

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: P269535

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-AFL-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22354.2 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 257  
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

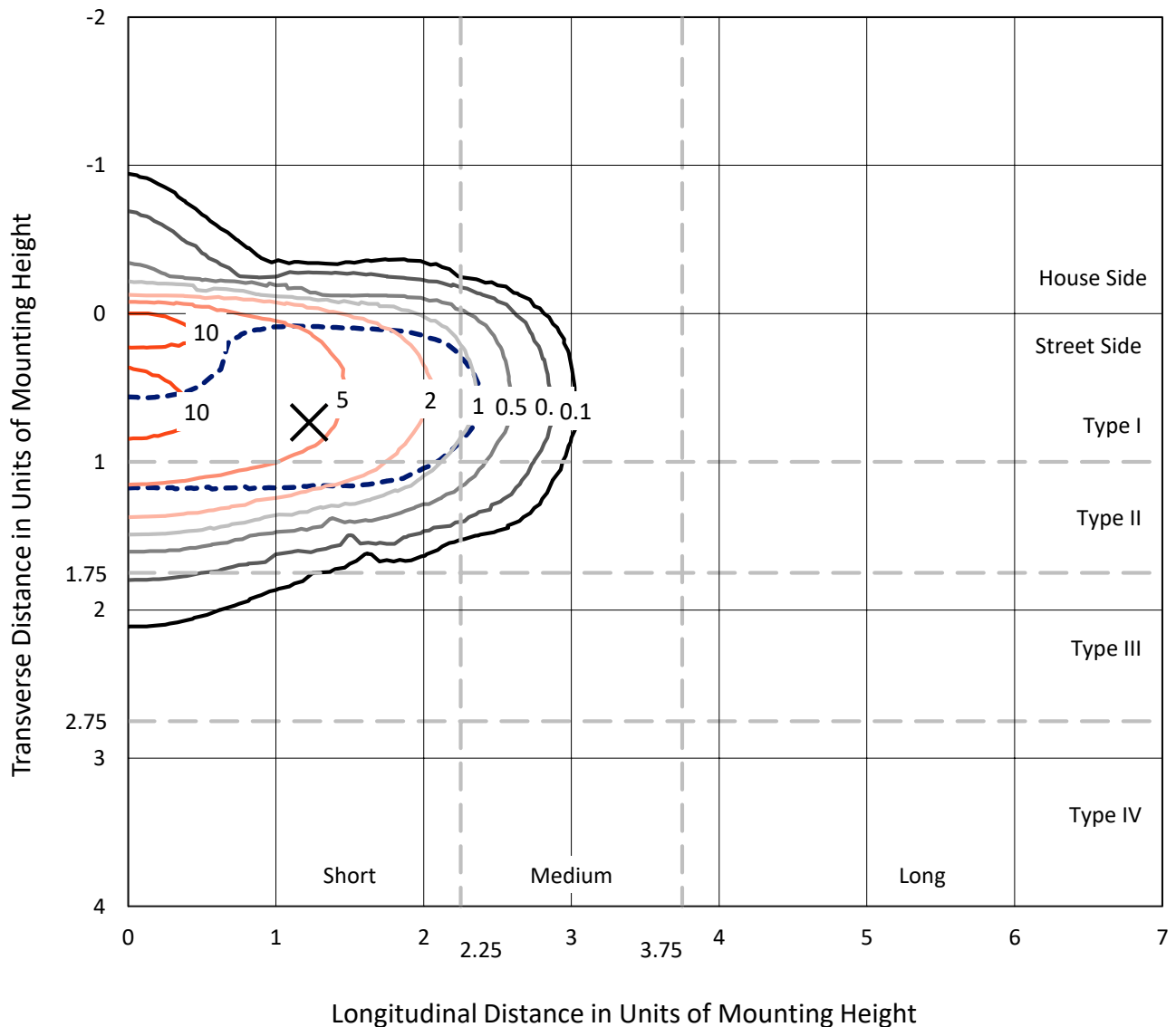


REPORT NUMBER: P269535

CATALOG NUMBER: GLEON-AF-08-LED-E1-AFL-7027-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

