

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: STREETWORKS

Report Number: P507760

Luminaire Tested: **UFLD-CA2-140-727-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-CA2-140-727-U-33
Description: UTILITY FLOOD, 3X3 OPTIC
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14370 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.25' x L: 0.67' x H: 0')

NEMA Type: 4H x 4V
Max Intensity: 71660.4 candela
Max Intensity Angle: 0°H x -1°V

Beam Angle (50%): 22°H x 21.9°V
Beam Lumens: 6126.6 lumens
Beam Efficiency: 42.6%

Field Angle (10%): 47.1°H x 46.9°V
Field Lumens: 12430.9 lumens
Field Efficiency: 86.5%

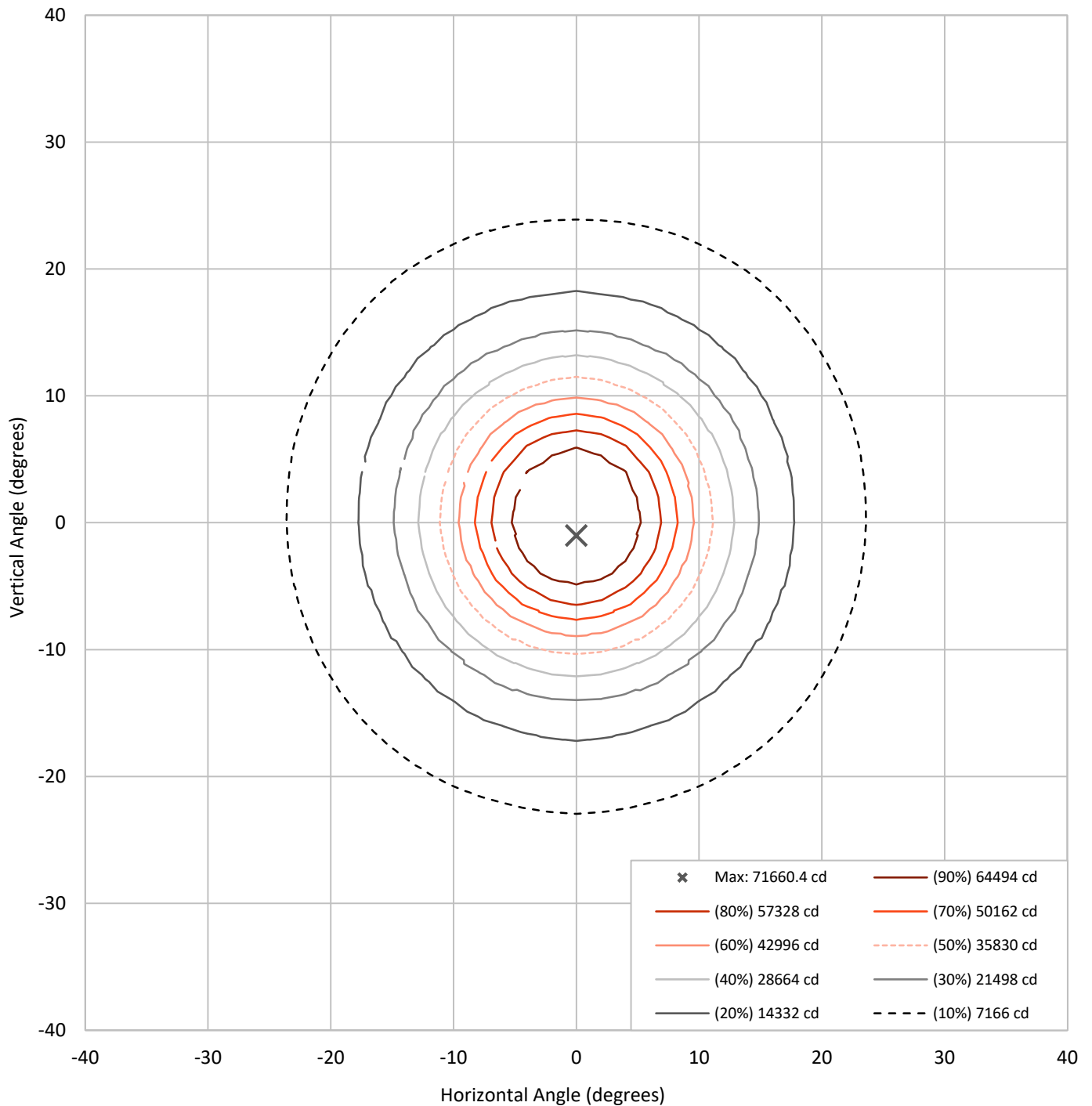
Input Watts (W): 136.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot





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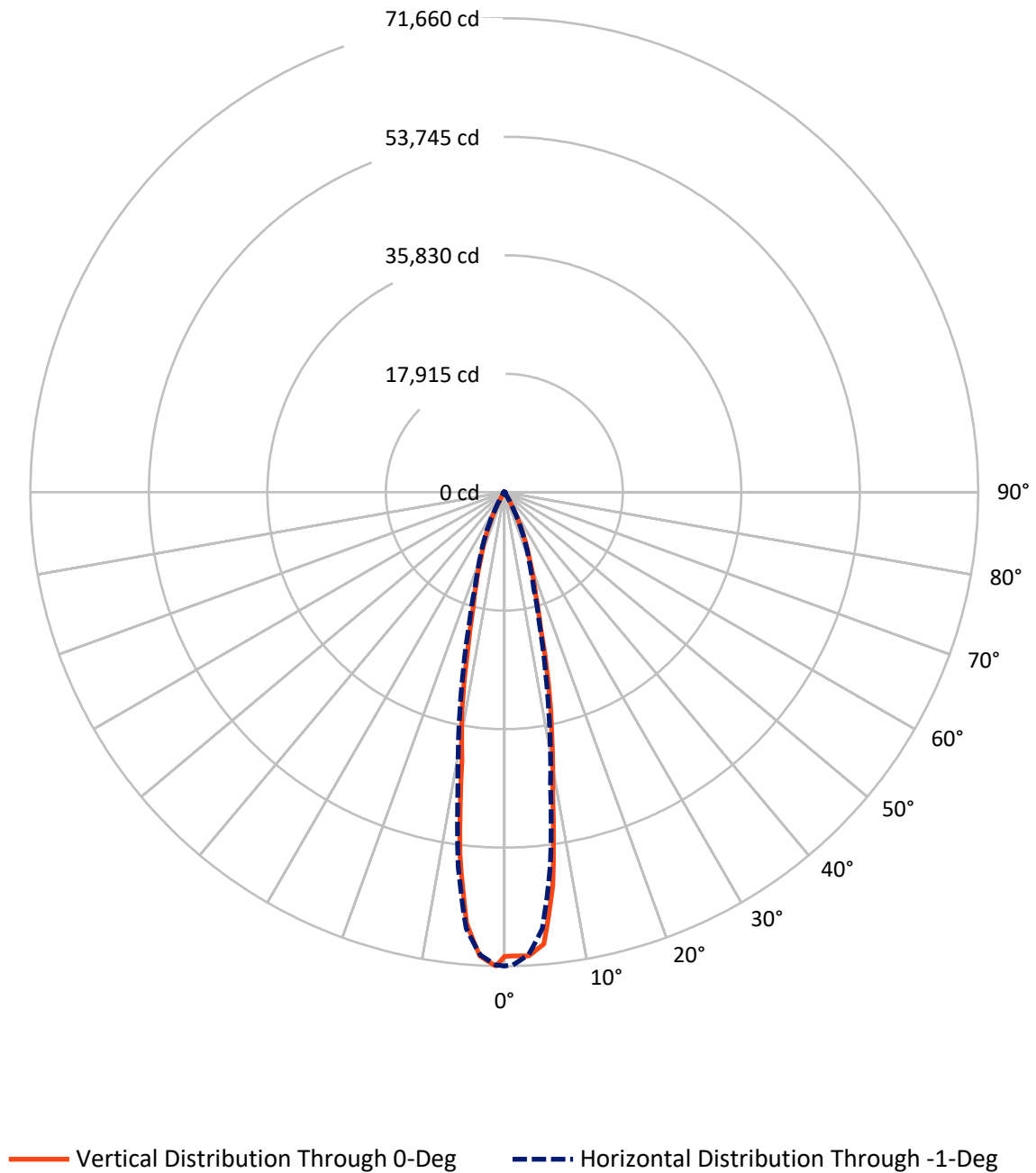
Lumen Table

