

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: P192934

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192934
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-06-LED-E1-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 18412.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

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



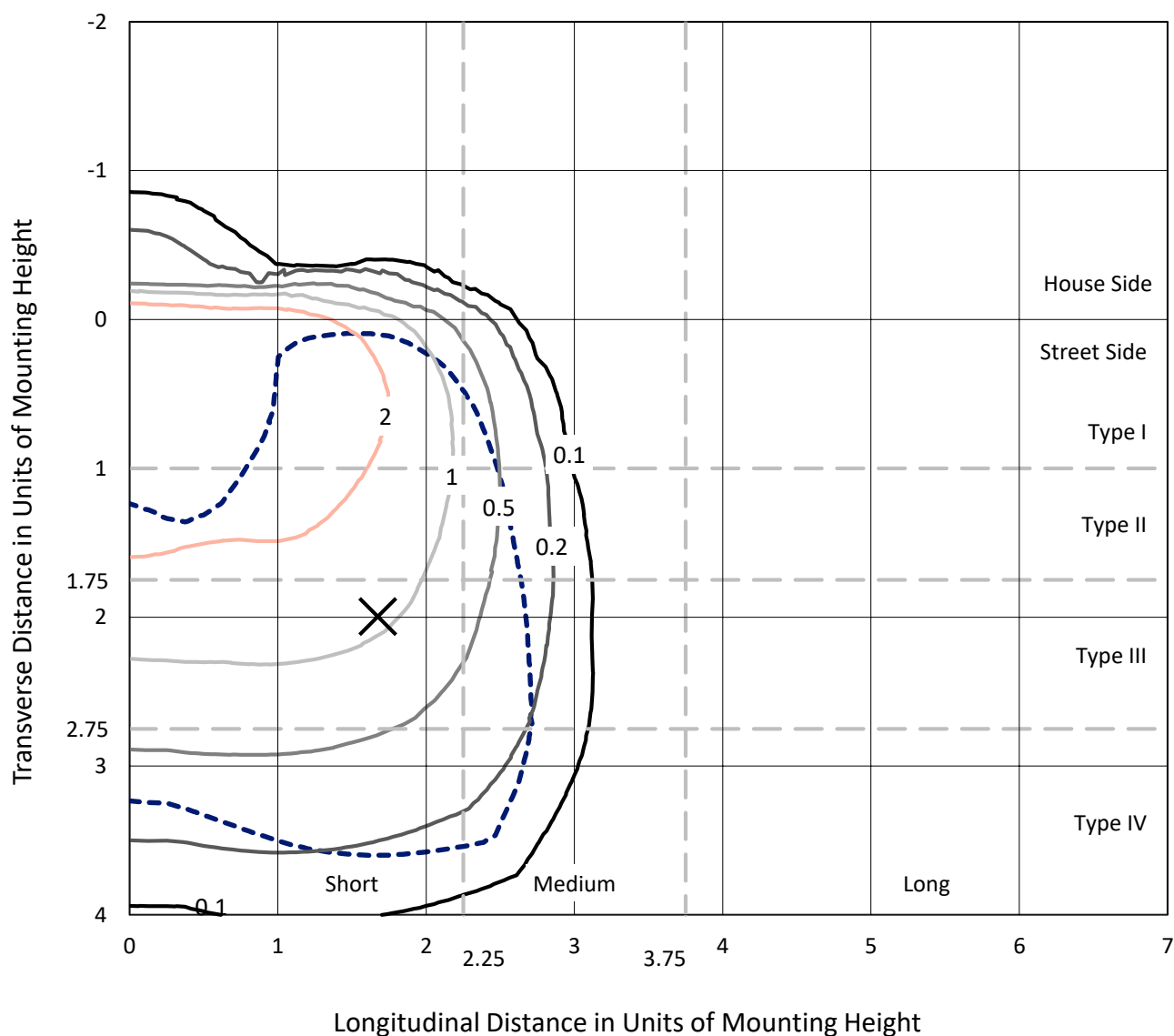
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

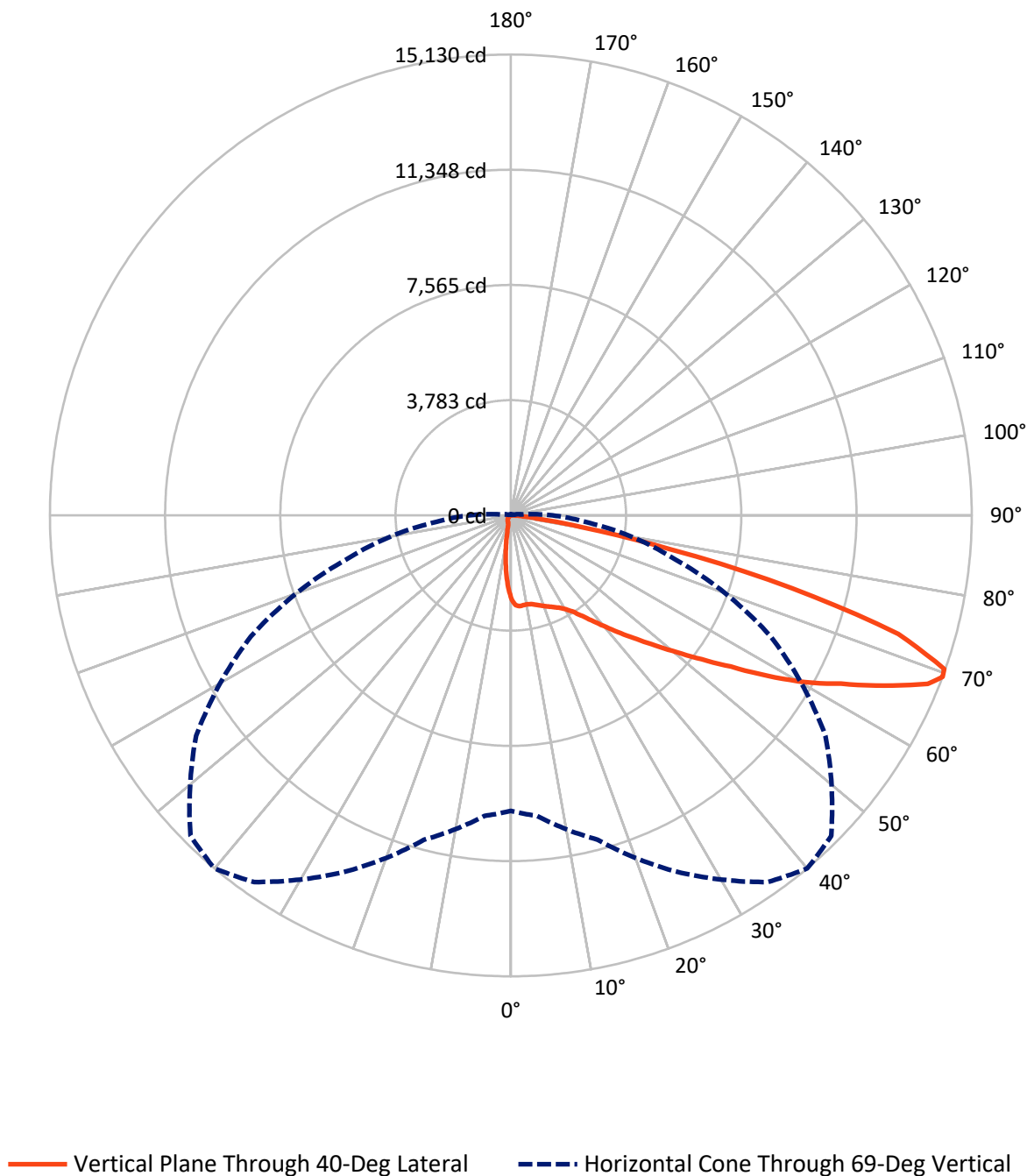


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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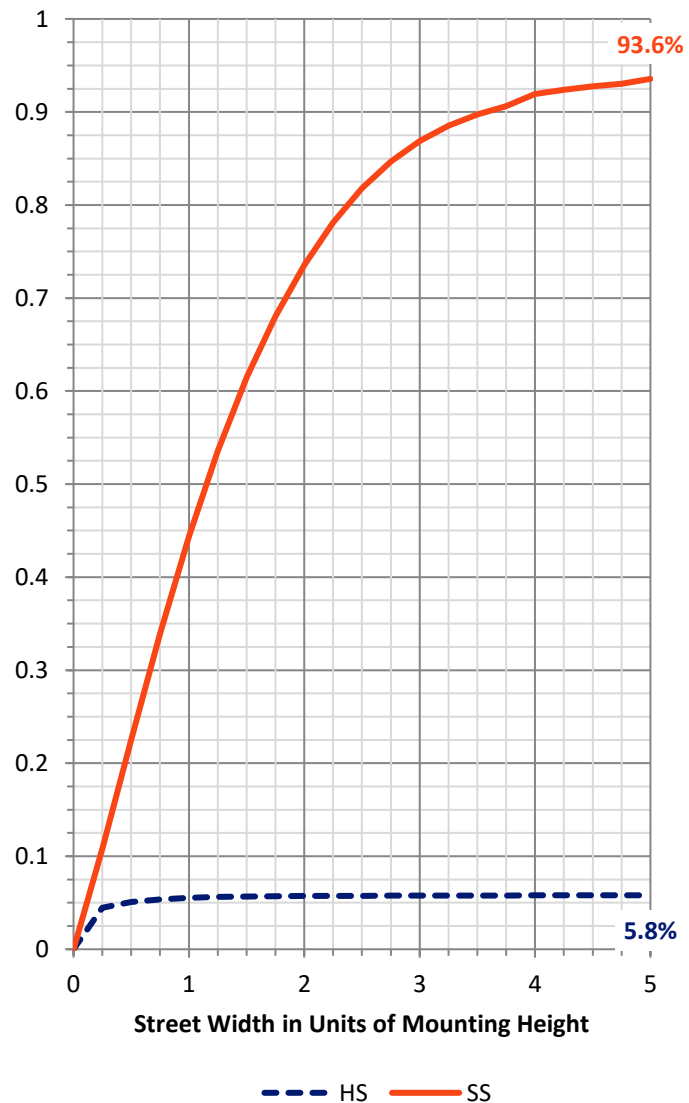
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.2	0.0	1077.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17335.1	0.0	17335.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	18412.4	0.0	18412.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	1.2
10°-20°	548.5	3.0
20°-30°	923.9	5.0
30°-40°	1512.4	8.2
40°-50°	2618.7	14.2
50°-60°	4124.7	22.4
60°-70°	5386.7	29.3
70°-80°	2774.4	15.1
80°-90°	300.1	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°	18412.4	100.0
0°-180°	18412.4	100.0

Coefficient of Utilization



