

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: P507798

Luminaire Tested: **UFLD-L-CA4-240-740-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-240-740-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	30795 lumens	Max Intensity:	151883 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 1.33' x H: 0')		
Beam Angle (50%):	22.2°H x 22.1°V	Field Angle (10%):	47.3°H x 46.7°V
Beam Lumens:	13295.6 lumens	Field Lumens:	26762.1 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

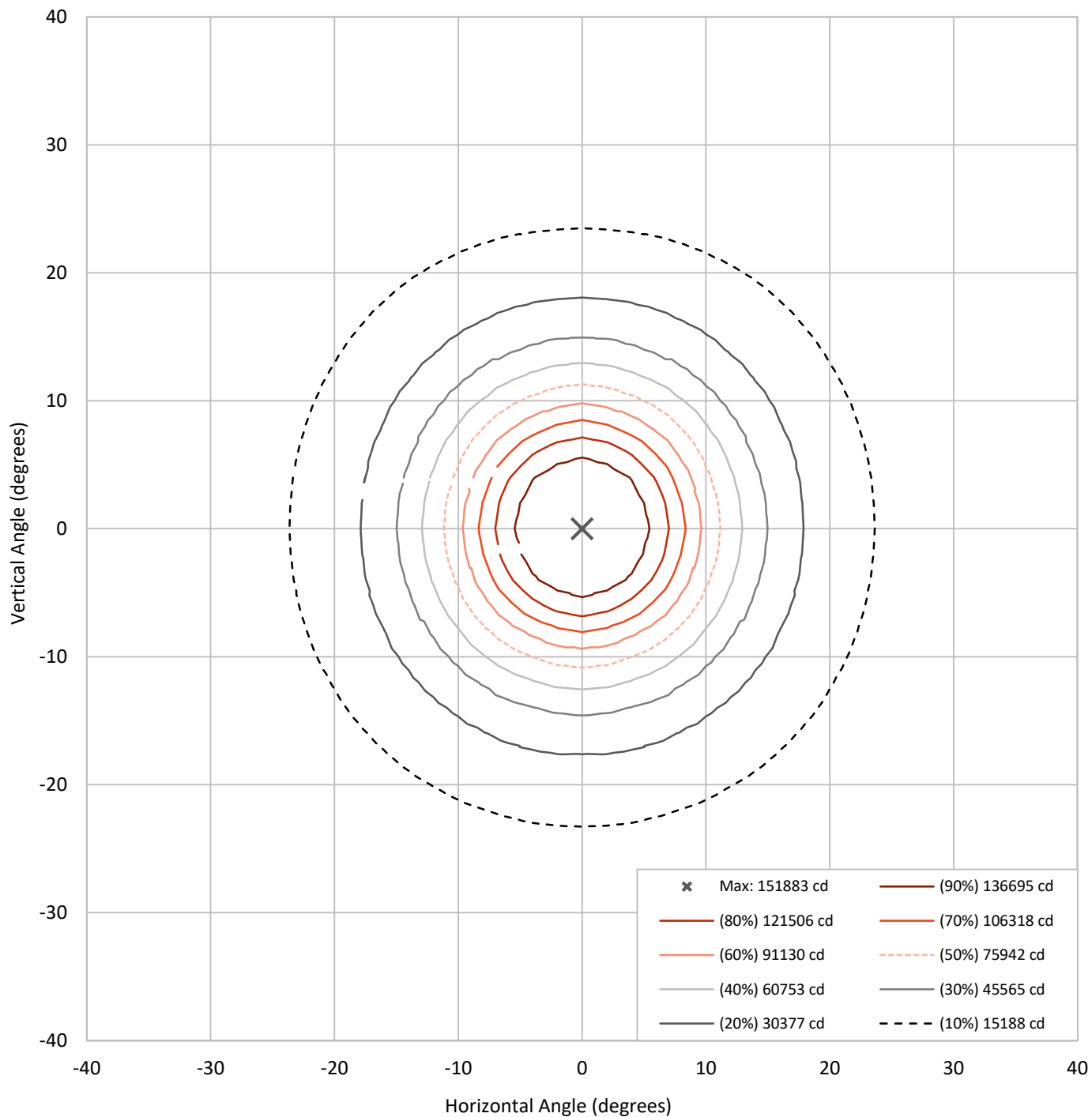
Input Watts (W): 242
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot



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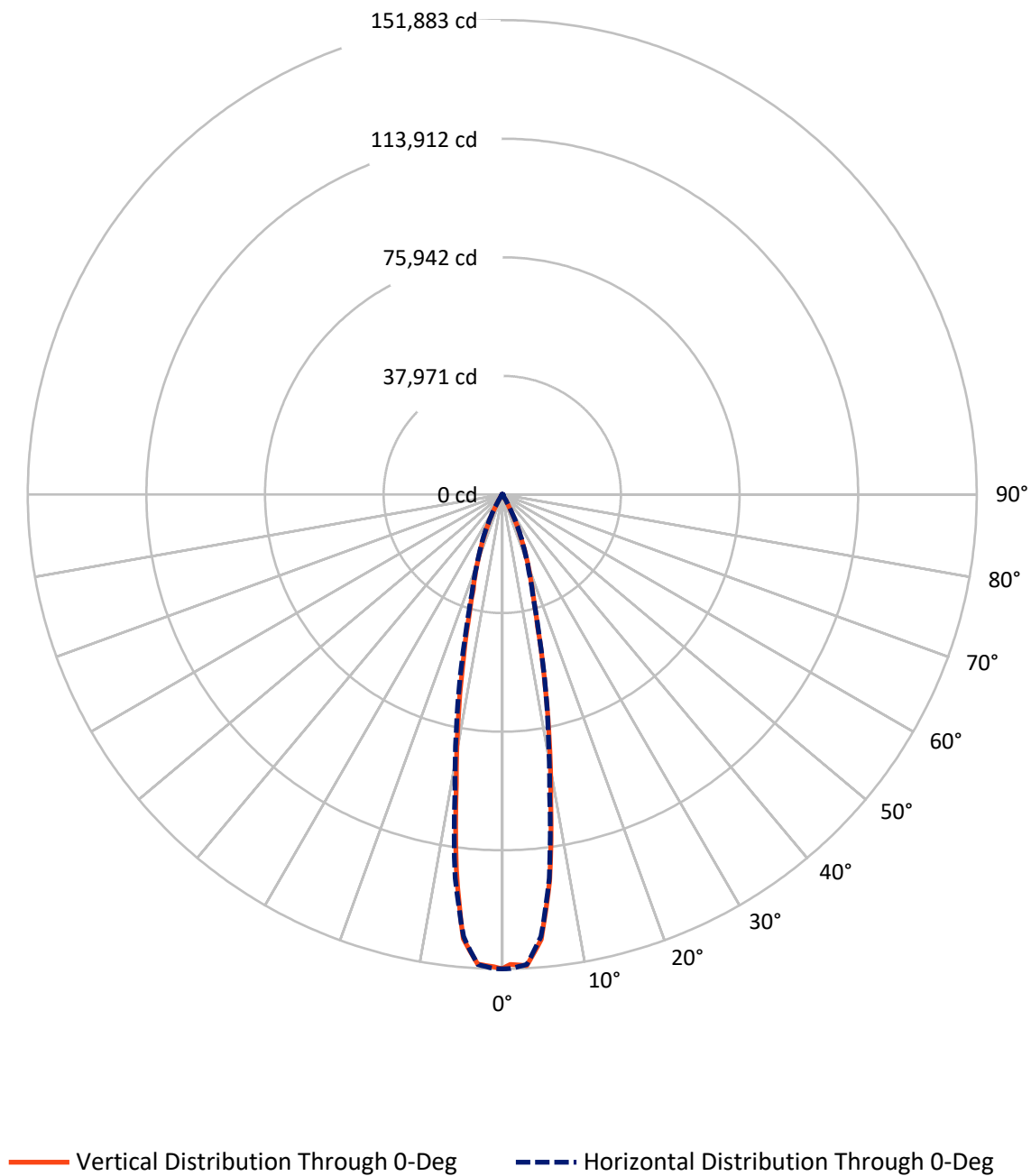
Lumen Table

