

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: P194535

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22514 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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

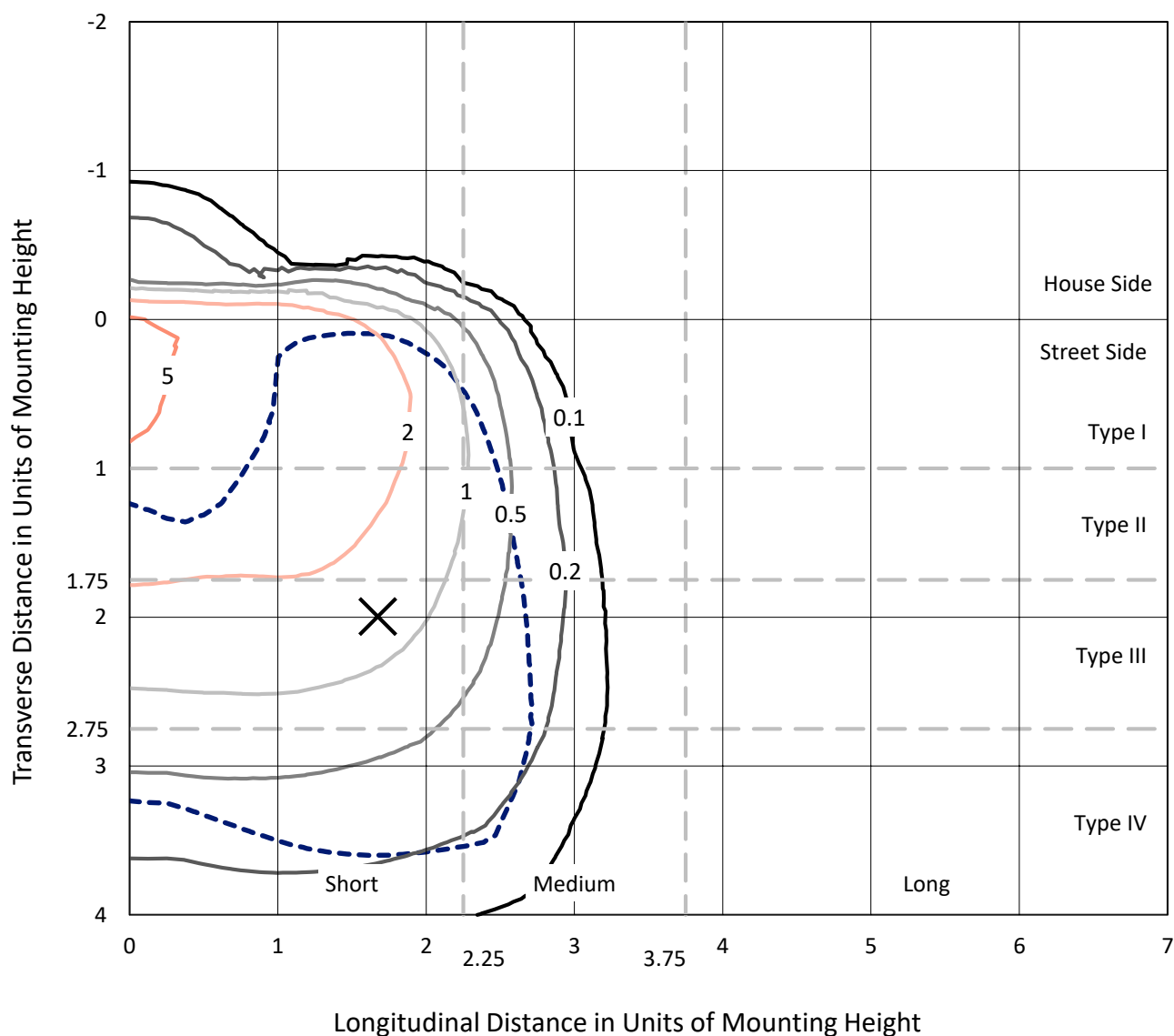


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

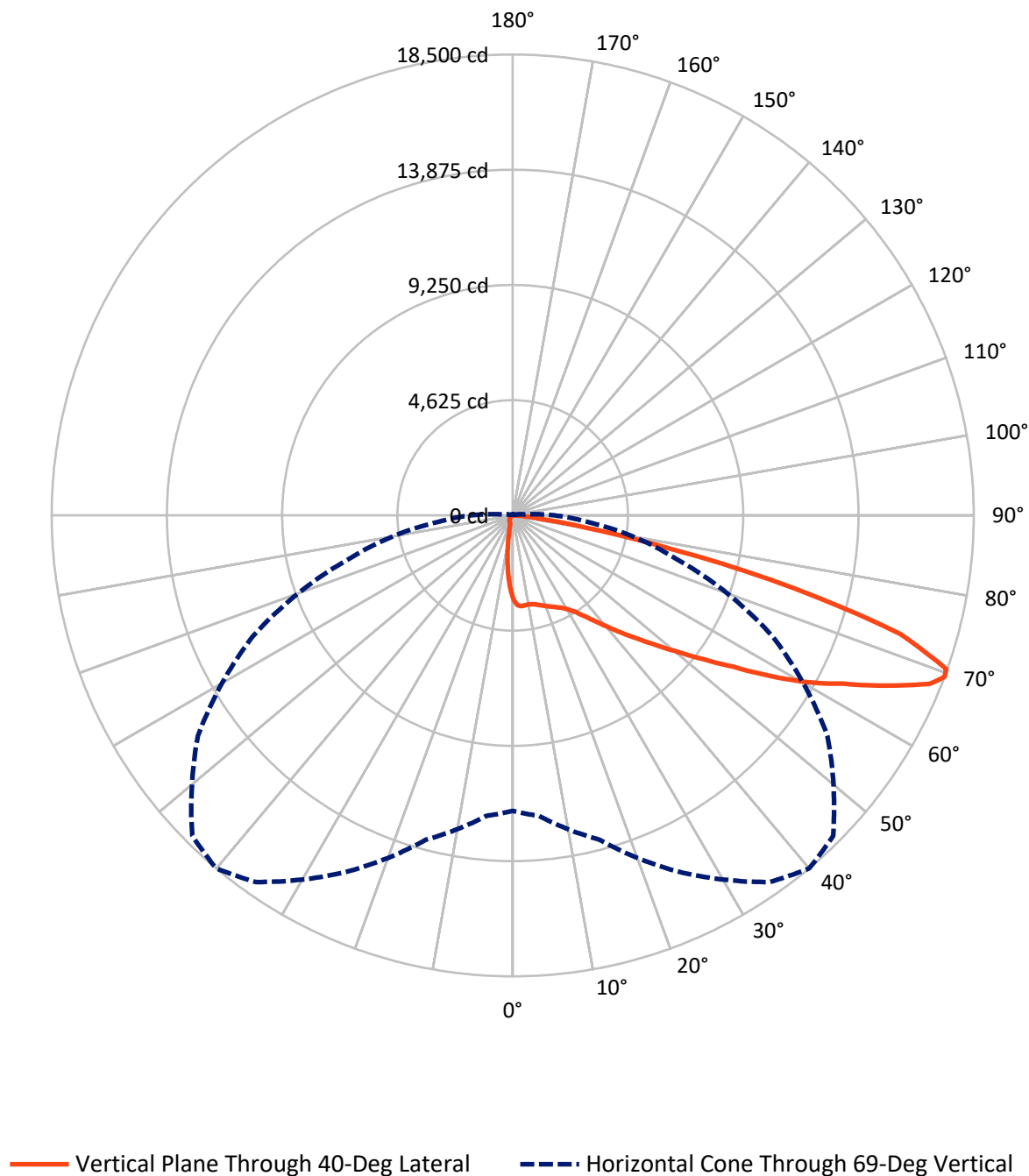


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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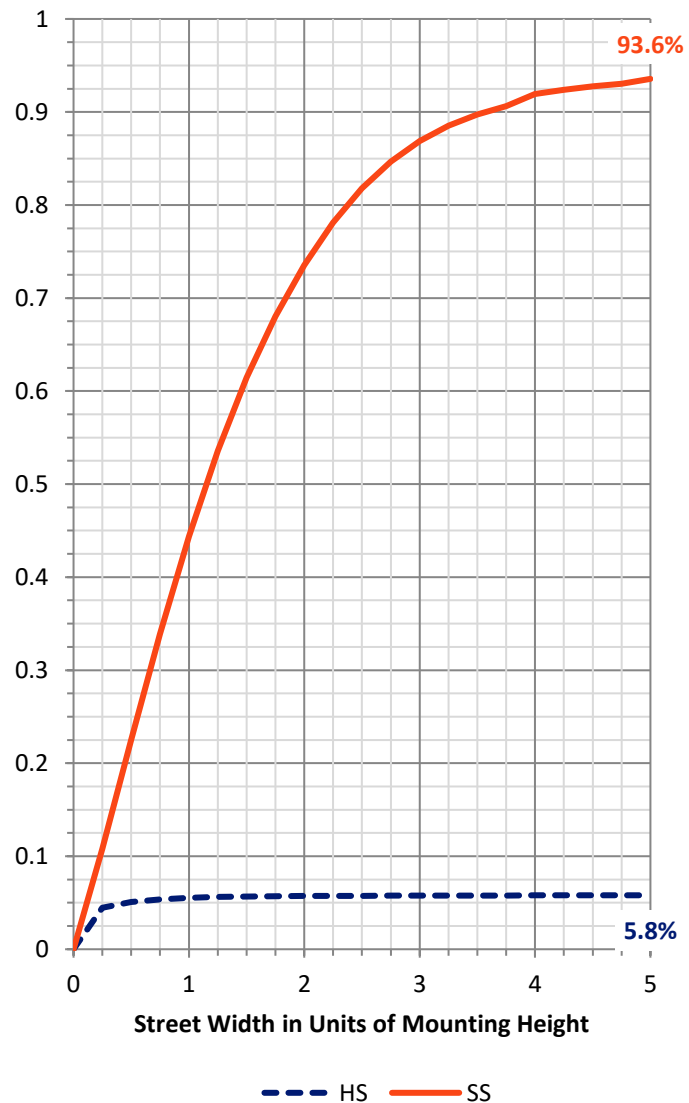
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1317.2	0.0	1317.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21196.8	0.0	21196.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	22514.0	0.0	22514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.2
10°-20°	670.7	3.0
20°-30°	1129.7	5.0
30°-40°	1849.3	8.2
40°-50°	3202.0	14.2
50°-60°	5043.5	22.4
60°-70°	6586.6	29.3
70°-80°	3392.4	15.1
80°-90°	367.0	1.6
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°	22514.0	100.0
0°-180°	22514.0	100.0

Coefficient of Utilization



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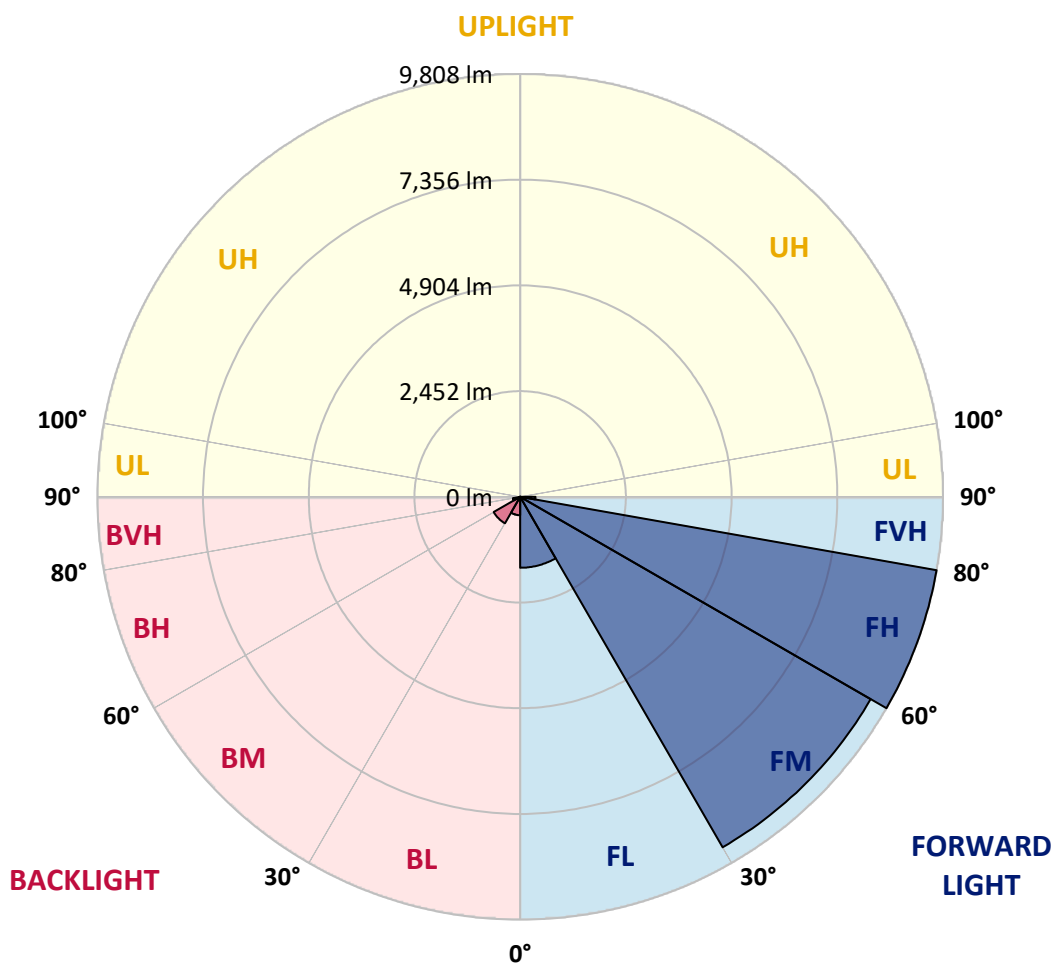
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.4	7.3			