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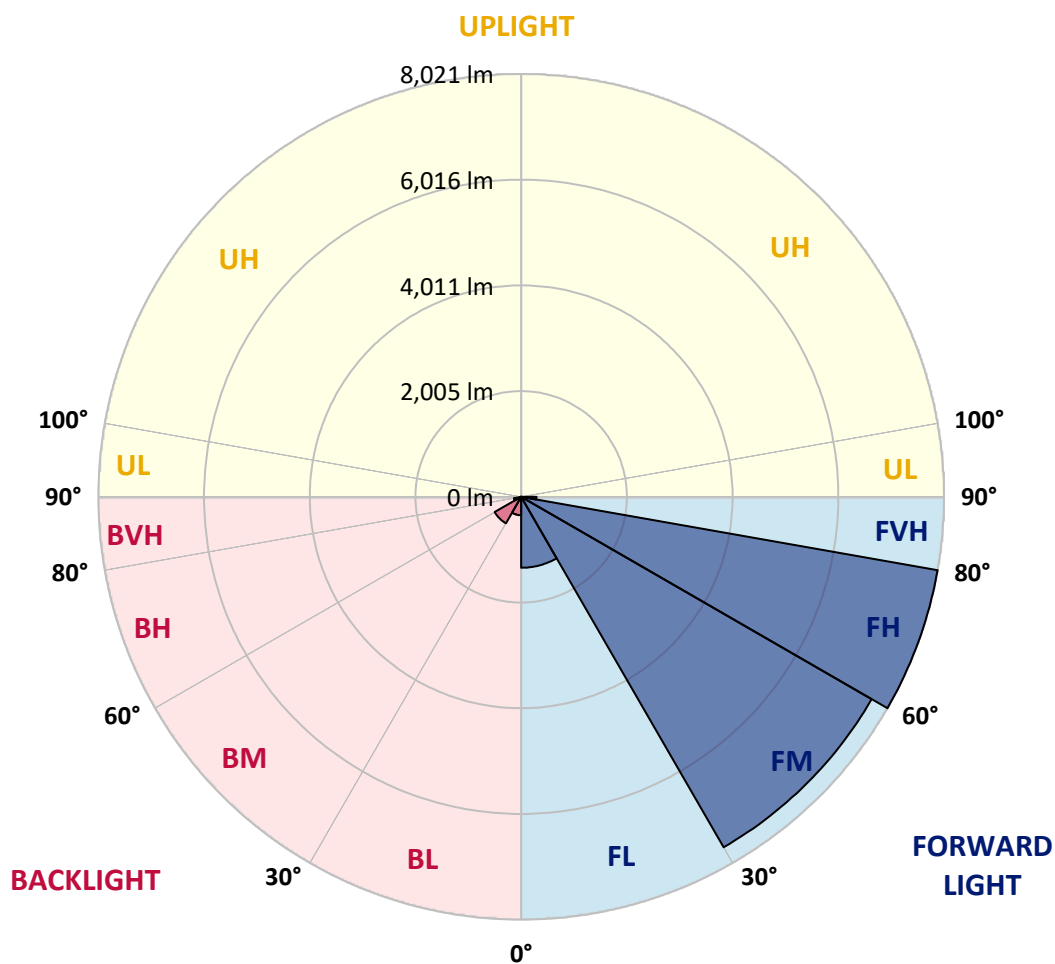
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.5	7.3			
FM	(30°-60°)	7676.8	41.7			
FH	(60°-80°)	8021.2	43.6			G4/12000
FVH	(80°-90°)	290.7	1.6			G3/500
BL	(0°-30°)	348.9	1.9	B1/500		
BM	(30°-60°)	579.0	3.1	B1/1000		
BH	(60°-80°)	139.9	0.8	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			G0/10
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°	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9
2.5°	3020.5	3004.1	2994.2	2981.0	2964.6	2950.3	2944.9	2904.3	2866.0	2813.4	2753.2
5°	3076.4	3071.0	3053.4	3035.9	3016.1	2994.2	2982.1	2933.9	2879.1	2802.4	2697.2
7.5°	3081.8	3075.3	3053.4	3029.3	3001.9	2975.5	2954.8	2906.6	2856.1	2778.4	2650.1
10°	3073.1	3065.5	3049.0	3022.6	2988.7	2963.5	2942.7	2896.7	2854.0	2783.8	2641.4
12.5°	3063.3	3055.6	3047.9	3034.7	3005.1	2987.5	2970.1	2926.3	2887.9	2828.7	2673.1
15°	3073.1	3068.8	3077.5	3072.1	3055.6	3040.2	3022.6	2983.3	2948.2	2898.8	2731.2
17.5°	3114.8	3114.8	3142.2	3145.5	3130.1	3108.2	3083.0	3043.5	3013.9	2972.3	2800.2
20°	3212.3	3209.1	3244.1	3250.7	3213.5	3179.5	3142.2	3093.9	3071.0	3044.6	2868.2
22.5°	3380.1	3364.6	3385.5	3379.0	3305.4	3252.8	3206.9	3147.6	3135.6	3123.5	2943.8
