

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: P191034

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 19874.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

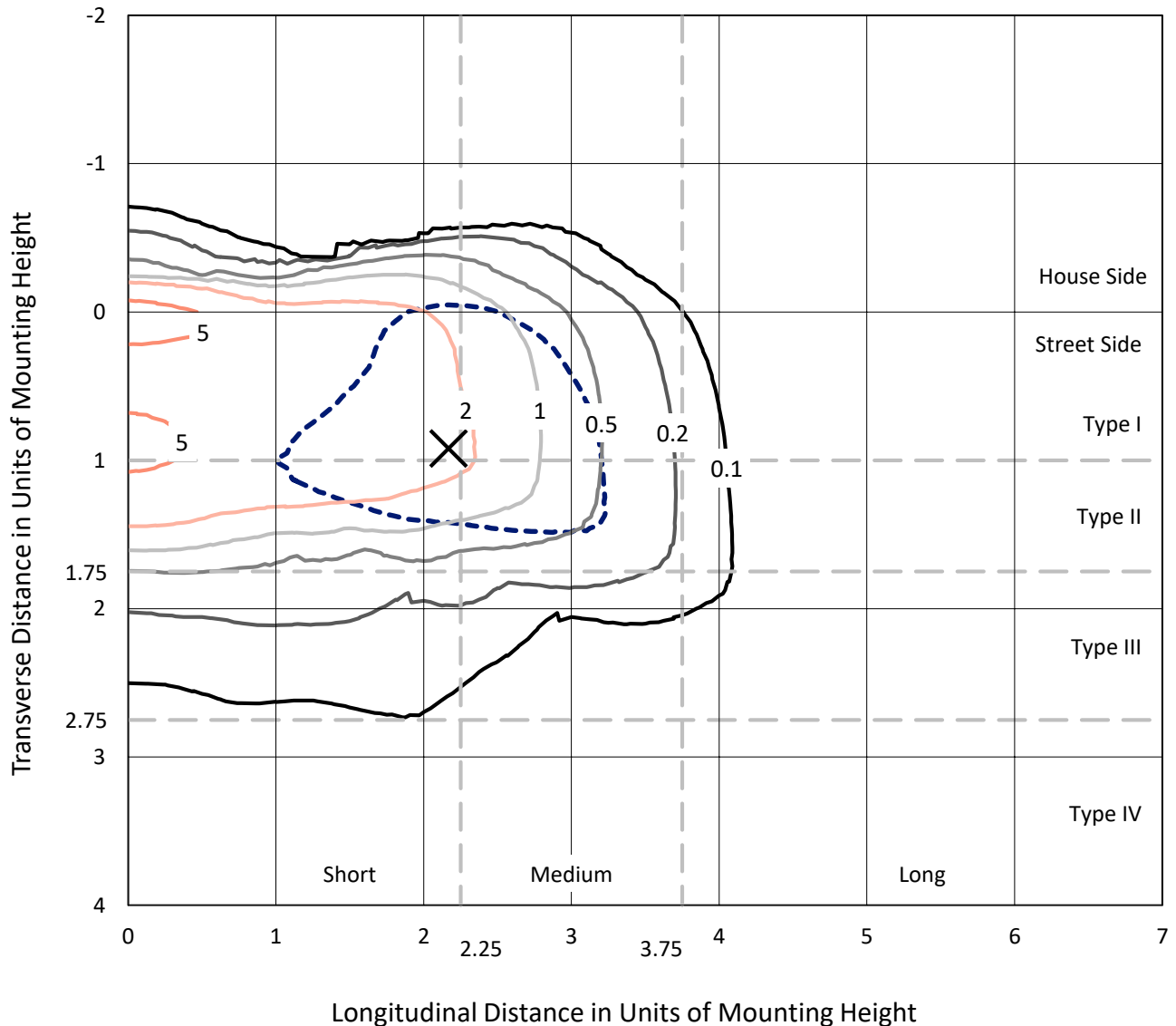
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

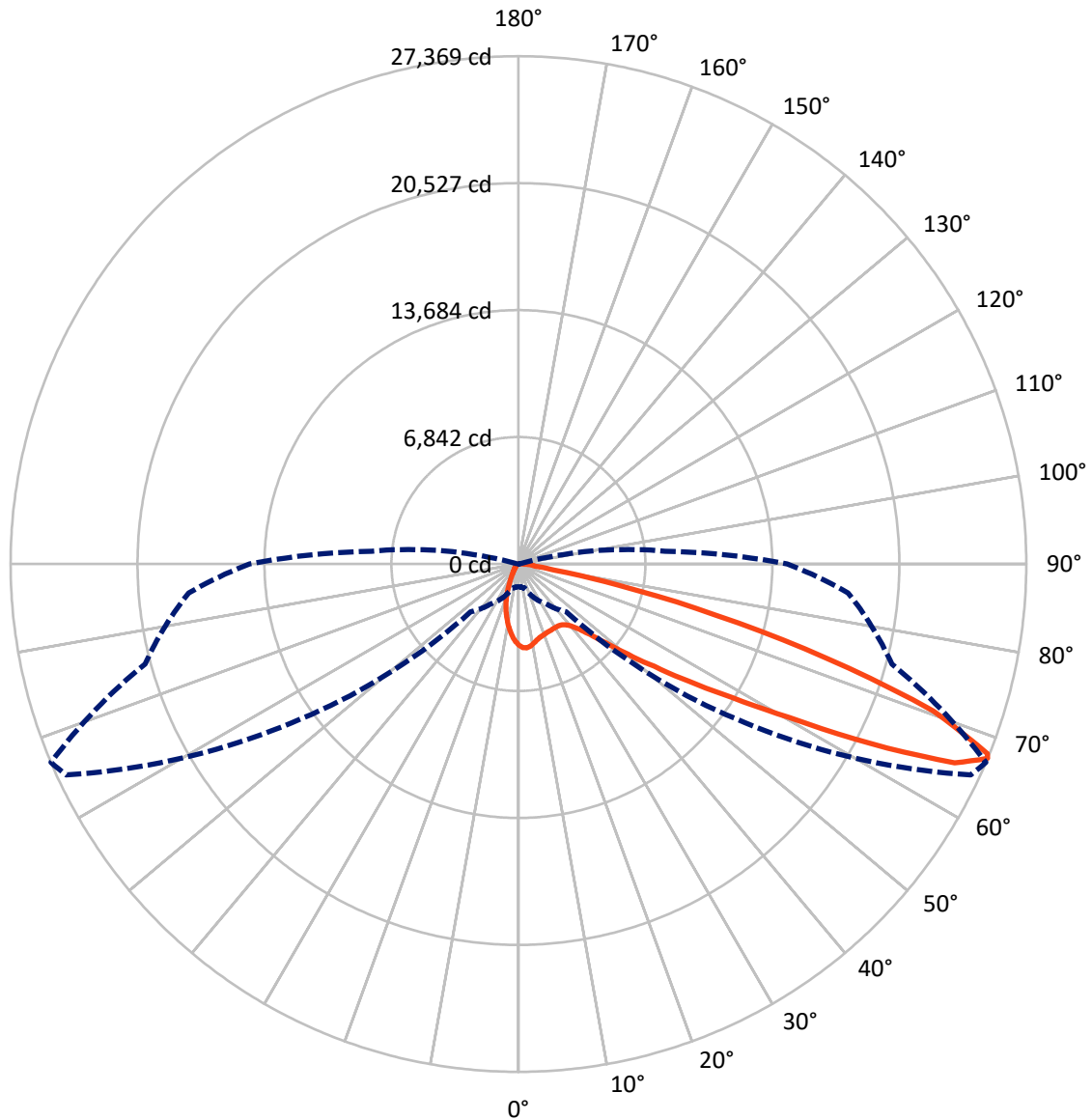
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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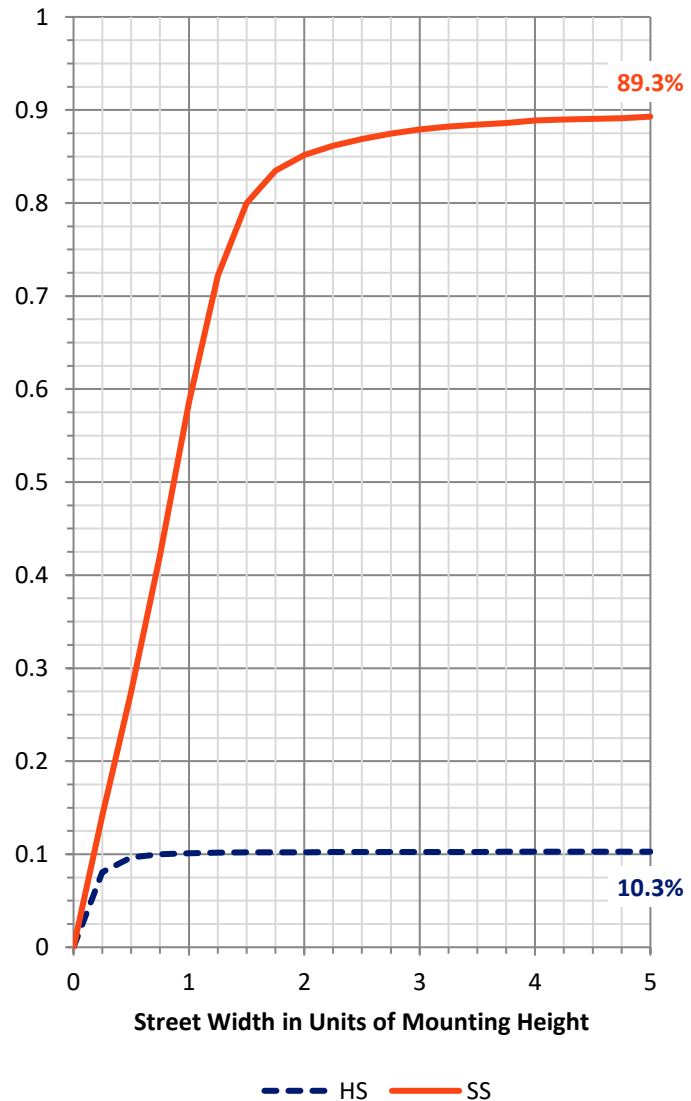
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.6	0.0	2063.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17811.3	0.0	17811.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	19874.9	0.0	19874.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	1.8
10°-20°	759.1	3.8
20°-30°	1103.6	5.6
30°-40°	1721.7	8.7
40°-50°	3050.0	15.3
50°-60°	4826.3	24.3
60°-70°	5527.8	27.8
70°-80°	2292.9	11.5
80°-90°	236.8	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°	19874.9	100.0
0°-180°	19874.9	100.0

Coefficient of Utilization



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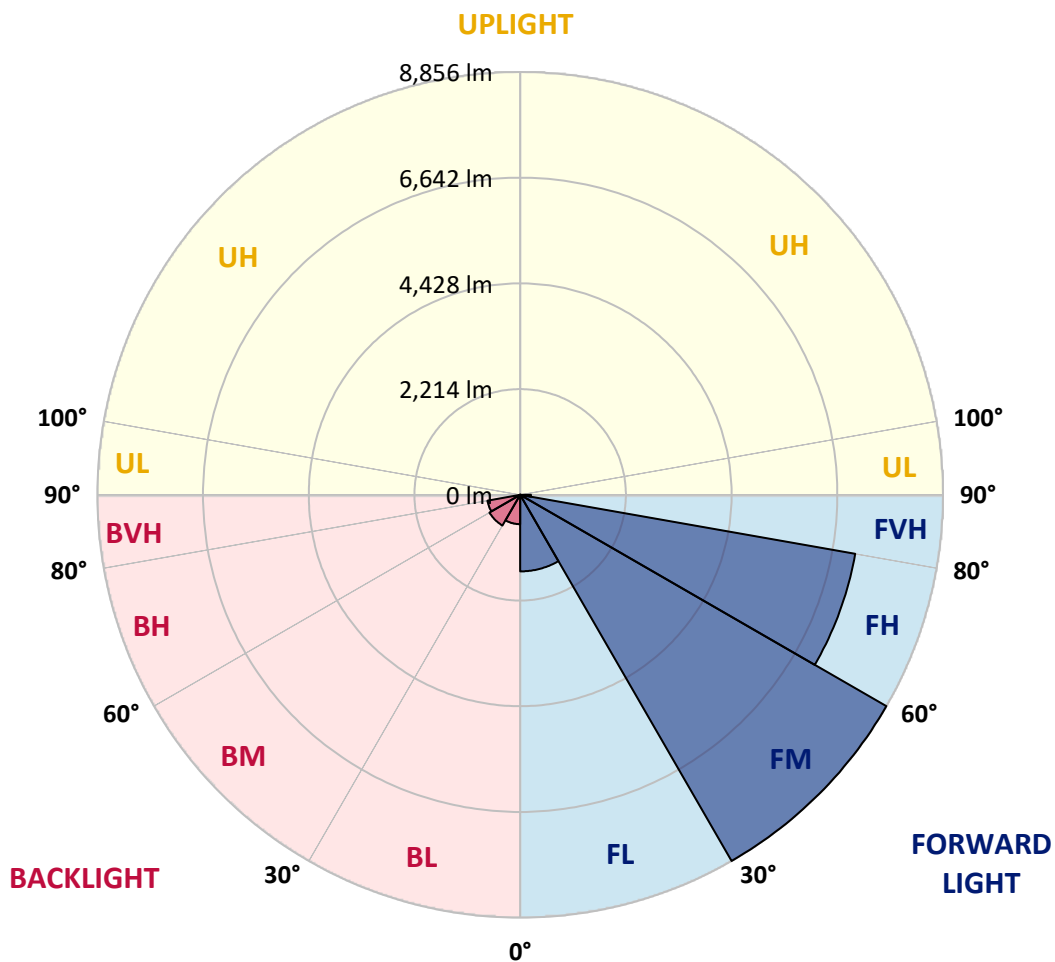
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.6	8.1			
