

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: P507802

Luminaire Tested: **UFLD-L-CA4-280-727-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507802
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-CA4-280-727-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	29439 lumens	Max Intensity:	145195.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.0 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:	12710.2 lumens	Field Lumens:	25583.7 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

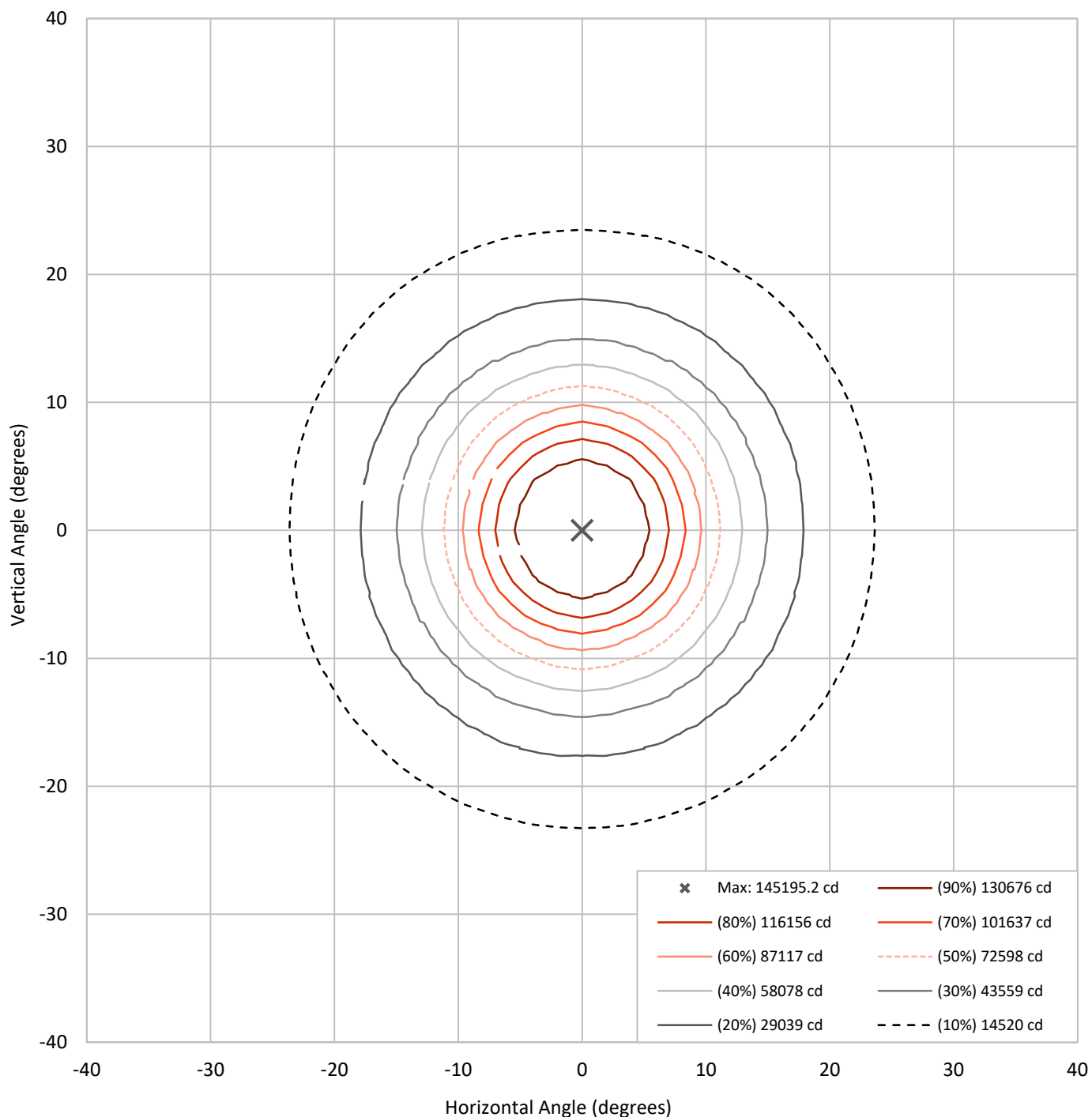
Input Watts (W): 280.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot



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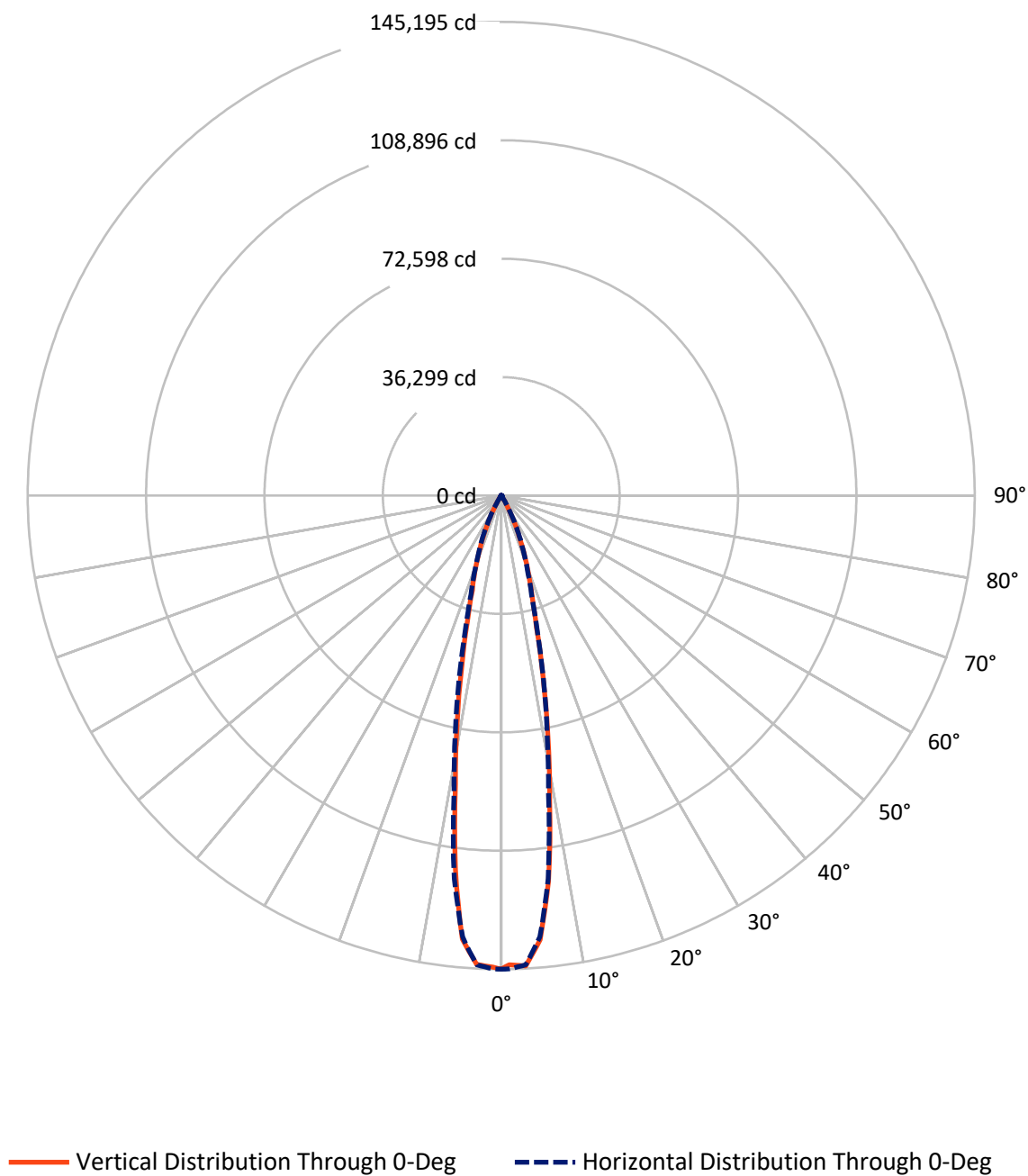
Lumen Table