25°	3598.1	3589.2	3603.6	3538.9	3409.6	3338.3	3283.6	3216.7	3216.7	3228.7	3029.3
27.5°	3914.9	3882.0	3833.7	3719.7	3525.8	3434.8	3375.6	3304.3	3323.0	3367.9	3142.2
30°	4239.3	4203.1	4092.5	3917.1	3667.2	3571.8	3502.8	3428.2	3472.0	3554.2	3293.4
32.5°	4559.3	4518.8	4361.9	4140.6	3869.9	3774.6	3707.7	3625.4	3699.0	3836.9	3514.8
35°	4869.4	4833.3	4652.5	4391.5	4139.5	4060.6	3999.2	3928.0	4022.3	4215.1	3827.2
37.5°	5217.9	5178.5	4958.1	4675.4	4467.2	4410.2	4365.2	4294.0	4458.5	4741.2	4262.2
40°	5646.5	5579.7	5282.5	5000.9	4846.4	4819.0	4788.3	4778.5	5033.8	5425.0	4842.1
42.5°	6137.4	6027.9	5622.4	5344.0	5262.9	5282.5	5274.9	5318.7	5753.9	6275.6	5547.8
45°	6628.4	6487.0	6000.5	5710.0	5721.1	5790.0	5832.8	6008.1	6655.8	7251.0	6307.3
47.5°	7044.9	6905.7	6363.3	6105.7	6237.2	6373.1	6489.2	6821.4	7583.0	8211.1	6898.1
50°	7401.1	7269.6	6748.0	6540.8	6836.7	7055.9	7244.4	7736.5	8580.4	8942.1	7312.4
52.5°	7692.6	7605.0	7146.8	7039.5	7521.7	7842.8	8118.9	8708.6	9463.7	9536.1	7634.6
55°	7976.5	7914.0	7575.4	7632.5	8326.1	8763.4	9113.1	9739.9	10224.4	10031.5	7943.7
57.5°	8303.1	8246.2	8064.2	8384.2	9383.7	9934.0	10315.3	10654.0	10894.0	10537.8	8235.2
60°	8636.3	8603.4	8607.8	9219.4	10598.1	11126.3	11336.7	11424.4	11551.7	11014.5	8251.6
