

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: P647601

Luminaire Tested: **GALN-SA8D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40030.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

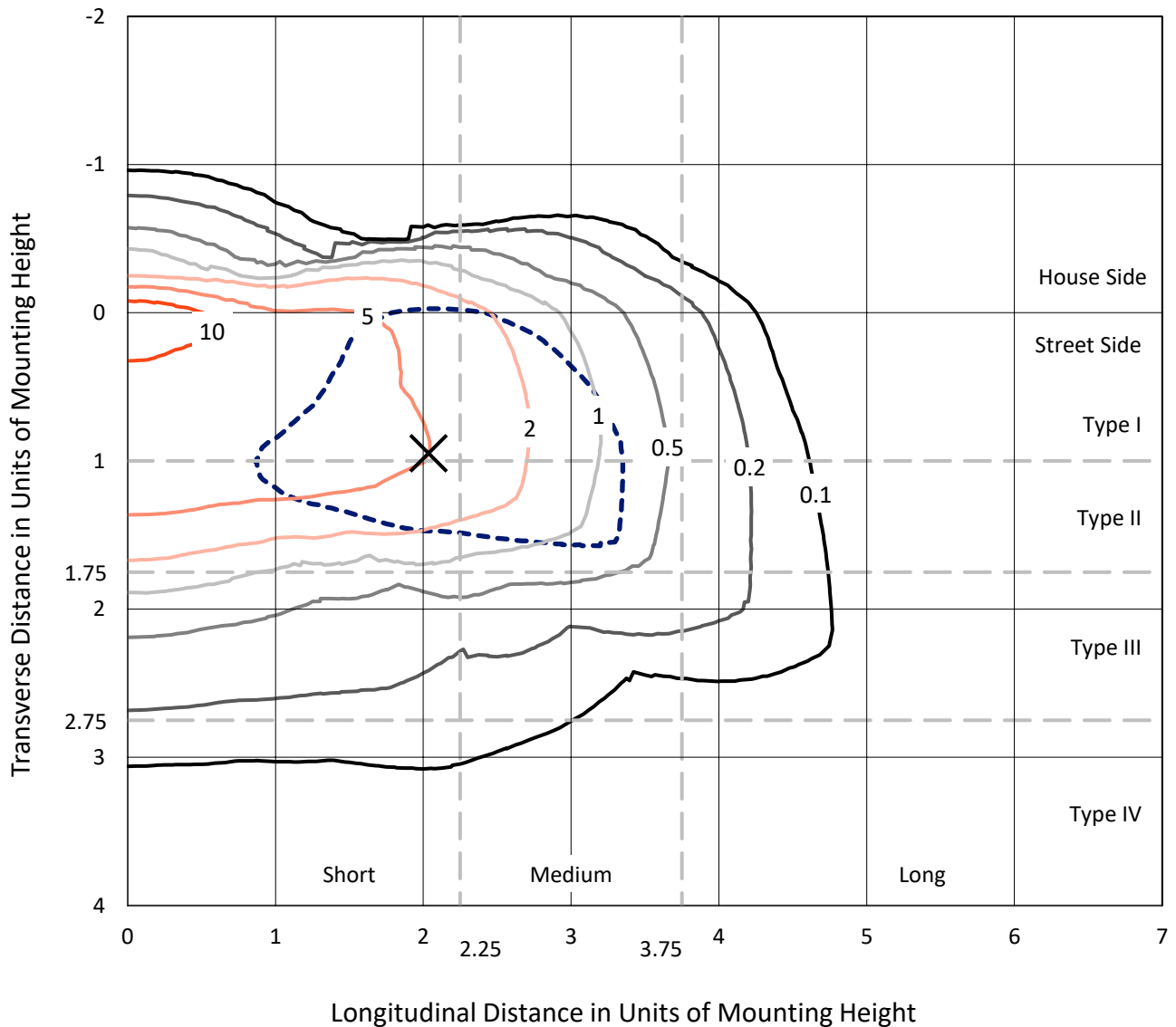
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647601
 CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

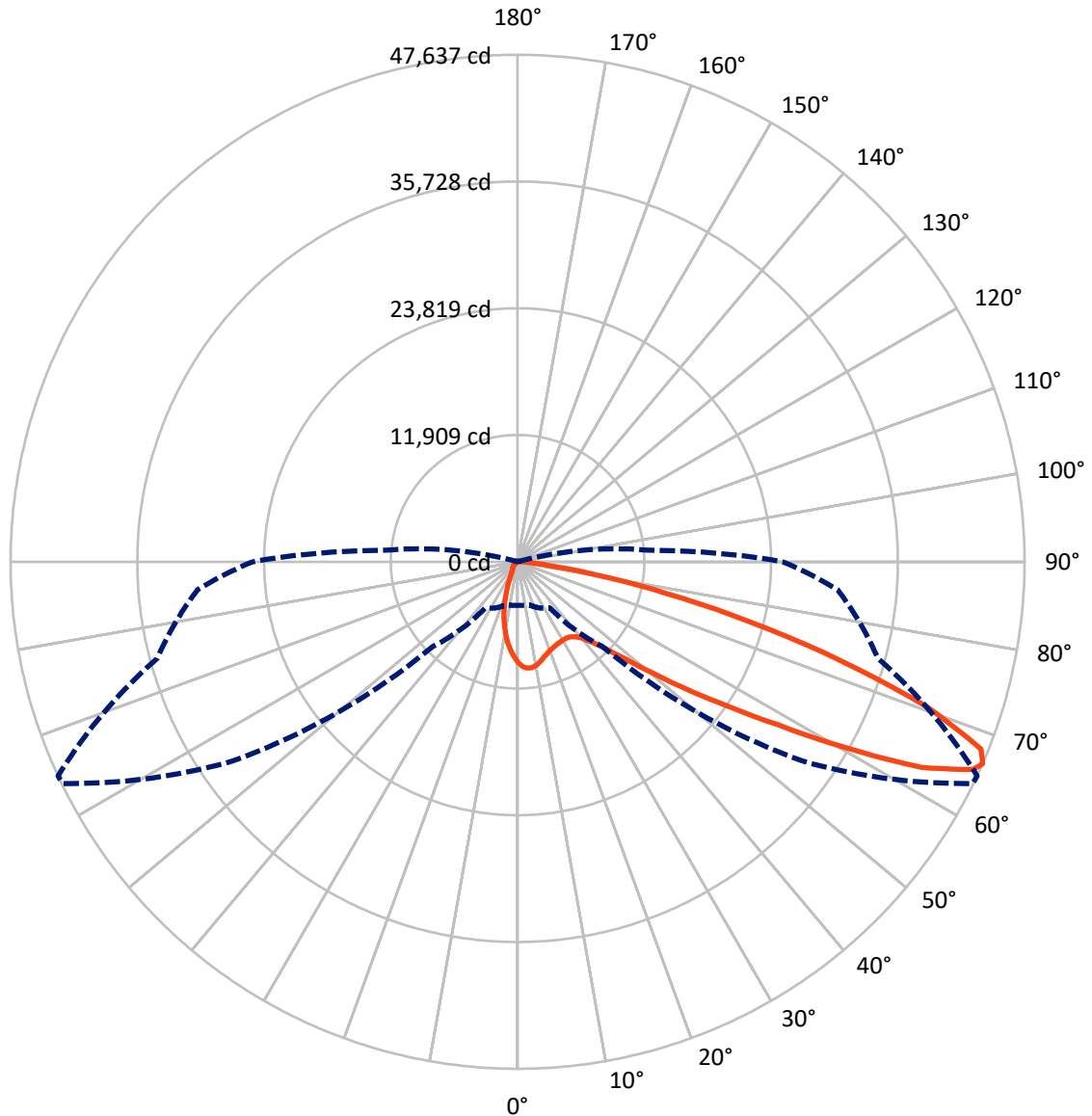
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P647601
CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P647601
 CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

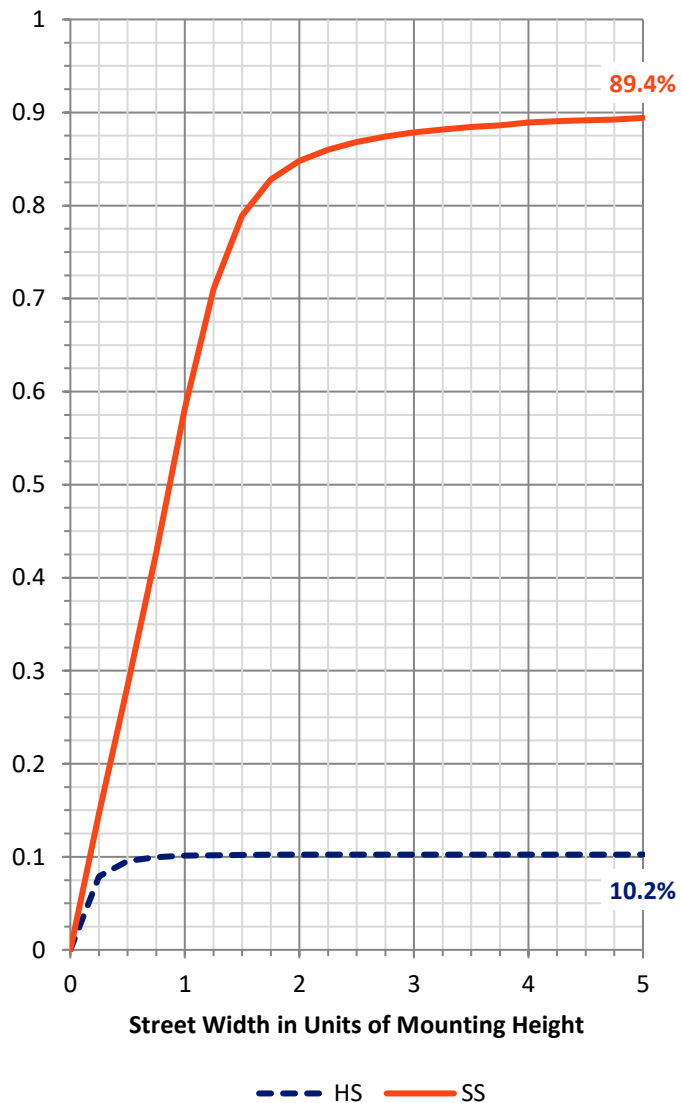
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4139.7	0.0	4139.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	35891.1	0.0	35891.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	40030.9	0.0	40030.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.4	1.9
10°-20°	1691.6	4.2
20°-30°	2423.2	6.1
30°-40°	3539.3	8.8
40°-50°	5934.8	14.8
50°-60°	9904.2	24.7
60°-70°	10513.0	26.3
70°-80°	4761.3	11.9
80°-90°	487.2	1.2
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°	40030.9	100.0
0°-180°	40030.9	100.0

Coefficient of Utilization

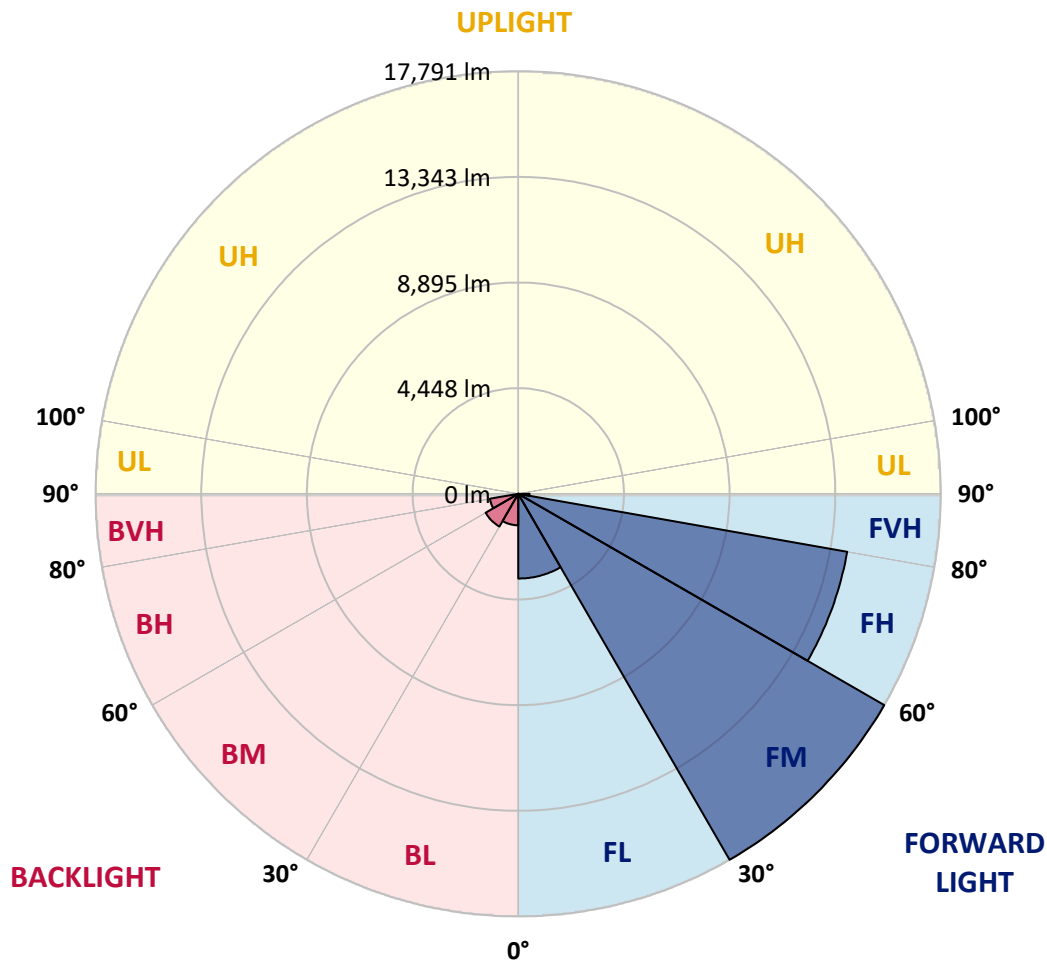


REPORT NUMBER: P647601
 CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3566.9	8.9			
FM (30°-60°)	17790.6	44.4			
FH (60°-80°)	14061.9	35.1			G5
FVH (80°-90°)	471.7	1.2			G3/500
BL (0°-30°)	1324.3	3.3	B3/2500		
BM (30°-60°)	1587.6	4.0	B2/2500		
BH (60°-80°)	1212.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





REPORT NUMBER: P647601

CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8
2.5°	10003.8	10014.6	10028.1	10047.1	10060.6	10020.1	9963.3	9898.4	9884.8	9746.9	9579.3
5°	9468.4	9484.7	9603.7	9668.6	9814.5	9947.0	10030.9	10041.7	10036.3	9906.4	9638.8
7.5°	8706.0	8752.0	8868.3	8981.8	9254.9	9506.3	9803.7	10011.9	10025.5	9990.3	9657.8
10°	8086.8	8116.6	8176.1	8400.5	8627.6	9011.5	9427.9	9819.9	9852.4	9993.0	9641.5
12.5°	7602.9	7646.2	7719.1	7892.2	8165.3	8527.6	9000.7	9527.9	9595.5	9941.6	9595.5
15°	7264.9	7286.5	7359.6	7529.9	7794.8	8130.1	8608.7	9222.4	9281.9	9874.0	9587.4
17.5°	7105.4	7129.8	7181.1	7316.3	7535.3	7846.2	8314.0	8976.4	9052.1	9830.8	9617.2
20°	7148.6	7170.3	7173.0	7243.3	7392.0	7654.3	8097.7	8746.6	8843.9	9803.7	9665.8
22.5°	7394.7	7397.4	7365.0	7332.5	7383.9	7573.2	7965.2	8600.6	8700.6	9798.3	9722.6
25°	7762.4	7770.5	7716.5	7602.9	7500.1	7597.4	7935.5	8506.0	8595.1	9784.8	9757.7