Vertical Angle (degrees)																	
	-80		-60		-40		-20		0	20		40		60		80	
90	4.8		12.2		13.8		10.1		5.2	10.1		13.8		12.2		4.8	
80	4.8		12.2		13.8		10.1		5.2	10.1		13.8		12.2		4.8	
70	4.2	1.7	1.3	1.1	1.5	2.4	2.5	1.1	1.1	2.5	2.4	1.5	1.1	1.3	1.7	4.2	
60		0.8	0.4	0.7	1.8	2.8	2.4	1.6	1.6	2.4	2.8	1.8	0.7	0.4	0.8		
50	3.0	0.4	0.1	0.6	2.2	3.9	4.8	5.0	5.0	4.8	3.9	2.2	0.6	0.1	0.4	3.0	
40		0.2	0.0	0.5	3.3	6.5	12.8	21.8	21.8	12.8	6.5	3.3	0.5	0.0	0.2		
30	2.5	0.1	0.0	0.8	4.5	30.1	168.5	324.9	324.9	168.5	30.1	4.5	0.8	0.0	0.1	2.5	
20		0.1	0.1	1.5	10.3	163.6	612.7	1231.4	1231.4	612.7	163.6	10.3	1.5	0.1	0.1		
10	2.3	0.1	0.1	2.1	22.1	310.0	1192.0	3241.5	3241.5	1192.0	310.0	22.1	2.1	0.1	0.1	2.3	
0		0.1	0.2	2.2	21.7	306.4	1173.7	3186.6	3186.6	1173.7	306.4	21.7	2.2	0.2	0.1		
-10	2.5	0.1	0.1	1.6	9.9	155.0	589.0	1174.1	1174.1	589.0	155.0	9.9	1.6	0.1	0.1	2.5	
-20		0.2	0.0	0.8	4.3	26.9	155.3	315.9	315.9	155.3	26.9	4.3	0.8	0.0	0.2		
-30	3.1	0.2	0.0	0.5	3.0	6.2	12.1	24.0	24.0	12.1	6.2	3.0	0.5	0.0	0.2	3.1	
-40		0.4	0.1	0.6	2.1	3.6	4.6	4.9	4.9	4.6	3.6	2.1	0.6	0.1	0.4		
-50	4.4	0.9	0.5	0.8	1.8	2.8	2.4	1.6	1.6	2.4	2.8	1.8	0.8	0.5	0.9	4.4	
-60		1.7	1.3	1.2	1.6	2.5	2.5	1.1	1.1	2.5	2.5	1.6	1.2	1.3	1.7		
-70	4.9	12.2		13.9		10.3		5.2	10.3		13.9		12.2		4.9	4.9	
-80		12.2		13.9		10.3		5.2	10.3		13.9		12.2		4.9		
-90	Horizontal Angle (degrees)																

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Luminous Intensity Polar Plot