62.5°	8954.2	9016.6	9229.2	10148.8	11760.8	12166.4	12272.8	12359.3	12210.3	11090.2	7623.6
65°	9492.2	9594.2	10101.7	11392.7	13040.0	13474.0	13583.5	13286.6	12314.4	10112.6	6201.0
67.5°	9755.3	9941.6	10846.9	12552.2	14280.6	14762.8	14722.2	13346.8	11050.7	7711.3	3979.4
69°	9700.5	9898.9	11018.9	12907.4	14692.6	15130.0	14872.4	12609.2	9414.5	5586.2	2442.9
70°	9483.4	9684.0	10930.2	12894.1	14745.3	15091.7	14594.1	11698.5	7960.1	4084.6	1527.8
72.5°	7919.5	8092.8	9703.8	11654.5	13583.5	13301.9	12209.1	8104.8	3878.7	1112.4	344.1
75°	4874.9	4971.4	6962.8	8779.8	10259.5	9536.1	8134.4	4032.1	1156.3	314.5	190.6
77.5°	2575.6	2619.4	3811.8	5175.2	6503.5	5381.2	4169.2	1572.7	532.6	197.3	138.1
80°	1522.3	1555.2	2052.8	2366.2	2814.5	2350.8	1667.0	965.6	381.5	123.9	122.7
82.5°	871.4	892.1	1488.3	1315.2	1109.1	947.0	829.6	915.1	229.0	83.2	127.2
85°	320.0	324.4	837.4	1000.6	659.8	392.3	412.1	758.4	61.4	52.6	99.8
87.5°	149.0	145.8	430.7	612.6	385.8	248.8	321.1	166.6	24.1	34.0	27.5
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°	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9	2750.9
2.5°	2718.1	2677.5	2604.0	2528.4	2451.7	2392.6	2334.5	2288.4	2273.0	2244.5	2246.8
