

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: P533960

Luminaire Tested: **GALN-SA9B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34383 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

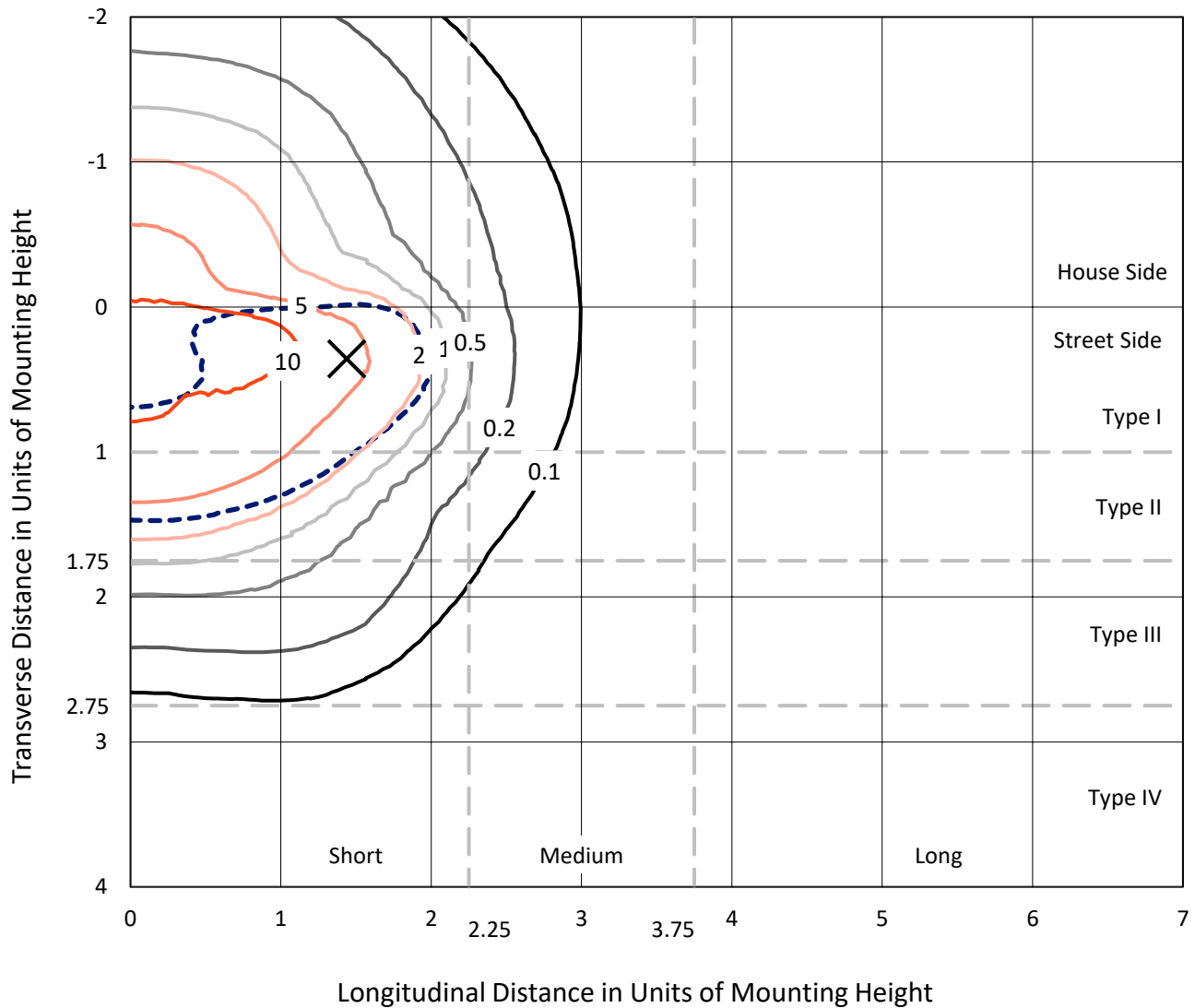
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533960
 CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

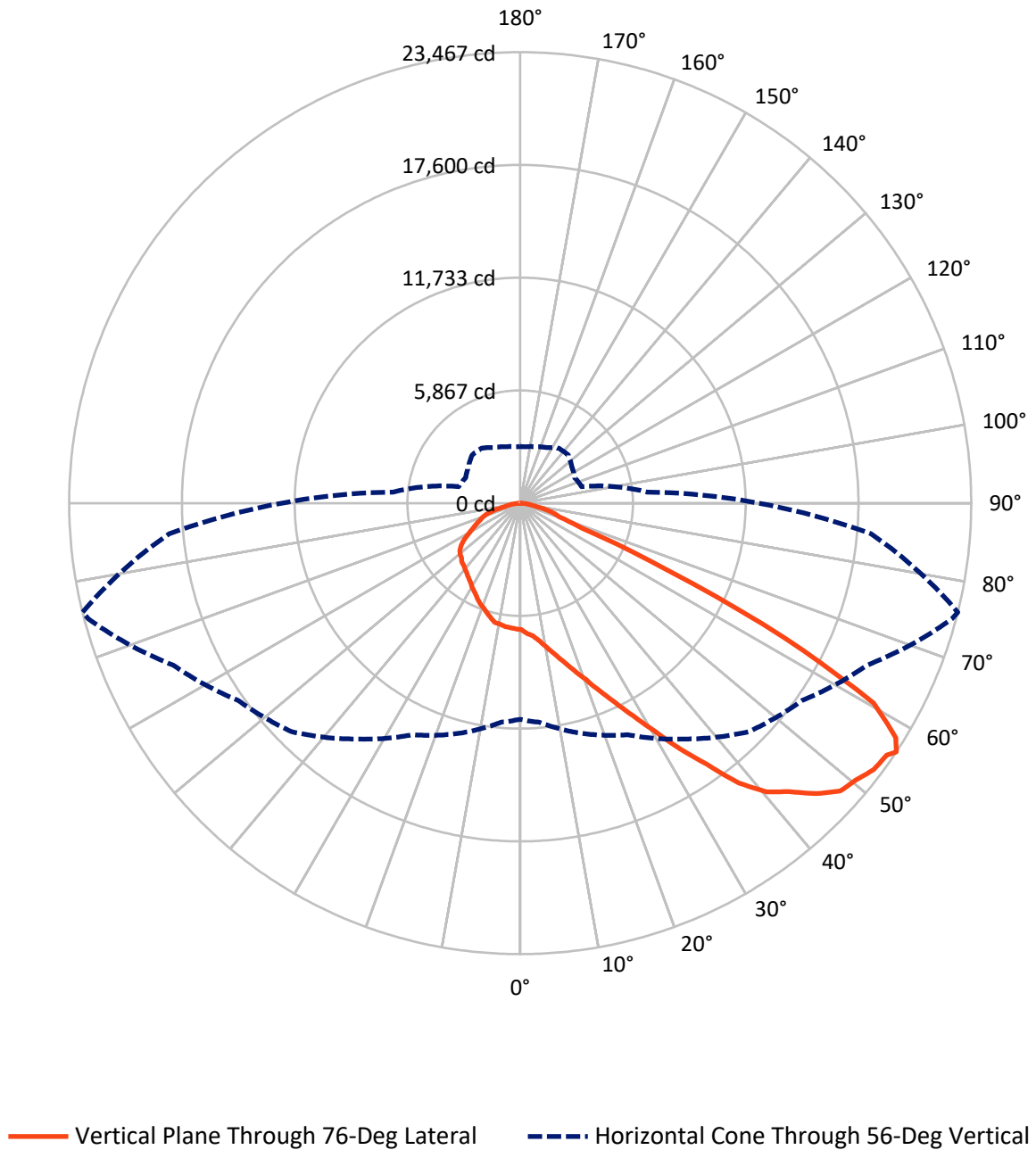
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

REPORT NUMBER: P533960
CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533960

CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

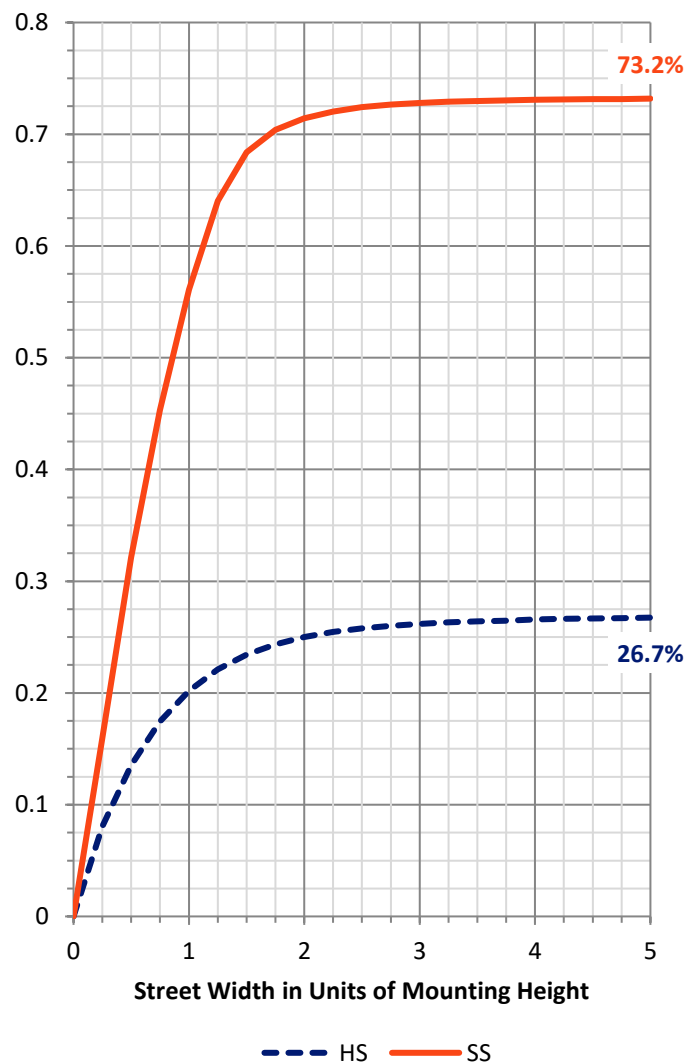
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9244.6	0.0	9244.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	25138.4	0.0	25138.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	34383.0	0.0	34383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.4	1.9
10°-20°	2049.4	6.0
20°-30°	3584.2	10.4
30°-40°	5611.8	16.3
40°-50°	8163.6	23.7
50°-60°	8972.3	26.1
60°-70°	4004.8	11.6
70°-80°	1156.8	3.4
80°-90°	187.6	0.5
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°	34383.0	100.0
0°-180°	34383.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533960

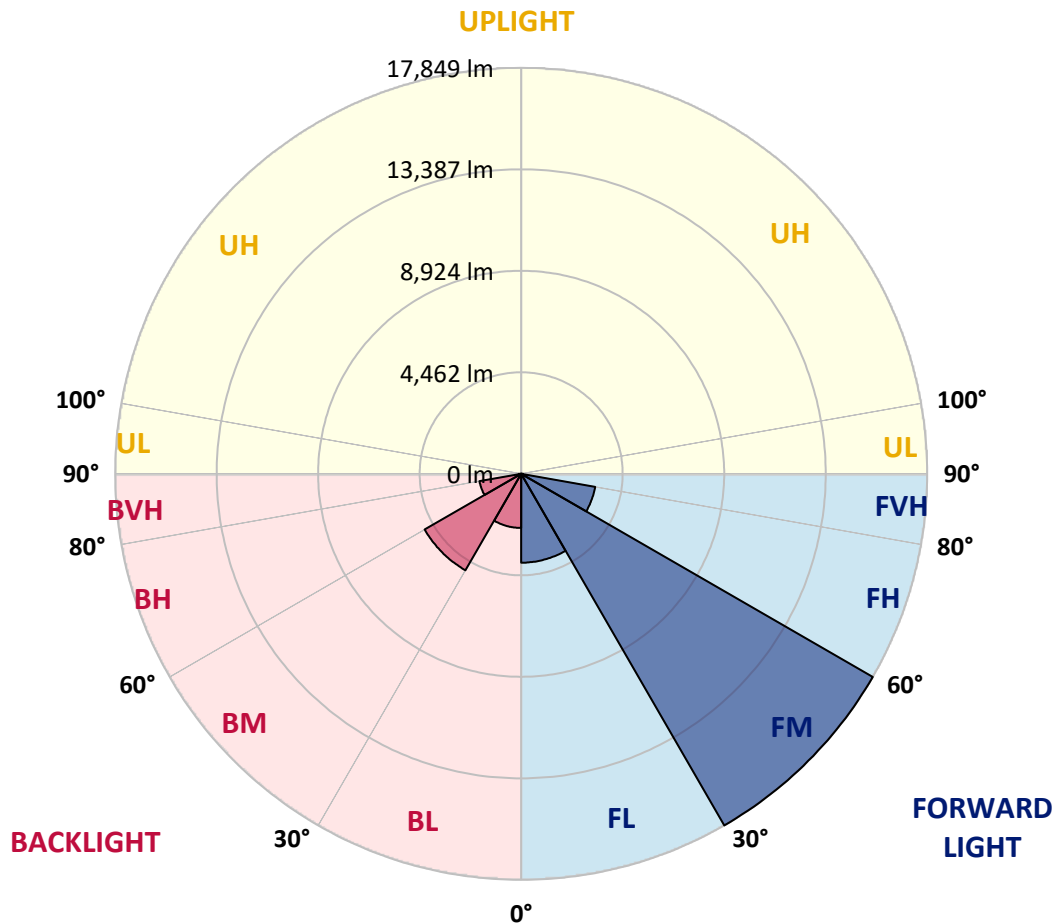
CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3907.2	11.4			
