

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: P507801

Luminaire Tested: **UFLD-L-CA4-280-722-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507801
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-CA4-280-722-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	28333 lumens	Max Intensity:	139740.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	101.1 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:	12232.7 lumens	Field Lumens:	24622.5 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

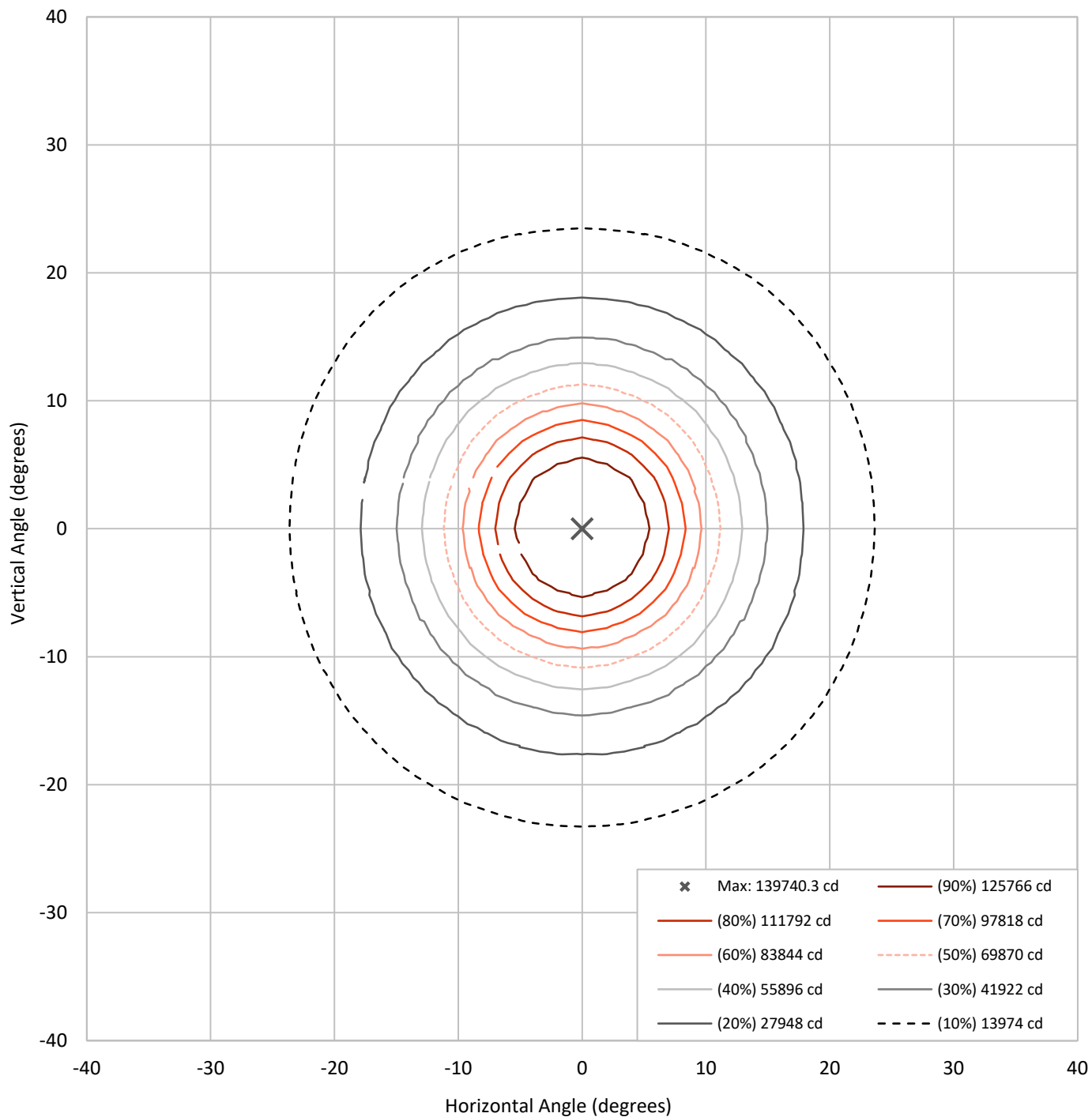
Input Watts (W): 280.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot



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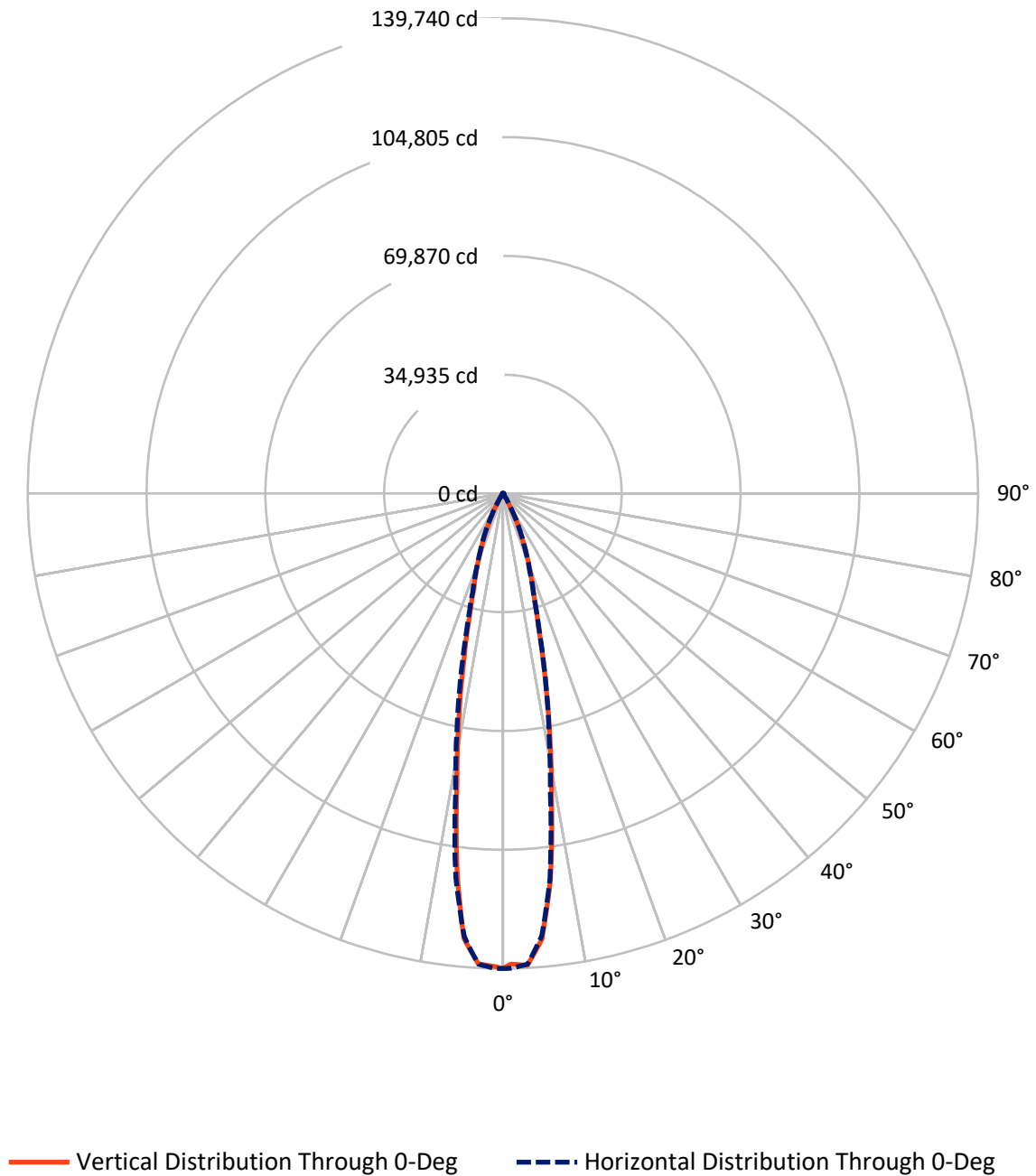
Lumen Table