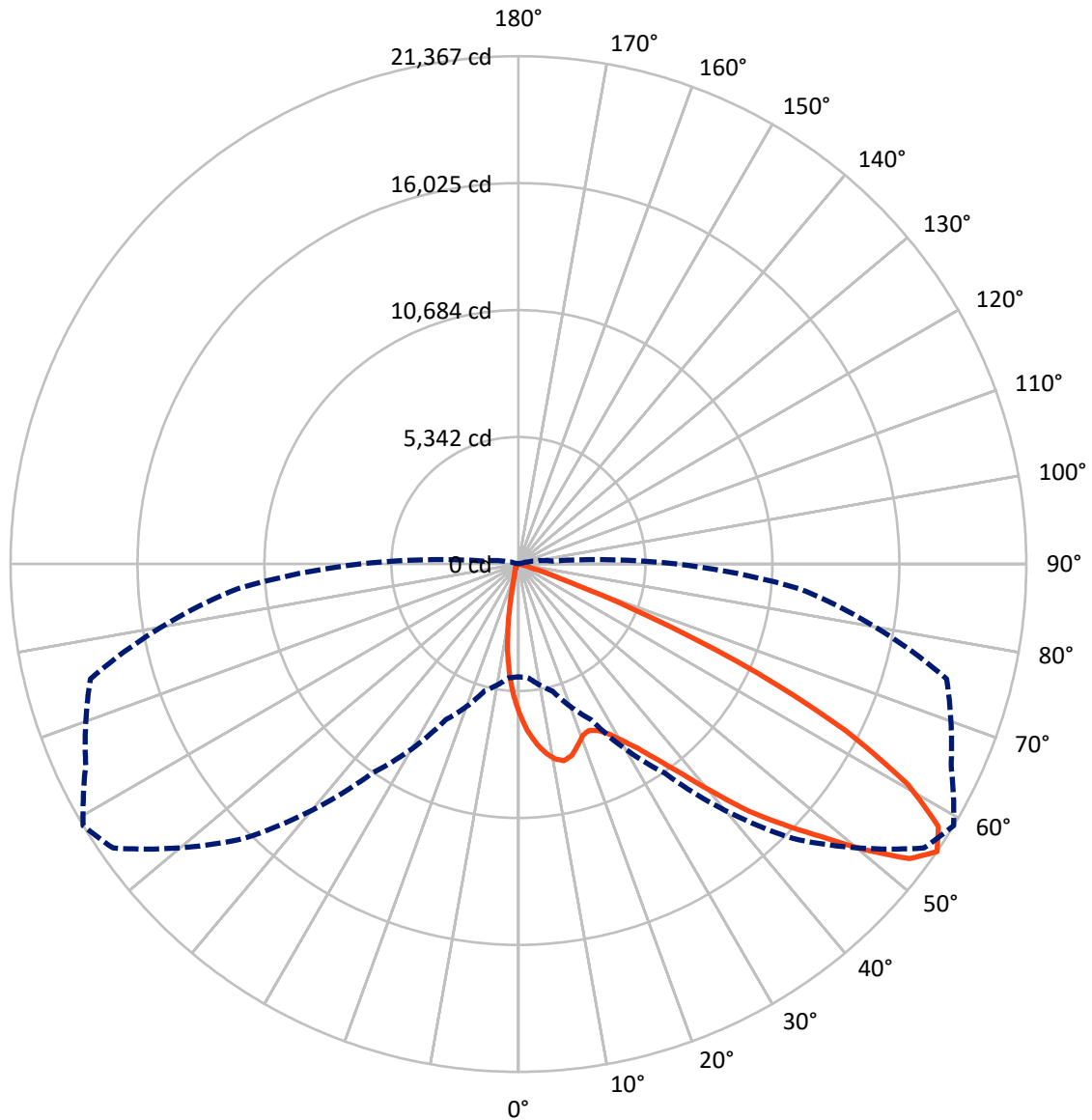


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P269535

CATALOG NUMBER: GLEON-AF-08-LED-E1-AFL-7027-600-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P269535