FM	(30°-60°)	17848.8	51.9			
FH	(60°-80°)	3301.6	9.6			G2/5000
FVH	(80°-90°)	80.8	0.2			G1/100
BL	(0°-30°)	2378.8	6.9	B3/2500		
BM	(30°-60°)	4898.9	14.2	B3/5000		
BH	(60°-80°)	1860.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	106.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P533960

CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7
2.5°	7247.3	7131.4	7122.5	7091.3	7109.1	7028.9	6944.2	6832.8	6716.9	6788.2	6618.9
5°	7755.4	7599.4	7661.8	7554.9	7568.2	7461.3	7287.4	7158.2	7015.5	6930.9	6810.5
7.5°	7933.7	7947.1	7991.7	7973.8	7884.7	7884.7	7768.8	7541.5	7291.9	7242.9	7042.3
10°	8174.4	8178.9	8129.8	8143.2	8268.0	8210.1	8107.5	8009.5	7688.6	7630.6	7274.1
12.5°	8259.1	8178.9	8259.1	8330.4	8477.5	8557.7	8535.4	8464.1	8120.9	8080.8	7559.3
15°	8272.5	8223.4	8290.3	8450.7	8580.0	8918.7	9088.1	9039.1	8584.5	8588.9	7880.2
17.5°	8210.1	8276.9	8303.7	8441.8	8740.5	9056.9	9547.2	9614.1	9239.7	9181.7	8285.8
20°	8294.7	8245.7	8281.4	8406.2	8802.9	9297.6	9939.4	10380.7	9854.7	9814.6	8704.8
22.5°	8620.1	8553.3	8544.3	8624.6	8909.8	9422.4	10353.9	11147.3	10603.5	10625.8	9226.3
25°	8874.2	8909.8	8878.6	8874.2	9052.5	9609.6	10902.2	12061.0	11619.8	11490.5	9841.4
27.5°	9311.0	9395.7	9333.3	9417.9	9377.8	9890.4	11294.4	13072.8	12716.2	12542.4	10398.5