FM (30°-60°)	8856.3	44.6			
FH (60°-80°)	7125.2	35.9			G3/7500
FVH (80°-90°)	226.2	1.1			G3/500
BL (0°-30°)	615.8	3.1	B2/1000		
BM (30°-60°)	741.7	3.7	B1/1000		
BH (60°-80°)	695.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1
2.5°	4531.6	4540.8	4539.7	4546.6	4562.9	4564.0	4547.7	4516.4	4509.5	4469.0	4398.2
5°	4179.2	4205.8	4222.0	4288.1	4362.3	4451.6	4518.8	4543.1	4539.7	4510.7	4404.0
7.5°	3776.8	3803.5	3822.1	3899.7	3998.3	4151.3	4326.4	4470.1	4482.9	4514.2	4399.4
10°	3509.0	3513.7	3539.2	3613.4	3716.6	3873.1	4081.8	4333.3	4371.6	4486.4	4387.7
12.5°	3288.8	3292.3	3325.9	3405.9	3516.0	3673.7	3892.7	4183.8	4242.9	4451.6	4385.5
15°	3132.3	3145.1	3175.2	3258.7	3375.7	3532.2	3757.2	4073.6	4144.4	4438.8	4406.4
17.5°	3080.1	3094.0	3103.3	3163.6	3270.3	3423.3	3654.0	4001.8	4081.8	4445.7	4446.9
20°	3134.6	3145.1	3124.2	3139.2	3205.3	3342.2	3567.0	3940.3	4035.3	4453.8	4499.0
22.5°	3337.5	3342.2	3285.3	3219.2	3207.7	3283.1	3498.6	3891.6	3993.6	4475.9	4560.5
25°	3685.3	3677.2	3584.4	3441.8	3307.4	3272.6	3458.1	3861.5	3972.7	4499.0	4624.2
27.5°	4104.9	4116.6	3989.0	3781.5	3525.3	3342.2	3452.3	3848.8	3963.5	4515.3	4679.9
