

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: P192952

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192952
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-04-LED-E1-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 18848.3 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 225
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



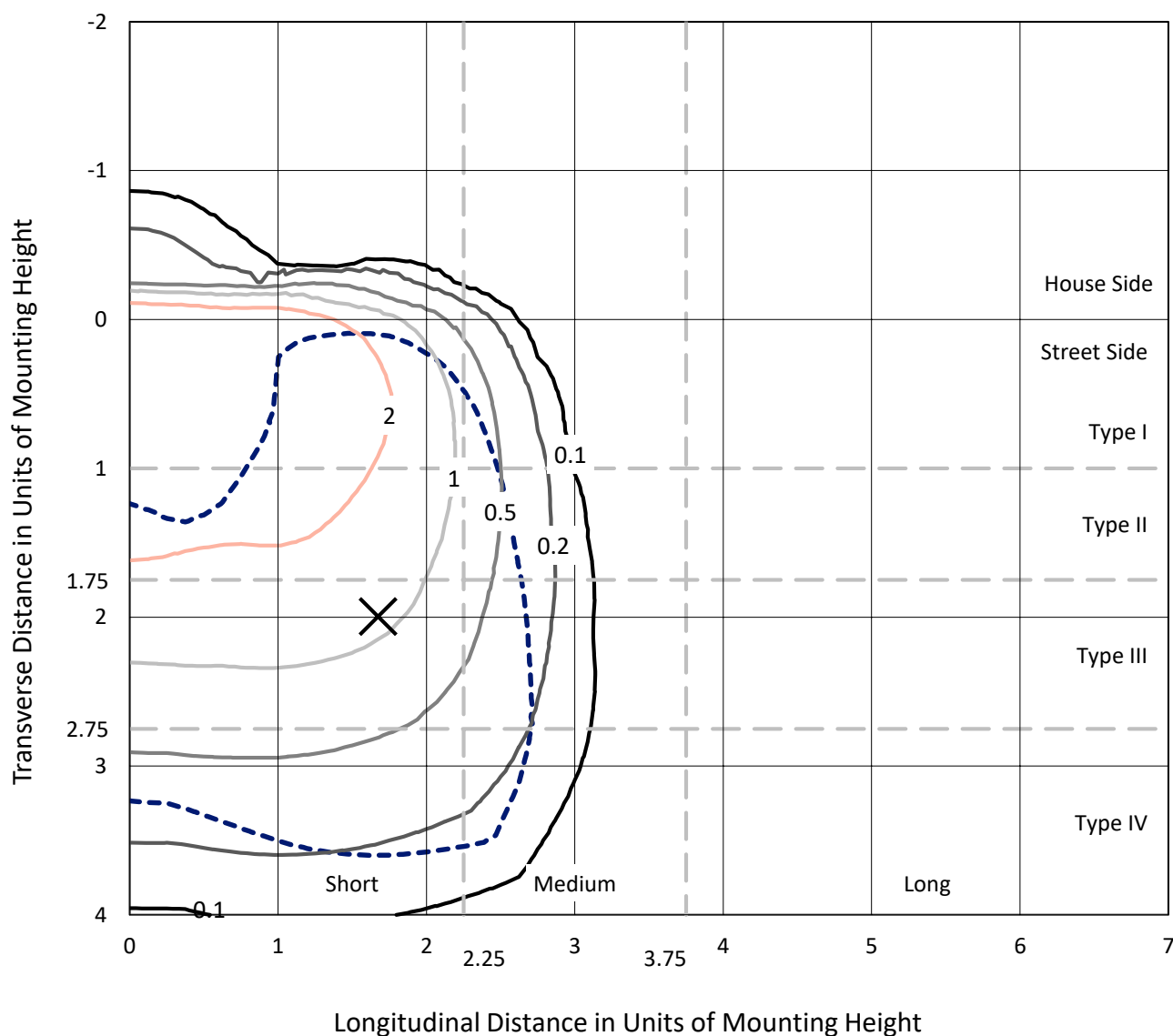
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

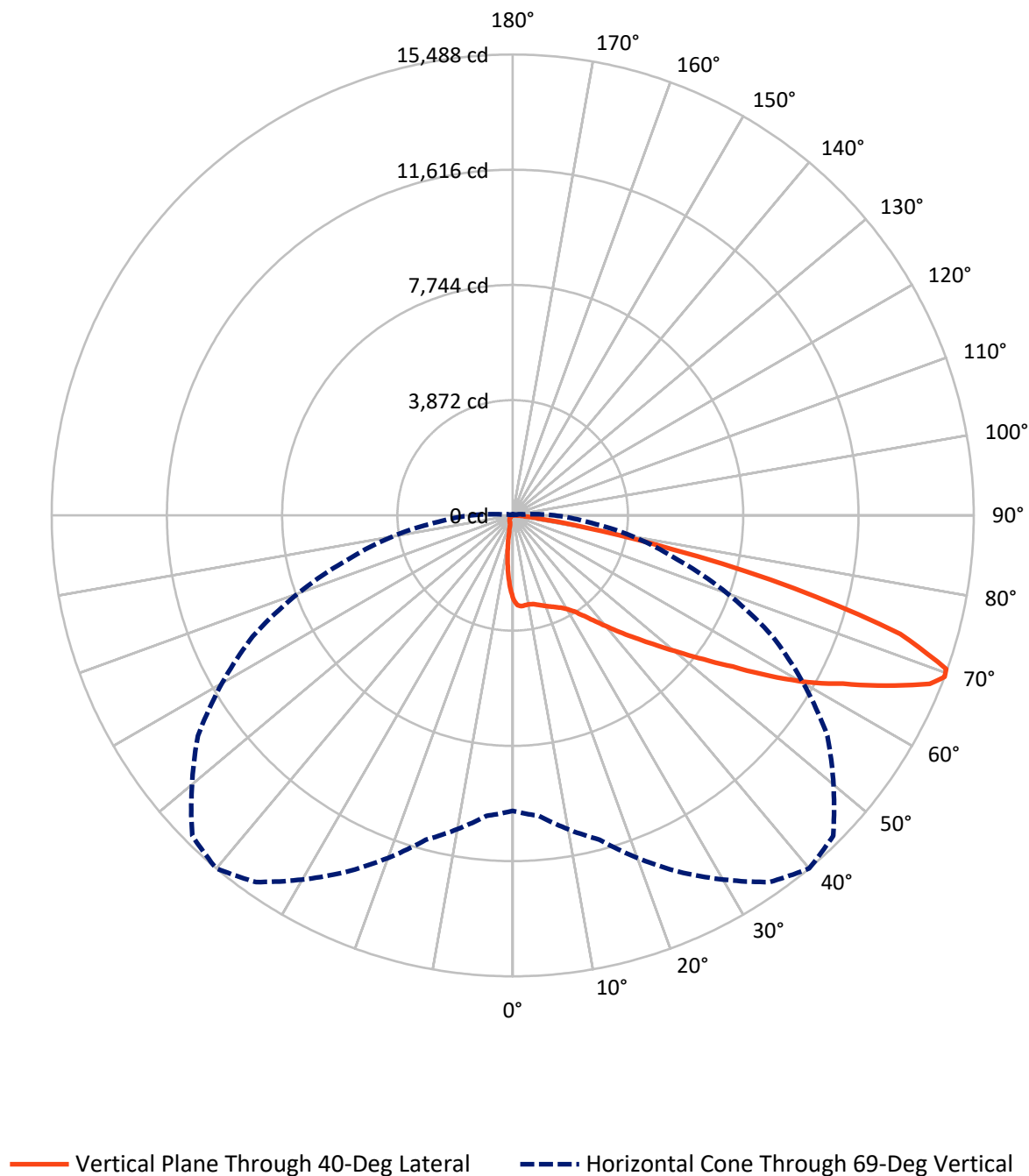


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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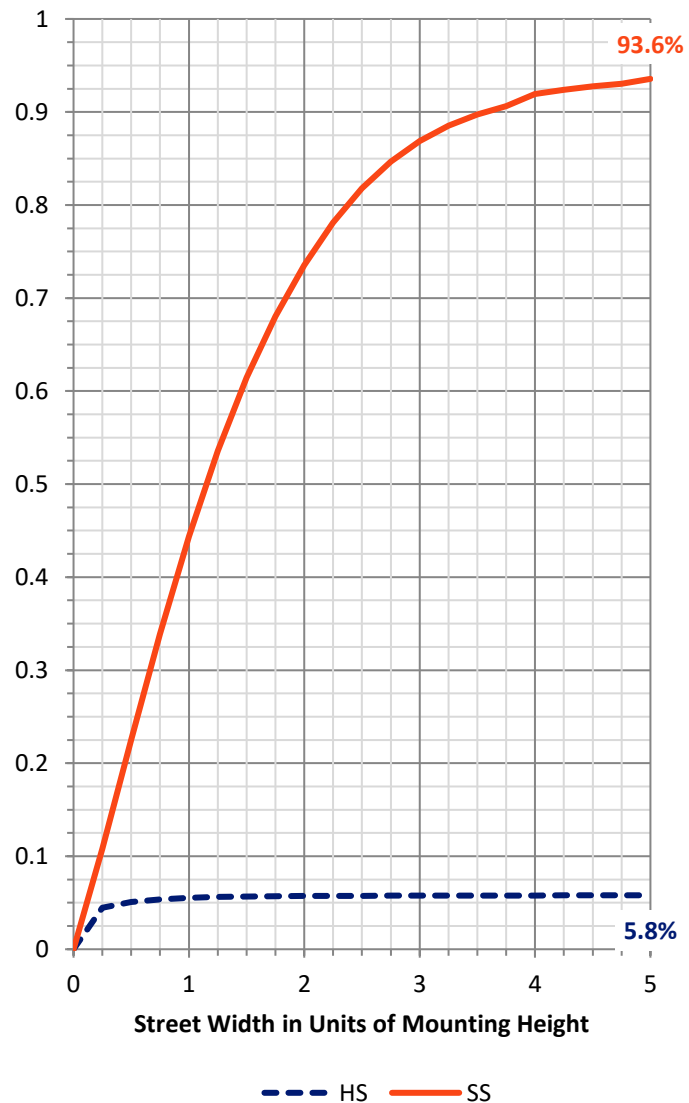
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.7	0.0	1102.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17745.6	0.0	17745.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	18848.3	0.0	18848.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.2
10°-20°	561.5	3.0
20°-30°	945.7	5.0
30°-40°	1548.2	8.2
40°-50°	2680.7	14.2
50°-60°	4222.3	22.4
60°-70°	5514.2	29.3
70°-80°	2840.1	15.1
80°-90°	307.2	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°	18848.3	100.0
0°-180°	18848.3	100.0

Coefficient of Utilization