Vertical Angle (degrees)																
	-80		-60		-40		-20		0	20		40		60		80
90	5.0		12.7		14.4		10.6		5.4	10.6		14.4		12.7		5.0
80	5.0		12.7		14.4		10.6		5.4	10.6		14.4		12.7		5.0
70	4.4	1.8	1.4	1.2	1.6	2.6	2.6	1.1	1.1	2.6	2.6	1.6	1.2	1.4	1.8	4.4
60		0.8	0.4	0.7	1.9	3.0	2.6	1.7	1.7	2.6	3.0	1.9	0.7	0.4	0.8	
50	3.2	0.4	0.1	0.6	2.3	4.0	5.0	5.2	5.2	5.0	4.0	2.3	0.6	0.1	0.4	3.2
40		0.2	0.0	0.6	3.5	6.8	13.4	22.8	22.8	13.4	6.8	3.5	0.6	0.0	0.2	
30	2.6	0.1	0.0	0.9	4.7	31.4	176.3	339.8	339.8	176.3	31.4	4.7	0.9	0.0	0.1	2.6
20		0.1	0.1	1.6	10.8	171.2	641.0	1288.1	1288.1	641.0	171.2	10.8	1.6	0.1	0.1	
10	2.4	0.1	0.2	2.2	23.1	324.2	1246.9	3390.8	3390.8	1246.9	324.2	23.1	2.2	0.2	0.1	2.4
0		0.1	0.2	2.3	22.7	320.5	1227.7	3333.4	3333.4	1227.7	320.5	22.7	2.3	0.2	0.1	
-10	2.6	0.1	0.1	1.7	10.4	162.1	616.2	1228.2	1228.2	616.2	162.1	10.4	1.7	0.1	0.1	2.6
-20		0.2	0.0	0.8	4.5	28.1	162.5	330.5	330.5	162.5	28.1	4.5	0.8	0.0	0.2	
-30	3.3	0.2	0.0	0.5	3.1	6.5	12.7	25.1	25.1	12.7	6.5	3.1	0.5	0.0	0.2	3.3
-40		0.4	0.1	0.7	2.2	3.8	4.8	5.1	5.1	4.8	3.8	2.2	0.7	0.1	0.4	
-50	4.6	0.9	0.5	0.9	1.9	2.9	2.5	1.6	1.6	2.5	2.9	1.9	0.9	0.5	0.9	4.6
-60		1.8	1.4	1.3	1.7	2.6	2.6	1.2	1.2	2.6	2.6	1.7	1.3	1.4	1.8	
-70	5.1	12.8	14.6		10.8		5.4	10.8		14.6		12.8		5.1	5.1	
-80		12.8	14.6		10.8		5.4	10.8		14.6		12.8		5.1		
-90																
Horizontal Angle (degrees)																

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Luminous Intensity Polar Plot