FM	(30°-60°)	9386.9	41.7			
FH	(60°-80°)	9808.0	43.6			G4/12000
FVH	(80°-90°)	355.4	1.6			G3/500
BL	(0°-30°)	426.7	1.9	B1/500		
BM	(30°-60°)	708.0	3.1	B1/1000		
BH	(60°-80°)	171.0	0.8	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7
2.5°	3693.4	3673.3	3661.2	3645.1	3625.0	3607.6	3600.9	3551.3	3504.4	3440.1	3366.4
5°	3761.7	3755.0	3733.6	3712.1	3688.0	3661.2	3646.5	3587.5	3520.5	3426.7	3298.0
7.5°	3768.4	3760.4	3733.6	3704.1	3670.6	3638.4	3613.0	3554.0	3492.4	3397.2	3240.4
10°	3757.7	3748.3	3728.2	3696.1	3654.5	3623.7	3598.2	3541.9	3489.7	3403.9	3229.7
12.5°	3745.6	3736.3	3726.9	3710.8	3674.6	3653.2	3631.7	3578.1	3531.2	3458.9	3268.6
15°	3757.7	3752.3	3763.1	3756.4	3736.3	3717.5	3696.1	3647.8	3604.9	3544.6	3339.6
17.5°	3808.6	3808.6	3842.1	3846.2	3827.4	3800.6	3769.8	3721.5	3685.3	3634.4	3424.0
20°	3927.9	3923.9	3966.8	3974.8	3929.2	3887.7	3842.1	3783.2	3755.0	3722.9	3507.1
22.5°	4132.9	4114.2	4139.6	4131.6	4041.8	3977.5	3921.2	3848.8	3834.1	3819.3	3599.6
25°	4399.6	4388.9	4406.3	4327.3	4169.1	4082.0	4015.0	3933.3	3933.3	3948.0	3704.1
27.5°	4786.9	4746.7	4687.7	4548.4	4311.2	4199.9	4127.6	4040.5	4063.3	4118.2	3842.1
