

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: P507805

Luminaire Tested: **UFLD-L-CA4-280-750-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507805
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-CA4-280-750-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	35384 lumens	Max Intensity:	174516.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.2 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:	15276.9 lumens	Field Lumens:	30750.1 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

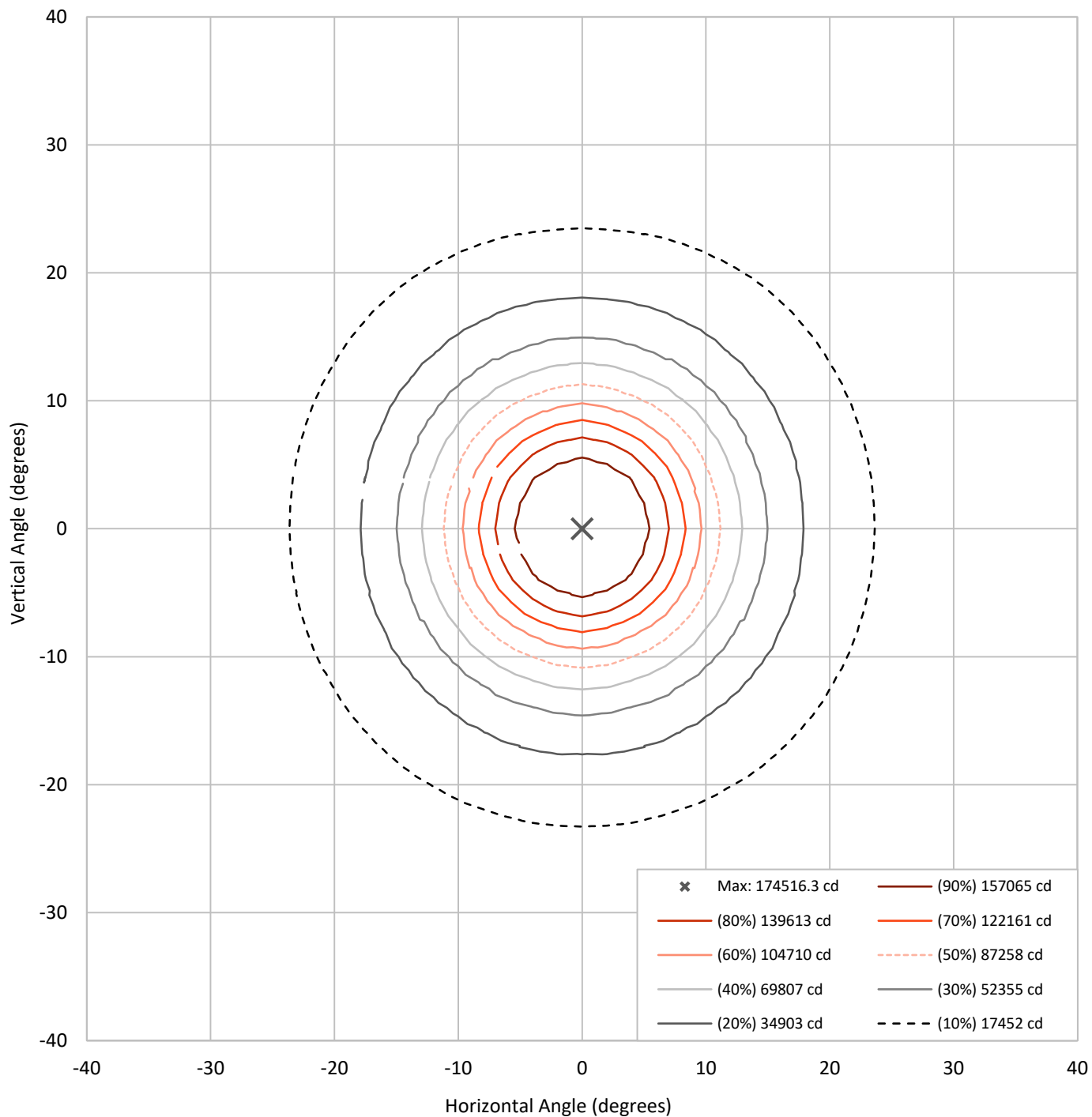
Input Watts (W): 280.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot



