

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: P194561

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7060-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194561
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-03-LED-E1-SL4-7060-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA 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: 16180 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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



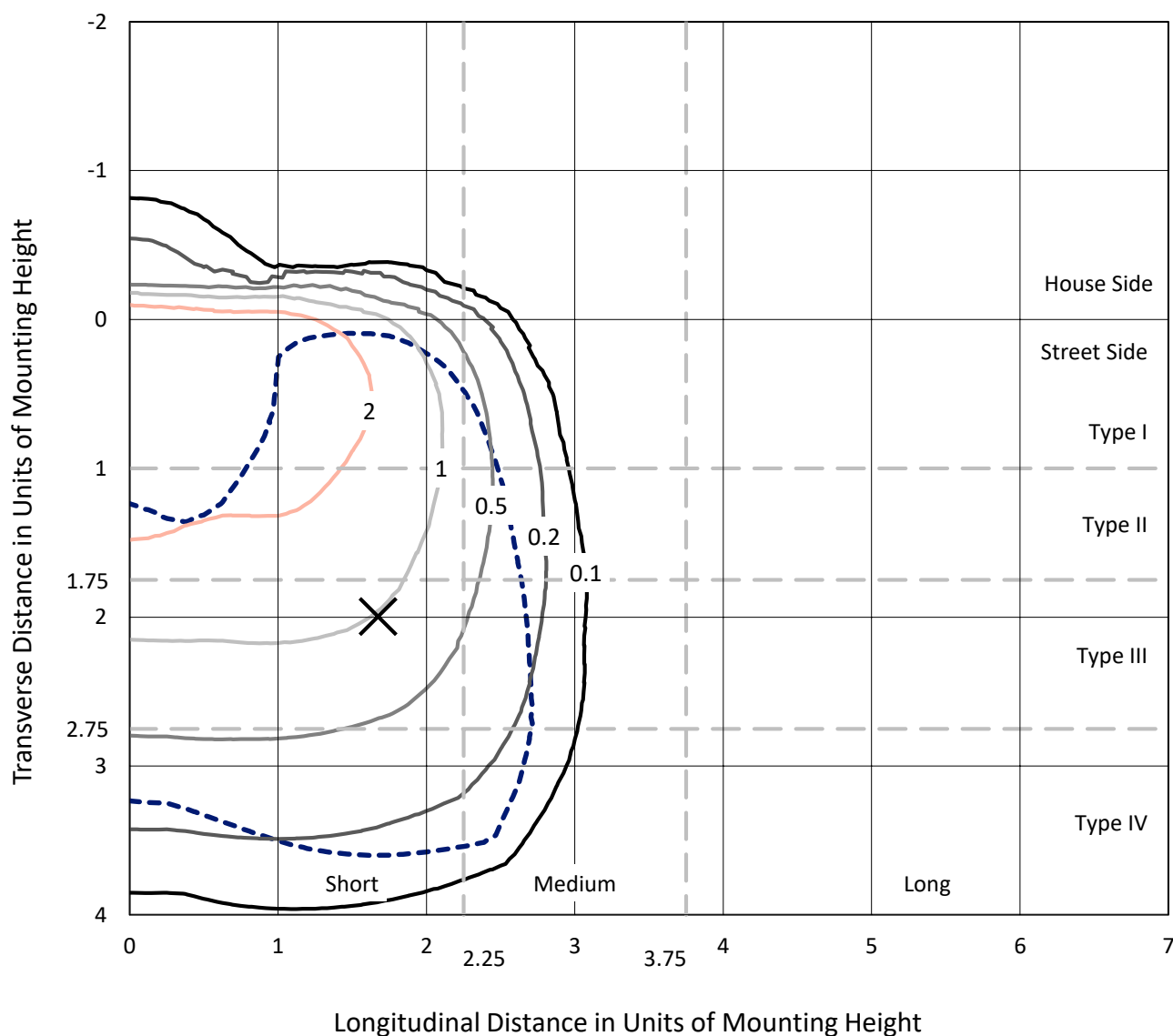
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

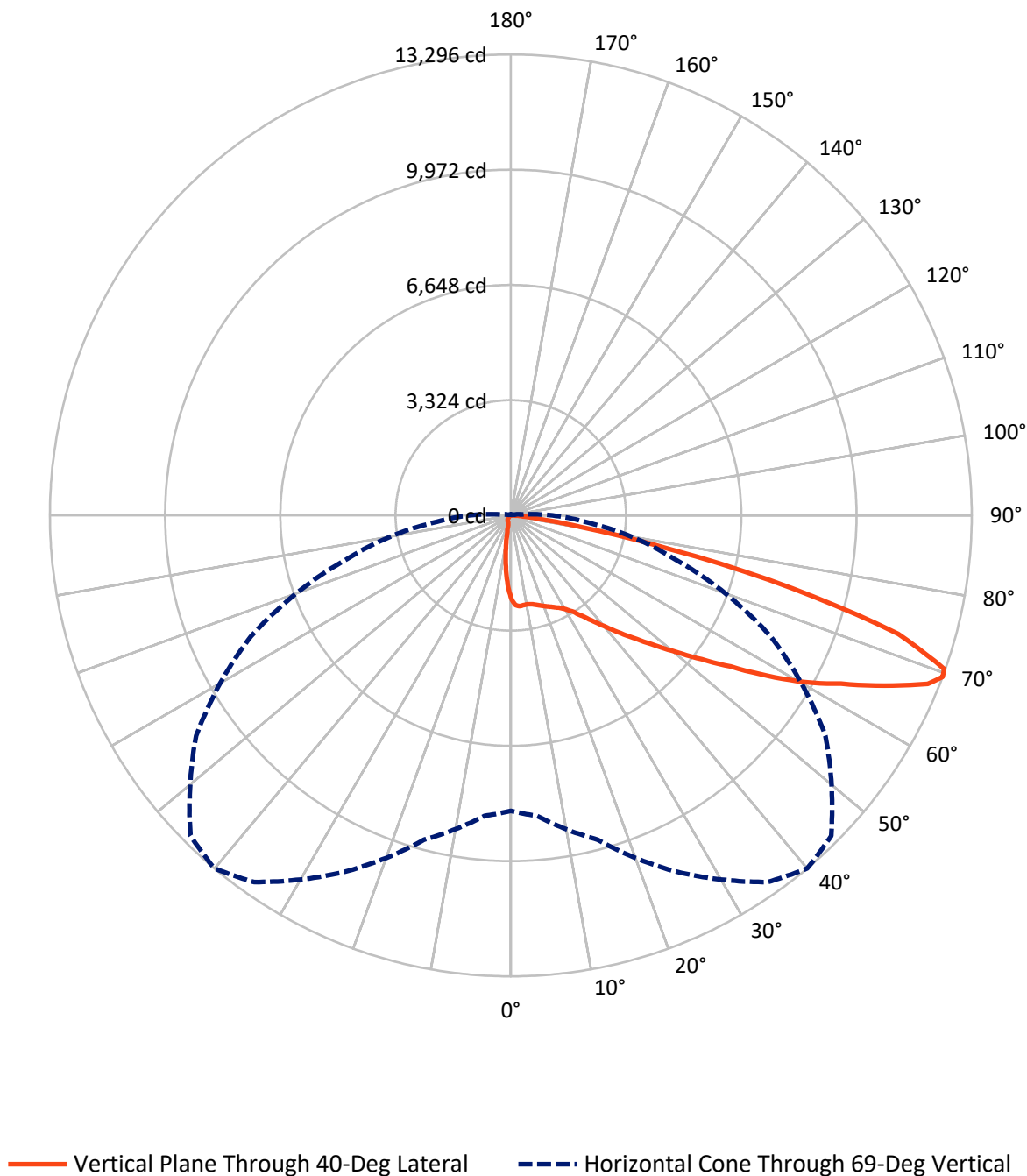


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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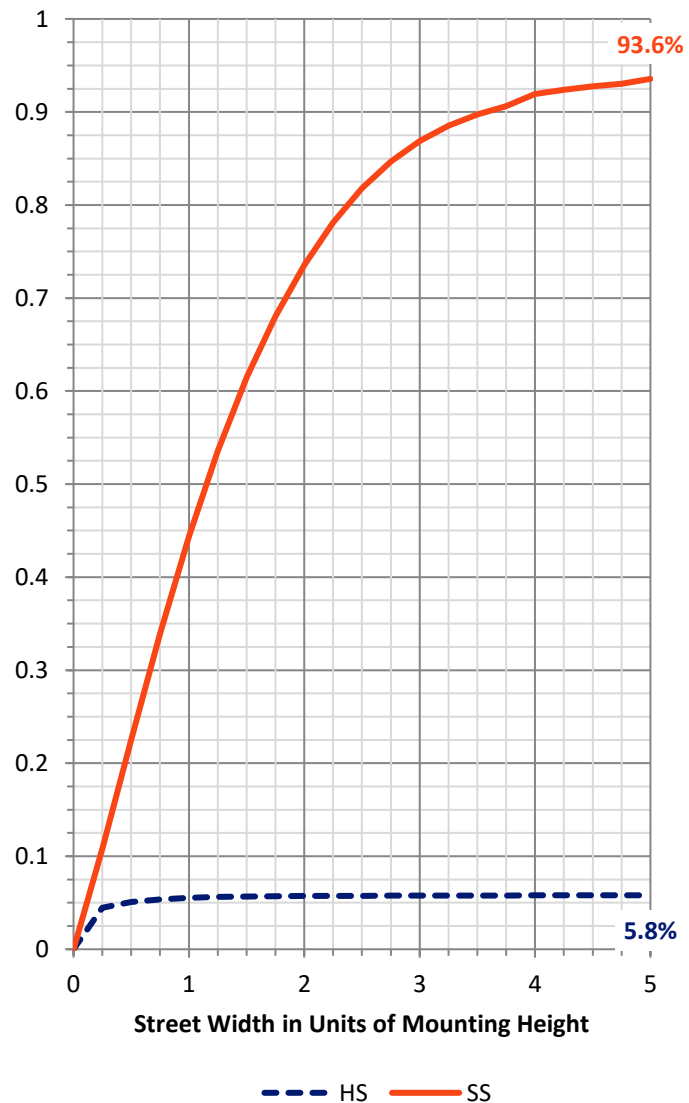
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.6	0.0	946.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15233.4	0.0	15233.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	16180.0	0.0	16180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	1.2
10°-20°	482.0	3.0
20°-30°	811.9	5.0
30°-40°	1329.0	8.2
40°-50°	2301.2	14.2
50°-60°	3624.6	22.4
60°-70°	4733.6	29.3
70°-80°	2438.0	15.1
80°-90°	263.7	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°	16180.0	100.0
