Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: EPHESUS

Report Number: P575061

Luminaire Tested: **EPH-VN-03-750-U-SL4**

Issue Date: 10/19/2021

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P575061
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	10/19/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	EPHESUS
Catalog Number:	EPH-VN-03-750-U-SL4
Description:	EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source:	(48) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26688.3 lumens
Efficiency:	N/A
Efficacy:	115.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	232.1
Input Voltage (V):	120
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:	24 FT

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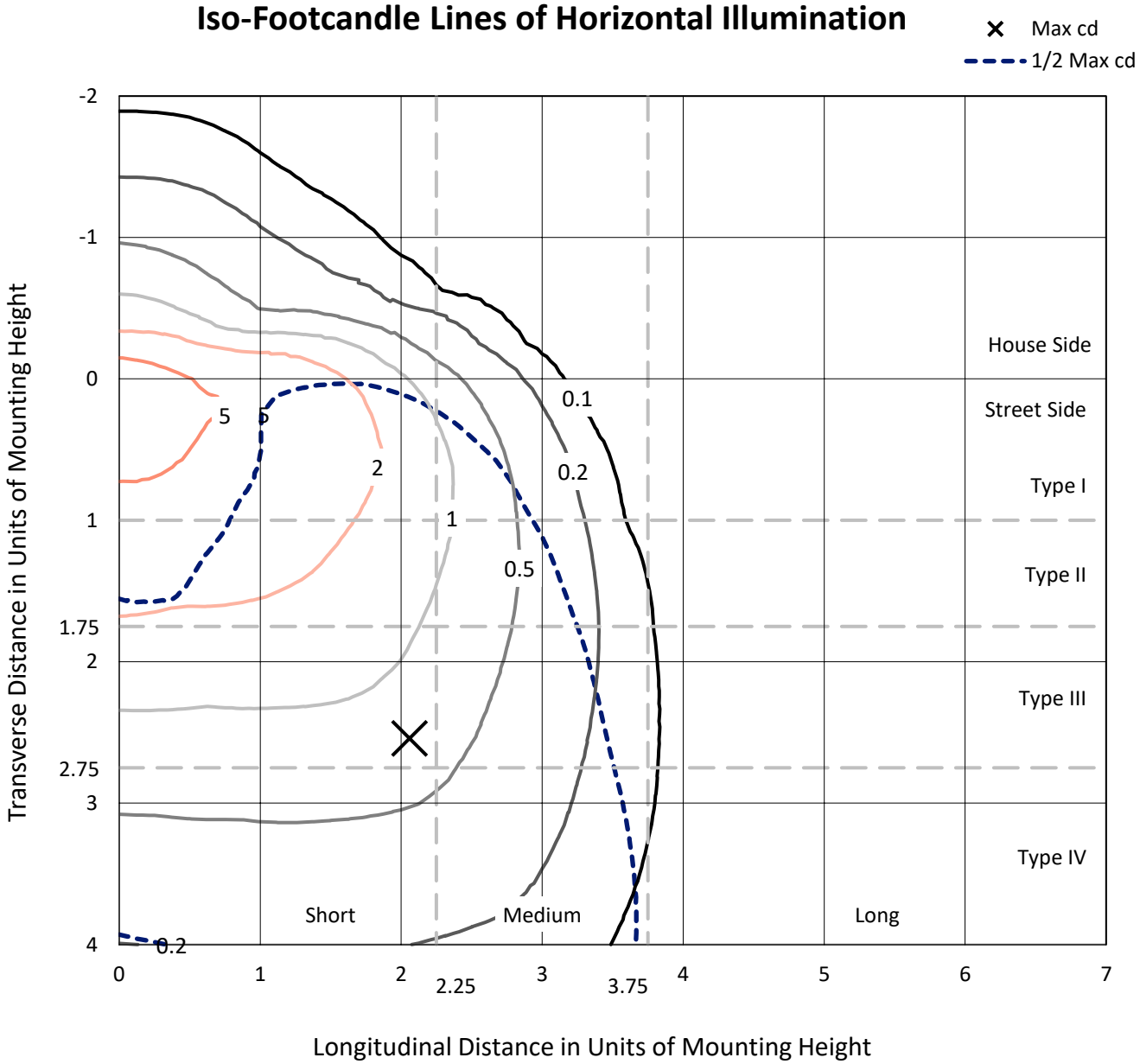
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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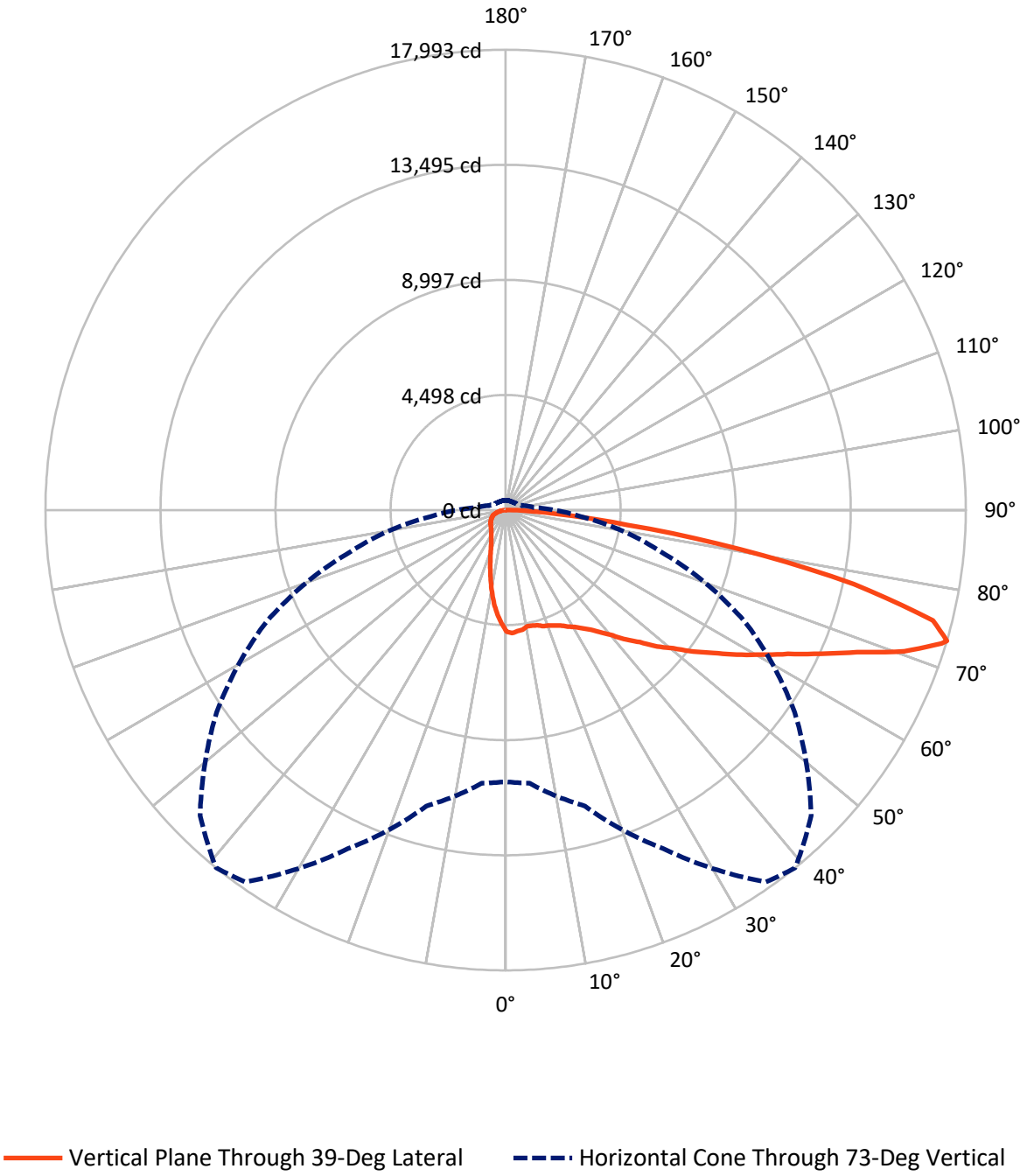
Luminous Intensity Polar Plot



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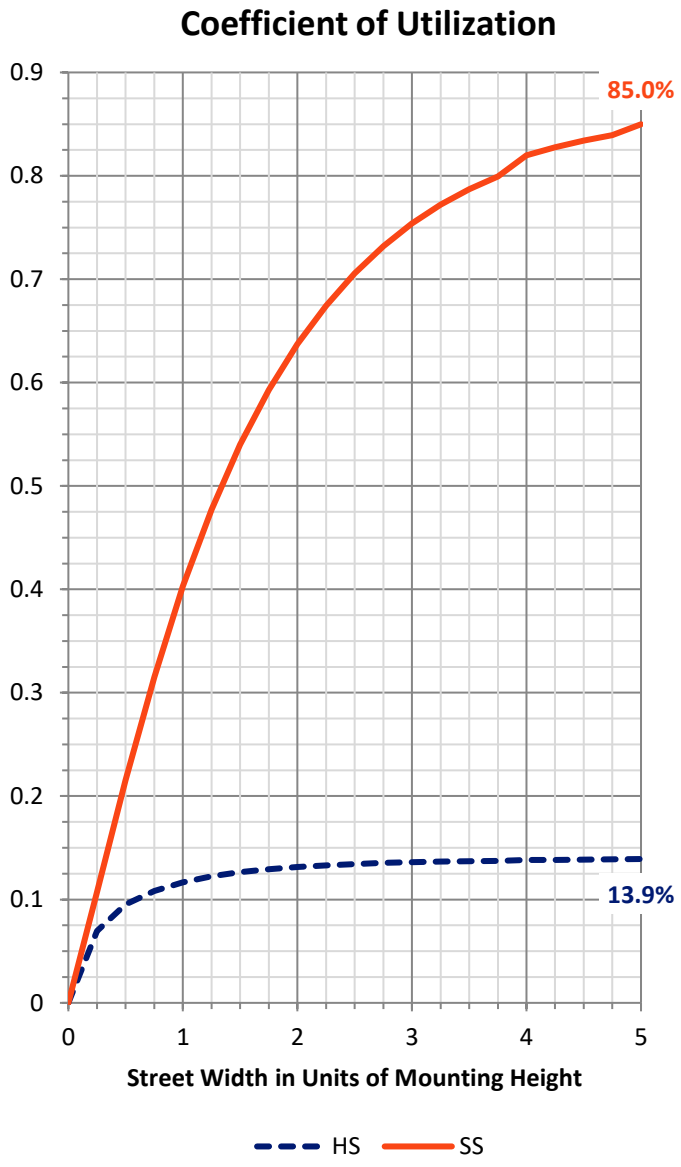
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3751.6	0.0	3751.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22936.6	0.0	22936.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	26688.3	0.0	26688.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.5
10°-20°	1048.4	3.9