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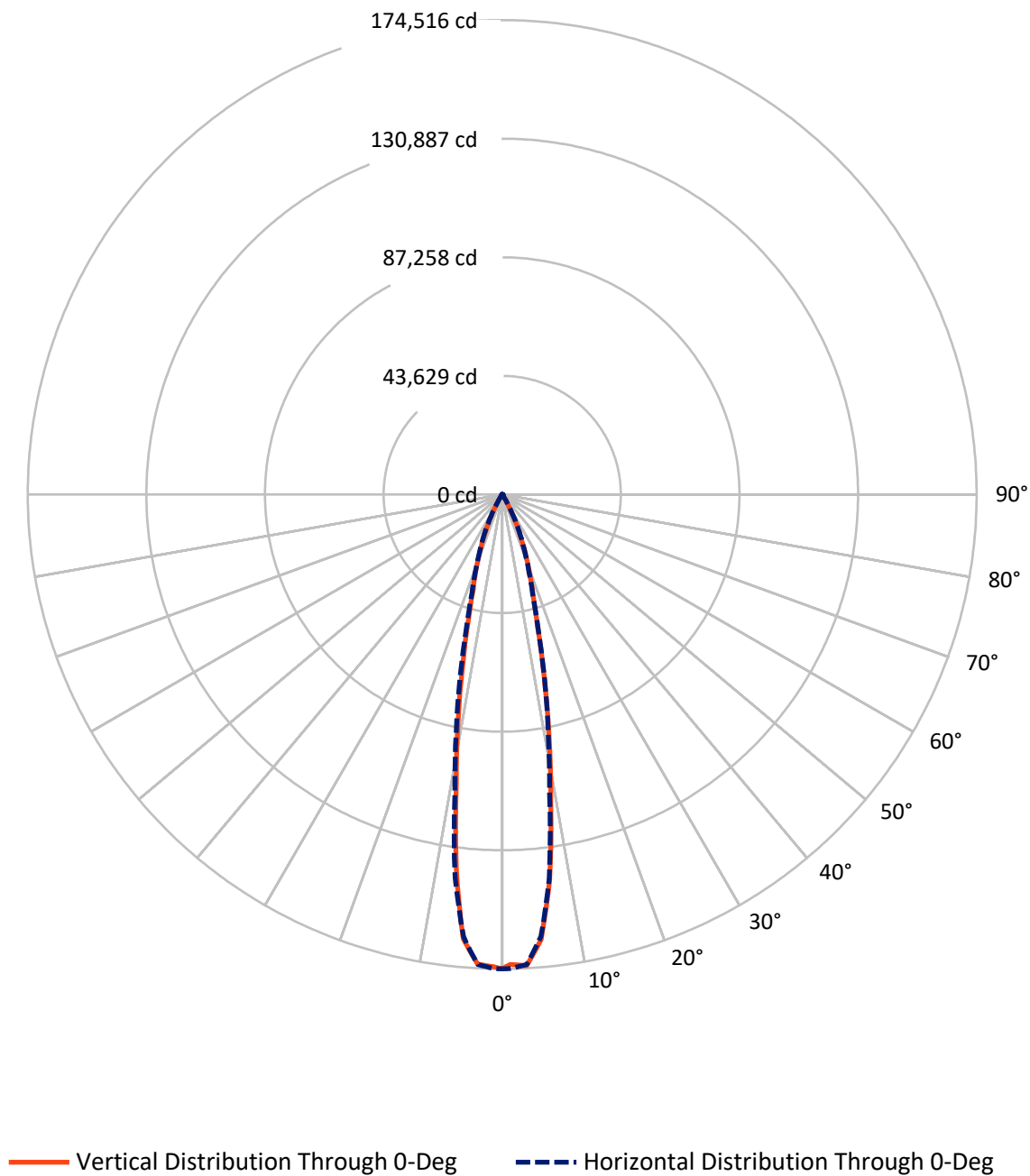
Lumen Table