0°-180°	16180.0	100.0

Coefficient of Utilization



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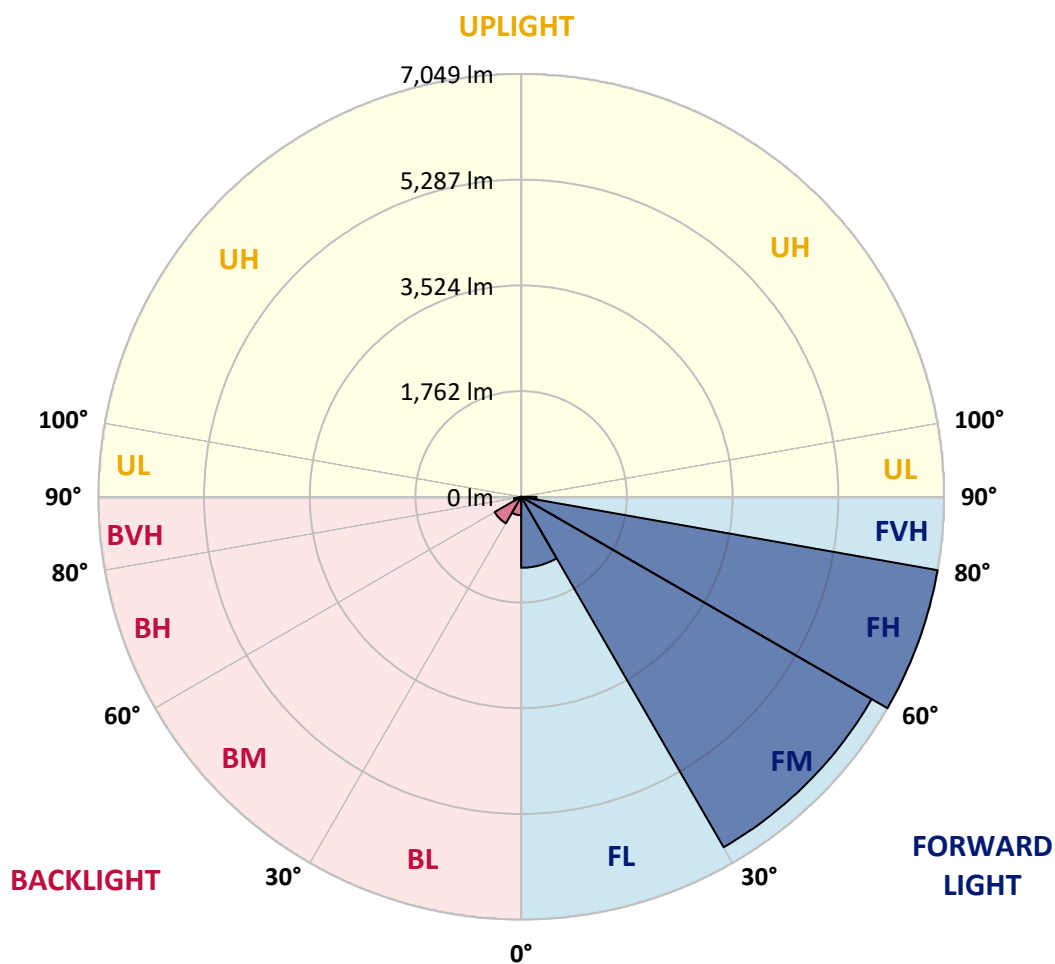
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.2	7.3			
FM	(30°-60°)	6746.0	41.7			
FH	(60°-80°)	7048.7	43.6			G3/7500
FVH	(80°-90°)	255.4	1.6			G3/500
BL	(0°-30°)	306.6	1.9	B1/500		
BM	(30°-60°)	508.8	3.1	B1/1000		
BH	(60°-80°)	122.9	0.8	B1/500		G1/500
BVH	(80°-90°)	8.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2654.3	2639.9	2631.2	2619.6	2605.2	2592.7	2587.8	2552.2	2518.5	2472.3	2419.3
5°	2703.4	2698.6	2683.2	2667.8	2650.4	2631.2	2620.6	2578.2	2530.1	2462.6	2370.2
7.5°	2708.2	2702.5	2683.2	2662.0	2637.9	2614.8	2596.5	2554.1	2509.8	2441.5	2328.8
10°	2700.5	2693.8	2679.3	2656.2	2626.4	2604.2	2585.9	2545.5	2507.9	2446.3	2321.1
12.5°	2691.9	2685.1	2678.4	2666.8	2640.8	2625.4	2610.0	2571.5	2537.8	2485.8	2349.0
15°	2700.5	2696.7	2704.4	2699.6	2685.1	2671.6	2656.2	2621.6	2590.7	2547.4	2400.0
17.5°	2737.1	2737.1	2761.2	2764.1	2750.6	2731.3	2709.2	2674.5	2648.5	2611.9	2460.7
20°	2822.8	2820.0	2850.8	2856.5	2823.8	2793.9	2761.2	2718.8	2698.6	2675.5	2520.4
22.5°	2970.2	2956.7	2975.0	2969.2	2904.7	2858.5	2818.0	2766.0	2755.4	2744.8	2586.9