27.5°	8270.7	8268.0	8251.8	8062.6	7770.5	7705.7	7959.7	8454.6	8530.2	9746.9	9771.3
30°	8981.8	8960.2	8925.0	8711.4	8265.3	7967.9	8062.6	8422.1	8492.4	9692.8	9736.1
32.5°	9682.0	9763.1	9757.7	9554.9	8998.0	8435.7	8276.2	8465.4	8516.8	9657.8	9684.8
35°	10498.6	10495.9	10704.1	10628.4	9976.8	9033.2	8641.1	8608.7	8649.3	9682.0	9660.4
37.5°	11255.6	11325.9	11650.3	11728.8	11133.9	9876.8	9157.5	8916.9	8930.4	9847.0	9719.9
40°	12199.2	12334.4	12818.4	13080.6	12556.1	11128.5	9920.0	9482.0	9484.7	10252.5	9944.3
42.5°	13415.9	13629.5	14081.0	14519.0	14237.8	12610.2	11063.6	10376.9	10371.5	10966.3	10458.1
45°	14894.9	15043.5	15557.3	16252.1	16073.7	14678.6	12729.2	11763.9	11693.6	12137.0	11369.2
47.5°	16171.0	16373.8	16895.6	17687.8	18498.9	17203.8	14719.1	13670.1	13624.1	13999.9	12931.9
50°	16728.0	16906.5	17455.3	18566.5	20532.1	20518.6	17682.4	16452.2	16373.8	16576.6	15349.1
52.5°	16117.0	16284.6	16838.8	18223.2	21489.3	24558.0	21975.9	19942.7	19848.1	19588.5	18236.7
55°	14024.2	14162.1	14981.4	16571.2	21121.5	27250.9	27891.7	24255.1	23887.5	22878.9	21505.5
57.5°	11166.4	11096.1	11604.4	13451.1	18963.9	28153.9	33964.3	29627.5	28970.5	25723.3	24271.4
60°	7738.1	7954.3	8159.9	9376.5	14259.4	26588.5	37741.4	36381.4	35516.2	28521.6	26921.0