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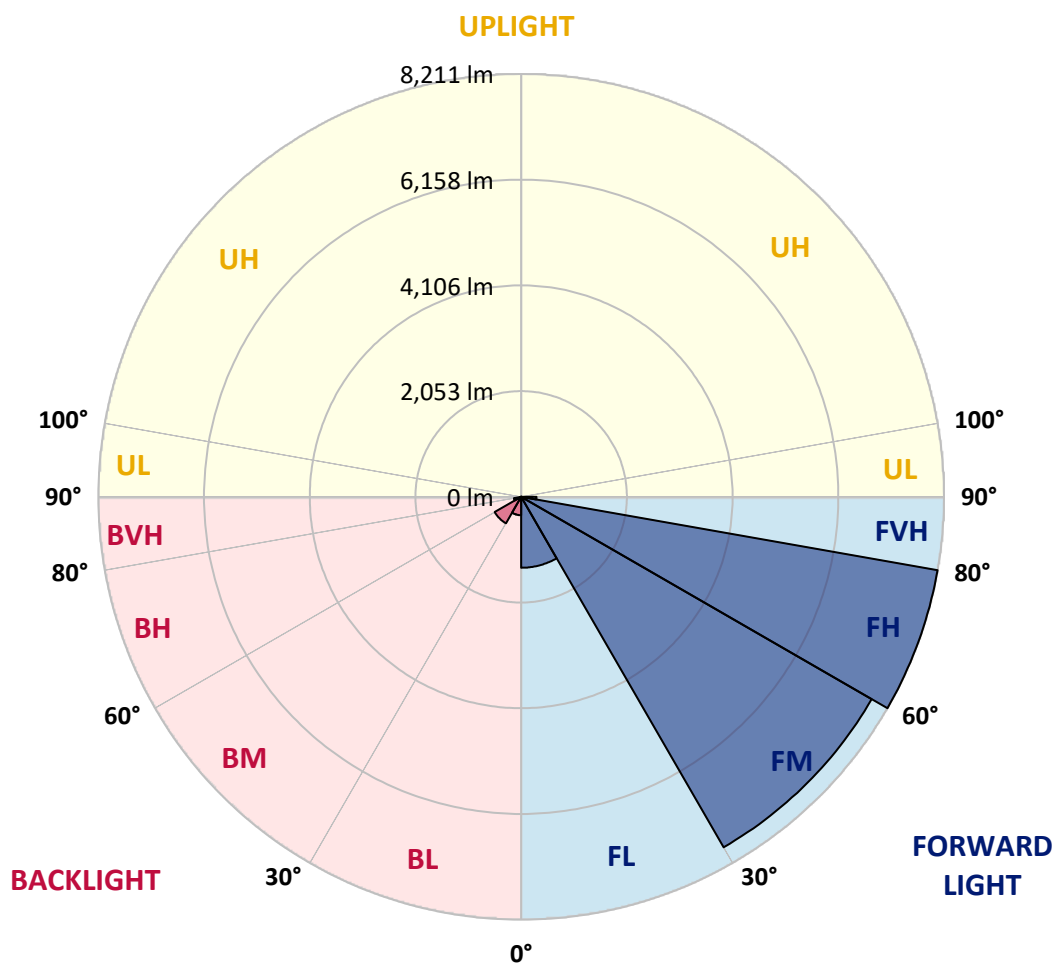
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.4	7.3			
FM	(30°-60°)	7858.6	41.7			
FH	(60°-80°)	8211.1	43.6			G4/12000
FVH	(80°-90°)	297.6	1.6			G3/500
BL	(0°-30°)	357.2	1.9	B1/500		
BM	(30°-60°)	592.7	3.1	B1/1000		
BH	(60°-80°)	143.2	0.8	B1/500		G1/500
BVH	(80°-90°)	9.6	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°	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0
2.5°	3092.0	3075.2	3065.0	3051.6	3034.7	3020.3	3014.6	2973.1	2933.8	2880.0	2818.3
5°	3149.3	3143.6	3125.7	3107.8	3087.5	3065.0	3052.8	3003.4	2947.3	2868.7	2761.1
7.5°	3154.9	3148.1	3125.7	3101.0	3072.9	3046.0	3024.8	2975.3	2923.8	2844.1	2712.8
10°	3145.9	3138.0	3121.2	3094.2	3059.5	3033.7	3012.4	2965.3	2921.5	2849.7	2703.8
12.5°	3135.7	3128.0	3120.1	3106.6	3076.3	3058.3	3040.4	2995.6	2956.2	2895.7	2736.4
15°	3145.9	3141.4	3150.4	3144.8	3128.0	3112.2	3094.2	3053.9	3018.0	2967.5	2795.8
17.5°	3188.5	3188.5	3216.6	3220.0	3204.2	3181.7	3156.0	3115.6	3085.3	3042.7	2866.5
20°	3288.3	3285.0	3320.9	3327.6	3289.5	3254.8	3216.6	3167.2	3143.6	3116.7	2936.2
22.5°	3460.0	3444.3	3465.6	3458.9	3383.8	3329.9	3282.8	3222.2	3209.8	3197.5	3013.5