20°-30°	1602.0	6.0
30°-40°	2335.8	8.8
40°-50°	3529.6	13.2
50°-60°	5111.1	19.2
60°-70°	6493.9	24.3
70°-80°	5264.3	19.7
80°-90°	890.7	3.3
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°	26688.3	100.0
0°-180°	26688.3	100.0



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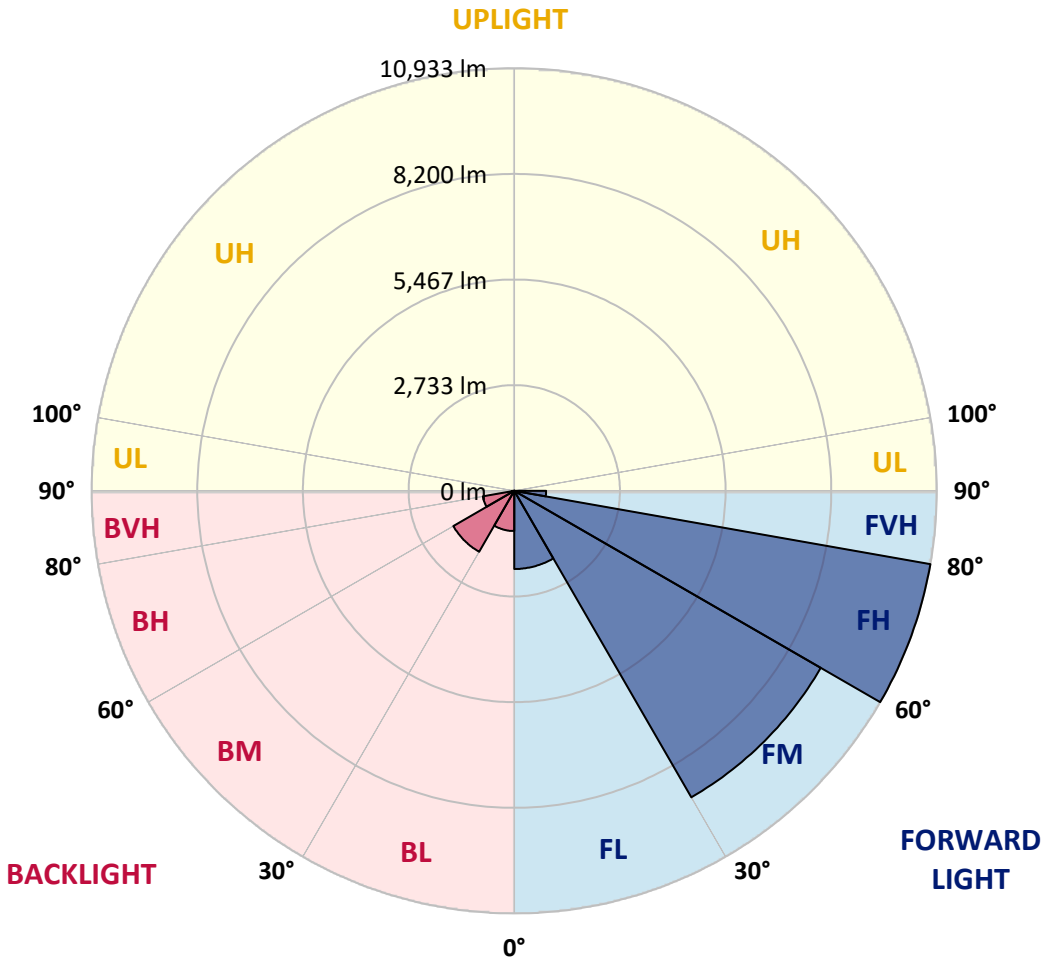
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2022.4	7.6			
FM	(30°-60°)	9155.8	34.3			
FH	(60°-80°)	10933.1	41.0			G4/12000
FVH	(80°-90°)	825.4	3.1			G5
BL	(0°-30°)	1040.4	3.9	B3/2500		
BM	(30°-60°)	1820.8	6.8	B2/2500		
BH	(60°-80°)	825.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	65.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7
2.5°	4864.1	4813.4	4822.3	4804.4	4822.3	4816.4	4807.4	4762.6	4807.4	4762.6
5°	4798.4	4798.4	4828.3	4783.5	4789.5	4759.6	4789.5	4756.6	4726.8	4652.1
7.5°	4777.5	4774.6	4777.5	4714.8	4744.7	4726.8	4696.9	4661.1	4601.4	4553.6
10°	4634.2	4664.1	4631.2	4649.1	4673.0	4619.3	4616.3	4607.3	4580.5	4517.8
12.5°	4556.6	4607.3	4625.3	4610.3	4631.2	4637.2	4619.3	4607.3	4574.5	4532.7
15°	4589.4	4529.7	4580.5	4679.0	4658.1	4673.0	4676.0	4664.1	4649.1	4571.5
17.5°	4598.4	4562.6	4670.1	4691.0	4717.8	4771.6	4735.7	4732.8	4676.0	4622.3
20°	4619.3	4604.4	4691.0	4801.4	4804.4	4813.4	4831.3	4786.5	4756.6	4664.1
22.5°	4696.9	4747.7	4828.3	4876.1	4903.0	4908.9	4908.9	4819.3	4786.5	4711.9