62.5°	5688.7	5831.9	5967.2	6529.5	8965.6	21229.7	38409.2	43319.2	42551.3	31493.0	29449.0
65°	4499.0	4509.8	4563.9	5118.2	5907.7	13805.2	35199.8	47231.5	47034.1	34353.6	30473.7
66°	4098.8	4101.6	4185.4	4780.2	5302.0	11242.1	32628.6	47528.9	47637.0	35040.3	30173.6
67.5°	3582.5	3571.7	3693.3	4296.2	4828.8	8105.8	28026.9	46323.0	46963.8	35567.5	29094.9
70°	2776.8	2763.2	2911.9	3604.1	4447.7	5407.5	18628.7	39774.6	40807.4	34488.8	25742.2
72.5°	1849.4	1860.2	2114.3	2844.3	4244.9	4761.3	11207.0	30257.5	31717.5	28481.1	20251.0
75°	1078.8	1097.7	1387.0	2114.3	3685.2	4539.6	6342.9	21575.8	22508.6	19666.9	12615.6
77.5°	565.1	573.2	776.0	1395.1	2825.4	4215.1	4225.9	13783.6	14221.6	9557.7	4993.8
80°	300.1	292.0	416.4	840.9	1944.0	3701.4	3428.4	7297.4	7586.6	2838.9	1262.7
82.5°	113.5	124.3	221.7	551.5	1149.1	2657.7	2952.5	3225.6	3125.5	624.6	529.9
85°	21.6	27.0	94.7	327.1	578.6	1111.2	2176.5	1581.7	1465.4	235.2	305.5
87.5°	2.7	5.4	27.0	78.4	83.8	375.8	643.5	438.0	378.5	86.5	127.1
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: P647601
 CATALOG NUMBER: GALN-SA8D-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8
2.5°	9498.2	9425.2	9181.8	8941.2	8695.2	8473.5	8322.1	8076.0	8013.8	7924.7	7873.3
5°	9479.3	9308.9	8841.2	8330.2	7854.4	7340.6	6948.6	6570.1	6367.3	6264.5	6226.7