25°	3161.8	3154.1	3166.7	3109.8	2996.2	2933.6	2885.4	2826.7	2826.7	2837.3	2662.0
27.5°	3440.2	3411.3	3368.9	3268.8	3098.3	3018.3	2966.3	2903.7	2920.1	2959.6	2761.2
30°	3725.3	3693.5	3596.2	3442.1	3222.5	3138.7	3078.1	3012.6	3051.1	3123.3	2894.1
32.5°	4006.5	3970.9	3833.1	3638.6	3400.7	3316.9	3258.2	3185.9	3250.5	3371.8	3088.7
35°	4279.0	4247.3	4088.3	3859.1	3637.6	3568.3	3514.3	3451.7	3534.6	3704.1	3363.1
37.5°	4585.3	4550.6	4357.1	4108.6	3925.6	3875.5	3836.0	3773.4	3917.9	4166.4	3745.5
40°	4961.9	4903.1	4642.1	4394.6	4258.8	4234.7	4207.8	4199.1	4423.5	4767.3	4255.0
42.5°	5393.3	5297.0	4940.7	4696.1	4624.8	4642.1	4635.4	4673.9	5056.3	5514.7	4875.2
45°	5824.8	5700.6	5273.0	5017.7	5027.4	5088.0	5125.6	5279.7	5848.9	6371.9	5542.6
47.5°	6190.8	6068.5	5591.7	5365.4	5481.0	5600.4	5702.5	5994.3	6663.7	7215.5	6061.7
50°	6503.8	6388.2	5929.8	5747.8	6007.8	6200.4	6366.1	6798.5	7540.1	7857.9	6425.8
52.5°	6760.0	6682.9	6280.4	6186.0	6609.7	6891.9	7134.6	7652.8	8316.3	8379.9	6708.9
55°	7009.4	6954.5	6656.9	6707.0	7316.7	7700.9	8008.2	8559.0	8984.7	8815.2	6980.5
57.5°	7296.4	7246.3	7086.5	7367.7	8246.0	8729.5	9064.7	9362.3	9573.2	9260.2	7236.7