90																				
80	5.7	14.6		16.5		12.2		6.2		12.2		16.5		14.6		5.7				
70	5.1	2.0	1.6	1.4	1.8	2.9	3.0	1.3	1.3	3.0	2.9	1.8	1.4	1.6	2.0	5.1				
60		1.0	0.5	0.9	2.2	3.4	2.9	1.9	1.9	2.9	3.4	2.2	0.9	0.5	1.0					
50	3.7	0.4	0.1	0.7	2.6	4.7	5.8	5.9	5.9	5.8	4.7	2.6	0.7	0.1	0.4	3.7				
40		0.2	0.0	0.6	4.0	7.8	15.4	26.2	26.2	15.4	7.8	4.0	0.6	0.0	0.2					
30	3.0	0.1	0.0	1.0	5.4	36.1	202.5	390.5	390.5	202.5	36.1	5.4	1.0	0.0	0.1	3.0				
20		0.1	0.1	1.8	12.4	196.7	736.5	1480.1	1480.1	736.5	196.7	12.4	1.8	0.1	0.1					
10	2.8	0.1	0.2	2.6	26.6	372.6	1432.7	3896.1	3896.1	1432.7	372.6	26.6	2.6	0.2	0.1	2.8				
0		0.1	0.2	2.6	26.1	368.2	1410.7	3830.1	3830.1	1410.7	368.2	26.1	2.6	0.2	0.1					
-10	3.0	0.1	0.1	1.9	11.9	186.3	708.0	1411.2	1411.2	708.0	186.3	11.9	1.9	0.1	0.1	3.0				
-20		0.2	0.0	1.0	5.2	32.3	186.7	379.7	379.7	186.7	32.3	5.2	1.0	0.0	0.2					
-30	3.8	0.2	0.0	0.6	3.6	7.5	14.6	28.9	28.9	14.6	7.5	3.6	0.6	0.0	0.2	3.8				
-40		0.5	0.1	0.8	2.5	4.3	5.6	5.8	5.8	5.6	4.3	2.5	0.8	0.1	0.5					
-50	5.2	1.1	0.5	1.0	2.2	3.3	2.9	1.9	1.9	2.9	3.3	2.2	1.0	0.5	1.1	5.2				
-60		2.1	1.6	1.5	1.9	3.0	3.0	1.3	1.3	3.0	3.0	1.9	1.5	1.6	2.1					
-70	5.2	2.1	1.6	1.5	1.9	3.0	3.0	1.3	1.3	3.0	3.0	1.9	1.5	1.6	2.1	5.2				
-80		2.1	1.6	1.5	1.9	3.0	3.0	1.3	1.3	3.0	3.0	1.9	1.5	1.6	2.1					
-90	5.8	14.7		16.8		12.4		6.3		12.4		16.8		14.7		5.8				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
	Horizontal Angle (degrees)																			

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Luminous Intensity Polar Plot