30°	4615.0	4631.2	4485.1	4224.4	3856.8	3513.7	3505.6	3846.4	3957.7	4504.9	4684.6
32.5°	5135.5	5155.3	5040.5	4771.6	4299.7	3801.2	3626.2	3871.9	3969.3	4469.0	4657.9
35°	5680.3	5708.2	5631.7	5401.0	4900.1	4216.2	3838.3	3949.6	4023.8	4465.5	4631.2
37.5°	6432.7	6458.2	6314.5	6069.9	5627.0	4772.7	4179.2	4095.7	4152.5	4521.1	4638.2
40°	7556.0	7552.5	7181.6	6807.1	6425.8	5479.8	4657.9	4359.9	4389.0	4689.2	4724.0
42.5°	8780.2	8774.5	8226.1	7656.9	7312.6	6350.4	5287.3	4816.7	4797.0	4998.8	4946.6
45°	9723.9	9722.7	9275.2	8634.1	8380.3	7349.7	6101.2	5452.0	5421.8	5501.8	5356.9
47.5°	10126.1	10133.0	9908.2	9457.2	9563.9	8701.4	7127.1	6372.5	6327.3	6294.7	6074.5
50°	9813.1	9827.0	9845.6	9757.5	10432.2	10518.0	8503.2	7669.7	7647.6	7502.7	7158.4
52.5°	8790.6	8861.4	9079.3	9358.7	10733.5	12261.5	10660.6	9281.0	9162.8	9008.6	8629.5
55°	7068.0	7145.6	7559.5	8237.7	10285.0	13406.8	13683.9	11358.4	11161.3	10701.1	10153.9
57.5°	4677.6	4798.2	5398.6	6261.2	8981.9	13591.1	16700.3	14241.5	13555.2	12295.1	11678.3
60°	2577.0	2692.9	3344.4	4125.8	6487.2	12680.0	18729.0	17995.1	16782.5	14076.8	13529.6
62.5°	1587.0	1649.6	2130.7	2857.6	3890.5	10007.8	19148.6	22712.2	21308.3	16371.0	15765.9
