

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: P507800

Luminaire Tested: **UFLD-L-CA4-240-760-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507800
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-CA4-240-760-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	30695 lumens	Max Intensity:	151389.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.8 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:	13252.4 lumens	Field Lumens:	26675.2 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

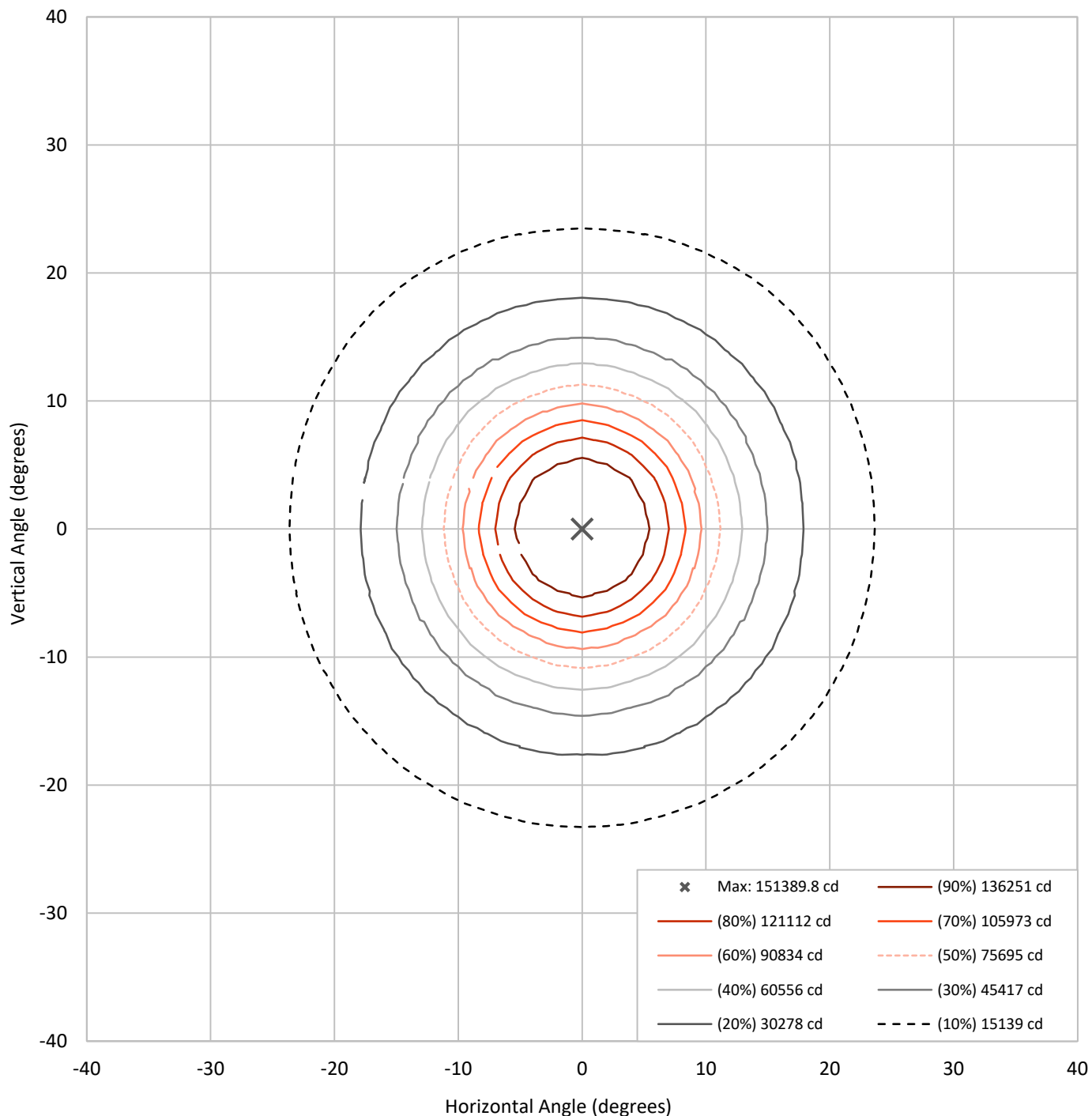
Input Watts (W): 242
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot



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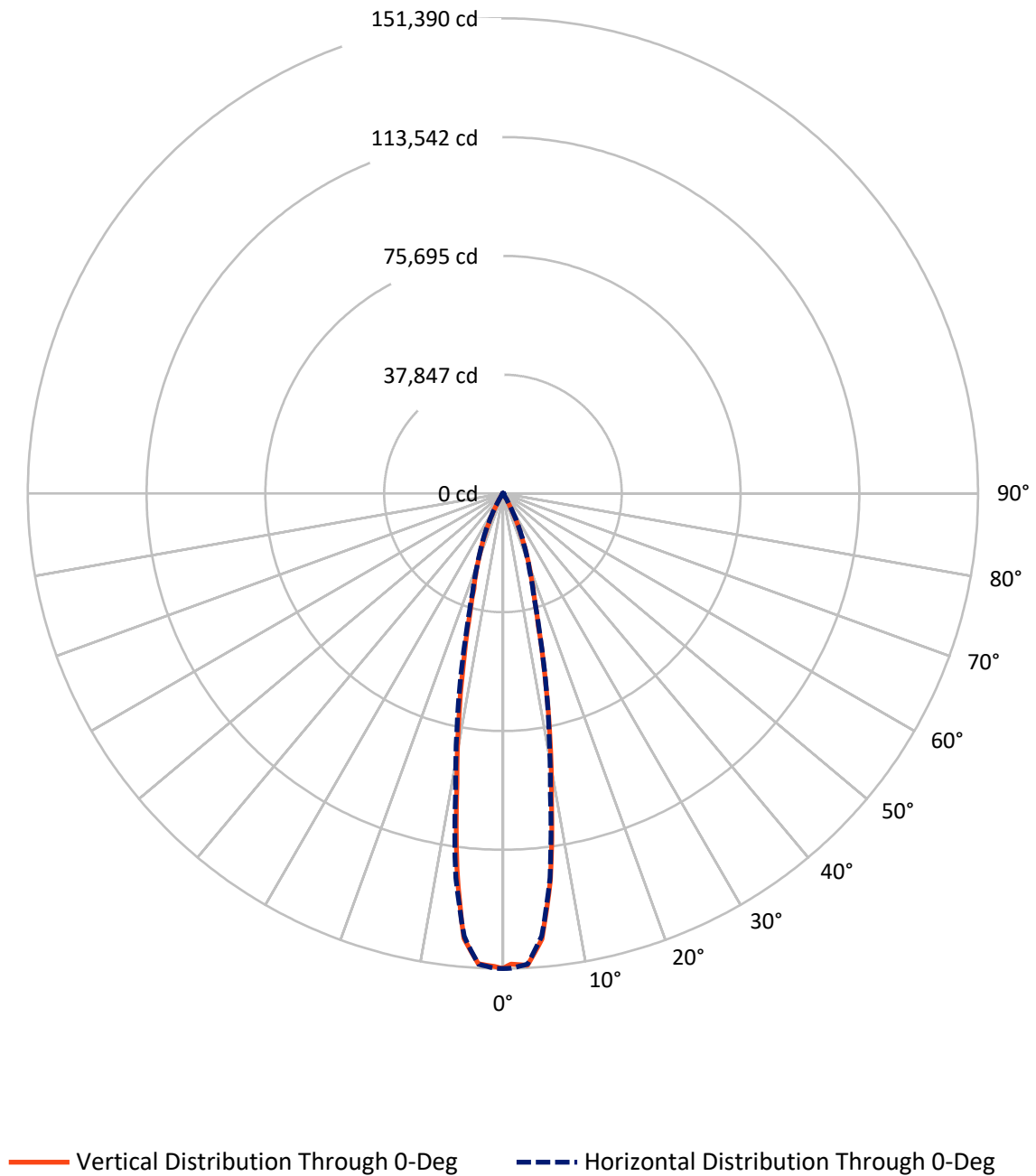
Lumen Table

