

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: P192775

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192775
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-07-LED-E1-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 22222.2 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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



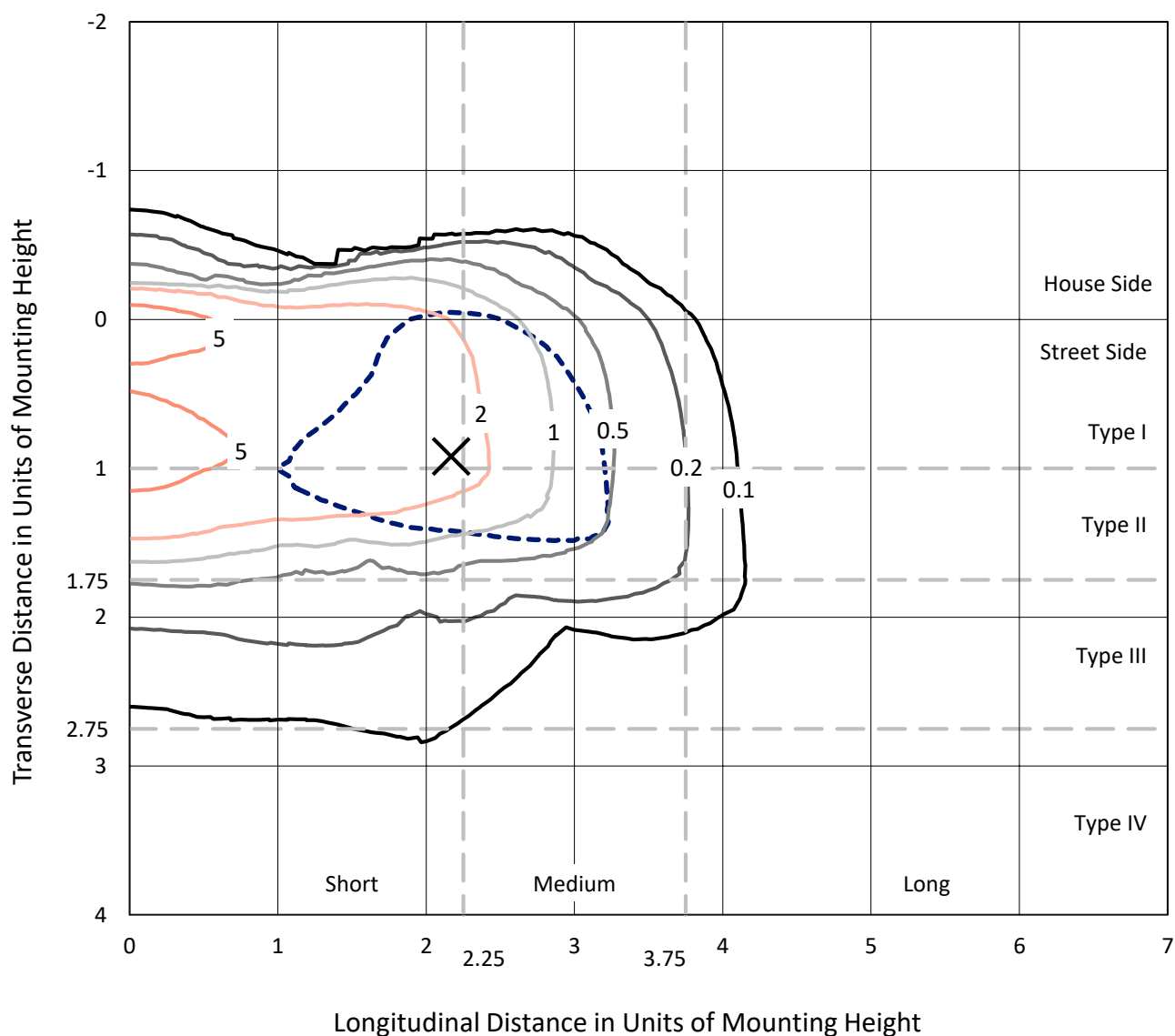
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

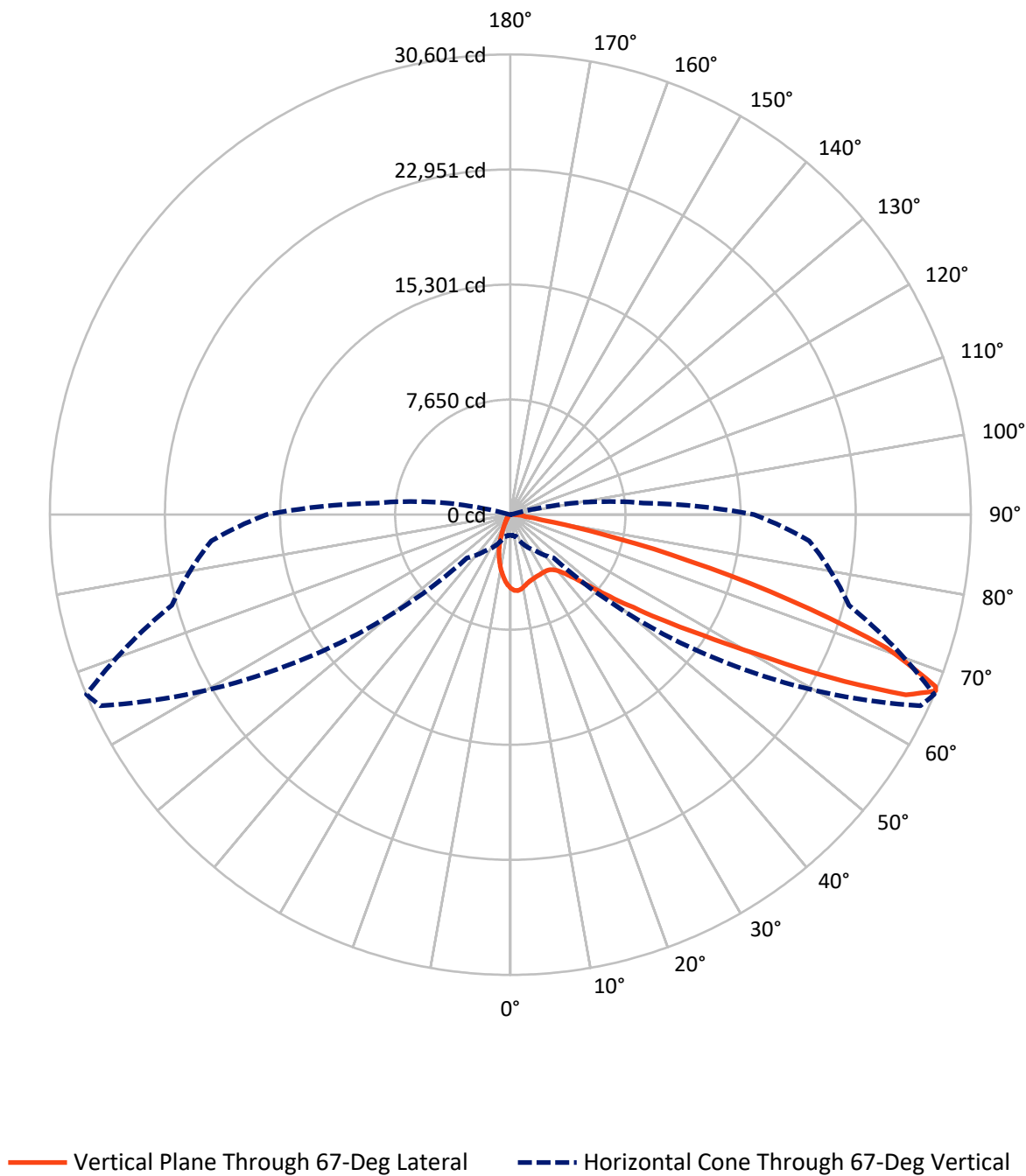
--- 1/2 Max cd



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Luminous Intensity Polar Plot



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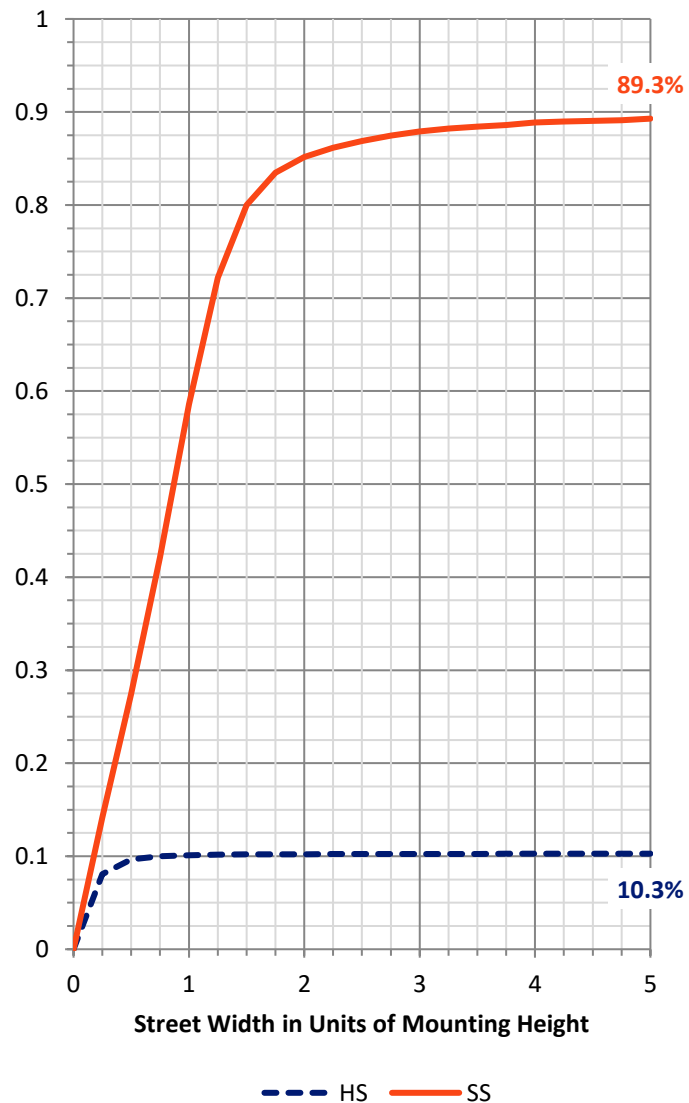
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2307.3	0.0	2307.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19914.9	0.0	19914.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	22222.2	0.0	22222.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.8
10°-20°	848.7	3.8
20°-30°	1234.0	5.6
30°-40°	1925.1	8.7
40°-50°	3410.2	15.3
50°-60°	5396.3	24.3
60°-70°	6180.7	27.8
70°-80°	2563.7	11.5
80°-90°	264.8	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°	22222.2	100.0
0°-180°	22222.2	100.0