30°	5183.6	5139.4	5004.0	4789.6	4484.0	4367.5	4283.0	4191.9	4245.5	4346.0	4027.1
32.5°	5574.9	5525.3	5333.7	5063.0	4732.0	4615.4	4533.6	4433.1	4522.9	4691.8	4297.8
35°	5954.2	5909.9	5688.8	5369.9	5061.6	4965.2	4890.1	4803.0	4918.2	5154.1	4679.7
37.5°	6380.3	6332.1	6062.7	5717.0	5462.3	5392.7	5337.7	5250.6	5451.6	5797.4	5211.7
40°	6904.3	6822.6	6459.4	6115.0	5926.0	5892.5	5855.0	5842.9	6155.2	6633.6	5920.7
42.5°	7504.7	7370.7	6874.8	6534.4	6435.3	6459.4	6450.0	6503.6	7035.6	7673.5	6783.7
45°	8105.1	7932.2	7337.2	6982.0	6995.4	7079.9	7132.1	7346.6	8138.6	8866.3	7712.4
47.5°	8614.3	8444.1	7780.8	7465.8	7626.6	7792.8	7934.9	8340.9	9272.3	10040.2	8434.7
50°	9049.8	8889.0	8251.1	7997.9	8359.7	8627.7	8858.2	9459.9	10491.8	10934.1	8941.3
52.5°	9406.3	9299.1	8738.9	8607.6	9197.3	9589.9	9927.6	10648.6	11572.0	11660.4	9335.3
55°	9753.4	9677.0	9262.9	9332.6	10180.9	10715.6	11143.1	11909.7	12502.0	12266.1	9713.2
57.5°	10152.8	10083.1	9860.6	10251.9	11474.1	12146.9	12613.2	13027.3	13320.8	12885.3	10069.7
60°	10560.2	10520.0	10525.3	11273.1	12959.0	13604.9	13862.2	13969.4	14124.9	13468.2	10089.8
62.5°	10948.8	11025.2	11285.2	12409.5	14380.9	14876.7	15006.7	15112.6	14930.3	13560.7	9321.9