25°	3683.2	3674.3	3688.9	3622.7	3490.3	3417.4	3361.3	3292.8	3292.8	3305.2	3101.0
27.5°	4007.5	3973.9	3924.5	3807.8	3609.3	3516.1	3455.6	3382.5	3401.7	3447.6	3216.6
30°	4339.6	4302.6	4189.2	4009.9	3753.9	3656.4	3585.7	3509.4	3554.3	3638.5	3371.4
32.5°	4667.2	4625.7	4465.3	4238.6	3961.5	3864.0	3795.4	3711.3	3786.5	3927.9	3598.0
35°	4984.7	4947.7	4762.6	4495.6	4237.5	4156.8	4094.0	4021.0	4117.4	4314.9	3917.8
37.5°	5341.4	5301.2	5075.6	4786.1	4572.9	4514.6	4468.6	4395.7	4564.0	4853.4	4363.2
40°	5780.2	5711.7	5407.7	5119.4	4961.1	4933.0	4901.7	4891.6	5153.0	5553.5	4956.6
42.5°	6282.7	6170.6	5755.4	5470.5	5387.5	5407.7	5399.8	5444.7	5890.1	6424.1	5679.2
45°	6785.4	6640.7	6142.5	5845.3	5856.4	5927.1	5970.9	6150.4	6813.4	7422.6	6456.6
47.5°	7211.7	7069.3	6513.9	6250.2	6384.9	6524.0	6643.0	6982.9	7762.7	8405.5	7061.4
50°	7576.4	7441.7	6907.7	6695.6	6998.6	7222.9	7416.0	7919.6	8783.6	9153.8	7485.5
52.5°	7874.8	7785.0	7316.1	7206.0	7699.8	8028.5	8311.3	8914.8	9687.8	9761.9	7815.4
55°	8165.4	8101.5	7754.7	7813.1	8523.4	8970.9	9328.8	9970.6	10466.5	10268.9	8131.7
57.5°	8499.8	8441.4	8255.1	8582.8	9606.0	10169.1	10559.6	10906.3	11152.0	10787.2	8430.1
60°	8840.8	8807.2	8811.6	9437.6	10849.0	11389.8	11605.2	11695.0	11825.1	11275.3	8447.0