CATALOG NUMBER: GLEON-AF-08-LED-E1-AFL-7027-600-HSS

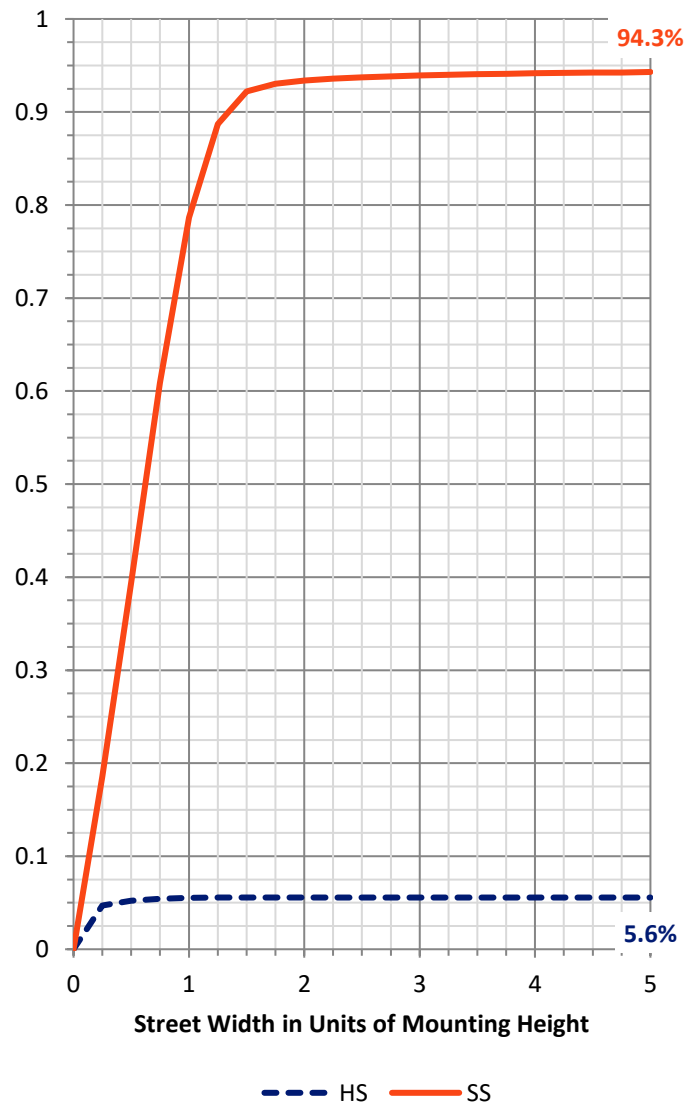
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1248.6	0.0	1248.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	21105.6	0.0	21105.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	22354.2	0.0	22354.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.1	2.4
10°-20°	1262.0	5.6
20°-30°	2147.4	9.6
30°-40°	3693.0	16.5
40°-50°	5701.6	25.5
50°-60°	5731.9	25.6
60°-70°	2939.4	13.1
70°-80°	318.5	1.4
80°-90°	33.3	0.1
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°	22354.2	100.0
0°-180°	22354.2	100.0