90	2.6	6.5		7.3		5.3		2.5		5.3		7.3		6.5		2.6			
80	2.6	6.5		7.3		5.3		2.5		5.3		7.3		6.5		2.6			
70	2.3	0.9	0.7	0.6	0.8	1.2	1.2	0.5	0.5	1.2	1.2	0.8	0.6	0.7	0.9	2.3			
60		0.5	0.2	0.3	0.9	1.3	1.2	0.7	0.7	1.2	1.3	0.9	0.3	0.2	0.5				
50	1.7	0.2	0.0	0.3	1.0	1.9	2.3	2.4	2.4	2.3	1.9	1.0	0.3	0.0	0.2	1.7			
40		0.1	0.0	0.2	1.6	3.0	6.7	13.0	13.0	6.7	3.0	1.6	0.2	0.0	0.1				
30	1.4	0.1	0.0	0.4	2.1	15.7	89.5	173.2	173.2	89.5	15.7	2.1	0.4	0.0	0.1	1.4			
20		0.1	0.0	0.7	5.2	83.8	306.5	619.9	619.9	306.5	83.8	5.2	0.7	0.0	0.1				
10	1.3	0.1	0.1	1.1	11.3	153.8	587.5	1607.5	1607.5	587.5	153.8	11.3	1.1	0.1	0.1	1.3			
0		0.1	0.1	1.1	10.7	148.8	563.5	1532.3	1532.3	563.5	148.8	10.7	1.1	0.1	0.1				
-10	1.4	0.1	0.0	0.8	4.7	73.3	277.0	543.8	543.8	277.0	73.3	4.7	0.8	0.0	0.1	1.4			
-20		0.1	0.0	0.4	2.0	11.8	70.8	145.0	145.0	70.8	11.8	2.0	0.4	0.0	0.1				
-30	1.8	0.1	0.0	0.2	1.4	2.8	5.0	9.7	9.7	5.0	2.8	1.4	0.2	0.0	0.1	1.8			
-40		0.3	0.1	0.3	1.0	1.7	2.1	2.2	2.2	2.1	1.7	1.0	0.3	0.1	0.3				
-50	2.4	0.5	0.3	0.4	0.9	1.3	1.1	0.7	0.7	1.1	1.3	0.9	0.4	0.3	0.5	2.4			
-60		1.0	0.7	0.7	0.8	1.2	1.2	0.5	0.5	1.2	1.2	0.8	0.7	0.7	1.0				
-70	2.6	6.6		7.5		5.3		2.5		5.3		7.5		6.6		2.6			
-80		6.6		7.5		5.3		2.5		5.3		7.5		6.6					
-90	2.6	6.6		7.5		5.3		2.5		5.3		7.5		6.6		2.6			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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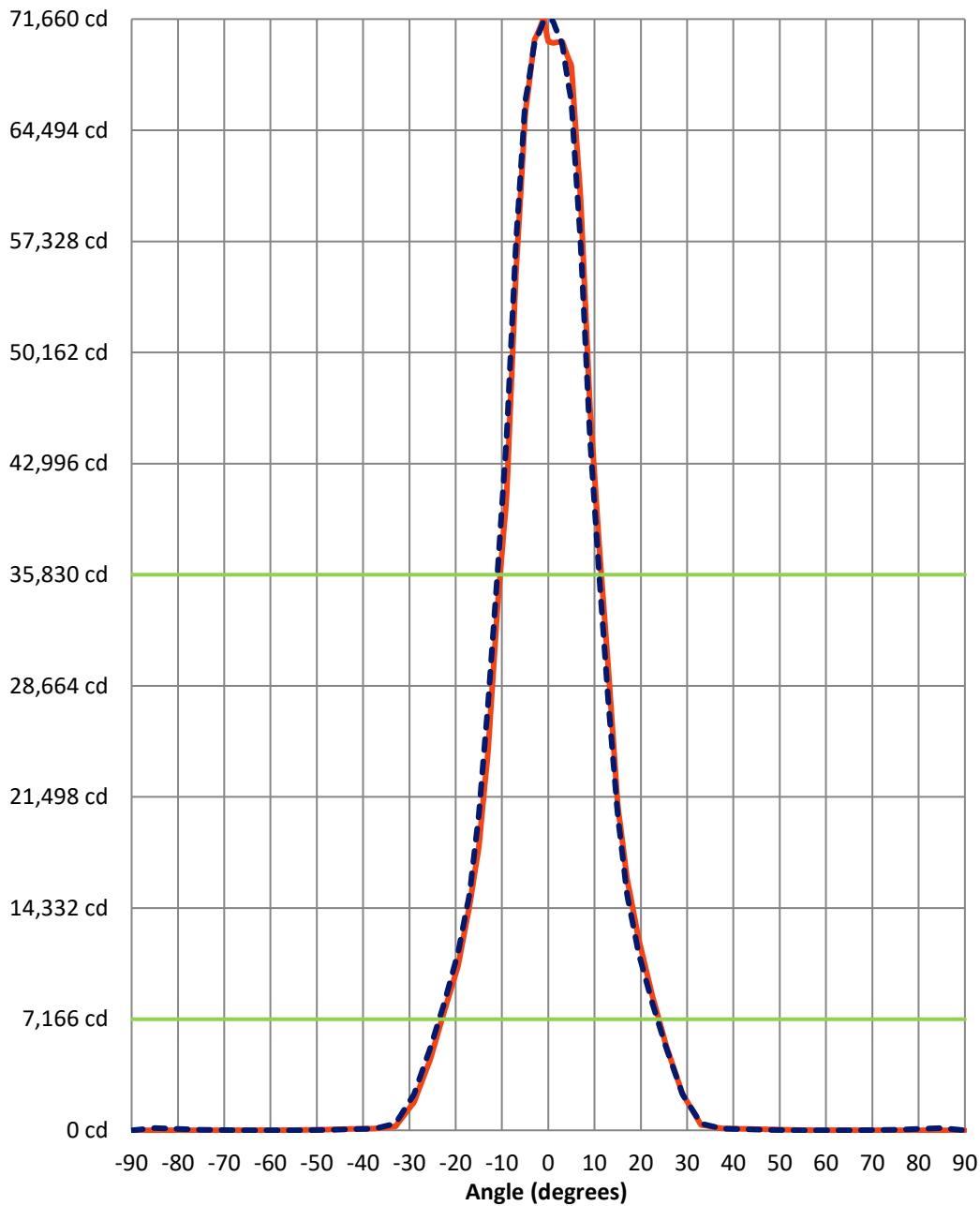
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 21.9°
 Lumens: 6126.6
 Efficiency: 42.6%