Coefficient of Utilization



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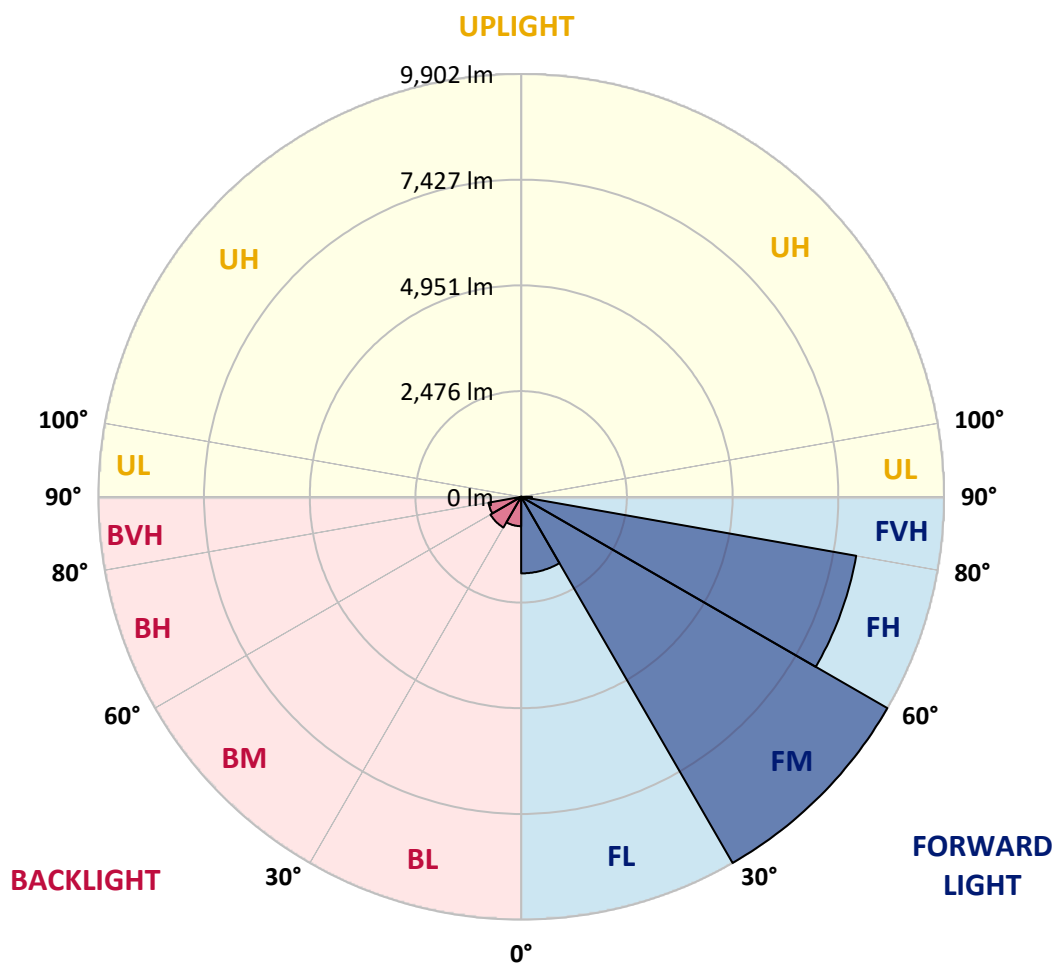
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1793.0	8.1			
FM	(30°-60°)	9902.3	44.6			
FH	(60°-80°)	7966.7	35.9			G4/12000
FVH	(80°-90°)	252.9	1.1			G3/500
BL	(0°-30°)	688.5	3.1	B2/1000		
BM	(30°-60°)	829.2	3.7	B1/1000		
BH	(60°-80°)	777.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	11.9	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9
2.5°	5066.8	5077.1	5075.8	5083.7	5101.8	5103.1	5084.9	5049.9	5042.1	4996.8	4917.6
5°	4672.7	4702.5	4720.6	4794.6	4877.5	4977.3	5052.4	5079.7	5075.8	5043.4	4924.2
7.5°	4223.0	4252.7	4273.4	4360.3	4470.5	4641.6	4837.4	4998.1	5012.3	5047.3	4919.0
10°	3923.5	3928.8	3957.3	4040.2	4155.5	4330.5	4563.9	4845.1	4887.8	5016.2	4906.0
12.5°	3677.2	3681.2	3718.7	3808.1	3931.2	4107.6	4352.6	4677.9	4744.0	4977.3	4903.4
15°	3502.3	3516.5	3550.2	3643.6	3774.5	3949.4	4200.9	4554.8	4633.8	4963.0	4926.7
17.5°	3444.0	3459.4	3469.8	3537.3	3656.5	3827.6	4085.5	4474.3	4563.9	4970.9	4972.1
20°	3504.8	3516.5	3493.1	3510.1	3583.9	3736.8	3988.3	4405.7	4512.0	4979.9	5030.4
22.5°	3731.6	3736.8	3673.3	3599.4	3586.6	3670.8	3911.8	4351.2	4465.3	5004.5	5099.1