30°	9917.1	9961.7	9903.8	9903.8	9783.4	10282.6	11651.0	14129.1	13982.1	13745.8	11053.7
32.5°	10715.0	10781.8	10665.9	10599.1	10581.3	10866.5	12292.8	15172.1	15421.7	15221.1	11922.9
35°	11771.3	11731.2	11593.0	11530.6	11289.9	11762.4	13246.6	16371.1	17026.3	16669.7	12974.7
37.5°	12702.9	12640.5	12631.5	12283.9	12341.8	12729.6	14057.8	17280.3	18581.8	18479.3	14084.6
40°	13572.0	13629.9	13723.5	13527.4	13438.3	13866.2	15002.7	17975.7	19789.7	19749.6	14940.3
42.5°	14503.5	14450.1	14615.0	14450.1	14316.3	14922.5	16027.9	18457.0	20850.5	20520.7	15836.2
45°	15854.1	15684.7	15742.6	15756.0	15657.9	15880.8	16451.3	18804.7	21594.9	21559.2	16491.4
47.5°	16981.7	16986.2	16888.1	16812.3	16513.7	16736.6	16923.8	19023.1	22450.6	22392.7	16745.5
50°	17400.7	17342.7	17628.0	17792.9	17810.8	17356.1	17293.7	19143.4	22900.8	22646.8	16999.5
52.5°	15894.2	15947.7	16397.8	17378.4	17944.5	17993.5	17726.1	19393.0	23083.6	23030.1	17204.6
55°	12792.0	13050.5	13790.4	14922.5	16264.1	17739.4	18194.1	19651.6	23181.6	23137.0	18113.8
56°	11245.4	11445.9	12408.7	13295.7	14980.5	16816.8	17899.9	19927.9	23257.4	23466.9	18327.8
57.5°	9052.5	9284.2	9975.1	10982.4	12970.3	15060.7	17088.7	19589.2	22963.2	23043.4	18483.8
60°	5660.6	5682.9	6511.9	7176.0	8575.5	10616.9	13041.6	17044.1	21251.7	21135.8	16602.9