65°	1263.5	1290.2	1525.6	2335.9	2789.2	5952.8	17793.4	26308.1	25839.8	19148.6	17767.9
67°	1226.5	1237.0	1348.2	2005.5	2629.2	3649.4	14906.8	26893.6	27368.9	20829.5	17830.5
67.5°	1234.6	1246.2	1351.7	1913.9	2624.6	3353.7	13912.2	26662.9	27263.4	20962.8	17553.4
70°	1190.5	1226.5	1547.6	1912.8	2495.9	2786.8	8331.6	23101.7	23726.5	19477.8	14894.2
72.5°	422.0	424.3	668.9	1547.6	2713.8	2817.0	4183.8	16935.6	17398.1	14899.9	10738.2
75°	250.4	213.3	222.6	440.5	2593.3	2735.9	2413.6	10821.7	10994.4	8538.0	5438.1
77.5°	172.8	150.7	155.4	194.8	987.7	2697.6	1917.4	5643.3	5459.0	2994.4	1158.1
80°	98.5	87.0	92.8	170.4	359.4	2516.8	1808.5	2288.3	1951.1	507.8	320.0
82.5°	52.2	44.1	53.3	140.2	250.4	1568.5	1812.0	1105.9	876.4	171.5	218.0
85°	18.5	15.0	25.5	96.3	166.9	481.1	1679.8	929.8	730.3	83.5	165.8
87.5°	3.5	3.5	10.4	39.4	67.2	147.2	993.5	551.8	369.8	49.8	113.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1	4383.1
2.5°	4369.2	4319.4	4252.2	4169.9	4072.5	3986.6	3922.9	3856.8	3842.9	3819.8	3816.3
5°	4340.3	4254.5	4087.5	3896.2	3692.2	3507.9	3358.3	3225.1	3165.9	3114.9	3109.2
7.5°	4297.4	4168.7	3884.7	3576.3	3257.5	2967.7	2722.0	2548.1	2388.1	2311.6	2300.0