25°	4120.5	4111.4	4007.7	3848.3	3698.0	3659.1	3866.4	4317.6	4441.9	5030.4	5170.4
27.5°	4589.8	4602.6	4460.1	4228.2	3941.6	3736.8	3860.0	4303.2	4431.7	5048.6	5232.7
30°	5160.1	5178.3	5014.9	4723.3	4312.4	3928.8	3919.6	4300.7	4425.1	5037.0	5237.8
32.5°	5742.0	5764.1	5635.7	5335.0	4807.5	4250.1	4054.4	4329.2	4438.1	4996.8	5208.1
35°	6351.2	6382.4	6296.8	6038.9	5479.0	4714.2	4291.6	4416.0	4499.0	4992.8	5178.3
37.5°	7192.4	7221.0	7060.3	6786.7	6291.5	5336.3	4672.7	4579.4	4642.9	5055.1	5186.0
40°	8448.5	8444.5	8029.8	7611.1	7184.7	6127.0	5208.1	4874.9	4907.3	5243.1	5281.9
42.5°	9817.2	9810.7	9197.7	8561.2	8176.2	7100.4	5911.8	5385.6	5363.5	5589.0	5530.8
45°	10872.3	10871.0	10370.7	9653.9	9370.1	8217.7	6821.7	6095.9	6062.1	6151.7	5989.6
47.5°	11322.1	11329.8	11078.4	10574.2	10693.4	9729.1	7968.9	7125.1	7074.5	7038.3	6792.0
50°	10972.2	10987.6	11008.4	10909.9	11664.3	11760.1	9507.4	8575.4	8550.8	8388.8	8003.9
52.5°	9828.9	9907.9	10151.6	10464.0	12001.2	13709.7	11919.6	10377.1	10244.9	10072.5	9648.6
55°	7902.7	7989.6	8452.3	9210.5	11499.6	14990.3	15300.0	12699.9	12479.6	11965.0	11353.1
57.5°	5230.0	5364.8	6036.2	7000.6	10042.8	15196.4	18672.6	15923.5	15156.1	13747.2	13057.7