Vertical Angle (degrees)																	
	-80		-60		-40		-20		0	20		40		60		80	
90	5.0		12.7		14.3		10.6		5.4	10.6		14.3		12.7		5.0	
80	5.0		12.7		14.3		10.6		5.4	10.6		14.3		12.7		5.0	
70	4.4	1.8	1.4	1.2	1.6	2.5	2.6	1.1	1.1	2.6	2.5	1.6	1.2	1.4	1.8	4.4	
60		0.8	0.4	0.7	1.9	3.0	2.5	1.6	1.6	2.5	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	6.7	13.4	22.7	22.7	13.4	6.7	3.5	0.6	0.0	0.2		
30	2.6	0.1	0.0	0.9	4.7	31.3	175.7	338.7	338.7	175.7	31.3	4.7	0.9	0.0	0.1	2.6	
20		0.1	0.1	1.5	10.8	170.6	638.9	1283.9	1283.9	638.9	170.6	10.8	1.5	0.1	0.1		
10	2.4	0.1	0.2	2.2	23.1	323.2	1242.8	3379.8	3379.8	1242.8	323.2	23.1	2.2	0.2	0.1	2.4	
0		0.1	0.2	2.3	22.6	319.4	1223.8	3322.6	3322.6	1223.8	319.4	22.6	2.3	0.2	0.1		
-10	2.6	0.1	0.1	1.7	10.3	161.6	614.2	1224.2	1224.2	614.2	161.6	10.3	1.7	0.1	0.1	2.6	
-20		0.2	0.0	0.8	4.5	28.0	162.0	329.4	329.4	162.0	28.0	4.5	0.8	0.0	0.2		
-30	3.3	0.2	0.0	0.5	3.1	6.5	12.6	25.1	25.1	12.6	6.5	3.1	0.5	0.0	0.2	3.3	
-40		0.4	0.1	0.7	2.1	3.8	4.8	5.1	5.1	4.8	3.8	2.1	0.7	0.1	0.4		
-50	4.5	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	4.5	
-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		14.5		10.7		5.4	10.7		14.5		12.8		5.1	5.1	
-80		12.8		14.5		10.7		5.4	10.7		14.5		12.8		5.1		
-90	Horizontal Angle (degrees)																

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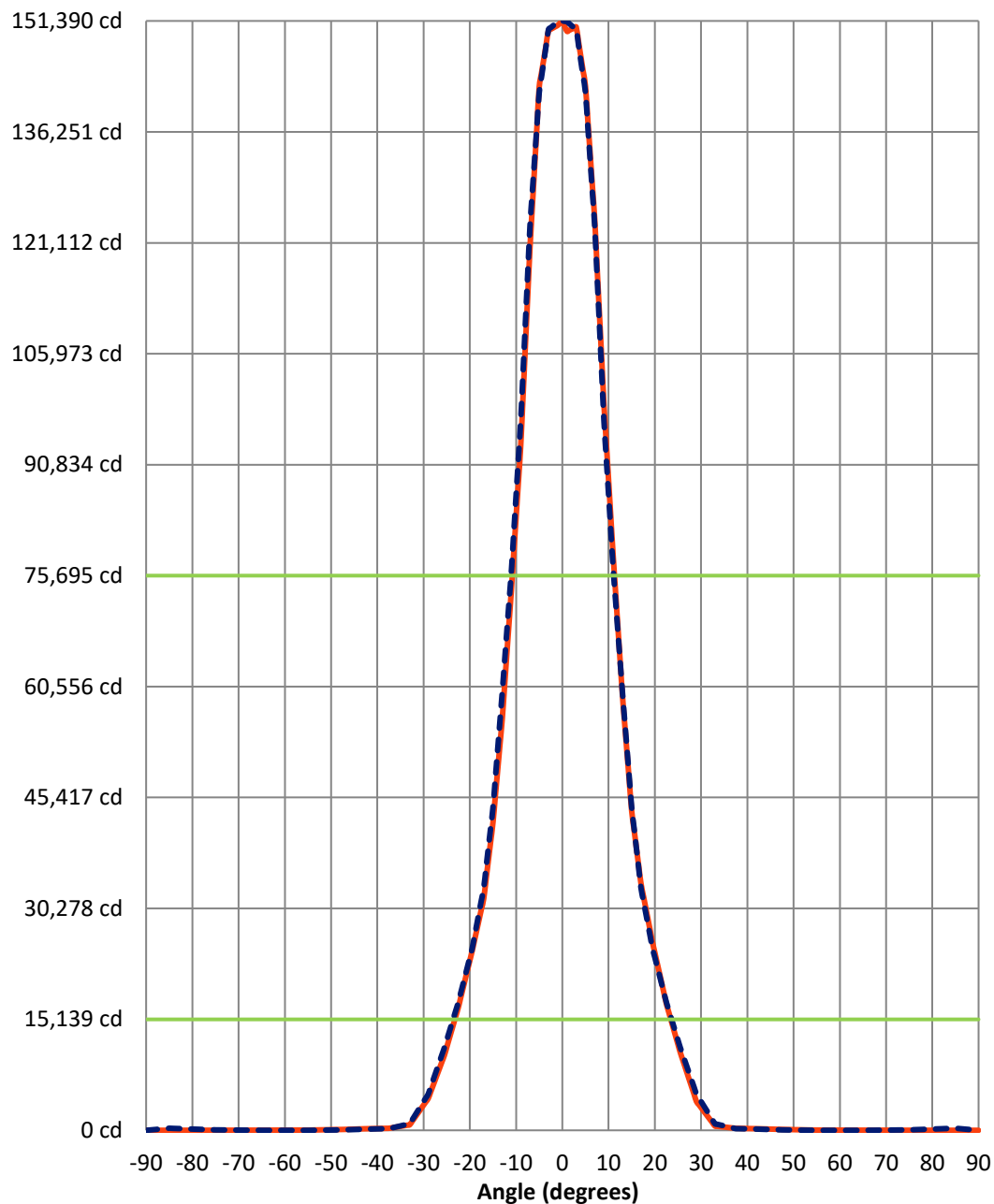
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:

H Angle: 22.2°
V Angle: 22.1°
Lumens: 13252.4
Efficiency: 43.2%

Field:

H Angle: 47.3°
V Angle: 46.7°
Lumens: 26675.2
Efficiency: 86.9%

Spill:

Lumens: 4019.8
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	74.8	97.7	65.1	54.6	63.4	72.2	89.8	106.5	136.4
75°	8.8	10.6	22.9	42.2	59.8	81.0	100.3	105.6	98.6	86.2	70.4
65°	20.2	21.1	24.6	32.6	44.0	55.4	66.0	77.4	91.5	103.0	110.0
55°	30.8	31.7	33.4	38.7	45.8	53.7	60.7	68.6	75.7	83.6	95.9
47.5°	120.6	124.1	125.0	122.3	125.9	132.0	132.0	131.1	130.3	127.6	122.3
42.5°	212.1	213.9	214.7	214.7	214.7	215.6	216.5	214.7	212.1	210.3	203.3
37.5°	275.5	274.6	274.6	273.7	273.7	271.1	268.4	264.9	262.3	257.9	251.7
33°	582.6	565.0	565.9	535.1	499.9	469.1	474.4	436.5	381.1	334.4	293.9
29°	3936.6	3951.5	3902.3	3677.8	3483.3	3098.7	2642.0	2046.2	1475.0	877.4	573.8
25.5°	10622.5	10486.1	10135.8	9747.7	9029.6	8276.2	7009.8	5974.8	4647.7	3471.0	2101.6
22.5°	17254.8	17195.8	16886.9	16318.4	15313.3	13964.2	12457.5	10709.6	8837.7	6888.4	4657.4
19.5°	25633.1	25276.7	24765.3	23726.0	22258.0	20456.5	18199.1	16090.4	13745.0	11243.0	8022.8
17°	33686.7	33795.8	33057.4	31318.4	29058.4	26676.0	23595.7	20708.2	17756.4	14880.3	11162.0
15°	43530.3	44216.8	42205.8	39562.9	36287.3	32612.1	28581.4	24749.5	21170.2	17700.1	13643.8
13°	59281.1	59307.5	56968.2	51323.4	45831.7	40165.8	34099.4	29217.6	24657.1	20682.7	15924.1
11°	78294.2	77116.7	73593.7	67669.1	59969.3	50053.5	41329.3	34278.1	28564.6	23351.1	18147.2
9°	99076.3	97713.1	92669.4	83513.1	74316.3	62208.2	50192.5	39799.7	32378.0	26228.0	20320.1
7°	124287.0	124111.0	115436.1	102816.7	88064.8	74397.2	59596.1	45992.8	35957.3	28709.0	21914.8
5°	142483.5	142646.3	135947.1	123452.7	102820.2	83412.7	67722.7	52141.9	39460.9	30800.9	23322.9
3°	150560.8	150508.0	146782.6	136132.8	116270.4	91458.4	73501.3	57079.1	42386.2	32268.9	24246.1
1°	149974.7	150679.6	149705.4	141360.5	122572.6	96227.5	76317.6	59356.7	43998.5	32989.7	24743.3
0°	151389.8	151285.1	150216.7	141620.1	123401.6	96799.6	76546.4	59714.9	44034.6	33079.4	24812.0
-1°	150794.0	150768.5	149761.7	140971.5	122096.5	95950.3	76096.7	59301.3	43728.3	32914.0	24695.8
-3°	150089.1	150134.0	145860.3	135273.9	114367.7	90735.0	72777.9	56560.7	41929.5	31996.1	24144.0