62.5°	3712.8	3717.3	4470.5	5014.3	5651.7	6119.7	7675.2	11303.3	15680.2	15475.2	11820.3
65°	2607.4	2665.4	3249.3	3975.8	4234.3	3989.1	3940.1	5959.2	8758.3	8464.1	6351.4
67.5°	1907.7	1912.1	2429.1	3209.1	3583.5	3035.3	2464.8	2910.5	3467.7	3458.7	2941.7
70°	1261.4	1314.9	1711.5	2397.9	2825.8	2438.1	2014.6	2081.5	2206.3	2206.3	2188.5
72.5°	735.4	784.5	1047.4	1519.9	1586.7	1524.3	1595.7	1782.9	1863.1	1858.6	1836.3
75°	419.0	441.3	499.2	632.9	788.9	931.5	1172.2	1350.5	1430.7	1479.8	1421.8
77.5°	245.1	258.5	294.2	361.0	410.1	503.7	637.4	762.2	869.1	855.8	864.7
80°	129.3	129.3	164.9	213.9	285.3	356.6	423.4	494.7	552.7	566.1	579.4
82.5°	75.8	80.2	107.0	156.0	205.0	254.1	325.4	374.4	427.9	432.3	441.3
85°	40.1	44.6	66.9	102.5	138.2	156.0	160.5	151.5	164.9	156.0	178.3
87.5°	13.4	13.4	22.3	17.8	17.8	22.3	26.7	26.7	35.7	35.7	35.7
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: P533960

CATALOG NUMBER: GALN-SA9B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7	6578.7
2.5°	6614.4	6614.4	6538.6	6396.0	6373.7	6315.8	6262.3	6257.8	6217.7	6182.1	6164.2
5°	6739.2	6601.0	6489.6	6360.3	6208.8	6137.5	6057.3	5968.1	5932.5	5968.1	5963.7
7.5°	6881.8	6765.9	6431.7	6191.0	6017.1	5945.8	5856.7	5763.1	5772.0	5772.0	5709.6
10°	7020.0	6864.0	6329.1	6021.6	5767.5	5714.1	5665.0	5700.7	5745.3	5754.2	5714.1