25°	4929.8	4876.1	4989.5	5046.3	5007.5	4998.5	4977.6	4897.0	4861.2	4795.5
27.5°	5100.0	5097.0	5162.7	5240.4	5135.9	5156.8	5082.1	5058.2	4977.6	4941.8
30°	5332.9	5398.6	5395.6	5419.5	5282.2	5306.1	5210.5	5165.7	5120.9	5141.8
32.5°	5631.5	5607.6	5646.5	5628.5	5491.2	5512.1	5398.6	5329.9	5344.9	5407.6
35°	5822.6	5798.7	5813.7	5813.7	5771.9	5748.0	5700.2	5610.6	5682.3	5798.7
37.5°	6028.7	6058.5	6145.1	6127.2	6073.5	6073.5	6067.5	6004.8	6097.3	6384.0
40°	6210.8	6291.4	6345.2	6381.0	6443.7	6443.7	6494.5	6458.6	6625.9	7085.7
42.5°	6401.9	6404.9	6697.5	6724.4	6864.7	6924.5	6963.3	6993.1	7306.7	7820.2
45°	6646.8	6661.7	6918.5	7124.5	7342.5	7363.4	7509.7	7608.2	7993.4	8623.5
47.5°	6969.2	6951.3	7226.0	7554.5	7826.2	7969.5	8145.7	8253.2	8728.0	9495.4
50°	7393.3	7339.5	7497.8	8014.3	8333.8	8492.1	8805.6	8984.8	9540.2	10328.5
52.5°	7909.8	7820.2	7945.7	8510.0	8868.3	9187.8	9486.4	9686.5	10265.8	10973.4
55°	8456.3	8271.1	8307.0	9035.5	9552.1	9853.7	10262.8	10471.8	11063.0	11552.7
57.5°	8996.7	8880.3	8808.6	9540.2	10367.3	10656.9	11033.1	11304.9	11806.5	12066.3
60°	9450.6	9420.7	9304.3	10322.5	11230.2	11478.1	11872.2	12039.4	12418.6	12541.1
62.5°	9823.8	9722.3	9907.4	10952.5	12108.1	12388.8	12821.7	12836.7	13105.4	12836.7
65°	10116.5	10122.4	10418.0	11713.9	13123.3	13538.4	13887.7	13848.9	13675.7	12660.5