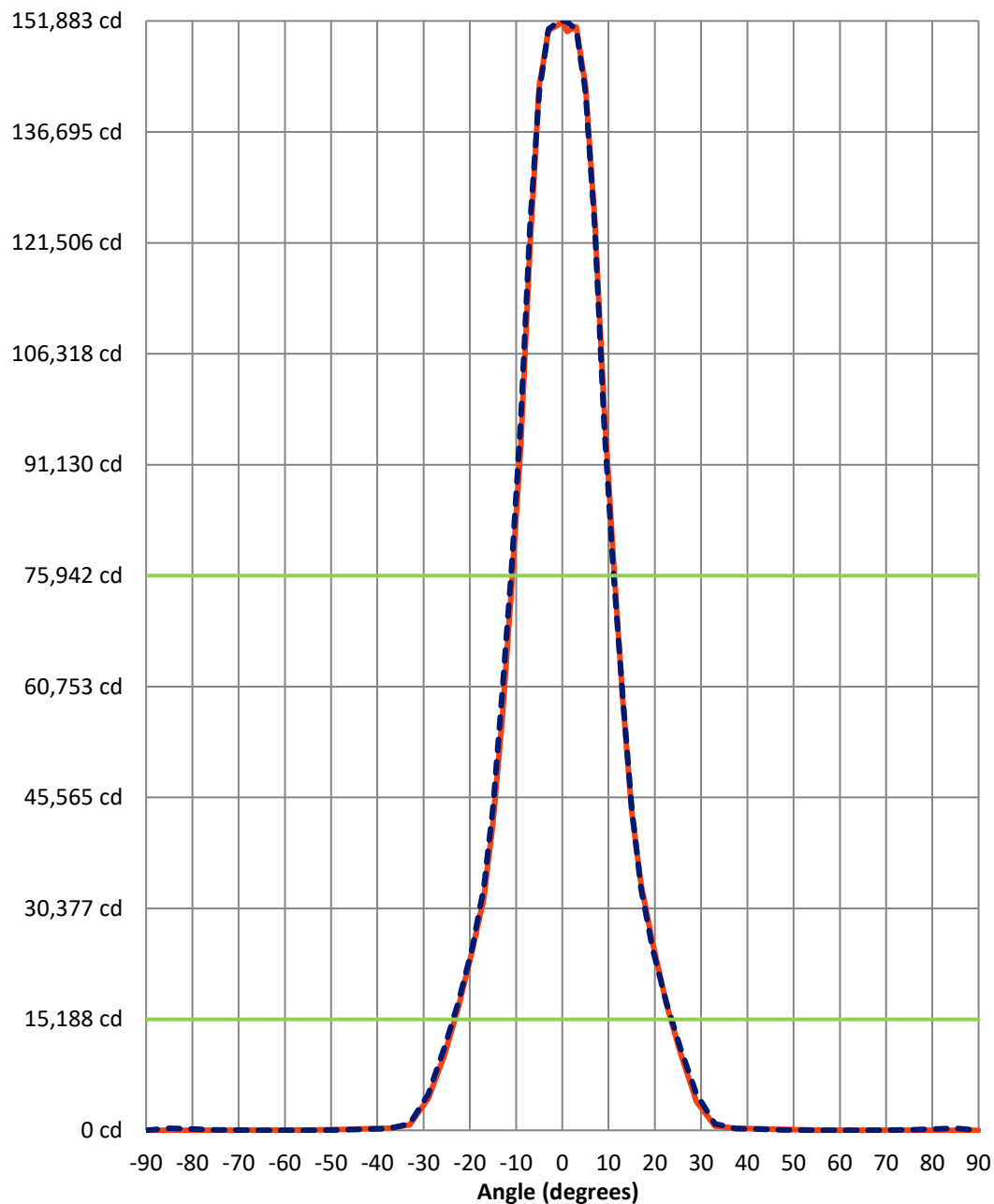




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Luminous Intensity Plot



Beam:
H Angle: 22.2°
V Angle: 22.1°
Lumens: 13295.6
Efficiency: 43.2%

Field:
H Angle: 47.3°
V Angle: 46.7°
Lumens: 26762.1
Efficiency: 86.9%

Spill:
Lumens: 4032.9
Efficiency: 13.1%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-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°	0.9	18.5	75.1	98.0	65.3	54.7	63.6	72.4	90.1	106.8	136.9
75°	8.8	10.6	23.0	42.4	60.0	81.2	100.7	106.0	98.9	86.5	70.6
65°	20.3	21.2	24.7	32.7	44.1	55.6	66.2	77.7	91.8	103.3	110.4
55°	30.9	31.8	33.6	38.8	45.9	53.9	60.9	68.9	75.9	83.9	96.2
47.5°	121.0	124.5	125.4	122.7	126.3	132.4	132.4	131.6	130.7	128.0	122.7
42.5°	212.8	214.6	215.4	215.4	215.4	216.3	217.2	215.4	212.8	211.0	204.0
37.5°	276.4	275.5	275.5	274.6	274.6	271.9	269.3	265.8	263.1	258.7	252.5
33°	584.5	566.8	567.7	536.8	501.5	470.6	475.9	437.9	382.3	335.5	294.9
29°	3949.4	3964.4	3915.0	3689.8	3494.7	3108.8	2650.6	2052.8	1479.8	880.3	575.7
25.5°	10657.1	10520.3	10168.9	9779.5	9059.0	8303.2	7032.6	5994.3	4662.8	3482.3	2108.5
22.5°	17311.0	17251.8	16941.9	16371.5	15363.2	14009.7	12498.1	10744.5	8866.5	6910.8	4672.5
19.5°	25716.6	25359.0	24846.0	23803.3	22330.5	20523.1	18258.4	16142.9	13789.8	11279.6	8048.9
17°	33796.4	33905.9	33165.1	31420.4	29153.0	26762.9	23672.6	20775.7	17814.3	14928.8	11198.4
15°	43672.1	44360.8	42343.3	39691.8	36405.5	32718.3	28674.5	24830.1	21239.2	17757.8	13688.3
13°	59474.2	59500.7	57153.8	51490.6	45981.0	40296.7	34210.5	29312.8	24737.4	20750.1	15976.0
11°	78549.3	77367.9	73833.5	67889.5	60164.6	50216.5	41463.9	34389.8	28657.7	23427.1	18206.3
9°	99399.1	98031.4	92971.3	83785.1	74558.4	62410.9	50356.0	39929.3	32483.5	26313.5	20386.3
7°	124691.9	124515.3	115812.1	103151.6	88351.7	74639.6	59790.3	46142.6	36074.4	28802.5	21986.2
5°	142947.6	143111.0	136390.0	123854.9	103155.2	83684.5	67943.4	52311.7	39589.4	30901.3	23398.9
3°	151051.3	150998.3	147260.8	136576.3	116649.2	91756.4	73740.8	57265.1	42524.3	32374.0	24325.1
1°	150463.3	151170.5	150193.1	141821.0	122971.9	96541.0	76566.2	59550.1	44141.9	33097.1	24824.0
0°	151883.0	151778.0	150706.1	142081.5	123803.7	97114.9	76795.8	59909.5	44178.1	33187.2	24892.8
-1°	151285.3	151259.7	150249.6	141430.8	122494.3	96262.9	76344.6	59494.5	43870.8	33021.2	24776.3