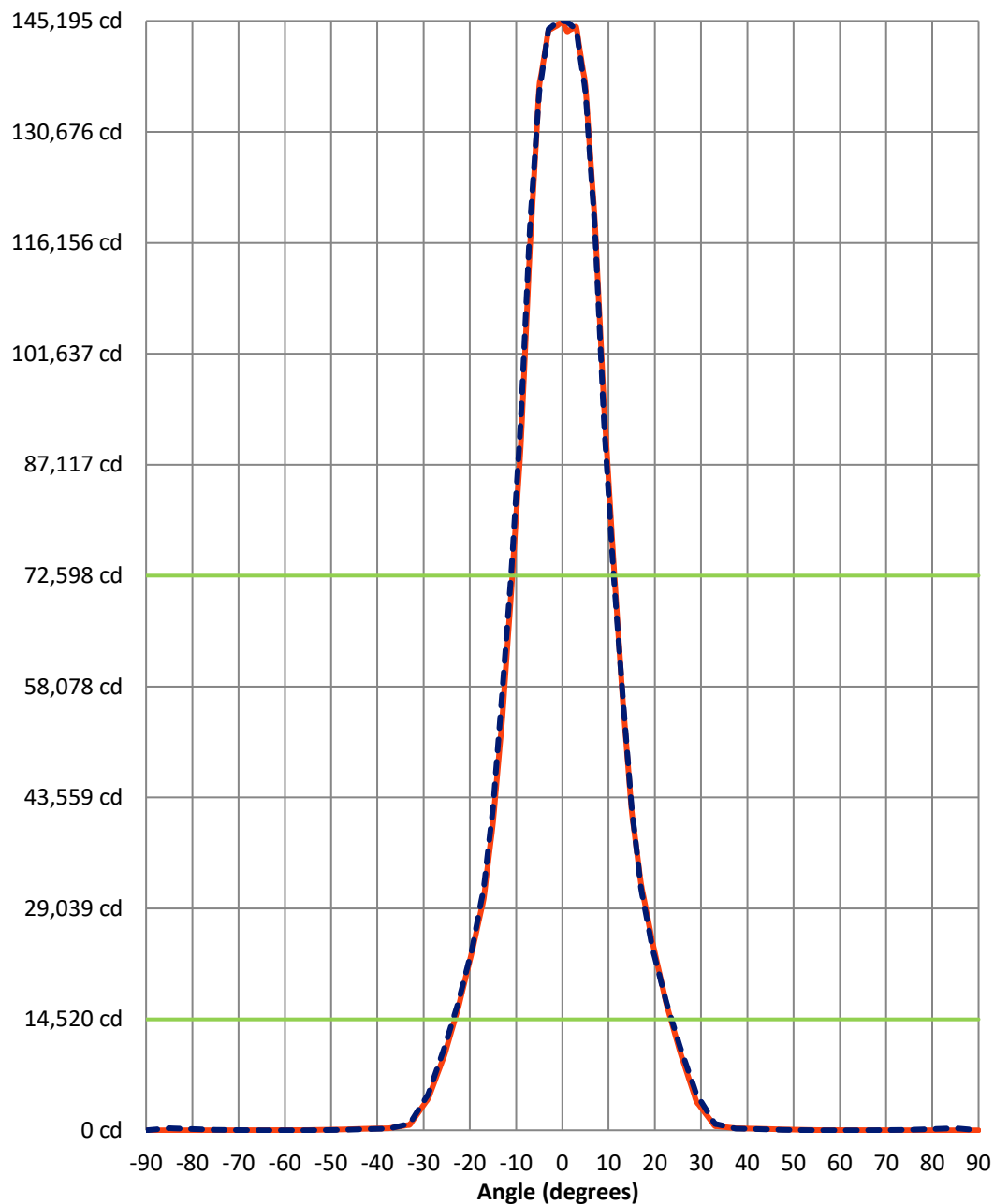




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Luminous Intensity Plot



Beam:

H Angle: 22.2°
V Angle: 22.1°
Lumens: 12710.2
Efficiency: 43.2%

Field:

H Angle: 47.3°
V Angle: 46.7°
Lumens: 25583.7
Efficiency: 86.9%

Spill:

Lumens: 3855.3
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°	0.8	17.7	71.7	93.7	62.5	52.3	60.8	69.2	86.1	102.1	130.8
75°	8.4	10.1	21.9	40.5	57.4	77.7	96.2	101.3	94.5	82.7	67.5
65°	19.4	20.3	23.6	31.2	42.2	53.2	63.3	74.3	87.8	98.8	105.5
55°	29.5	30.4	32.1	37.1	43.9	51.5	58.2	65.8	72.6	80.2	92.0
47.5°	115.6	119.0	119.9	117.3	120.7	126.6	126.6	125.8	124.9	122.4	117.3
42.5°	203.4	205.1	206.0	206.0	206.0	206.8	207.6	206.0	203.4	201.7	195.0
37.5°	264.2	263.3	263.3	262.5	262.5	260.0	257.4	254.1	251.5	247.3	241.4
33°	558.8	541.9	542.7	513.2	479.4	449.9	455.0	418.7	365.5	320.7	281.9
29°	3775.5	3789.9	3742.6	3527.3	3340.8	2972.0	2533.9	1962.5	1414.7	841.5	550.3
25.5°	10187.9	10057.0	9721.1	9348.9	8660.1	7937.6	6723.0	5730.4	4457.5	3329.0	2015.6
22.5°	16548.7	16492.2	16195.9	15650.6	14686.7	13392.8	11947.7	10271.4	8476.1	6606.5	4466.8
19.5°	24584.2	24242.4	23752.0	22755.1	21347.2	19619.4	17454.4	15432.0	13182.6	10782.9	7694.5
17°	32308.3	32412.9	31704.8	30036.9	27869.3	25584.4	22630.2	19860.8	17029.8	14271.4	10705.3
15°	41749.1	42407.5	40478.8	37944.1	34802.5	31277.7	27411.8	23736.8	20304.0	16975.8	13085.5
13°	56855.3	56880.7	54637.1	49223.3	43956.4	38522.3	32704.1	28022.1	23648.2	19836.4	15272.5
11°	75090.5	73961.2	70582.4	64900.1	57515.4	48005.3	39638.1	32875.5	27395.8	22395.6	17404.6
9°	95022.3	93714.8	88877.5	80095.8	71275.3	59662.7	48138.7	38171.1	31053.1	25154.8	19488.6
7°	119201.3	119032.5	110712.6	98609.5	84461.3	71353.0	57157.5	44110.8	34485.9	27534.2	21018.1
5°	136653.2	136809.4	130384.3	118401.2	98612.9	79999.6	64951.6	50008.3	37846.2	29540.6	22368.6
3°	144400.0	144349.4	140776.5	130562.4	111512.8	87716.0	70493.7	54743.5	40651.8	30948.5	23254.0
1°	143837.9	144514.0	143579.6	135576.2	117557.1	92290.0	73194.8	56927.9	42198.2	31639.8	23730.9
0°	145195.2	145094.7	144070.0	135825.2	118352.2	92838.7	73414.2	57271.5	42232.8	31725.9	23796.7
-1°	144623.7	144599.2	143633.6	135203.1	117100.5	92024.1	72982.9	56874.8	41939.0	31567.2	23685.3
-3°	143947.6	143990.7	139891.9	129738.6	109687.9	87022.2	69799.9	54246.3	40213.8	30686.8	23156.1
-5°	136554.5	135420.9	129412.8	115485.8	97243.8	78882.1	64115.1	49162.5	37206.4	29097.4	22161.8
-7°	115508.6	113943.7	107057.8	95300.8	81759.5	69058.0	55458.4	42934.2	33653.7	27015.1	20820.5
-9°	89575.5	89878.5	84171.0	76450.3	69304.5	57860.6	45918.8	36816.4	30115.4	24553.8	19057.3
-11°	70920.0	70862.6	67835.8	62255.7	54871.0	45909.5	37945.8	31676.1	26588.0	21976.1	17004.5
-13°	53806.6	54362.8	51096.3	46737.5	42275.0	36226.4	31444.8	26983.9	22937.5	19264.1	14813.3
-15°	40278.8	39653.3	38332.4	36221.3	33321.1	29547.3	26178.7	22895.3	19602.6	16384.1	12657.6
-17°	30330.6	31332.5	30171.9	28847.6	26837.9	24310.7	21619.9	19107.1	16294.7	13564.1	10174.4
-19.5°	23473.4	23273.4	22518.0	21880.7	20368.1	18647.9	16674.5	14611.6	12500.6	10084.9	7212.5
-22.5°	16064.2	15999.2	15754.5	15123.9	13811.4	12871.1	11255.6	9584.4	7758.6	6014.8	4033.8
-25.5°	9829.1	9957.4	9695.8	9235.8	8466.8	7412.6	6349.9	5211.3	3950.2	2858.0	1727.0
-29°	4164.6	4234.7	4119.0	3691.1	3393.1	2800.6	2273.1	1759.9	1172.4	711.5	498.8
-33°	724.2	739.4	725.1	641.5	587.5	491.2	454.1	400.9	355.4	313.1	272.6
-37.5°	265.9	265.9	264.2	264.2	265.0	263.3	259.1	254.9	250.7	246.5	240.6
-42.5°	206.0	205.1	204.3	205.1	205.1	206.0	206.8	200.9	199.2	195.8	184.9