Vertical Angle (degrees)																	
	-80		-60		-40		-20		0		20		40		60		
90	4.6		11.7		13.2		9.8		5.0		9.8		13.2		11.7		
80	4.6		11.7		13.2		9.8		5.0		9.8		13.2		11.7		
70	4.1		1.6	1.2	1.1	1.5	2.4	2.4	1.0	1.0	2.4	2.4	1.5	1.1	1.2	1.6	
60			0.8	0.4	0.7	1.8	2.7	2.4	1.5	1.5	2.4	2.7	1.8	0.7	0.4	0.8	
50	2.9		0.3	0.1	0.6	2.1	3.7	4.6	4.8	4.8	4.6	3.7	2.1	0.6	0.1	0.3	
40			0.1	0.0	0.5	3.2	6.2	12.3	21.0	21.0	12.3	6.2	3.2	0.5	0.0	0.1	
30	2.4		0.1	0.0	0.8	4.3	28.9	162.2	312.6	312.6	162.2	28.9	4.3	0.8	0.0	0.1	
20			0.1	0.1	1.4	9.9	157.5	589.7	1185.1	1185.1	589.7	157.5	9.9	1.4	0.1	0.1	
10	2.2		0.1	0.1	2.1	21.3	298.3	1147.2	3119.7	3119.7	1147.2	298.3	21.3	2.1	0.1	0.1	
0			0.1	0.1	2.1	20.9	294.9	1129.6	3066.9	3066.9	1129.6	294.9	20.9	2.1	0.1	0.1	
-10	2.4		0.1	0.1	1.5	9.5	149.2	566.9	1130.0	1130.0	566.9	149.2	9.5	1.5	0.1	0.1	
-20			0.1	0.0	0.8	4.2	25.9	149.5	304.1	304.1	149.5	25.9	4.2	0.8	0.0	0.1	
-30	3.0		0.2	0.0	0.4	2.9	6.0	11.7	23.1	23.1	11.7	6.0	2.9	0.4	0.0	0.2	
-40			0.4	0.1	0.6	2.0	3.5	4.4	4.7	4.7	4.4	3.5	2.0	0.6	0.1	0.4	
-50	4.2		0.9	0.4	0.8	1.8	2.7	2.3	1.5	1.5	2.3	2.7	1.8	0.8	0.4	0.9	
-60			1.7	1.3	1.2	1.5	2.4	2.4	1.1	1.1	2.4	2.4	1.5	1.2	1.3	1.7	
-70	4.7		11.8		13.4		9.9		5.0		9.9		13.4		11.8		
-80			11.8		13.4		9.9		5.0		9.9		13.4		11.8		
-90	4.7		11.8		13.4		9.9		5.0		9.9		13.4		11.8		
	Horizontal Angle (degrees)																

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Luminous Intensity Polar Plot