-5°	142380.5	141198.5	134934.2	120412.9	101392.7	82247.5	66850.6	51260.0	38793.8	30338.9	23107.3
-7°	120436.7	118805.0	111625.3	99366.8	85247.7	72004.3	57824.5	44766.0	35089.5	28167.7	21708.8
-9°	93397.2	93713.2	87762.1	79712.0	72261.3	60329.2	47877.9	38387.2	31400.2	25601.4	19870.4
-11°	73945.8	73885.9	70730.0	64911.8	57212.0	47868.2	39564.7	33027.5	27722.4	22913.7	17730.0
-13°	56102.2	56682.2	53276.3	48731.6	44078.6	37772.0	32786.4	28135.2	23916.1	20086.0	15445.3
-15°	41997.2	41345.1	39967.8	37766.7	34742.8	30807.9	27295.6	23872.1	20438.9	17083.2	13197.6
-17°	31624.7	32669.3	31459.2	30078.4	27982.9	25348.0	22542.3	19922.3	16989.9	14142.8	10608.4
-19.5°	24474.9	24266.3	23478.7	22814.2	21237.1	19443.5	17385.9	15235.0	13033.9	10515.2	7520.3
-22.5°	16749.6	16681.8	16426.6	15769.2	14400.7	13420.3	11735.8	9993.3	8089.7	6271.4	4205.9
-25.5°	10248.5	10382.3	10109.4	9629.8	8828.0	7728.8	6620.8	5433.6	4118.8	2979.9	1800.6
-29°	4342.3	4415.3	4294.8	3848.6	3537.9	2920.1	2370.0	1835.0	1222.4	741.9	520.1
-33°	755.1	770.9	756.0	668.9	612.5	512.2	473.5	418.0	370.5	326.5	284.3
-37.5°	277.2	277.2	275.5	275.5	276.3	274.6	270.2	265.8	261.4	257.0	250.8
-42.5°	214.7	213.9	213.0	213.9	213.9	214.7	215.6	209.5	207.7	204.2	192.7
-47.5°	116.2	113.5	115.3	117.9	125.0	125.0	122.3	122.3	120.6	113.5	110.9
-55°	31.7	32.6	34.3	39.6	45.8	53.7	61.6	68.6	75.7	83.6	95.0
-65°	21.1	21.1	25.5	33.4	44.9	56.3	66.9	78.3	91.5	103.8	110.9
-75°	8.8	10.6	22.9	42.2	59.8	81.0	100.3	106.5	98.6	87.1	71.3
-85°	2.6	19.4	75.7	97.7	66.0	56.3	64.2	73.0	91.5	108.2	138.2
-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°	172.5	201.5	233.2	264.0	290.4	313.3	322.1	316.8	294.8	284.3	297.5
75°	60.7	59.0	62.5	69.5	81.8	98.6	131.1	179.5	235.0	272.8	293.9
65°	107.4	94.2	76.6	61.6	52.8	49.3	45.8	66.0	132.0	232.3	291.3
55°	108.2	112.6	106.5	88.0	63.4	39.6	22.9	15.0	51.9	177.8	287.8
47.5°	118.8	116.2	110.0	96.8	72.2	41.4	15.0	0.0	24.6	143.5	286.0
42.5°	187.5	168.1	143.5	108.2	73.9	40.5	12.3	0.0	9.7	126.7	285.1
37.5°	242.9	227.9	198.9	149.6	88.9	37.8	6.2	0.0	0.0	111.8	284.3
33°	264.0	248.2	227.9	194.5	109.1	35.2	4.4	0.0	0.0	100.3	283.4
29°	362.6	275.5	234.1	201.5	132.9	49.3	0.0	0.0	0.0	90.6	281.6
25.5°	944.3	445.3	265.8	203.3	146.1	65.1	0.0	0.0	0.9	83.6	281.6
