

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: P533729

Luminaire Tested: **GALN-SA9A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19673 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

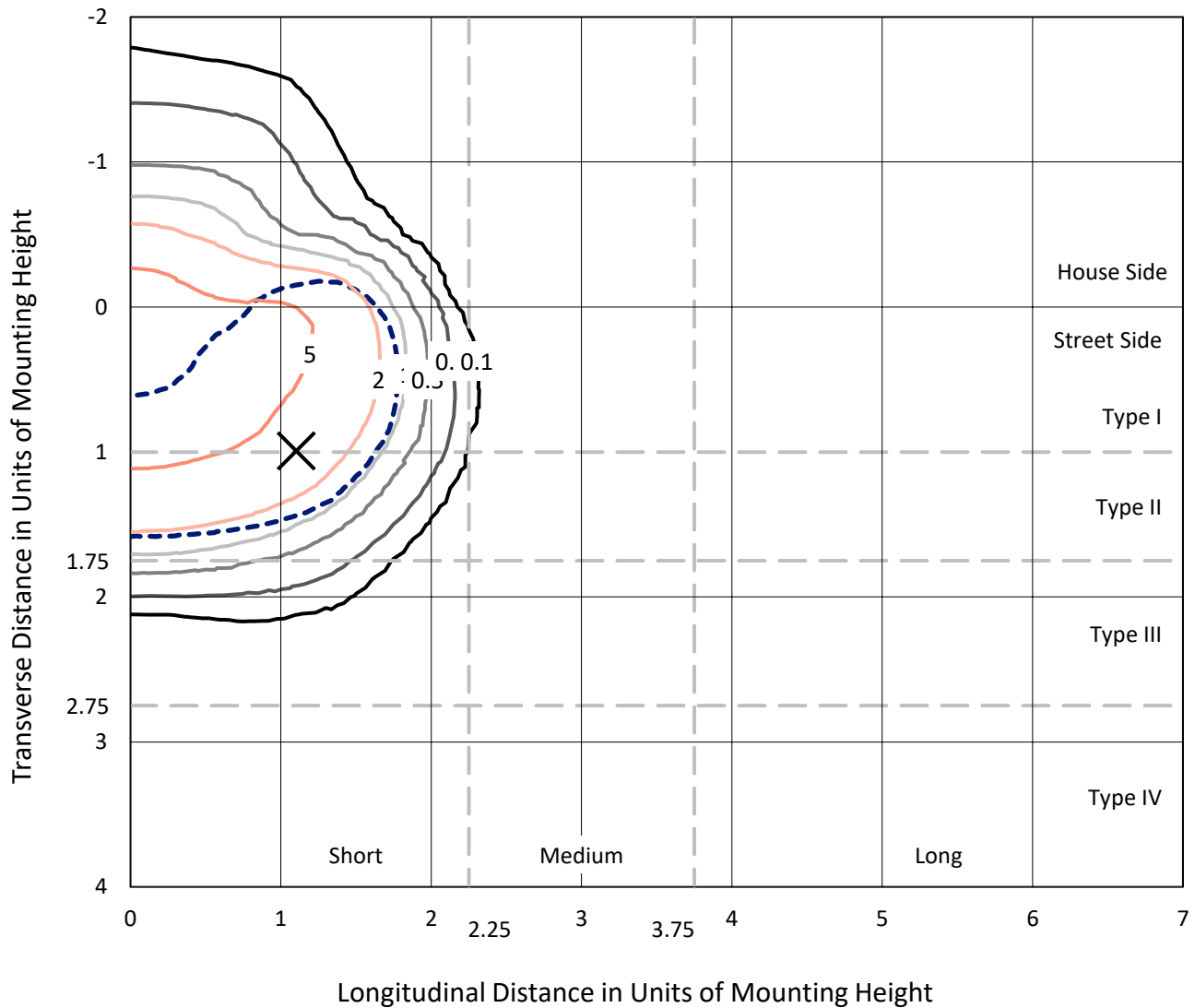
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533729
 CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