12.5°	7251.8	6899.7	6280.1	5852.2	5691.8	5575.9	5607.1	5705.1	5798.7	5772.0	5803.2
15°	7425.6	6930.9	6057.3	5678.4	5477.8	5531.3	5642.7	5709.6	5865.6	5847.8	5879.0
17.5°	7595.0	6948.7	5838.9	5446.6	5361.9	5509.0	5593.7	5785.4	5834.4	5941.4	5981.5
20°	7942.6	6984.3	5616.0	5304.0	5277.3	5446.6	5593.7	5682.9	5789.8	5883.4	5883.4
22.5°	8120.9	6966.5	5468.9	5116.8	5201.5	5308.5	5442.2	5593.7	5593.7	5682.9	5687.3
25°	8343.8	6895.2	5237.1	5027.7	5090.1	5192.6	5344.1	5290.6	5348.6	5348.6	5419.9
27.5°	8597.8	6743.7	5036.6	4867.2	4992.0	5103.4	5125.7	5090.1	5023.2	5014.3	4987.5
30°	8802.9	6556.5	4889.5	4813.7	4916.2	4978.6	4907.3	4831.5	4715.7	4706.7	4644.3
32.5°	9083.7	6324.7	4706.7	4680.0	4795.9	4800.3	4778.1	4662.2	4492.8	4421.5	4350.2
35°	9556.1	6191.0	4568.6	4608.7	4644.3	4631.0	4590.9	4466.1	4296.7	4265.5	4238.7
37.5°	9903.8	6092.9	4425.9	4475.0	4506.2	4524.0	4403.7	4265.5	4269.9	4207.5	4189.7
40°	10296.0	6030.5	4310.1	4332.3	4336.8	4394.7	4247.7	4180.8	4212.0	4171.9	4198.6
42.5°	10799.7	6048.3	4189.7	4171.9	4256.6	4234.3	4163.0	4073.8	4091.7	3971.3	3989.1
45°	11067.1	6168.7	4118.4	4038.2	4131.8	4127.3	4033.7	3949.0	3842.1	3610.3	3619.2
47.5°	11245.4	6199.9	3949.0	3895.5	3993.6	4051.5	3944.6	3748.5	3596.9	3432.0	3391.9
50°	11428.1	6257.8	3868.8	3757.4	3797.5	3935.7	3801.9	3614.7	3467.7	3320.6	3342.9