60°	7589.2	7560.3	7564.2	8101.6	9313.2	9777.4	9962.3	10039.3	10151.0	9679.1	7251.2
62.5°	7868.5	7923.4	8110.2	8918.3	10335.0	10691.3	10784.8	10860.9	10729.9	9745.6	6699.3
65°	8341.4	8431.0	8876.9	10011.4	11458.9	11840.3	11936.6	11675.6	10821.4	8886.5	5449.2
67.5°	8572.5	8736.3	9531.8	11030.4	12549.2	12972.9	12937.3	11728.6	9710.9	6776.4	3497.0
69°	8524.4	8698.7	9683.0	11342.4	12911.3	13295.6	13069.2	11080.4	8273.0	4908.9	2146.7
70°	8333.7	8509.9	9605.0	11330.8	12957.5	13261.9	12824.6	10280.1	6995.0	3589.5	1342.6
72.5°	6959.3	7111.5	8527.3	10241.6	11936.6	11689.1	10728.9	7122.1	3408.4	977.5	302.4
75°	4283.9	4368.6	6118.6	7715.4	9015.6	8379.9	7148.1	3543.2	1016.1	276.4	167.6
77.5°	2263.3	2301.8	3349.7	4547.7	5715.0	4728.8	3663.6	1382.0	468.1	173.4	121.4
80°	1337.7	1366.6	1803.9	2079.3	2473.2	2065.8	1464.9	848.5	335.2	108.8	107.9
82.5°	765.7	784.0	1307.9	1155.7	974.7	832.1	729.1	804.2	201.3	73.2	111.7
85°	281.2	285.1	735.8	879.3	579.8	344.8	362.1	666.5	53.9	46.2	87.6
87.5°	131.0	128.1	378.5	538.4	339.0	218.6	282.2	146.4	21.2	29.9	24.1
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°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2388.5	2352.8	2288.3	2221.9	2154.4	2102.4	2051.4	2010.9	1997.5	1972.4	1974.4