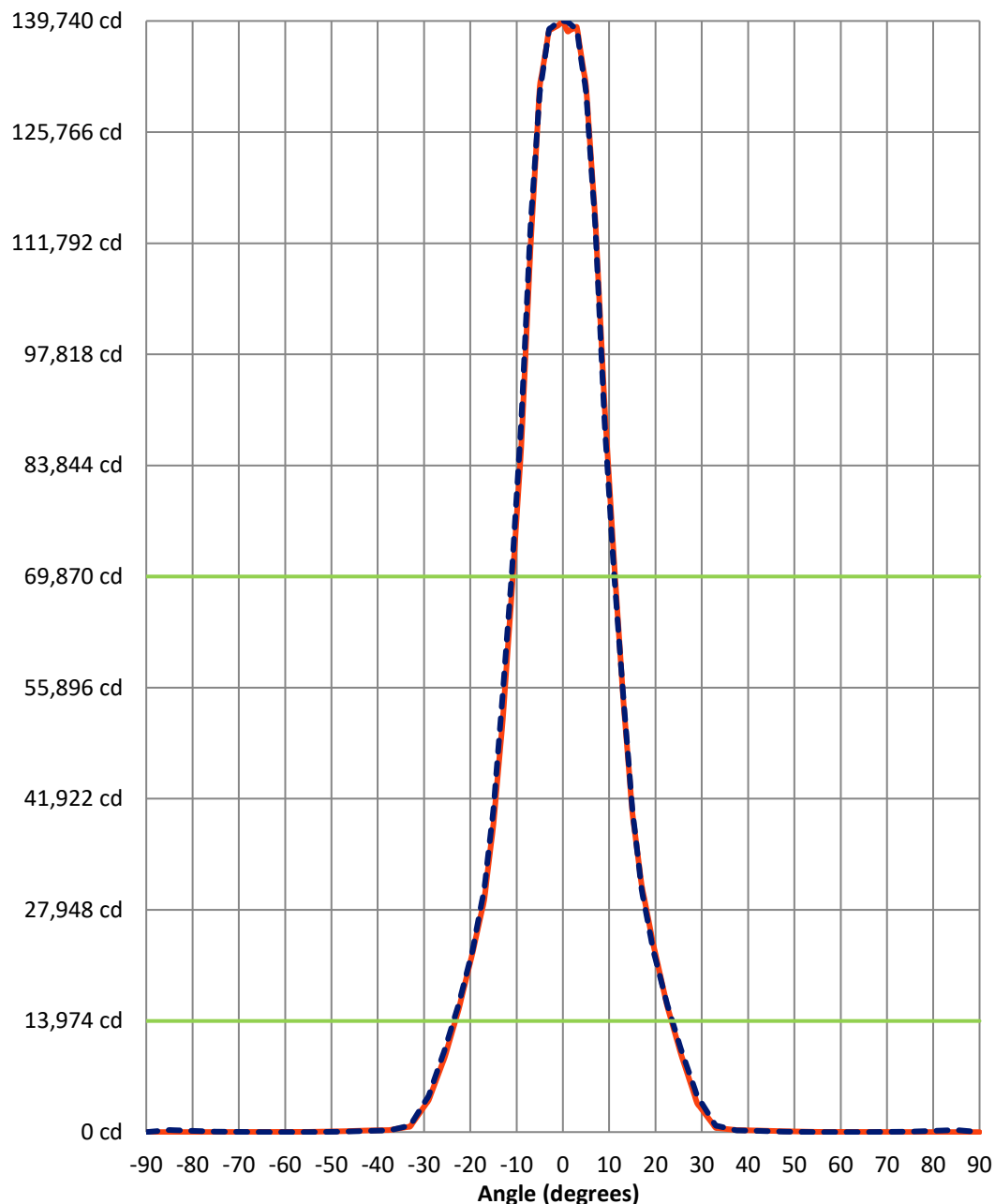




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Luminous Intensity Plot



Beam:
H Angle: 22.2°
V Angle: 22.1°
Lumens: 12232.7
Efficiency: 43.2%

Field:
H Angle: 47.3°
V Angle: 46.7°
Lumens: 24622.5
Efficiency: 86.9%

Spill:
Lumens: 3710.5
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	17.1	69.1	90.2	60.1	50.4	58.5	66.6	82.9	98.3	125.9
75°	8.1	9.7	21.1	39.0	55.2	74.7	92.6	97.5	91.0	79.6	65.0
65°	18.7	19.5	22.7	30.1	40.6	51.2	60.9	71.5	84.5	95.0	101.5
55°	28.4	29.2	30.9	35.7	42.2	49.6	56.1	63.4	69.9	77.2	88.5
47.5°	111.3	114.5	115.4	112.9	116.2	121.9	121.9	121.0	120.2	117.8	112.9
42.5°	195.8	197.4	198.2	198.2	198.2	199.0	199.8	198.2	195.8	194.2	187.7
37.5°	254.3	253.5	253.5	252.6	252.6	250.2	247.8	244.5	242.1	238.0	232.3
33°	537.8	521.5	522.3	493.9	461.4	433.0	437.9	402.9	351.7	308.7	271.3
29°	3633.7	3647.5	3602.0	3394.8	3215.3	2860.3	2438.7	1888.7	1361.5	809.9	529.7
25.5°	9805.1	9679.2	9355.9	8997.6	8334.7	7639.4	6470.4	5515.1	4290.0	3203.9	1939.9
22.5°	15927.0	15872.6	15587.4	15062.7	14135.0	12889.6	11498.9	9885.5	8157.7	6358.3	4299.0
19.5°	23660.6	23331.6	22859.6	21900.2	20545.2	18882.4	16798.7	14852.3	12687.3	10377.8	7405.4
17°	31094.5	31195.2	30513.6	28908.4	26822.3	24623.3	21780.0	19114.7	16390.0	13735.3	10303.1
15°	40180.6	40814.3	38958.0	36518.6	33495.0	30102.6	26382.0	22845.0	19541.2	16338.1	12593.9
13°	54719.3	54743.7	52584.5	47374.0	42304.9	37075.0	31475.5	26969.3	22759.7	19091.1	14698.7