67.5°	10382.2	10495.7	10928.6	12550.0	14428.2	14819.3	15207.5	14693.9	13831.0	11836.4
70°	10591.2	10704.7	11618.4	13568.2	15966.0	16539.3	16625.9	15028.4	13117.3	10026.9
72.5°	10567.3	10773.4	12009.6	14380.4	17330.5	17826.2	17127.5	14087.8	10928.6	6990.1
73°	10618.1	10719.6	11976.7	14607.3	17745.6	17993.4	16894.6	13792.2	10307.6	6270.5
75°	9638.7	9982.1	11382.5	14237.1	17300.7	17255.9	15556.9	11493.0	7327.6	3293.5
77.5°	7130.5	7348.5	8969.8	11708.0	14201.3	13914.6	11734.8	7345.5	3478.7	1221.3
80°	3484.6	3654.8	4753.7	6760.2	9286.4	9310.2	7282.8	3822.0	1490.0	689.8
82.5°	1740.8	1842.3	2284.3	2971.0	4568.5	4786.5	3693.6	2173.8	922.7	391.2
85°	1137.7	1209.3	1406.4	1454.2	1937.9	2045.4	1719.9	1696.0	600.2	212.0
87.5°	755.4	767.4	862.9	734.5	776.4	746.5	830.1	1069.0	176.2	89.6
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4750.7	0°	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7	4750.7
4750.7	2.5°	4735.7	4693.9	4649.1	4586.4	4541.7	4473.0	4410.3	4383.4	4377.4	4380.4
4631.2	5°	4613.3	4553.6	4464.0	4335.6	4261.0	4147.5	4052.0	4001.2	3947.4	3956.4
4484.9	7.5°	4443.1	4377.4	4240.1	4090.8	3905.6	3744.4	3654.8	3529.4	3457.7	3404.0
4476.0	10°	4389.4	4275.9	4069.9	3863.8	3577.2	3365.2	3159.2	3015.8	2917.3	2821.7
4413.3	12.5°	4362.5	4249.0	3962.4	3657.8	3287.5	2965.1	2675.4	2499.3	2358.9	2275.3
4493.9	15°	4338.6	4198.3	3860.9	3430.9	3015.8	2591.8	2266.3	2033.4	1899.1	1818.5