7.5°	9425.2	9154.8	8424.8	7624.5	6862.1	6094.2	5426.4	4918.1	4591.0	4366.6	4215.1
10°	9317.1	8944.0	7940.9	6840.4	5688.7	4674.7	3828.5	3185.0	2687.5	2530.7	2536.1
12.5°	9206.2	8708.7	7400.1	5969.8	4542.3	3263.4	2365.8	1857.4	1619.6	1541.1	1524.9
15°	9103.5	8484.3	6870.2	5126.3	3382.4	2114.3	1524.9	1346.4	1281.5	1268.1	1265.3
17.5°	9049.4	8276.2	6305.1	4161.0	2360.4	1435.7	1222.1	1173.4	1154.5	1141.0	1135.6
20°	9003.4	8095.0	5764.4	3258.0	1614.2	1176.1	1095.0	1049.1	1016.6	1003.1	995.0
22.5°	8971.0	7908.4	5204.7	2522.6	1235.6	1043.7	970.6	911.2	865.2	849.0	838.1
25°	8922.3	7702.9	4639.6	1844.0	1040.9	927.4	843.5	773.3	713.8	684.0	678.6
27.5°	8852.0	7470.4	4020.5	1365.4	930.0	824.7	721.9	635.4	575.9	543.5	546.1
30°	8738.4	7227.1	3401.3	1084.2	840.9	719.2	608.3	524.5	467.8	443.4	440.7
32.5°	8603.3	6932.4	2833.5	930.0	759.7	624.6	508.3	435.3	392.0	373.1	370.4
35°	8476.2	6635.0	2254.9	835.5	676.0	538.1	427.2	365.0	332.5	316.3	319.1
37.5°	8405.9	6370.0	1757.4	759.7	608.3	462.4	367.7	313.7	283.9	270.4	267.7
40°	8451.9	6153.7	1397.8	692.2	532.6	397.5	316.3	270.4	240.6	221.7	221.7
42.5°	8668.1	6059.1	1127.4	627.3	462.4	343.3	275.8	232.6	200.1	181.2	183.8
45°	9327.9	6159.1	943.6	567.8	397.5	297.4	238.0	192.0	162.2	148.7	146.0