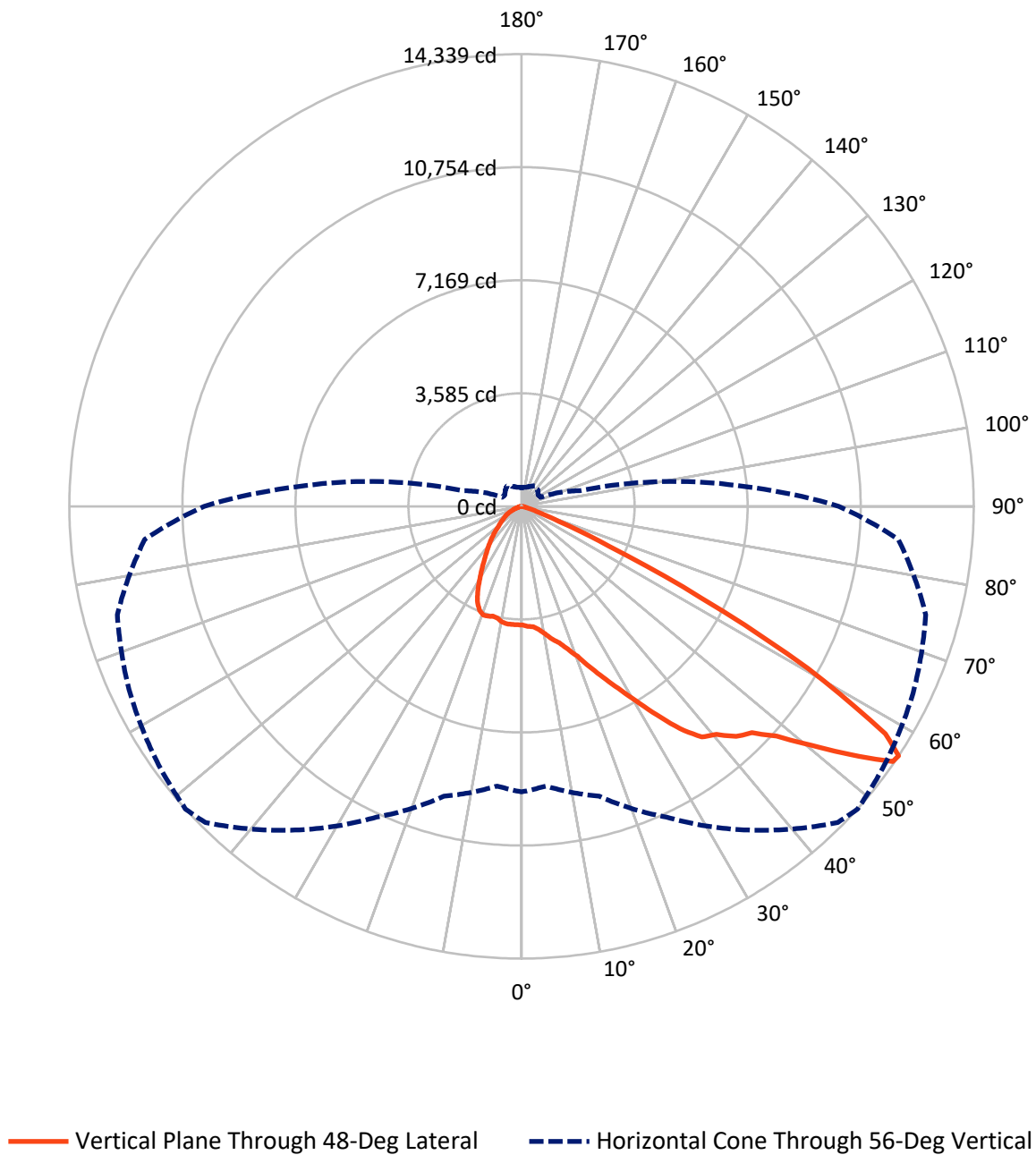
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P533729
CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533729

CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

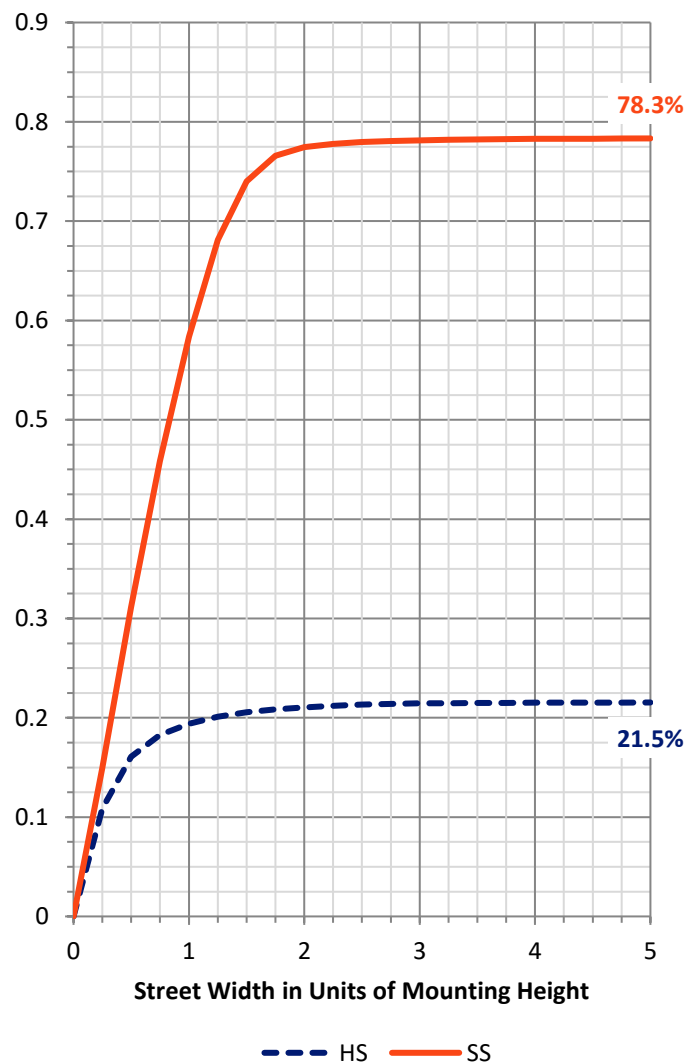
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4278.5	0.0	4278.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15394.5	0.0	15394.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	19673.0	0.0	19673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	1.9
10°-20°	1169.8	5.9
20°-30°	2121.7	10.8
30°-40°	3332.8	16.9
40°-50°	4861.9	24.7
50°-60°	5857.7	29.8
60°-70°	1715.1	8.7
70°-80°	217.6	1.1
80°-90°	30.5	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°	19673.0	100.0
0°-180°	19673.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533729