REPORT NUMBER: P269535

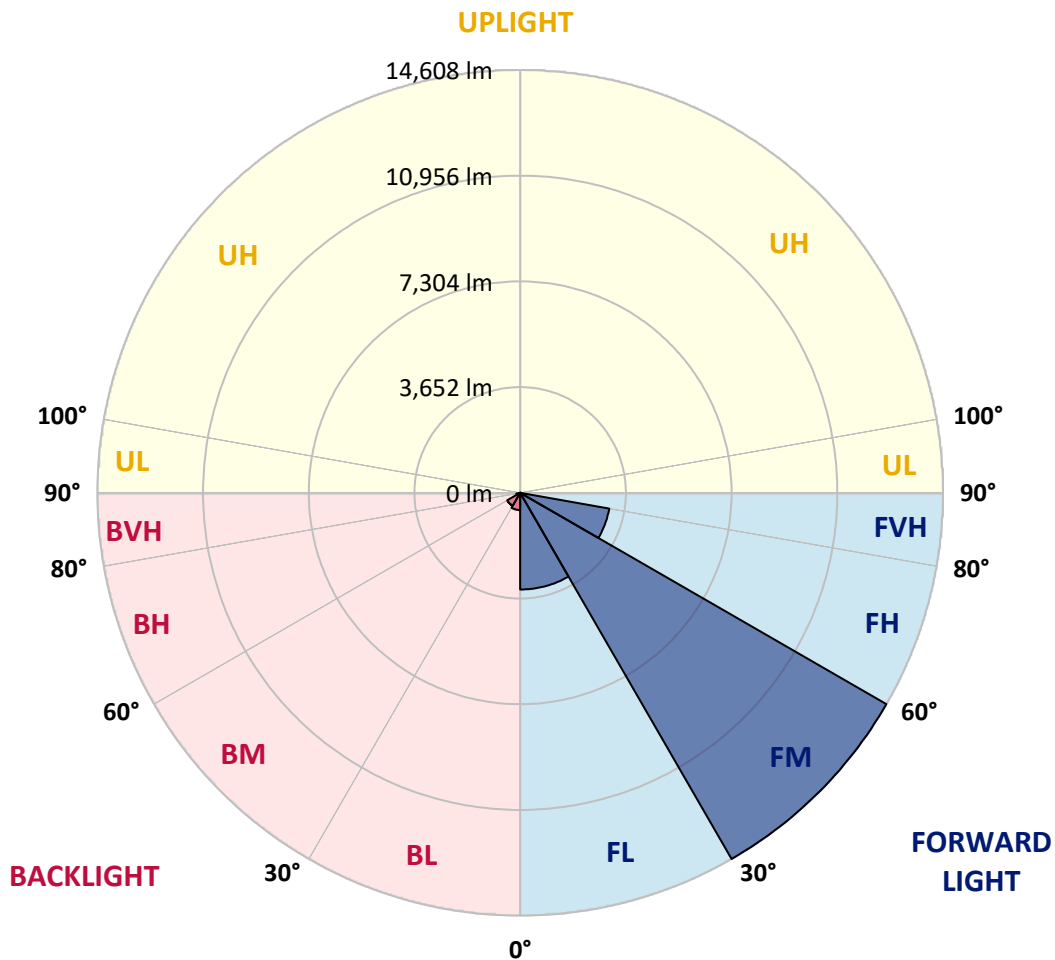
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3340.5	14.9			
FM (30°-60°)	14608.4	65.3			
FH (60°-80°)	3124.2	14.0			G2/5000
FVH (80°-90°)	32.6	0.1			G1/100
BL (0°-30°)	596.0	2.7	B2/1000		
BM (30°-60°)	518.2	2.3	B1/1000		
BH (60°-80°)	133.8	0.6	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P269535