Field:
 H Angle: 47.1°
 V Angle: 46.9°
 Lumens: 12430.9
 Efficiency: 86.5%

Spill:
 Lumens: 1939.1
 Efficiency: 13.5%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through -1-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	8.5	34.7	45.8	31.4	27.1	32.2	37.3	46.6	55.1	71.2
75°	3.4	4.2	10.2	19.5	28.0	37.3	46.6	49.1	46.6	40.7	33.0
65°	9.3	9.3	11.0	14.4	19.5	25.4	30.5	35.6	41.5	47.5	50.8
55°	12.7	13.6	14.4	16.9	19.5	23.7	27.1	30.5	33.9	38.1	43.2
47.5°	59.3	60.2	60.2	59.3	60.2	61.0	64.4	62.7	61.0	61.0	57.6
42.5°	95.7	96.6	95.7	96.6	97.4	98.3	99.1	98.3	97.4	97.4	94.9
37.5°	122.9	123.7	123.7	123.7	123.7	121.2	120.3	118.6	116.9	115.2	113.5
33°	357.6	394.9	349.1	331.3	296.6	256.7	238.9	223.7	186.4	155.9	131.3
29°	2350.5	2406.4	2303.1	2159.9	1983.6	1728.6	1415.9	1147.3	789.7	472.0	287.2
25.5°	5438.2	5482.3	5426.4	5198.4	4740.0	4342.6	3666.4	3062.3	2431.9	1793.8	1093.1
22.5°	8659.0	8592.9	8432.7	8173.4	7700.6	7100.7	6276.2	5393.3	4488.4	3513.9	2376.8
19.5°	12377.1	12194.1	11821.2	11308.6	10724.8	9832.5	8894.5	7924.3	6832.1	5600.1	4046.0
17°	16290.1	16060.5	15701.2	14965.7	14020.1	12594.9	11320.5	9937.6	8613.2	7246.4	5537.4
15°	21034.4	21376.7	20393.8	18859.2	17218.8	15385.1	13607.4	11725.5	10074.0	8551.4	6696.5
13°	29664.5	29431.5	27586.8	25305.8	22338.4	19022.8	16309.6	13828.6	11684.8	9797.8	7705.7
11°	37726.9	37837.1	35796.7	32871.7	28956.1	24359.3	19972.6	16118.1	13396.4	11154.4	8673.4
9°	46762.1	46200.3	44193.8	40400.3	35636.6	29800.9	24196.6	18915.2	15092.8	12389.0	9561.4
7°	59990.8	60387.3	56485.4	49780.4	42071.3	35574.7	28826.5	22050.3	16793.4	13504.1	10287.5
5°	68591.3	67699.0	65601.9	59268.0	48922.0	39706.3	32473.4	24773.7	18566.1	14442.1	10891.7
3°	70213.1	70238.5	69225.9	64553.7	55208.4	43268.5	34960.4	26804.7	19938.7	15152.1	11290.0
1°	70123.3	70014.0	70077.5	66487.3	57643.7	45279.3	36136.5	27840.2	20573.4	15403.8	11505.2
0°	70234.3	70291.9	70305.5	66578.0	57805.5	45310.6	36155.1	27932.5	20559.8	15375.0	11500.9
-1°	71660.4	71518.0	70038.5	66217.0	57078.5	44714.1	35811.1	27542.8	20361.6	15265.7	11439.9
-3°	70254.6	70422.4	68238.0	62868.4	52806.2	42085.7	34029.2	26120.1	19230.4	14767.4	11106.9