5°	2315.3	2249.8	2115.0	1978.2	1835.7	1718.2	1607.4	1517.8	1474.5	1430.2	1430.2
7.5°	2251.7	2156.4	1945.5	1723.0	1492.8	1299.2	1124.9	993.9	921.7	863.9	862.9
10°	2227.6	2098.6	1803.9	1485.1	1164.4	900.5	693.4	560.5	492.1	447.8	445.9
12.5°	2238.2	2078.4	1695.1	1265.5	862.9	578.8	401.6	315.9	287.0	273.5	273.5
15°	2269.1	2072.6	1586.2	1050.7	609.6	362.1	266.8	243.7	241.7	241.7	241.7
17.5°	2306.6	2074.5	1474.5	841.7	415.1	259.1	230.2	227.3	229.2	229.2	229.2
20°	2345.1	2075.5	1354.1	648.2	292.8	225.4	216.7	215.7	217.7	217.7	218.6
22.5°	2392.3	2080.3	1233.7	484.4	241.7	212.8	206.1	206.1	207.1	207.1	206.1
25°	2446.3	2089.9	1108.5	359.2	220.5	204.2	198.4	197.4	198.4	197.4	196.5
27.5°	2513.7	2103.4	968.9	281.2	210.9	195.5	190.7	190.7	189.7	188.8	187.8
30°	2598.4	2118.8	811.9	238.8	201.3	187.8	183.0	182.0	181.1	179.1	179.1
32.5°	2727.5	2152.5	656.8	216.7	190.7	177.2	173.4	173.4	171.4	169.5	168.5
35°	2925.9	2219.0	518.1	203.2	179.1	165.7	160.8	160.8	158.9	157.9	157.0
37.5°	3200.4	2320.1	402.6	190.7	167.6	153.1	148.3	147.4	145.4	143.5	142.5
40°	3565.4	2445.3	316.9	179.1	156.0	140.6	136.8	134.8	131.0	128.1	128.1
42.5°	4023.8	2587.8	257.1	166.6	142.5	129.1	126.2	123.3	116.5	113.6	112.7
45°	4503.4	2715.9	217.7	152.2	129.1	117.5	115.6	110.8	102.1	99.2	99.2