10°	4247.5	4063.2	3656.3	3228.5	2788.1	2378.8	2013.7	1707.6	1522.2	1412.0	1398.1
12.5°	4201.2	3960.0	3423.3	2868.0	2282.6	1735.4	1265.9	973.7	779.0	700.2	690.9
15°	4179.2	3876.6	3205.3	2499.4	1754.0	1104.8	692.0	535.6	471.8	453.3	452.1
17.5°	4176.8	3805.9	2992.0	2117.9	1228.8	642.2	450.9	411.5	398.7	394.1	394.1
20°	4175.7	3738.6	2778.7	1722.6	780.2	427.8	375.6	366.3	357.0	351.3	351.3
22.5°	4188.4	3678.3	2556.1	1319.2	491.5	346.6	330.4	321.1	309.5	301.4	300.2
25°	4201.2	3632.0	2329.0	939.0	355.9	301.4	285.2	272.4	256.1	245.7	244.6
27.5°	4203.5	3574.0	2085.5	628.3	297.9	263.1	242.2	222.6	204.1	193.6	192.4
30°	4168.7	3476.6	1815.4	424.3	263.1	228.3	200.6	179.7	162.3	154.2	154.2
32.5°	4100.3	3356.1	1518.7	320.0	234.2	195.9	165.8	146.1	134.5	131.0	129.8
35°	4038.8	3226.2	1213.7	271.3	209.8	165.8	135.6	122.9	115.9	114.8	113.6
37.5°	4002.9	3121.8	927.4	245.7	186.7	139.1	114.8	105.5	102.0	99.7	100.9
40°	4030.7	3034.9	685.1	224.9	163.5	115.9	97.4	92.8	89.3	88.1	88.1
42.5°	4152.5	3019.9	508.9	206.3	141.5	96.3	84.6	81.1	78.9	77.6	78.9
45°	4472.4	3112.6	395.3	188.9	119.4	81.1	71.9	70.7	69.6	69.6	69.6
47.5°	4953.5	3303.9	329.2	169.3	99.7	69.6	62.6	61.5	60.3	61.5	61.5