62.5°	9166.1	9230.1	9447.7	10389.0	12039.4	12454.5	12563.2	12652.0	12499.4	11352.8	7804.2
65°	9717.0	9821.4	10340.9	11662.5	13348.6	13793.0	13905.2	13601.1	12606.0	10352.0	6347.9
67.5°	9986.3	10177.0	11103.7	12849.4	14618.7	15112.3	15070.7	13662.9	11312.3	7893.9	4073.7
69°	9930.1	10133.2	11279.8	13212.9	15040.5	15488.1	15224.5	12907.8	9637.3	5718.4	2500.7
70°	9708.0	9913.3	11189.0	13199.5	15094.3	15448.9	14939.6	11975.5	8148.5	4181.5	1563.9
72.5°	8107.0	8284.2	9933.6	11930.6	13905.2	13616.9	12498.2	8296.6	3970.5	1138.8	352.3
75°	4990.3	5089.1	7127.6	8987.7	10502.3	9761.9	8326.9	4127.6	1183.6	322.0	195.2
77.5°	2636.5	2681.4	3902.0	5297.8	6657.5	5508.7	4267.7	1609.9	545.2	201.9	141.4
80°	1558.4	1592.0	2101.4	2422.3	2881.0	2406.6	1706.4	988.5	390.4	126.7	125.6
82.5°	891.9	913.3	1523.6	1346.3	1135.4	969.3	849.3	936.8	234.5	85.2	130.1
85°	327.6	332.0	857.1	1024.3	675.4	401.6	421.8	776.4	62.9	53.9	102.0
87.5°	152.6	149.2	441.0	627.1	395.0	254.7	328.8	170.6	24.7	34.8	28.1
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°	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0
2.5°	2782.4	2740.9	2665.7	2588.3	2509.8	2449.1	2389.7	2342.6	2326.9	2297.7	2299.9