65°	11606.8	11731.4	12351.9	13930.6	15944.8	16475.5	16609.5	16246.3	15057.6	12365.3	7582.4
67.5°	11928.4	12156.3	13263.2	15348.4	17461.8	18051.4	18001.9	16320.0	13512.5	9429.1	4866.0
69°	11861.4	12104.0	13473.6	15782.6	17965.7	18500.4	18185.5	15418.1	11511.7	6830.6	2987.1
70°	11596.1	11841.3	13365.0	15766.5	18030.0	18453.5	17845.1	14304.5	9733.3	4994.6	1868.1
72.5°	9683.7	9895.5	11865.4	14250.9	16609.5	16265.1	14929.0	9910.2	4742.7	1360.2	420.8
75°	5960.9	6078.8	8513.8	10735.7	12544.9	11660.4	9946.4	4930.3	1413.8	384.6	233.2
77.5°	3149.3	3202.9	4660.9	6328.1	7952.3	6580.0	5097.8	1923.1	651.3	241.2	168.9
80°	1861.4	1901.6	2510.0	2893.3	3441.4	2874.6	2038.3	1180.6	466.4	151.4	150.1
82.5°	1065.4	1090.9	1819.9	1608.1	1356.2	1157.9	1014.5	1119.0	280.1	101.8	155.5
85°	391.3	396.7	1023.9	1223.5	806.8	479.8	503.9	927.4	75.0	64.3	122.0
87.5°	182.3	178.2	526.7	749.1	471.7	304.2	392.7	203.7	29.5	41.5	33.5
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°	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7	3363.7
2.5°	3323.5	3273.9	3184.1	3091.7	2997.9	2925.5	2854.5	2798.2	2779.4	2744.6	2747.3
5°	3221.7	3130.5	2942.9	2752.6	2554.3	2390.8	2236.7	2112.0	2051.7	1990.1	1990.1