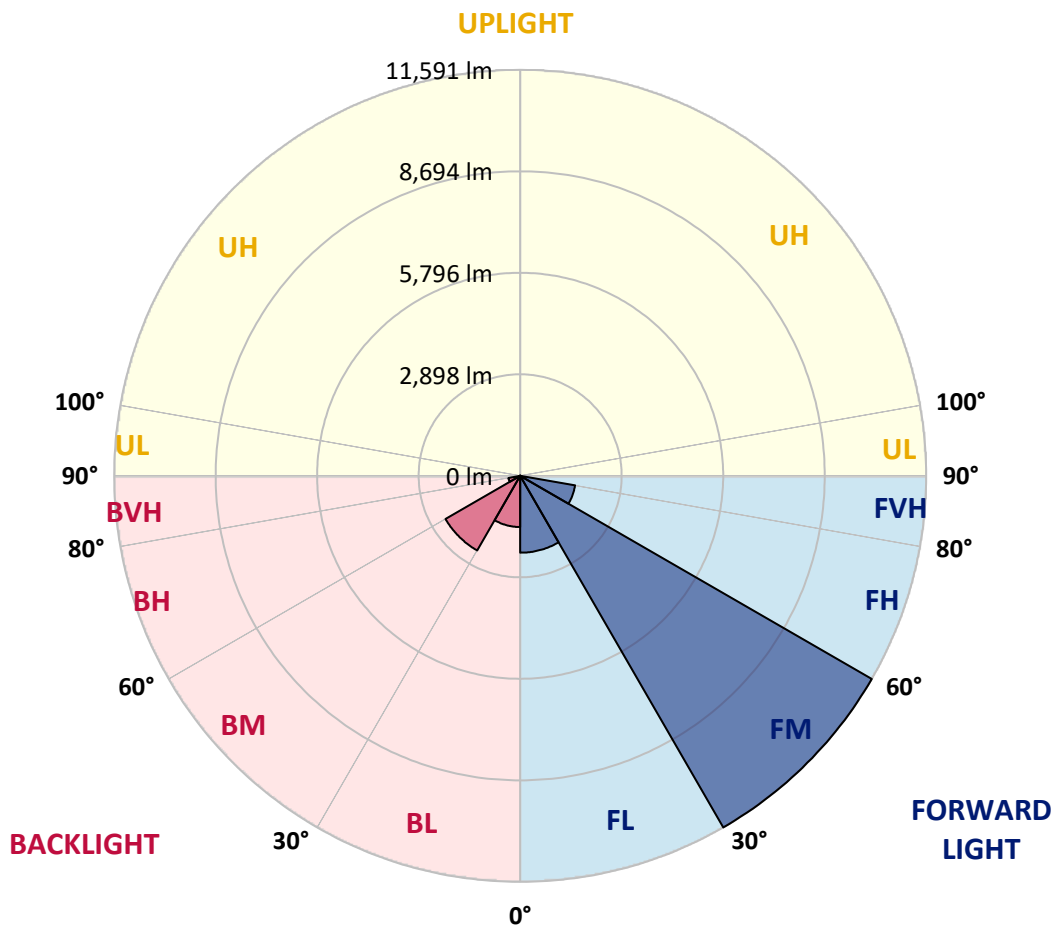
CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2195.1	11.2			
FM	(30°-60°)	11591.4	58.9			
FH	(60°-80°)	1592.7	8.1			G1/1800
FVH	(80°-90°)	15.3	0.1			G1/100
BL	(0°-30°)	1462.4	7.4	B3/2500		
BM	(30°-60°)	2461.0	12.5	B2/2500		
BH	(60°-80°)	340.0	1.7	B1/500		G1/500
BVH	(80°-90°)	15.2	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-G1