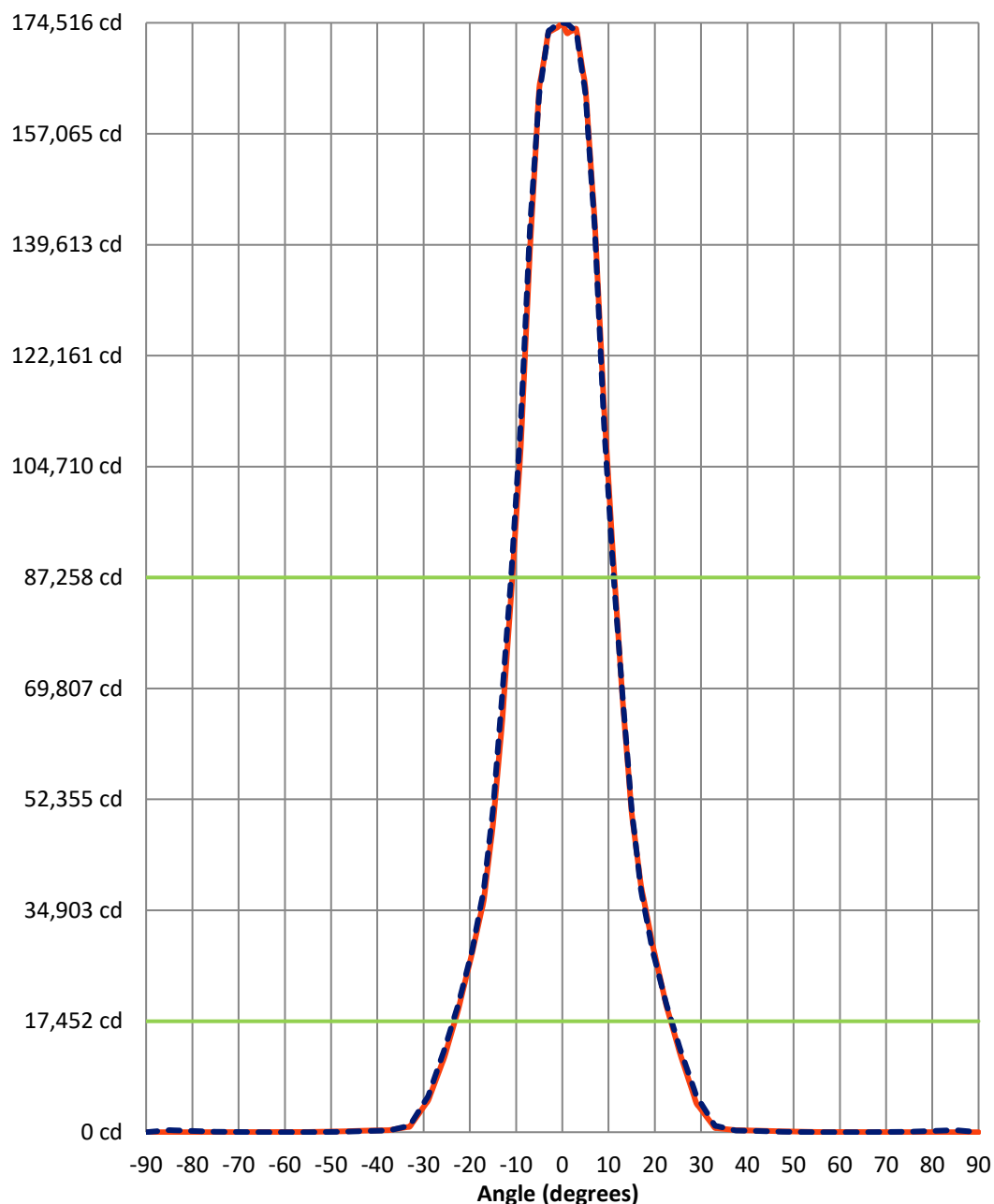




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Luminous Intensity Plot



Beam:

H Angle: 22.2°
V Angle: 22.1°
Lumens: 15276.9
Efficiency: 43.2%

Field:

H Angle: 47.3°
V Angle: 46.7°
Lumens: 30750.1
Efficiency: 86.9%

Spill:

Lumens: 4633.9
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°	1.0	21.3	86.2	112.6	75.1	62.9	73.0	83.2	103.5	122.8	157.3
75°	10.1	12.2	26.4	48.7	69.0	93.3	115.7	121.7	113.6	99.4	81.2
65°	23.3	24.3	28.4	37.5	50.7	63.9	76.1	89.3	105.5	118.7	126.8
55°	35.5	36.5	38.6	44.6	52.8	61.9	70.0	79.1	87.2	96.4	110.6
47.5°	139.0	143.0	144.1	141.0	145.1	152.2	152.2	151.2	150.1	147.1	141.0
42.5°	244.5	246.5	247.5	247.5	247.5	248.6	249.6	247.5	244.5	242.5	234.4
37.5°	317.5	316.5	316.5	315.5	315.5	312.5	309.4	305.4	302.3	297.3	290.2
33°	671.6	651.3	652.3	616.8	576.2	540.7	546.8	503.2	439.3	385.5	338.8
29°	4537.9	4555.2	4498.4	4239.7	4015.5	3572.1	3045.6	2358.8	1700.3	1011.5	661.5
25.5°	12245.2	12088.0	11684.2	11236.8	10409.0	9540.5	8080.6	6887.6	5357.7	4001.3	2422.7
22.5°	19890.6	19822.7	19466.6	18811.2	17652.6	16097.4	14360.5	12345.7	10187.8	7940.6	5368.8
19.5°	29548.8	29138.0	28548.5	27350.4	25658.2	23581.4	20979.2	18548.4	15844.7	12960.5	9248.3
17°	38832.7	38958.5	38107.3	36102.6	33497.3	30751.0	27200.2	23871.6	20468.9	17153.5	12867.1
15°	50180.1	50971.4	48653.2	45606.6	41830.6	37594.0	32947.5	28530.3	24404.2	20404.0	15728.1
13°	68336.9	68367.3	65670.7	59163.6	52833.0	46301.6	39308.5	33681.0	28423.7	23842.2	18356.7
11°	90254.5	88897.1	84836.0	78006.3	69130.2	57699.7	47642.8	39514.4	32928.2	26918.2	20919.4
9°	114211.3	112639.9	106825.7	96270.6	85668.9	71711.2	57860.0	45879.5	37324.1	30234.7	23424.2
7°	143273.2	143070.3	133070.2	118523.0	101517.7	85762.2	68700.1	53018.7	41450.1	33094.6	25262.5
5°	164249.4	164437.1	156714.6	142311.4	118527.1	96155.0	78068.1	60107.1	45488.9	35506.1	26885.7
3°	173560.6	173499.7	169205.3	156928.6	134032.0	105429.7	84729.5	65798.6	48861.2	37198.3	27950.0
1°	172885.0	173697.6	172574.5	162954.9	141296.9	110927.3	87975.9	68424.1	50719.8	38029.2	28523.2
0°	174516.3	174395.6	173163.9	163254.1	142252.6	111586.8	88239.7	68837.0	50761.4	38132.7	28602.3
-1°	173829.5	173800.0	172639.4	162506.4	140748.1	110607.8	87721.3	68360.2	50408.3	37941.9	28468.4
-3°	173016.8	173068.6	168142.1	155938.4	131838.6	104595.7	83895.5	65201.0	48334.7	36883.8	27832.3
-5°	164130.7	162768.2	155546.8	138807.3	116881.6	94811.7	77062.8	59090.6	44719.9	34973.5	26637.2
-7°	138834.7	136953.8	128677.3	114546.1	98270.2	83003.8	66657.9	51604.4	40449.8	32470.6	25025.1
-9°	107664.7	108028.9	101168.7	91888.9	83300.0	69545.2	55191.8	44251.2	36197.0	29512.3	22905.8
-11°	85241.8	85172.8	81534.7	74827.8	65951.8	55180.6	45608.7	38072.8	31957.3	26414.0	20438.5
-13°	64672.5	65341.0	61414.8	56175.9	50812.1	43542.1	37794.8	32433.1	27569.5	23154.3	17804.8
-15°	48412.8	47661.0	46073.3	43536.0	40050.1	35514.2	31465.3	27518.8	23561.2	19692.8	15213.7
-17°	36455.7	37659.9	36264.9	34673.2	32257.6	29220.1	25985.9	22965.6	19585.3	16303.3	12229.0
-19.5°	28213.7	27973.3	27065.3	26299.3	24481.3	22413.7	20041.8	17562.3	15025.0	12121.5	8669.1
-22.5°	19308.3	19230.2	18936.0	18178.1	16600.6	15470.4	13528.6	11519.8	9325.4	7229.5	4848.4
-25.5°	11814.1	11968.3	11653.8	11100.9	10176.6	8909.5	7632.2	6263.6	4747.9	3435.2	2075.7
-29°	5005.6	5089.8	4950.8	4436.5	4078.4	3366.2	2732.1	2115.3	1409.2	855.2	599.6
-33°	870.5	888.7	871.5	771.0	706.1	590.4	545.8	481.9	427.1	376.4	327.7
-37.5°	319.6	319.6	317.5	317.5	318.6	316.5	311.5	306.4	301.3	296.2	289.1
-42.5°	247.5	246.5	245.5	246.5	246.5	247.5	248.6	241.5	239.4	235.4	222.2