7.5°	3133.2	3000.5	2707.0	2397.5	2077.2	1807.8	1565.3	1383.0	1282.5	1202.1	1200.7
10°	3099.7	2920.1	2510.0	2066.5	1620.2	1253.0	964.9	780.0	684.8	623.2	620.5
12.5°	3114.4	2892.0	2358.6	1760.9	1200.7	805.4	558.8	439.6	399.4	380.6	380.6
15°	3157.3	2883.9	2207.2	1462.1	848.3	503.9	371.2	339.1	336.4	336.4	336.4
17.5°	3209.6	2886.6	2051.7	1171.3	577.6	360.5	320.3	316.3	318.9	318.9	318.9
20°	3263.2	2888.0	1884.2	901.9	407.4	313.6	301.5	300.2	302.9	302.9	304.2
22.5°	3328.9	2894.7	1716.7	674.1	336.4	296.2	286.8	286.8	288.1	288.1	286.8
25°	3403.9	2908.1	1542.5	499.9	306.9	284.1	276.1	274.7	276.1	274.7	273.4
27.5°	3497.7	2926.8	1348.2	391.3	293.5	272.0	265.3	265.3	264.0	262.7	261.3
30°	3615.7	2948.3	1129.7	332.4	280.1	261.3	254.6	253.3	251.9	249.3	249.3
32.5°	3795.2	2995.2	914.0	301.5	265.3	246.6	241.2	241.2	238.5	235.9	234.5
35°	4071.3	3087.6	721.0	282.8	249.3	230.5	223.8	223.8	221.1	219.8	218.4
37.5°	4453.2	3228.4	560.2	265.3	233.2	213.1	206.4	205.0	202.4	199.7	198.3
40°	4961.1	3402.6	440.9	249.3	217.1	195.7	190.3	187.6	182.3	178.2	178.2
42.5°	5599.0	3600.9	357.8	231.8	198.3	179.6	175.6	171.5	162.2	158.1	156.8
45°	6266.4	3779.1	302.9	211.7	179.6	163.5	160.8	154.1	142.1	138.0	138.0