Type II Short



REPORT NUMBER: P533729

CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6
2.5°	3825.6	3807.7	3807.7	3779.0	3811.3	3797.0	3807.7	3771.9	3807.7	3754.0	3797.0
5°	3843.5	3847.1	3832.8	3850.7	3850.7	3872.2	3836.4	3868.6	3886.5	3847.1	3829.2
7.5°	3936.7	3943.8	3940.2	3925.9	3954.6	3951.0	3947.4	3922.3	3929.5	3915.2	3893.7
10°	4119.3	4115.8	4133.7	4097.8	4076.4	4101.4	4108.6	4069.2	4040.5	4029.8	3961.7
12.5°	4384.4	4341.4	4316.3	4280.5	4291.3	4255.5	4319.9	4251.9	4237.5	4173.1	4105.0
15°	4599.3	4592.2	4595.7	4538.4	4474.0	4488.3	4488.3	4452.5	4431.0	4352.2	4255.5
17.5°	5039.9	4889.5	4921.7	4850.1	4796.3	4792.8	4760.5	4767.7	4710.4	4545.6	4398.7
20°	5383.8	5319.3	5269.2	5147.4	5065.0	5090.1	5075.7	5039.9	5022.0	4807.1	4599.3
22.5°	5691.8	5713.3	5631.0	5598.7	5484.1	5494.8	5523.5	5491.3	5355.1	5133.1	4825.0
25°	6125.3	6100.2	5989.2	5949.8	5842.3	5881.7	5992.7	5967.7	5881.7	5480.5	5000.5
27.5°	6637.5	6551.5	6573.0	6393.9	6290.0	6401.1	6533.6	6659.0	6415.4	5888.9	5208.3
30°	6999.3	6909.7	6902.6	6895.4	6870.3	6999.3	7153.3	7267.9	7070.9	6297.2	5552.1
32.5°	7178.4	7199.9	7260.8	7239.3	7457.8	7722.9	7884.1	8048.8	7801.7	6963.5	6007.1
35°	7654.8	7518.7	7654.8	7669.1	7894.8	8457.2	8661.4	9055.4	8994.5	7905.5	6562.3
37.5°	7934.2	7923.5	7941.4	8077.5	8296.0	8990.9	9281.0	9585.5	9470.9	8471.5	7253.6
40°	8396.3	8424.9	8421.4	8525.2	8765.2	9392.1	9510.3	9757.5	9768.2	9256.0	8270.9
42.5°	9137.8	9023.1	8947.9	9055.4	9392.1	9739.5	9976.0	9925.8	10280.4	10208.8	9578.4
45°	9804.0	9872.1	9761.0	9940.1	10061.9	10248.2	10241.0	10348.5	10799.8	11140.1	10563.4
47.5°	10427.3	10470.3	10524.0	10645.8	10910.9	10939.5	10878.6	10832.1	11455.3	11806.4	11326.4
50°	10799.8	10839.2	11090.0	11308.5	11802.8	11867.3	11903.1	11784.9	12207.6	12247.0	12046.4
52.5°	10699.5	10742.5	11093.6	11813.5	12601.6	13192.6	13085.2	12884.6	12859.5	13013.5	12712.6
55°	9811.2	9771.8	10255.4	11376.5	12852.3	14270.8	14285.1	14073.8	13669.0	13565.2	12612.3
56°	9055.4	8901.3	9517.5	10871.5	12529.9	14177.7	14338.9	14113.2	13733.5	13267.8	11992.6
57.5°	7418.4	7565.3	8177.8	9299.0	11415.9	13507.8	13601.0	13547.2	13260.7	12479.8	10552.7
60°	4090.7	4348.6	4889.5	6261.4	8127.6	10366.4	10441.6	10878.6	10932.4	9556.9	7260.8
62.5°	1737.3	1708.6	2271.0	3281.1	4628.0	6257.8	6397.5	6845.3	6927.6	5509.2	3642.9
65°	705.7	745.1	1028.0	1651.3	2446.5	2851.3	3048.3	3195.2	3467.4	2274.6	1343.3
67.5°	465.7	462.1	605.4	942.1	1318.2	1271.6	1271.6	1343.3	1243.0	927.7	580.3
70°	333.1	343.9	433.4	651.9	820.3	608.9	583.9	558.8	634.0	612.5	469.2
72.5°	218.5	232.8	290.1	390.4	426.3	333.1	333.1	401.2	523.0	494.3	383.3
75°	143.3	146.9	179.1	225.7	211.3	171.9	189.8	268.7	379.7	365.4	272.2
77.5°	96.7	100.3	121.8	146.9	118.2	96.7	103.9	136.1	186.3	186.3	143.3
80°	35.8	39.4	50.1	46.6	53.7	68.1	75.2	93.1	111.0	111.0	96.7
82.5°	0.0	3.6	10.7	25.1	39.4	53.7	60.9	71.6	82.4	93.1	89.6
85°	0.0	3.6	10.7	17.9	28.7	32.2	35.8	25.1	21.5	21.5	17.9
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2	3.6	3.6
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: P533729