-47.5°	133.9	130.9	132.9	135.9	144.1	144.1	141.0	141.0	139.0	130.9	127.8
-55°	36.5	37.5	39.6	45.7	52.8	61.9	71.0	79.1	87.2	96.4	109.6
-65°	24.3	24.3	29.4	38.6	51.7	64.9	77.1	90.3	105.5	119.7	127.8
-75°	10.1	12.2	26.4	48.7	69.0	93.3	115.7	122.8	113.6	100.4	82.2
-85°	3.0	22.3	87.2	112.6	76.1	64.9	74.1	84.2	105.5	124.8	159.3
-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°	198.8	232.3	268.8	304.4	334.8	361.2	371.3	365.2	339.9	327.7	342.9
75°	70.0	68.0	72.0	80.1	94.4	113.6	151.2	207.0	270.9	314.5	338.8
65°	123.8	108.6	88.3	71.0	60.9	56.8	52.8	76.1	152.2	267.8	335.8
55°	124.8	129.9	122.8	101.5	73.0	45.7	26.4	17.2	59.9	204.9	331.7
47.5°	137.0	133.9	126.8	111.6	83.2	47.7	17.2	0.0	28.4	165.4	329.7
42.5°	216.1	193.8	165.4	124.8	85.2	46.7	14.2	0.0	11.2	146.1	328.7
37.5°	280.0	262.8	229.3	172.5	102.5	43.6	7.1	0.0	0.0	128.8	327.7
33°	304.4	286.1	262.8	224.2	125.8	40.6	5.1	0.0	0.0	115.7	326.7
29°	418.0	317.5	269.9	232.3	153.2	56.8	0.0	0.0	0.0	104.5	324.6
25.5°	1088.6	513.3	306.4	234.4	168.4	75.1	0.0	0.0	1.0	96.4	324.6
22.5°	2777.7	1146.4	406.8	244.5	179.6	92.3	3.0	0.0	1.0	90.3	324.6
19.5°	5403.3	2545.4	715.2	280.0	188.7	106.5	9.1	0.0	1.0	84.2	324.6
17°	8090.8	4143.3	1286.4	335.8	198.8	120.7	16.2	0.0	1.0	81.2	324.6
15°	10385.6	5595.1	1881.9	393.6	207.0	131.9	20.3	0.0	1.0	78.1	324.6
13°	12579.0	7150.3	2623.5	461.6	215.1	143.0	28.4	0.0	1.0	76.1	323.6
11°	14571.5	8687.3	3351.0	554.9	226.2	153.2	36.5	0.0	1.0	74.1	323.6
9°	16298.2	10035.6	4040.8	668.6	235.4	162.3	44.6	0.0	1.0	72.0	323.6
7°	17786.5	11210.4	4700.3	792.3	246.5	169.4	51.7	0.0	0.0	71.0	323.6
5°	18926.8	12138.7	5178.1	904.9	256.7	176.5	58.8	0.0	0.0	71.0	323.6
3°	19697.9	12736.3	5523.0	990.2	263.8	179.6	61.9	0.0	0.0	70.0	323.6
1°	20053.0	12993.9	5685.4	1028.7	266.8	182.6	64.9	0.0	0.0	69.0	323.6
0°	20127.0	13010.2	5701.6	1031.8	266.8	181.6	65.9	0.0	0.0	69.0	323.6
-1°	20046.9	12977.7	5670.1	1021.6	265.8	181.6	64.9	0.0	0.0	70.0	323.6
-3°	19606.6	12589.1	5458.1	971.9	261.7	179.6	62.9	0.0	0.0	70.0	323.6
-5°	18767.6	11949.0	5078.7	878.6	253.6	176.5	60.9	0.0	0.0	71.0	323.6
-7°	17537.0	10989.3	4559.2	762.9	245.5	172.5	55.8	0.0	0.0	72.0	323.6
-9°	16016.2	9702.8	3890.7	639.1	238.4	167.4	50.7	0.0	1.0	74.1	323.6
-11°	14118.0	8323.1	3165.3	538.7	231.3	161.3	44.6	0.0	1.0	76.1	324.6
-13°	12059.6	6774.9	2386.1	453.5	224.2	152.2	36.5	0.0	1.0	78.1	324.6
-15°	9824.6	5212.6	1697.3	386.5	215.1	142.0	28.4	0.0	2.0	80.1	324.6
-17°	7554.1	3781.1	1118.0	333.8	204.9	127.8	19.3	0.0	2.0	83.2	324.6
-19.5°	4861.6	2222.8	629.0	278.0	191.7	110.6	11.2	0.0	3.0	87.2	324.6
-22.5°	2436.9	999.3	386.5	239.4	175.5	89.3	3.0	0.0	4.1	93.3	325.7
-25.5°	935.4	462.6	296.2	228.3	162.3	68.0	0.0	0.0	4.1	100.4	325.7
-29°	392.6	307.4	263.8	222.2	137.0	46.7	1.0	0.0	5.1	109.6	326.7
-33°	300.3	278.0	250.6	204.9	108.6	31.5	4.1	0.0	5.1	120.7	327.7
-37.5°	274.9	253.6	217.1	152.2	84.2	37.5	9.1	0.0	6.1	134.9	328.7
-42.5°	203.9	179.6	150.1	114.6	80.1	45.7	17.2	0.0	18.3	153.2	330.7
-47.5°	123.8	124.8	118.7	106.5	82.2	50.7	24.3	0.0	35.5	173.5	331.7
-55°	122.8	127.8	120.7	100.4	75.1	50.7	35.5	19.3	68.0	214.1	334.8
-65°	124.8	111.6	91.3	75.1	65.9	63.9	59.9	76.1	156.2	277.0	337.8
-75°	72.0	71.0	76.1	84.2	99.4	118.7	152.2	207.0	274.9	322.6	341.9
-85°	200.9	234.4	270.9	306.4	336.8	361.2	371.3	364.2	342.9	335.8	347.0
-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)