5°	2634.7	2560.2	2406.8	2251.2	2088.9	1955.2	1829.2	1727.3	1677.9	1627.5	1627.5
7.5°	2562.3	2453.9	2213.9	1960.6	1698.8	1478.5	1280.1	1131.1	1048.9	983.2	982.0
10°	2535.1	2388.2	2052.8	1690.0	1325.0	1024.8	789.1	637.8	560.1	509.5	507.4
12.5°	2547.1	2365.1	1929.0	1440.1	982.0	658.8	457.0	359.5	326.5	311.3	311.3
15°	2582.2	2358.6	1805.1	1195.8	693.8	412.1	303.6	277.3	275.2	275.2	275.2
17.5°	2624.9	2360.8	1677.9	957.8	472.3	294.8	261.9	258.6	260.8	260.8	260.8
20°	2668.6	2361.8	1541.0	737.6	333.1	256.4	246.6	245.5	247.7	247.7	248.8
22.5°	2722.4	2367.3	1404.0	551.3	275.2	242.2	234.6	234.6	235.7	235.7	234.6
25°	2783.8	2378.2	1261.5	408.8	251.0	232.4	225.7	224.6	225.7	224.6	223.6
27.5°	2860.5	2393.7	1102.5	320.0	240.1	222.5	217.0	217.0	215.9	214.8	213.7
30°	2957.0	2411.2	923.9	271.8	229.0	213.7	208.2	207.1	206.1	203.9	203.9
32.5°	3103.8	2449.5	747.5	246.6	217.0	201.7	197.3	197.3	195.1	192.9	191.7
35°	3329.5	2525.1	589.7	231.3	203.9	188.5	183.0	183.0	180.9	179.7	178.6
37.5°	3641.9	2640.2	458.2	217.0	190.6	174.3	168.8	167.7	165.5	163.4	162.2
40°	4057.4	2782.8	360.5	203.9	177.5	160.1	155.5	153.4	149.0	145.8	145.8
42.5°	4578.9	2944.9	292.6	189.6	162.2	146.9	143.5	140.3	132.6	129.4	128.3
45°	5124.8	3090.6	247.7	173.1	146.9	133.8	131.5	126.0	116.2	112.9	112.9