47.5°	6747.5	3820.7	266.7	193.0	162.2	146.1	144.7	132.7	122.0	119.3	117.9
50°	7047.7	3738.9	237.2	174.2	146.1	130.0	126.0	111.2	104.5	101.8	100.5
52.5°	7250.1	3592.9	213.1	158.1	131.3	115.3	105.9	95.1	89.8	87.1	87.1
55°	7412.2	3386.5	189.0	143.4	119.3	103.2	89.8	81.7	76.4	73.7	73.7
57.5°	7457.8	3106.4	164.8	131.3	107.2	91.1	76.4	71.0	64.3	63.0	63.0
60°	7126.8	2601.2	146.1	116.6	96.5	79.1	67.0	60.3	53.6	52.3	50.9
62.5°	6254.4	2012.9	128.7	103.2	84.4	68.3	57.6	49.6	44.2	44.2	44.2
65°	4770.8	1349.5	112.6	89.8	73.7	57.6	49.6	40.2	37.5	37.5	38.9
67.5°	2855.8	734.4	96.5	76.4	63.0	48.2	41.5	34.8	33.5	34.8	34.8
69°	1673.8	431.5	87.1	68.3	54.9	42.9	36.2	30.8	33.5	34.8	34.8
70°	1033.2	290.8	80.4	61.6	49.6	38.9	33.5	29.5	32.2	33.5	33.5
72.5°	288.1	150.1	64.3	48.2	40.2	32.2	26.8	26.8	30.8	32.2	32.2
75°	187.6	111.2	49.6	36.2	30.8	25.5	22.8	25.5	29.5	30.8	30.8
77.5°	155.5	91.1	40.2	29.5	25.5	24.1	21.4	22.8	26.8	28.1	28.1
80°	142.1	64.3	32.2	26.8	22.8	21.4	20.1	18.8	24.1	25.5	25.5
82.5°	135.4	50.9	28.1	24.1	21.4	18.8	17.4	18.8	21.4	22.8	24.1
85°	84.4	33.5	25.5	22.8	18.8	17.4	17.4	17.4	20.1	21.4	21.4
87.5°	30.8	26.8	22.8	18.8	16.1	16.1	16.1	16.1	17.4	20.1	20.1
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)