60°	2881.3	3010.9	3739.5	4613.0	7253.4	14177.5	20940.9	20120.4	18764.6	15739.5	15127.6
62.5°	1774.5	1844.4	2382.4	3195.1	4349.9	11189.9	21410.1	25394.6	23825.0	18304.5	17627.9
65°	1412.8	1442.7	1705.7	2611.8	3118.6	6655.8	19894.9	29415.4	28891.7	21410.1	19866.4
67°	1371.3	1383.0	1507.4	2242.3	2939.7	4080.4	16667.5	30069.9	30601.4	23289.6	19936.4
67.5°	1380.4	1393.4	1511.4	2140.0	2934.4	3749.8	15555.4	29811.9	30483.4	23438.7	19626.7
70°	1331.3	1371.3	1730.3	2138.6	2790.7	3116.0	9315.6	25830.1	26528.7	21778.3	16653.2
72.5°	471.8	474.4	747.9	1730.3	3034.3	3149.7	4677.9	18935.7	19452.9	16659.8	12006.4
75°	279.9	238.5	248.9	492.5	2899.5	3058.9	2698.6	12099.8	12292.9	9546.3	6080.4
77.5°	193.2	168.5	173.7	217.8	1104.4	3016.2	2143.8	6309.7	6103.7	3348.0	1294.8
80°	110.2	97.2	103.7	190.5	401.8	2814.0	2022.1	2558.7	2181.5	567.7	357.8
82.5°	58.4	49.2	59.6	156.8	279.9	1753.7	2025.8	1236.6	979.9	191.9	243.6
85°	20.8	16.8	28.5	107.6	186.7	537.9	1878.1	1039.5	816.6	93.3	185.3
87.5°	4.0	4.0	11.7	44.0	75.2	164.7	1110.8	617.0	413.4	55.7	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9
2.5°	4885.3	4829.6	4754.3	4662.3	4553.5	4457.6	4386.2	4312.4	4296.8	4270.8	4267.0
5°	4852.9	4756.9	4570.4	4356.3	4128.3	3922.2	3755.0	3606.0	3539.9	3482.8	3476.3