4508.8	17.5°	4371.5	4171.4	3711.6	3209.9	2717.2	2263.4	1902.1	1660.2	1522.8	1472.1
4490.9	20°	4338.6	4141.5	3565.2	2989.0	2418.6	1949.8	1603.5	1403.4	1307.9	1266.0
4574.5	22.5°	4350.6	4069.9	3413.0	2744.1	2140.9	1687.1	1403.4	1251.1	1176.5	1155.6
4613.3	25°	4407.3	4028.1	3260.7	2475.4	1866.2	1493.0	1275.0	1158.6	1104.8	1083.9
4682.0	27.5°	4449.1	4063.9	3123.3	2221.6	1633.3	1319.8	1167.5	1089.9	1054.0	1039.1
4885.0	30°	4553.6	4084.8	2989.0	1994.6	1442.2	1206.3	1092.9	1030.2	1006.3	997.3
5162.7	32.5°	4708.9	4123.6	2833.7	1785.6	1301.9	1098.8	1033.1	979.4	973.4	964.5
5473.3	35°	4962.7	4258.0	2660.5	1606.4	1167.5	1027.2	970.4	934.6	934.6	934.6
5968.9	37.5°	5327.0	4446.1	2505.2	1436.2	1080.9	964.5	916.7	904.7	898.8	907.7
6575.1	40°	5795.8	4673.0	2379.8	1301.9	1006.3	922.7	880.9	874.9	871.9	868.9
7223.1	42.5°	6309.3	4962.7	2272.3	1197.4	952.5	877.9	848.0	842.0	830.1	836.1
7927.7	45°	6819.9	5321.0	2176.8	1113.8	916.7	854.0	812.2	809.2	803.2	800.2
8698.1	47.5°	7387.3	5673.3	2146.9	1063.0	889.8	818.2	788.3	785.3	767.4	764.4
9226.6	50°	7829.2	5933.1	2179.8	1039.1	851.0	791.3	770.4	755.4	740.5	725.6
9617.8	52.5°	8133.8	6112.3	2203.6	1021.2	830.1	755.4	728.6	722.6	707.7	692.7
10009.0	55°	8408.5	6219.8	2209.6	1024.2	809.2	713.6	695.7	692.7	683.8	659.9
10340.4	57.5°	8501.0	6175.0	2090.2	997.3	797.3	686.8	662.9	668.9	656.9	636.0