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6
2.5°	7445.6	7366.6	7342.7	7326.8	7254.4	7163.4	7039.3	6981.3	6862.5	6671.3	6436.4
5°	8127.7	8113.1	8060.4	8031.3	7953.6	7824.2	7626.3	7531.4	7342.7	7020.9	6599.9
7.5°	7829.4	7920.5	7993.1	8114.5	8267.6	8262.3	8096.0	7997.0	7786.0	7361.3	6782.1
10°	6677.8	6751.8	6870.4	7146.1	7708.1	8204.2	8399.4	8328.1	8159.3	7673.9	6957.6
12.5°	6452.3	6444.4	6465.5	6545.9	6840.1	7547.2	8347.9	8491.8	8457.5	7960.2	7123.6
15°	6572.3	6563.0	6560.4	6588.1	6659.3	6957.6	7961.4	8374.4	8639.4	8225.3	7265.0
17.5°	6908.8	6869.1	6848.0	6825.6	6804.5	6878.3	7497.1	8045.8	8667.1	8457.5	7382.4
20°	7485.1	7419.2	7341.4	7214.7	7096.0	7059.2	7301.9	7708.1	8568.3	8634.1	7458.7
22.5°	8209.4	8125.0	7990.5	7759.6	7518.2	7378.4	7398.1	7601.3	8420.5	8826.8	7494.4
25°	9023.5	8915.1	8735.7	8415.2	8060.4	7812.4	7683.1	7754.3	8353.2	9052.4	7535.3
27.5°	9895.4	9775.4	9540.4	9103.9	8701.5	8366.5	8102.6	8093.4	8468.1	9347.9	7601.3
30°	10759.4	10741.0	10434.9	9973.3	9440.3	9032.6	8652.7	8603.8	8788.6	9756.9	7731.9
32.5°	11912.5	11773.9	11399.3	10924.4	10309.6	9820.2	9370.3	9256.9	9280.7	10233.1	7933.7
35°	13366.2	13214.5	12686.9	12031.2	11343.8	10766.0	10268.7	10114.3	10056.3	11012.9	8274.1
37.5°	14305.5	14302.9	13971.8	13304.3	12566.7	11929.6	11388.7	11208.1	11090.7	11954.6	8801.8
40°	14330.7	14392.6	14436.1	14429.6	13904.4	13317.5	12837.1	12614.3	12341.3	13213.2	9483.8
42.5°	13561.5	13721.2	14104.9	14756.6	15068.0	14834.5	14429.6	14210.6	13804.3	14560.1	10314.9
45°	12522.0	12632.8	13304.3	14504.8	15698.6	16338.5	16029.7	15638.0	15102.3	15965.0	11060.2
47.5°	12056.2	12076.0	12510.1	13828.0	15746.1	17570.6	17757.9	17120.6	16281.7	17096.9	11643.3
50°	10664.5	10700.2	11299.1	12655.2	15189.4	18152.3	19493.9	18889.7	17568.0	17968.9	11855.7
52.5°	8037.9	8088.1	8847.9	10727.7	13659.1	17904.3	20736.7	20590.2	18976.9	18395.0	11867.6
55°	4742.5	4808.4	5534.1	7221.4	10743.6	16326.5	20829.0	21367.3	20088.9	18647.0	11849.2
57.5°	2215.0	2261.2	2676.7	3720.2	6681.9	12903.3	19438.6	20834.3	20702.3	18780.2	11979.7
60°	1176.7	1190.0	1290.1	1610.8	3019.7	8181.8	16725.0	18813.3	20143.1	18964.9	12139.3
62.5°	899.7	903.7	898.3	936.7	1269.0	3631.8	12641.9	15466.4	17891.2	18826.5	11962.5
65°	779.6	786.2	749.2	740.1	814.0	1295.4	7510.3	11024.7	14058.8	16957.1	10758.1
67.5°	699.2	701.8	657.0	618.8	631.9	700.5	2963.0	6035.4	9305.7	12429.6	7797.8
70°	643.7	641.1	592.3	531.6	514.5	478.8	942.0	2212.3	4447.1	6303.1	3626.5
72.5°	570.0	571.2	547.4	468.3	427.5	335.1	436.7	645.2	1327.2	1717.6	849.5
75°	505.2	498.6	469.6	419.5	352.2	220.4	216.3	287.5	409.0	406.4	183.3
77.5°	365.4	358.9	368.0	344.3	270.4	142.6	108.2	138.5	166.2	160.9	51.5
80°	267.9	263.8	237.4	286.3	238.8	97.6	67.3	73.9	85.8	72.6	15.8
82.5°	183.3	182.0	167.5	158.3	135.9	59.4	42.2	46.2	55.4	41.0	7.9
85°	29.0	33.0	121.5	96.3	80.5	26.4	29.0	31.7	36.9	22.4	2.6
87.5°	0.0	0.0	56.8	50.1	15.8	10.6	17.2	18.4	18.4	11.9	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