7.5°	4804.9	4661.0	4343.5	3998.7	3642.2	3318.2	3043.4	2848.9	2670.1	2584.5	2571.6
10°	4749.2	4543.1	4088.2	3609.8	3117.2	2659.7	2251.4	1909.3	1701.8	1578.7	1563.2
12.5°	4697.3	4427.7	3827.6	3206.8	2552.2	1940.3	1415.5	1088.8	871.1	782.9	772.6
15°	4672.7	4334.5	3583.9	2794.6	1961.1	1235.2	773.8	598.8	527.5	506.9	505.6
17.5°	4670.1	4255.3	3345.4	2368.0	1373.9	718.1	504.2	460.1	445.9	440.8	440.8
20°	4668.7	4180.2	3106.9	1926.1	872.3	478.3	420.0	409.6	399.3	392.8	392.8
22.5°	4683.1	4112.7	2858.0	1475.0	549.6	387.6	369.4	359.0	346.1	336.9	335.8
25°	4697.3	4060.9	2603.9	1049.9	397.9	336.9	318.8	304.7	286.5	274.8	273.4
27.5°	4699.9	3996.0	2331.8	702.5	333.1	294.2	270.9	248.9	228.2	216.5	215.1
30°	4661.0	3887.2	2029.8	474.4	294.2	255.3	224.2	200.9	181.5	172.4	172.4
32.5°	4584.5	3752.4	1698.0	357.8	261.7	219.1	185.3	163.4	150.3	146.5	145.2
35°	4515.9	3607.2	1357.1	303.3	234.6	185.3	151.7	137.4	129.6	128.3	127.1
37.5°	4475.7	3490.7	1037.0	274.8	208.6	155.5	128.3	118.0	114.0	111.5	112.7
40°	4506.8	3393.4	766.0	251.4	182.8	129.6	108.9	103.7	99.8	98.6	98.6
42.5°	4642.9	3376.5	569.0	230.7	158.1	107.6	94.6	90.6	88.2	86.9	88.2
45°	5000.6	3480.2	442.0	211.3	133.6	90.6	80.5	79.1	77.8	77.8	77.8