50°	5768.4	3654.0	294.4	149.6	82.3	59.1	53.3	53.3	53.3	53.3	54.5
52.5°	7007.7	4342.5	271.3	129.8	67.2	49.8	45.2	45.2	46.3	46.3	47.6
55°	8388.4	5256.0	250.4	110.2	56.8	41.7	37.1	38.3	39.4	40.6	40.6
57.5°	9886.1	6268.1	233.0	90.4	48.7	33.7	31.3	32.4	33.7	35.9	35.9
60°	11693.5	7363.6	207.6	70.7	40.6	26.7	24.3	26.7	30.2	32.4	33.7
62.5°	13678.1	8423.2	175.0	55.6	33.7	20.9	19.7	24.3	28.9	31.3	32.4
65°	15034.4	8755.8	134.5	45.2	25.5	15.0	16.3	22.0	27.8	31.3	31.3
67°	14484.9	7938.6	110.2	38.3	20.9	11.6	15.0	22.0	27.8	30.2	31.3
67.5°	14103.5	7618.6	105.5	37.1	19.7	11.6	15.0	22.0	27.8	31.3	31.3
70°	11475.5	5723.2	88.1	27.8	16.3	10.4	12.8	20.9	26.7	30.2	30.2
72.5°	7973.4	3528.8	78.9	19.7	13.9	9.3	11.6	19.7	25.5	28.9	30.2
75°	3790.7	1277.5	67.2	15.0	12.8	8.1	10.4	19.7	25.5	28.9	28.9
77.5°	773.2	296.8	54.5	12.8	10.4	8.1	9.3	18.5	24.3	27.8	27.8
80°	253.9	114.8	40.6	11.6	10.4	8.1	9.3	17.4	24.3	26.7	27.8
82.5°	183.2	58.0	26.7	11.6	10.4	8.1	8.1	17.4	23.2	26.7	26.7
85°	140.2	40.6	17.4	11.6	10.4	8.1	8.1	16.3	22.0	25.5	25.5
87.5°	92.8	16.3	13.9	11.6	10.4	8.1	8.1	16.3	20.9	24.3	25.5
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)