47.5°	4849.2	2745.8	191.7	138.7	116.5	105.0	104.0	95.3	87.6	85.7	84.8
50°	5064.9	2687.0	170.5	125.2	105.0	93.4	90.5	79.9	75.1	73.2	72.2
52.5°	5210.4	2582.1	153.1	113.6	94.4	82.8	76.1	68.4	64.5	62.6	62.6
55°	5326.9	2433.7	135.8	103.1	85.7	74.2	64.5	58.7	54.9	53.0	53.0
57.5°	5359.6	2232.5	118.5	94.4	77.0	65.5	54.9	51.0	46.2	45.3	45.3
60°	5121.8	1869.4	105.0	83.8	69.3	56.8	48.2	43.3	38.5	37.6	36.6
62.5°	4494.8	1446.6	92.5	74.2	60.7	49.1	41.4	35.6	31.8	31.8	31.8
65°	3428.6	969.8	80.9	64.5	53.0	41.4	35.6	28.9	27.0	27.0	27.9
67.5°	2052.4	527.8	69.3	54.9	45.3	34.7	29.9	25.0	24.1	25.0	25.0
69°	1202.9	310.1	62.6	49.1	39.5	30.8	26.0	22.2	24.1	25.0	25.0
70°	742.5	209.0	57.8	44.3	35.6	27.9	24.1	21.2	23.1	24.1	24.1
72.5°	207.1	107.9	46.2	34.7	28.9	23.1	19.3	19.3	22.2	23.1	23.1
75°	134.8	79.9	35.6	26.0	22.2	18.3	16.4	18.3	21.2	22.2	22.2
77.5°	111.7	65.5	28.9	21.2	18.3	17.3	15.4	16.4	19.3	20.2	20.2
80°	102.1	46.2	23.1	19.3	16.4	15.4	14.4	13.5	17.3	18.3	18.3
82.5°	97.3	36.6	20.2	17.3	15.4	13.5	12.5	13.5	15.4	16.4	17.3
85°	60.7	24.1	18.3	16.4	13.5	12.5	12.5	12.5	14.4	15.4	15.4
87.5°	22.2	19.3	16.4	13.5	11.6	11.6	11.6	11.6	12.5	14.4	14.4
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)