-5°	65403.6	64714.7	62141.3	55938.8	45794.5	37949.8	30844.0	23500.1	17584.0	13959.9	10616.3
-7°	55077.9	54251.8	50810.7	44515.0	38843.7	33014.0	26632.7	20485.3	15834.2	12899.9	9938.4
-9°	40933.3	41557.8	39197.9	37085.5	32495.5	27284.3	21893.6	17157.8	14198.0	11717.0	9114.0
-11°	33575.0	33674.1	31882.8	29086.6	25382.1	21316.5	17750.9	14830.1	12447.4	10343.5	8166.7
-13°	24505.1	24991.4	23505.2	21652.1	19385.4	16793.4	14693.7	12624.5	10811.2	9114.0	7138.8
-15°	18284.7	18370.3	17512.8	16533.3	15330.9	13862.5	12238.1	10653.6	9234.3	7841.3	5991.5
-17°	14494.6	14222.6	13935.3	13201.6	12372.9	11232.3	10057.1	8942.0	7737.9	6466.0	4790.0
-19.5°	10590.1	10605.3	10538.4	9902.9	9420.7	8758.9	7888.7	6929.5	5837.3	4706.1	3339.4
-22.5°	7636.2	7526.1	7386.3	6947.3	6568.6	5927.1	5236.6	4444.3	3623.2	2795.4	1830.3
-25.5°	4569.7	4557.0	4443.4	4173.1	3881.7	3390.2	2842.0	2303.9	1786.2	1244.7	719.4
-29°	1820.1	1818.4	1728.6	1557.4	1410.8	1199.8	932.9	645.7	455.9	272.8	203.4
-33°	254.2	254.2	244.9	238.1	216.9	200.0	188.1	161.8	146.6	135.6	120.3
-37.5°	115.2	116.1	115.2	116.1	114.4	114.4	113.5	112.7	111.8	111.0	108.5
-42.5°	91.5	91.5	90.7	90.7	91.5	91.5	91.5	91.5	89.8	89.0	83.9
-47.5°	47.5	48.3	48.3	48.3	51.7	56.8	52.5	51.7	54.2	50.0	47.5
-55°	13.6	13.6	14.4	16.9	19.5	23.7	27.1	30.5	33.9	37.3	42.4
-65°	8.5	9.3	10.2	14.4	19.5	25.4	29.7	35.6	41.5	47.5	50.8
-75°	3.4	4.2	10.2	19.5	27.1	37.3	46.6	49.1	46.6	40.7	33.9
-85°	0.8	8.5	34.7	45.8	31.4	28.0	32.2	37.3	46.6	55.9	71.2
-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):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	89.8	105.1	121.2	136.4	149.1	160.1	164.4	161.8	149.1	145.7	153.4
75°	28.8	28.8	31.4	34.7	41.5	50.8	67.8	94.1	120.3	140.7	151.7
65°	50.0	44.1	35.6	28.8	25.4	24.6	23.7	34.7	69.5	122.0	150.0
55°	49.1	50.8	48.3	40.7	28.8	17.8	10.2	7.6	28.0	94.9	149.1
47.5°	54.2	53.4	50.0	44.1	33.0	18.6	5.9	0.0	13.6	78.8	148.3
42.5°	88.1	78.0	66.9	50.0	33.0	17.8	4.2	0.0	5.9	69.5	148.3
37.5°	110.2	104.2	91.5	68.6	39.0	16.1	1.7	0.0	0.8	61.9	147.4
33°	117.8	110.2	100.8	87.3	46.6	15.3	1.7	0.0	1.7	55.9	147.4
29°	166.1	120.3	101.7	88.1	57.6	22.0	0.0	0.0	1.7	50.8	147.4
25.5°	478.7	211.0	119.5	88.1	63.6	28.0	0.0	0.0	1.7	46.6	147.4
22.5°	1243.0	509.3	166.9	93.2	66.9	33.9	0.8	0.0	1.7	44.1	146.6
