5
60°	5804.6	2044.4	568.5	537.6	660.9	876.7	893.8	756.8	613.0	568.5	565.0
62.5°	3277.3	1133.5	500.0	486.3	568.5	746.5	797.9	660.9	520.5	496.6	503.4
65°	1496.5	623.3	421.2	393.8	458.9	575.3	643.8	544.5	428.1	400.7	400.7
67.5°	547.9	424.6	359.6	311.6	321.9	373.3	417.8	352.7	284.2	243.1	253.4
70°	390.4	356.1	315.1	270.5	250.0	243.1	239.7	198.6	140.4	109.6	116.4
72.5°	315.1	294.5	263.7	229.4	195.2	164.4	140.4	102.7	65.1	44.5	41.1
75°	226.0	215.7	191.8	164.4	137.0	116.4	95.9	65.1	34.2	17.1	17.1
77.5°	116.4	116.4	113.0	102.7	85.6	68.5	54.8	37.7	20.5	6.8	6.8
80°	89.0	95.9	99.3	89.0	78.8	61.6	44.5	27.4	13.7	3.4	3.4
82.5°	85.6	99.3	106.2	92.5	78.8	58.2	44.5	27.4	13.7	3.4	3.4
85°	20.5	20.5	30.8	34.2	44.5	47.9	37.7	24.0	10.3	3.4	3.4
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	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)