47.5°	5538.6	3694.0	368.1	189.2	111.5	77.8	70.0	68.8	67.4	68.8	68.8
50°	6449.8	4085.5	329.2	167.1	92.0	66.1	59.6	59.6	59.6	59.6	60.9
52.5°	7835.3	4855.5	303.3	145.2	75.2	55.7	50.6	50.6	51.9	51.9	53.1
55°	9379.2	5876.8	279.9	123.1	63.5	46.7	41.5	42.7	44.0	45.4	45.4
57.5°	11053.8	7008.4	260.6	101.1	54.4	37.5	35.0	36.3	37.5	40.2	40.2
60°	13074.5	8233.2	232.0	79.1	45.4	29.8	27.2	29.8	33.7	36.3	37.5
62.5°	15293.6	9417.9	195.7	62.2	37.5	23.4	22.1	27.2	32.4	35.0	36.3
65°	16810.1	9789.9	150.3	50.6	28.5	16.8	18.1	24.6	31.1	35.0	35.0
67°	16195.6	8876.2	123.1	42.7	23.4	13.0	16.8	24.6	31.1	33.7	35.0
67.5°	15769.2	8518.4	118.0	41.5	22.1	13.0	16.8	24.6	31.1	35.0	35.0
70°	12830.8	6399.2	98.6	31.1	18.1	11.7	14.2	23.4	29.8	33.7	33.7
72.5°	8915.1	3945.6	88.2	22.1	15.6	10.4	13.0	22.1	28.5	32.4	33.7
75°	4238.5	1428.3	75.2	16.8	14.2	9.1	11.7	22.1	28.5	32.4	32.4
77.5°	864.6	331.8	60.9	14.2	11.7	9.1	10.4	20.8	27.2	31.1	31.1
80°	283.8	128.3	45.4	13.0	11.7	9.1	10.4	19.4	27.2	29.8	31.1
82.5°	204.8	64.8	29.8	13.0	11.7	9.1	9.1	19.4	25.9	29.8	29.8
85°	156.8	45.4	19.4	13.0	11.7	9.1	9.1	18.1	24.6	28.5	28.5
87.5°	103.7	18.1	15.6	13.0	11.7	9.1	9.1	18.1	23.4	27.2	28.5
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)