REPORT NUMBER: P269535

CATALOG NUMBER: GLEON-AF-08-LED-E1-AFL-7027-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6	6292.6
2.5°	6316.4	6184.4	5940.4	5688.4	5455.0	5176.7	4985.4	4841.5	4675.3	4630.5	4728.0
5°	6359.9	6110.6	5585.5	5014.2	4477.4	3882.5	3427.4	3067.2	2741.3	2630.4	2730.8
7.5°	6428.5	6057.8	5201.6	4261.0	3327.1	2398.4	1762.5	1344.3	1077.7	998.6	1040.9
10°	6497.1	5981.4	4757.1	3369.3	2092.2	1167.4	759.8	606.9	550.1	538.3	544.8
12.5°	6553.9	5878.4	4214.8	2395.7	1118.7	625.3	497.3	472.2	464.3	464.3	466.9
15°	6588.1	5722.7	3572.4	1523.6	643.7	472.2	434.1	426.1	426.1	427.5	430.1
17.5°	6584.1	5524.8	2869.2	922.1	481.5	418.3	395.8	389.1	387.9	390.6	391.8
20°	6535.3	5266.4	2163.5	608.2	419.5	381.2	358.9	346.9	345.7	348.3	350.9
22.5°	6443.1	4947.1	1547.4	468.3	378.6	345.7	317.9	307.4	307.4	310.1	312.7
25°	6330.9	4556.6	1058.1	397.1	341.6	307.4	281.0	271.7	274.4	281.0	282.2
27.5°	6191.1	4117.2	719.0	340.4	296.8	269.1	249.3	242.7	249.3	258.5	261.1
30°	6071.0	3659.4	513.2	294.1	252.0	232.2	220.4	220.4	229.5	246.7	250.6
32.5°	5978.7	3216.2	395.8	259.9	218.9	201.8	195.2	201.8	216.3	233.5	237.4
35°	5966.8	2850.9	335.1	232.2	195.2	178.1	175.4	187.3	201.8	215.1	217.7
37.5°	6057.8	2513.1	302.1	209.8	174.1	158.3	155.6	170.1	184.7	200.5	204.5
40°	6230.6	2247.9	278.4	188.6	156.9	139.9	134.6	145.2	164.8	185.9	191.2
42.5°	6455.0	2028.9	252.0	167.5	139.9	116.2	109.6	121.5	142.6	164.8	171.4
45°	6668.6	1840.3	223.0	143.8	117.4	89.7	87.0	102.9	113.5	135.9	141.2
47.5°	6786.1	1674.1	197.8	117.4	91.0	72.6	72.6	76.5	87.0	113.5	118.8
50°	6746.5	1540.9	171.4	87.0	63.3	55.4	55.4	54.1	69.9	91.0	95.0
52.5°	6667.3	1464.3	147.7	67.3	43.6	39.5	35.7	39.5	48.8	58.0	59.4
55°	6655.5	1451.1	124.0	54.1	30.4	26.4	19.9	19.9	19.9	18.4	15.8
57.5°	6747.8	1472.2	104.3	43.6	22.4	17.2	10.6	0.0	0.0	0.0	0.0
60°	6842.7	1494.7	89.7	30.4	15.8	9.3	1.3	0.0	0.0	0.0	0.0
62.5°	6684.5	1444.6	75.2	18.4	11.9	4.0	0.0	0.0	0.0	0.0	0.0
65°	5871.9	1229.5	59.4	13.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4176.6	823.1	39.5	7.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1906.3	344.3	25.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	407.7	106.9	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	83.2	77.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.4	122.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.8	88.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)