-47.5°	111.4	108.9	110.6	113.1	119.9	119.9	117.3	117.3	115.6	108.9	106.4
-55°	30.4	31.2	32.9	38.0	43.9	51.5	59.1	65.8	72.6	80.2	91.2
-65°	20.3	20.3	24.5	32.1	43.0	54.0	64.1	75.1	87.8	99.6	106.4
-75°	8.4	10.1	21.9	40.5	57.4	77.7	96.2	102.1	94.5	83.6	68.4
-85°	2.5	18.6	72.6	93.7	63.3	54.0	61.6	70.1	87.8	103.8	132.5
-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°	165.4	193.3	223.7	253.2	278.5	300.5	308.9	303.9	282.8	272.6	285.3
75°	58.2	56.6	59.9	66.7	78.5	94.5	125.8	172.2	225.4	261.7	281.9
65°	103.0	90.3	73.4	59.1	50.6	47.3	43.9	63.3	126.6	222.8	279.4
55°	103.8	108.0	102.1	84.4	60.8	38.0	21.9	14.3	49.8	170.5	276.0
47.5°	113.9	111.4	105.5	92.8	69.2	39.7	14.3	0.0	23.6	137.6	274.3
42.5°	179.8	161.2	137.6	103.8	70.9	38.8	11.8	0.0	9.3	121.5	273.5
37.5°	233.0	218.6	190.8	143.5	85.3	36.3	5.9	0.0	0.0	107.2	272.6
33°	253.2	238.0	218.6	186.5	104.7	33.8	4.2	0.0	0.0	96.2	271.8
29°	347.8	264.2	224.5	193.3	127.5	47.3	0.0	0.0	0.0	86.9	270.1
25.5°	905.7	427.1	254.9	195.0	140.1	62.5	0.0	0.0	0.8	80.2	270.1
22.5°	2311.0	953.8	338.5	203.4	149.4	76.8	2.5	0.0	0.8	75.1	270.1
19.5°	4495.5	2117.8	595.1	233.0	157.0	88.6	7.6	0.0	0.8	70.1	270.1
17°	6731.4	3447.2	1070.3	279.4	165.4	100.4	13.5	0.0	0.8	67.5	270.1
15°	8640.7	4655.0	1565.7	327.5	172.2	109.7	16.9	0.0	0.8	65.0	270.1
13°	10465.6	5949.0	2182.8	384.0	178.9	119.0	23.6	0.0	0.8	63.3	269.3
11°	12123.3	7227.7	2787.9	461.7	188.2	127.5	30.4	0.0	0.8	61.6	269.3
9°	13559.9	8349.5	3361.9	556.2	195.8	135.1	37.1	0.0	0.8	59.9	269.3
7°	14798.1	9326.9	3910.6	659.2	205.1	141.0	43.0	0.0	0.0	59.1	269.3
5°	15746.9	10099.2	4308.1	752.9	213.5	146.9	49.0	0.0	0.0	59.1	269.3
3°	16388.4	10596.4	4595.1	823.8	219.5	149.4	51.5	0.0	0.0	58.2	269.3
1°	16683.8	10810.8	4730.1	855.9	222.0	151.9	54.0	0.0	0.0	57.4	269.3
0°	16745.4	10824.3	4743.6	858.4	222.0	151.1	54.9	0.0	0.0	57.4	269.3
-1°	16678.7	10797.3	4717.5	850.0	221.1	151.1	54.0	0.0	0.0	58.2	269.3
-3°	16312.4	10474.0	4541.1	808.6	217.8	149.4	52.3	0.0	0.0	58.2	269.3
-5°	15614.4	9941.4	4225.4	731.0	211.0	146.9	50.6	0.0	0.0	59.1	269.3
-7°	14590.5	9142.9	3793.2	634.7	204.3	143.5	46.4	0.0	0.0	59.9	269.3
-9°	13325.2	8072.6	3237.0	531.8	198.4	139.3	42.2	0.0	0.8	61.6	269.3
-11°	11746.0	6924.7	2633.5	448.2	192.4	134.2	37.1	0.0	0.8	63.3	270.1
-13°	10033.4	5636.7	1985.2	377.3	186.5	126.6	30.4	0.0	0.8	65.0	270.1
-15°	8173.9	4336.8	1412.1	321.6	178.9	118.2	23.6	0.0	1.7	66.7	270.1
-17°	6284.9	3145.8	930.2	277.7	170.5	106.4	16.0	0.0	1.7	69.2	270.1
-19.5°	4044.8	1849.3	523.3	231.3	159.5	92.0	9.3	0.0	2.5	72.6	270.1
-22.5°	2027.4	831.4	321.6	199.2	146.0	74.3	2.5	0.0	3.4	77.7	270.9
-25.5°	778.2	384.9	246.5	189.9	135.1	56.6	0.0	0.0	3.4	83.6	270.9
-29°	326.7	255.8	219.5	184.9	113.9	38.8	0.8	0.0	4.2	91.2	271.8
-33°	249.8	231.3	208.5	170.5	90.3	26.2	3.4	0.0	4.2	100.4	272.6
-37.5°	228.7	211.0	180.6	126.6	70.1	31.2	7.6	0.0	5.1	112.3	273.5
-42.5°	169.7	149.4	124.9	95.4	66.7	38.0	14.3	0.0	15.2	127.5	275.2
-47.5°	103.0	103.8	98.8	88.6	68.4	42.2	20.3	0.0	29.5	144.3	276.0
-55°	102.1	106.4	100.4	83.6	62.5	42.2	29.5	16.0	56.6	178.1	278.5
-65°	103.8	92.8	76.0	62.5	54.9	53.2	49.8	63.3	130.0	230.4	281.1
-75°	59.9	59.1	63.3	70.1	82.7	98.8	126.6	172.2	228.7	268.4	284.4
-85°	167.1	195.0	225.4	254.9	280.2	300.5	308.9	303.0	285.3	279.4	288.7
-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)