CATALOG NUMBER: GALN-SA9A-830-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6	3757.6
2.5°	3757.6	3754.0	3754.0	3743.2	3764.7	3754.0	3761.1	3757.6	3711.0	3746.8	3721.7
5°	3797.0	3822.0	3782.6	3775.5	3746.8	3757.6	3757.6	3721.7	3754.0	3750.4	3743.2
7.5°	3897.3	3854.3	3811.3	3768.3	3761.1	3750.4	3711.0	3696.7	3721.7	3693.1	3736.1
10°	3940.2	3947.4	3882.9	3825.6	3771.9	3696.7	3642.9	3610.7	3571.3	3614.3	3639.3
12.5°	4137.2	4065.6	3954.6	3865.0	3682.3	3607.1	3553.4	3539.0	3607.1	3621.4	3596.4
15°	4205.3	4194.6	4051.3	3850.7	3660.8	3571.3	3582.0	3553.4	3560.5	3524.7	3531.9
17.5°	4345.0	4223.2	4054.9	3804.1	3657.3	3635.8	3571.3	3456.7	3392.2	3363.5	3388.6
20°	4499.0	4380.8	4137.2	3822.0	3689.5	3632.2	3420.8	3281.1	3148.6	3077.0	3080.5
22.5°	4635.1	4488.3	4101.4	3829.2	3718.1	3481.7	3227.4	2951.6	2786.8	2675.8	2679.4
25°	4799.9	4592.2	4115.8	3843.5	3642.9	3241.7	2876.4	2607.7	2410.7	2335.5	2360.6
27.5°	4893.1	4656.6	4194.6	3875.8	3445.9	2901.4	2507.4	2256.7	2142.1	2106.2	2102.7
30°	5172.5	4799.9	4291.3	3811.3	3116.4	2536.1	2170.7	2016.7	1905.6	1873.4	1880.6
32.5°	5588.0	5061.4	4416.6	3642.9	2779.7	2210.1	1952.2	1837.6	1733.7	1672.8	1665.6
35°	5935.4	5509.2	4549.2	3381.4	2389.2	1959.4	1798.2	1654.9	1497.3	1429.2	1411.3
37.5°	6598.1	6014.2	4520.5	2987.4	2016.7	1773.1	1633.4	1457.9	1321.8	1228.6	1217.9
40°	7479.3	6605.3	4380.8	2507.4	1740.9	1608.3	1457.9	1289.5	1121.2	1042.4	1035.2
42.5°	8550.3	7328.8	4126.5	2020.3	1465.1	1443.6	1307.4	1114.0	963.6	906.3	909.8
45°	9420.7	7948.5	3868.6	1622.7	1260.9	1282.4	1164.2	981.5	877.6	831.0	831.0
47.5°	10194.5	8367.6	3589.2	1339.7	1071.0	1121.2	1017.3	909.8	820.3	784.5	777.3
50°	10939.5	8793.9	3309.8	1085.4	913.4	963.6	952.8	866.9	795.2	752.2	755.8
52.5°	11405.2	8861.9	2955.2	888.3	798.8	856.1	891.9	813.1	734.3	709.2	702.1
55°	10835.6	7984.3	2292.5	730.7	677.0	752.2	820.3	730.7	669.8	626.9	623.3
56°	10069.1	7139.0	1916.4	673.4	641.2	723.6	795.2	698.5	630.4	605.4	587.5
57.5°	8525.2	5842.3	1414.9	598.2	594.6	673.4	755.8	666.3	587.5	566.0	566.0
60°	5315.7	3288.3	856.1	501.5	515.8	598.2	680.6	594.6	523.0	523.0	533.7
62.5°	2421.5	1368.3	519.4	426.3	444.2	515.8	605.4	537.3	497.9	537.3	544.5
65°	823.9	591.0	376.1	340.3	351.0	426.3	519.4	544.5	540.9	566.0	580.3
67.5°	462.1	379.7	315.2	283.0	275.8	315.2	426.3	544.5	523.0	512.2	519.4
70°	390.4	322.4	279.4	250.7	240.0	254.3	329.5	411.9	368.9	358.2	351.0
72.5°	315.2	268.7	243.6	225.7	193.4	164.8	150.4	157.6	175.5	186.3	204.2
75°	222.1	204.2	204.2	182.7	139.7	103.9	82.4	68.1	46.6	32.2	35.8
77.5°	125.4	125.4	129.0	111.0	89.6	68.1	50.1	35.8	17.9	7.2	3.6
80°	86.0	93.1	100.3	89.6	75.2	60.9	43.0	25.1	10.7	0.0	0.0
82.5°	86.0	96.7	103.9	89.6	75.2	57.3	43.0	25.1	10.7	3.6	0.0
85°	17.9	21.5	25.1	28.7	43.0	43.0	32.2	21.5	10.7	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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

(END OF REPORT)