52.5°	11588.6	6369.3	3712.8	3547.9	3619.2	3770.7	3699.4	3472.1	3311.7	3191.3	3155.7
55°	12301.7	6618.9	3449.8	3235.9	3405.3	3596.9	3556.8	3280.5	3106.6	3044.2	3035.3
56°	12413.1	6627.8	3311.7	3128.9	3284.9	3539.0	3489.9	3195.8	3039.8	2941.7	2946.2
57.5°	12431.0	6520.8	3115.5	3030.9	3164.6	3454.3	3391.9	3128.9	2915.0	2825.8	2799.1
60°	10937.8	5090.1	2870.4	2816.9	2972.9	3195.8	3173.5	2946.2	2705.5	2603.0	2652.0
62.5°	7456.8	3730.6	2678.7	2669.8	2750.1	2968.5	2910.5	2705.5	2504.9	2438.1	2406.9
65°	4341.3	2830.3	2491.5	2455.9	2522.7	2638.6	2678.7	2464.8	2255.3	2210.7	2197.4
67.5°	2562.9	2340.0	2250.9	2192.9	2170.6	2241.9	2273.1	2148.3	1938.9	1876.5	1929.9
70°	2143.9	2081.5	2085.9	1987.9	1934.4	1885.4	1858.6	1747.2	1573.4	1493.1	1470.9
72.5°	1849.7	1823.0	1805.1	1716.0	1667.0	1555.5	1439.7	1328.2	1199.0	1132.1	1136.6
75°	1412.9	1404.0	1412.9	1368.3	1283.7	1194.5	1087.5	944.9	846.9	762.2	780.0
77.5°	842.4	869.1	882.5	864.7	829.0	748.8	681.9	588.3	494.7	427.9	419.0
80°	579.4	601.7	624.0	601.7	566.1	508.1	436.8	365.5	298.6	263.0	254.1
82.5°	441.3	463.5	476.9	454.6	410.1	347.7	298.6	249.6	196.1	160.5	151.5
85°	160.5	182.7	178.3	213.9	231.8	222.9	191.7	147.1	111.4	80.2	75.8
87.5°	44.6	40.1	44.6	44.6	44.6	40.1	35.7	35.7	35.7	22.3	17.8
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)