-3°	150578.0	150623.1	146335.5	135714.6	114740.3	91030.6	73015.0	56745.0	42066.1	32100.3	24222.7
-5°	142844.3	141658.6	135373.8	120805.2	101723.0	82515.5	67068.4	51427.0	38920.1	30437.7	23182.6
-7°	120829.0	119192.1	111989.0	99690.5	85525.4	72238.9	58012.9	44911.8	35203.8	28259.5	21779.6
-9°	93701.5	94018.5	88048.0	79971.7	72496.7	60525.8	48033.9	38512.2	31502.5	25684.8	19935.1
-11°	74186.7	74126.6	70960.4	65123.3	57398.4	48024.2	39693.6	33135.1	27812.7	22988.3	17787.8
-13°	56285.0	56866.9	53449.9	48890.3	44222.2	37895.0	32893.2	28226.8	23994.0	20151.4	15495.7
-15°	42134.1	41479.8	40098.0	37889.7	34856.0	30908.3	27384.5	23949.8	20505.5	17138.8	13240.6
-17°	31727.7	32775.7	31561.7	30176.4	28074.1	25430.5	22615.7	19987.2	17045.2	14188.9	10643.0
-19.5°	24554.7	24345.4	23555.2	22888.5	21306.3	19506.9	17442.5	15284.6	13076.4	10549.4	7544.8
-22.5°	16804.2	16736.2	16480.1	15820.6	14447.6	13464.0	11774.0	10025.8	8116.0	6291.9	4219.6
-25.5°	10281.9	10416.1	10142.4	9661.2	8856.8	7754.0	6642.4	5451.3	4132.2	2989.6	1806.5
-29°	4356.4	4429.7	4308.8	3861.1	3549.4	2929.6	2377.8	1840.9	1226.4	744.3	521.8
-33°	757.6	773.5	758.4	671.0	614.5	513.9	475.0	419.4	371.7	327.6	285.2
-37.5°	278.1	278.1	276.4	276.4	277.2	275.5	271.1	266.6	262.2	257.8	251.6
-42.5°	215.4	214.6	213.7	214.6	214.6	215.4	216.3	210.1	208.4	204.8	193.4
-47.5°	116.5	113.9	115.7	118.3	125.4	125.4	122.7	122.7	121.0	113.9	111.3
-55°	31.8	32.7	34.4	39.7	45.9	53.9	61.8	68.9	75.9	83.9	95.4
-65°	21.2	21.2	25.6	33.6	45.0	56.5	67.1	78.6	91.8	104.2	111.3
-75°	8.8	10.6	23.0	42.4	60.0	81.2	100.7	106.8	98.9	87.4	71.5
-85°	2.6	19.4	75.9	98.0	66.2	56.5	64.5	73.3	91.8	108.6	138.6
-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°	173.1	202.2	234.0	264.9	291.4	314.3	323.2	317.9	295.8	285.2	298.4
75°	60.9	59.2	62.7	69.8	82.1	98.9	131.6	180.1	235.7	273.7	294.9
65°	107.7	94.5	76.8	61.8	53.0	49.4	45.9	66.2	132.4	233.1	292.3
55°	108.6	113.0	106.8	88.3	63.6	39.7	23.0	15.0	52.1	178.4	288.7
47.5°	119.2	116.5	110.4	97.1	72.4	41.5	15.0	0.0	24.7	143.9	287.0
42.5°	188.1	168.6	143.9	108.6	74.2	40.6	12.4	0.0	9.7	127.1	286.1
37.5°	243.7	228.7	199.5	150.1	89.2	38.0	6.2	0.0	0.0	112.1	285.2
33°	264.9	249.0	228.7	195.1	109.5	35.3	4.4	0.0	0.0	100.7	284.3
29°	363.8	276.4	234.9	202.2	133.3	49.4	0.0	0.0	0.0	90.9	282.5