10346.4	60°	8492.1	5864.4	1818.5	961.5	770.4	656.9	627.1	645.0	645.0	621.1
10041.8	62.5°	7975.5	5147.8	1487.0	892.8	740.5	627.1	594.2	621.1	630.0	615.1
9322.2	65°	6903.6	4192.3	1242.2	824.1	695.7	594.2	561.4	591.2	606.2	600.2
7915.8	67.5°	5712.2	3206.9	1033.1	734.5	639.0	549.4	522.5	543.4	552.4	555.4
5971.9	70°	4037.0	2135.0	862.9	636.0	561.4	501.6	471.8	474.8	471.8	480.7
3484.6	72.5°	2194.7	1230.2	701.7	540.5	483.7	436.0	415.0	400.1	400.1	397.1
2947.1	73°	*1878.2*	*1104.8*	*668.9*	*525.5*	*462.8*	*424.0*	*400.1*	*388.2*	*388.2*	*385.2*
1427.3	75°	1054.0	809.2	573.3	450.9	400.1	370.3	352.3	334.4	331.4	331.4
770.4	77.5°	692.7	630.0	456.9	361.3	322.5	295.6	289.6	271.7	271.7	271.7
525.5	80°	519.6	495.7	352.3	274.7	247.8	226.9	221.0	209.0	206.0	194.1
298.6	82.5°	346.4	391.2	256.8	194.1	167.2	155.3	155.3	152.3	143.3	128.4
241.9	85°	274.7	319.5	185.1	119.4	98.5	83.6	86.6	83.6	80.6	65.7
65.7	87.5°	50.8	128.4	53.7	32.8	23.9	14.9	14.9	9.0	6.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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180°
4750.7
4350.6
3932.5
3433.9
2863.5
2308.2
1827.4
1460.1
1257.1
1161.5
1089.9
1036.1
994.3
967.5
943.6
913.7
874.9
845.0
815.2
776.4
725.6
686.8
653.9
633.0
618.1
612.1
597.2
558.4
480.7
397.1
382.2
331.4
268.7
197.1
128.4
62.7
0.0
0.0

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