47.5°	5518.2	3124.6	218.1	157.8	132.6	119.4	118.3	108.5	99.8	97.6	96.4
50°	5763.8	3057.7	193.9	142.5	119.4	106.3	103.0	91.0	85.4	83.2	82.2
52.5°	5929.3	2938.3	174.3	129.4	107.4	94.3	86.6	77.8	73.4	71.2	71.2
55°	6061.8	2769.5	154.5	117.2	97.6	84.3	73.4	66.8	62.5	60.3	60.3
57.5°	6099.1	2540.5	134.8	107.4	87.6	74.6	62.5	58.1	52.6	51.5	51.5
60°	5828.4	2127.3	119.4	95.4	78.8	64.7	54.8	49.2	43.8	42.7	41.6
62.5°	5115.0	1646.2	105.2	84.3	69.1	55.9	47.1	40.5	36.2	36.2	36.2
65°	3901.6	1103.6	92.1	73.4	60.3	47.1	40.5	32.9	30.7	30.7	31.8
67.5°	2335.5	600.6	78.8	62.5	51.5	39.5	34.0	28.5	27.5	28.5	28.5
69°	1368.9	352.9	71.2	55.9	44.9	35.1	29.6	25.2	27.5	28.5	28.5
70°	845.0	237.8	65.8	50.4	40.5	31.8	27.5	24.1	26.3	27.5	27.5
72.5°	235.7	122.7	52.6	39.5	32.9	26.3	22.0	22.0	25.2	26.3	26.3
75°	153.4	91.0	40.5	29.6	25.2	20.9	18.7	20.9	24.1	25.2	25.2
77.5°	127.2	74.6	32.9	24.1	20.9	19.7	17.5	18.7	22.0	23.1	23.1
80°	116.2	52.6	26.3	22.0	18.7	17.5	16.4	15.3	19.7	20.9	20.9
82.5°	110.7	41.6	23.1	19.7	17.5	15.3	14.2	15.3	17.5	18.7	19.7
85°	69.1	27.5	20.9	18.7	15.3	14.2	14.2	14.2	16.4	17.5	17.5
87.5°	25.2	22.0	18.7	15.3	13.1	13.1	13.1	13.1	14.2	16.4	16.4
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)