47.5°	10422.9	6534.9	816.5	505.6	340.7	254.2	200.1	159.5	129.7	118.9	116.3
50°	12337.1	7310.9	721.9	443.4	289.3	216.3	164.9	127.1	102.7	91.9	91.9
52.5°	14970.6	9003.4	654.3	373.1	243.4	183.8	135.2	102.7	81.1	73.0	70.3
55°	17723.0	10787.9	619.1	313.7	202.8	151.4	108.1	81.1	62.2	54.1	51.4
57.5°	20369.9	12188.4	578.6	254.2	162.2	116.3	83.8	62.2	43.2	37.8	35.2
60°	22908.7	13321.3	492.1	202.8	127.1	83.8	62.2	43.2	29.8	24.4	24.4
62.5°	25179.9	13981.0	386.6	162.2	97.3	59.5	40.6	32.4	21.6	16.2	16.2
65°	25444.8	13123.9	292.0	124.3	70.3	37.8	24.4	24.4	16.2	10.8	10.8
66°	24912.2	12396.6	256.8	113.5	62.2	32.4	21.6	18.9	13.5	8.1	8.1
67.5°	23722.6	11155.6	221.7	97.3	51.4	24.4	16.2	16.2	10.8	5.4	5.4
70°	20497.0	9111.5	175.7	73.0	37.8	18.9	10.8	10.8	8.1	5.4	5.4
72.5°	15622.2	6802.5	143.3	54.1	27.0	13.5	8.1	8.1	8.1	5.4	5.4
75°	9422.5	3663.6	110.9	40.6	24.4	10.8	5.4	8.1	10.8	8.1	5.4
77.5°	3471.6	1246.5	86.5	32.4	18.9	10.8	5.4	5.4	10.8	8.1	8.1
80°	851.7	324.5	62.2	27.0	18.9	10.8	5.4	5.4	10.8	10.8	10.8
82.5°	394.7	137.9	43.2	24.4	18.9	10.8	5.4	5.4	8.1	10.8	10.8
85°	227.1	64.9	35.2	27.0	18.9	10.8	5.4	5.4	8.1	10.8	10.8
87.5°	91.9	32.4	32.4	27.0	21.6	13.5	5.4	5.4	5.4	8.1	8.1
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)