5°	2697.1	2620.8	2463.8	2304.4	2138.4	2001.5	1872.4	1768.2	1717.7	1666.1	1666.1
7.5°	2623.1	2512.0	2266.2	2007.1	1739.0	1513.5	1310.4	1157.8	1073.7	1006.4	1005.3
10°	2595.0	2444.6	2101.4	1730.0	1356.5	1049.0	807.8	653.0	573.3	521.7	519.4
12.5°	2607.4	2421.0	1974.7	1474.2	1005.3	674.2	467.8	367.9	334.4	318.6	318.6
15°	2643.3	2414.4	1847.8	1224.0	710.1	421.8	310.8	283.8	281.6	281.6	281.6
17.5°	2687.0	2416.6	1717.7	980.6	483.6	301.8	268.1	264.7	267.0	267.0	267.0
20°	2731.9	2417.8	1577.3	755.1	341.1	262.6	252.4	251.3	253.6	253.6	254.7
22.5°	2786.8	2423.4	1437.2	564.4	281.6	247.9	240.1	240.1	241.3	241.3	240.1
25°	2849.7	2434.7	1291.3	418.5	256.9	237.8	231.1	230.0	231.1	230.0	228.9
27.5°	2928.2	2450.2	1128.6	327.6	245.8	227.8	222.2	222.2	221.0	219.9	218.7
30°	3026.9	2468.2	945.7	278.3	234.5	218.7	213.2	212.1	210.9	208.6	208.6
32.5°	3177.3	2507.5	765.2	252.4	222.2	206.4	201.9	201.9	199.7	197.4	196.3
35°	3408.5	2585.0	603.5	236.8	208.6	193.0	187.4	187.4	185.0	184.0	182.9
37.5°	3728.2	2702.7	468.9	222.2	195.2	178.4	172.7	171.6	169.5	167.1	166.1
40°	4153.4	2848.6	369.1	208.6	181.7	163.8	159.3	157.2	152.6	149.2	149.2
42.5°	4687.4	3014.6	299.6	194.1	166.1	150.3	147.0	143.5	135.7	132.4	131.2
45°	5246.1	3163.8	253.6	177.2	150.3	136.9	134.6	129.0	118.9	115.6	115.6