22.5°	2409.6	994.5	352.9	212.1	155.8	80.1	2.6	0.0	0.9	78.3	281.6
19.5°	4687.3	2208.1	620.5	242.9	163.7	92.4	7.9	0.0	0.9	73.0	281.6
17°	7018.6	3594.2	1115.9	291.3	172.5	104.7	14.1	0.0	0.9	70.4	281.6
15°	9009.3	4853.6	1632.5	341.5	179.5	114.4	17.6	0.0	0.9	67.8	281.6
13°	10912.1	6202.8	2275.9	400.4	186.6	124.1	24.6	0.0	0.9	66.0	280.7
11°	12640.5	7536.1	2906.9	481.4	196.3	132.9	31.7	0.0	0.9	64.2	280.7
9°	14138.4	8705.7	3505.3	580.0	204.2	140.8	38.7	0.0	0.9	62.5	280.7
7°	15429.5	9724.8	4077.4	687.3	213.9	147.0	44.9	0.0	0.0	61.6	280.7
5°	16418.7	10530.1	4491.9	785.0	222.7	153.1	51.0	0.0	0.0	61.6	280.7
3°	17087.6	11048.5	4791.1	859.0	228.8	155.8	53.7	0.0	0.0	60.7	280.7
1°	17395.6	11272.0	4931.9	892.4	231.5	158.4	56.3	0.0	0.0	59.8	280.7
0°	17459.8	11286.1	4946.0	895.0	231.5	157.5	57.2	0.0	0.0	59.8	280.7
-1°	17390.3	11257.9	4918.7	886.2	230.6	157.5	56.3	0.0	0.0	60.7	280.7
-3°	17008.4	10920.9	4734.8	843.1	227.1	155.8	54.6	0.0	0.0	60.7	280.7
-5°	16280.5	10365.5	4405.7	762.1	220.0	153.1	52.8	0.0	0.0	61.6	280.7
-7°	15213.0	9533.0	3955.1	661.8	213.0	149.6	48.4	0.0	0.0	62.5	280.7
-9°	13893.8	8417.0	3375.1	554.4	206.8	145.2	44.0	0.0	0.9	64.2	280.7
-11°	12247.1	7220.1	2745.8	467.3	200.7	139.9	38.7	0.0	0.9	66.0	281.6
-13°	10461.5	5877.1	2069.9	393.4	194.5	132.0	31.7	0.0	0.9	67.8	281.6
-15°	8522.7	4521.8	1472.4	335.3	186.6	123.2	24.6	0.0	1.8	69.5	281.6
-17°	6553.0	3280.0	969.8	289.5	177.8	110.9	16.7	0.0	1.8	72.2	281.6
-19.5°	4217.3	1928.2	545.6	241.1	166.3	95.9	9.7	0.0	2.6	75.7	281.6
-22.5°	2113.9	866.9	335.3	207.7	152.3	77.4	2.6	0.0	3.5	81.0	282.5
-25.5°	811.4	401.3	257.0	198.0	140.8	59.0	0.0	0.0	3.5	87.1	282.5
-29°	340.6	266.7	228.8	192.7	118.8	40.5	0.9	0.0	4.4	95.0	283.4
-33°	260.5	241.1	217.4	177.8	94.2	27.3	3.5	0.0	4.4	104.7	284.3
-37.5°	238.5	220.0	188.3	132.0	73.0	32.6	7.9	0.0	5.3	117.1	285.1
-42.5°	176.9	155.8	130.3	99.4	69.5	39.6	15.0	0.0	15.8	132.9	286.9
-47.5°	107.4	108.2	103.0	92.4	71.3	44.0	21.1	0.0	30.8	150.5	287.8
-55°	106.5	110.9	104.7	87.1	65.1	44.0	30.8	16.7	59.0	185.7	290.4
-65°	108.2	96.8	79.2	65.1	57.2	55.4	51.9	66.0	135.5	240.3	293.1
-75°	62.5	61.6	66.0	73.0	86.2	103.0	132.0	179.5	238.5	279.9	296.6
-85°	174.3	203.3	235.0	265.8	292.2	313.3	322.1	315.9	297.5	291.3	301.0
-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)