25.5°	947.4	446.8	266.6	204.0	146.6	65.3	0.0	0.0	0.9	83.9	282.5
22.5°	2417.5	997.7	354.1	212.8	156.3	80.3	2.6	0.0	0.9	78.6	282.5
19.5°	4702.6	2215.3	622.5	243.7	164.2	92.7	7.9	0.0	0.9	73.3	282.5
17°	7041.5	3605.9	1119.6	292.3	173.1	105.1	14.1	0.0	0.9	70.6	282.5
15°	9038.7	4869.4	1637.9	342.6	180.1	114.8	17.7	0.0	0.9	68.0	282.5
13°	10947.6	6223.0	2283.3	401.7	187.2	124.5	24.7	0.0	0.9	66.2	281.7
11°	12681.7	7560.6	2916.4	483.0	196.9	133.3	31.8	0.0	0.9	64.5	281.7
9°	14184.5	8734.1	3516.8	581.9	204.8	141.3	38.8	0.0	0.9	62.7	281.7
7°	15479.8	9756.5	4090.7	689.6	214.6	147.5	45.0	0.0	0.0	61.8	281.7
5°	16472.2	10564.4	4506.5	787.6	223.4	153.6	51.2	0.0	0.0	61.8	281.7
3°	17143.2	11084.5	4806.7	861.8	229.6	156.3	53.9	0.0	0.0	60.9	281.7
1°	17452.3	11308.7	4948.0	895.3	232.2	158.9	56.5	0.0	0.0	60.0	281.7
0°	17516.7	11322.9	4962.1	898.0	232.2	158.0	57.4	0.0	0.0	60.0	281.7
-1°	17447.0	11294.6	4934.8	889.1	231.3	158.0	56.5	0.0	0.0	60.9	281.7
-3°	17063.8	10956.4	4750.2	845.9	227.8	156.3	54.7	0.0	0.0	60.9	281.7
-5°	16333.6	10399.3	4420.0	764.6	220.7	153.6	53.0	0.0	0.0	61.8	281.7
-7°	15262.6	9564.0	3967.9	664.0	213.7	150.1	48.6	0.0	0.0	62.7	281.7
-9°	13939.0	8444.5	3386.1	556.3	207.5	145.7	44.1	0.0	0.9	64.5	281.7
-11°	12287.0	7243.7	2754.8	468.8	201.3	140.4	38.8	0.0	0.9	66.2	282.5
-13°	10495.5	5896.3	2076.7	394.7	195.1	132.4	31.8	0.0	0.9	68.0	282.5
-15°	8550.4	4536.6	1477.2	336.4	187.2	123.6	24.7	0.0	1.8	69.8	282.5
-17°	6574.4	3290.7	973.0	290.5	178.4	111.3	16.8	0.0	1.8	72.4	282.5
-19.5°	4231.1	1934.5	547.4	241.9	166.9	96.2	9.7	0.0	2.6	75.9	282.5
-22.5°	2120.8	869.7	336.4	208.4	152.7	77.7	2.6	0.0	3.5	81.2	283.4
-25.5°	814.1	402.6	257.8	198.7	141.3	59.2	0.0	0.0	3.5	87.4	283.4
-29°	341.7	267.5	229.6	193.4	119.2	40.6	0.9	0.0	4.4	95.4	284.3
-33°	261.4	241.9	218.1	178.4	94.5	27.4	3.5	0.0	4.4	105.1	285.2
-37.5°	239.3	220.7	188.9	132.4	73.3	32.7	7.9	0.0	5.3	117.4	286.1
-42.5°	177.5	156.3	130.7	99.8	69.8	39.7	15.0	0.0	15.9	133.3	287.8
-47.5°	107.7	108.6	103.3	92.7	71.5	44.1	21.2	0.0	30.9	151.0	288.7
-55°	106.8	111.3	105.1	87.4	65.3	44.1	30.9	16.8	59.2	186.3	291.4
-65°	108.6	97.1	79.5	65.3	57.4	55.6	52.1	66.2	136.0	241.0	294.0
-75°	62.7	61.8	66.2	73.3	86.5	103.3	132.4	180.1	239.3	280.8	297.6
-85°	174.8	204.0	235.7	266.6	293.1	314.3	323.2	317.0	298.4	292.3	302.0
-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)