19.5°	2359.8	1093.9	323.7	111.0	72.0	40.7	4.2	0.0	1.7	41.5	146.6
17°	3498.7	1818.4	574.5	135.6	77.1	47.5	6.8	0.0	0.8	39.8	146.6
15°	4416.3	2410.7	826.2	161.0	81.3	52.5	9.3	0.0	0.8	38.1	146.6
13°	5284.0	3085.2	1132.0	199.1	85.6	56.8	12.7	0.0	0.8	37.3	146.6
11°	6112.7	3664.7	1430.3	244.0	89.8	61.0	16.1	0.0	0.8	36.4	146.6
9°	6827.9	4212.1	1722.6	297.4	94.9	65.2	19.5	0.0	0.8	35.6	146.6
7°	7413.4	4678.2	1986.2	350.8	100.0	67.8	22.9	0.0	0.0	34.7	145.7
5°	7855.7	5031.5	2157.3	398.2	103.4	70.3	25.4	0.0	0.0	34.7	145.7
3°	8091.2	5246.7	2294.6	431.3	105.9	71.2	27.1	0.0	0.0	33.9	145.7
1°	8228.5	5356.0	2344.6	443.2	106.8	72.0	28.0	0.0	0.0	33.9	145.7
0°	8224.3	5336.5	2348.0	444.9	106.8	72.9	28.8	0.0	0.0	34.7	145.7
-1°	8180.2	5301.0	2326.8	436.4	106.8	72.0	28.0	0.0	0.0	34.7	145.7
-3°	7959.9	5146.7	2221.7	406.7	105.1	71.2	27.1	0.0	0.0	34.7	145.7
-5°	7598.9	4826.4	2055.6	367.7	102.5	71.2	26.3	0.0	0.0	35.6	145.7
-7°	7052.4	4440.1	1835.3	312.7	99.1	69.5	24.6	0.0	0.0	35.6	145.7
-9°	6440.6	3944.4	1550.6	262.7	95.7	67.8	22.0	0.0	0.8	36.4	146.6
-11°	5635.7	3324.1	1249.0	214.4	92.4	65.2	20.3	0.0	0.8	37.3	146.6
-13°	4760.4	2672.5	937.2	178.8	89.8	61.9	16.9	0.0	0.8	39.0	146.6
-15°	3836.8	2037.0	652.5	151.7	85.6	57.6	13.6	0.0	1.7	39.8	146.6
-17°	2927.6	1449.8	420.3	128.8	81.3	53.4	10.2	0.0	1.7	40.7	146.6
-19.5°	1866.7	844.0	232.2	105.1	75.4	45.8	5.1	0.0	2.5	43.2	146.6
-22.5°	876.1	347.4	142.4	90.7	67.8	35.6	0.8	0.0	2.5	45.8	147.4
-25.5°	326.2	165.2	110.2	87.3	61.9	26.3	0.0	0.0	3.4	49.1	147.4
-29°	140.7	112.7	97.4	84.7	52.5	17.8	0.0	0.0	4.2	53.4	147.4
-33°	112.7	105.1	95.7	78.8	39.8	11.9	1.7	0.0	5.1	58.5	148.3
-37.5°	104.2	96.6	83.9	59.3	32.2	14.4	3.4	0.0	5.9	65.2	148.3
-42.5°	76.3	71.2	56.8	44.9	32.2	18.6	5.9	0.0	11.0	73.7	149.1
-47.5°	46.6	48.3	47.5	43.2	33.0	20.3	9.3	0.0	18.6	83.0	150.0
-55°	48.3	50.0	48.3	40.7	31.4	21.2	16.1	9.3	32.2	100.0	150.8
-65°	50.0	44.9	37.3	30.5	28.0	28.0	27.1	34.7	72.9	126.3	152.5
-75°	29.7	29.7	33.0	37.3	44.1	53.4	69.5	94.1	123.7	145.7	153.4
-85°	90.7	105.9	122.0	136.4	150.0	160.1	164.4	161.8	152.5	151.7	155.1
-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°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)