47.5°	5648.9	3198.6	223.2	161.6	135.7	122.3	121.2	111.1	102.0	99.9	98.8
50°	5900.2	3130.2	198.7	145.9	122.3	108.8	105.4	93.1	87.5	85.2	84.1
52.5°	6069.6	3007.9	178.4	132.4	110.0	96.4	88.6	79.6	75.2	72.8	72.8
55°	6205.4	2835.1	158.2	120.0	99.9	86.5	75.2	68.4	63.9	61.7	61.7
57.5°	6243.5	2600.6	138.0	110.0	89.7	76.3	63.9	59.4	53.9	52.8	52.8
60°	5966.4	2177.6	122.3	97.6	80.8	66.2	56.0	50.5	44.9	43.7	42.6
62.5°	5236.0	1685.1	107.7	86.5	70.7	57.3	48.3	41.5	37.0	37.0	37.0
65°	3994.1	1129.7	94.3	75.2	61.7	48.3	41.5	33.7	31.4	31.4	32.6
67.5°	2390.8	614.8	80.8	63.9	52.8	40.4	34.8	29.2	28.1	29.2	29.2
69°	1401.2	361.2	72.8	57.3	46.0	35.9	30.3	25.7	28.1	29.2	29.2
70°	865.0	243.4	67.3	51.6	41.5	32.6	28.1	24.7	26.9	28.1	28.1
72.5°	241.3	125.6	53.9	40.4	33.7	26.9	22.4	22.4	25.7	26.9	26.9
75°	157.2	93.1	41.5	30.3	25.7	21.3	19.1	21.3	24.7	25.7	25.7
77.5°	130.1	76.3	33.7	24.7	21.3	20.2	17.9	19.1	22.4	23.6	23.6
80°	118.9	53.9	26.9	22.4	19.1	17.9	16.8	15.8	20.2	21.3	21.3
82.5°	113.3	42.6	23.6	20.2	17.9	15.8	14.5	15.8	17.9	19.1	20.2
85°	70.7	28.1	21.3	19.1	15.8	14.5	14.5	14.5	16.8	17.9	17.9
87.5°	25.7	22.4	19.1	15.8	13.4	13.4	13.4	13.4	14.5	16.8	16.8
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)