11°	72269.4	71182.5	67930.6	62461.9	55354.6	46201.8	38148.9	31640.4	26366.6	21554.2	16750.7
9°	91452.4	90194.0	85538.4	77086.7	68597.6	57421.2	46330.2	36737.1	29886.5	24209.8	18756.4
7°	114723.0	114560.6	106553.2	94904.9	81288.2	68672.3	55010.2	42453.6	33190.3	26499.8	20228.4
5°	131519.3	131669.5	125485.9	113952.9	94908.1	76994.1	62511.4	48129.5	36424.3	28430.8	21528.2
3°	138975.0	138926.3	135487.6	125657.3	107323.3	84420.6	67845.3	52686.8	39124.6	29785.8	22380.3
1°	138434.0	139084.7	138185.4	130482.7	113140.6	88822.8	70444.9	54789.2	40612.8	30451.1	22839.3
0°	139740.3	139643.6	138657.4	130722.3	113905.8	89350.8	70656.1	55119.8	40646.1	30533.9	22902.7
-1°	139190.3	139166.8	138237.4	130123.6	112701.1	88566.9	70241.0	54738.0	40363.4	30381.2	22795.5
-3°	138539.6	138581.1	134636.3	124864.5	105567.0	83752.9	67177.6	52208.4	38703.0	29533.9	22286.1
-5°	131424.2	130333.2	124550.9	111147.1	93590.5	75918.5	61706.4	47315.5	35808.6	28004.3	21329.2
-7°	111169.0	109662.9	103035.7	91720.4	78687.8	66463.5	53374.9	41321.2	32389.4	26000.2	20038.3
-9°	86210.2	86501.9	81008.7	73578.1	66700.7	55686.9	44193.7	35433.2	28984.0	23631.4	18341.3
-11°	68255.6	68200.3	65287.2	59916.8	52809.5	44184.7	36520.2	30486.0	25589.1	21150.4	16365.7
-13°	51785.1	52320.5	49176.6	44981.7	40686.7	34865.4	30263.4	25970.1	22075.7	18540.4	14256.8
-15°	38765.5	38163.6	36892.2	34860.5	32069.3	28437.3	25195.2	22035.1	18866.1	15768.6	12182.1
-17°	29191.1	30155.4	29038.4	27763.8	25829.6	23397.4	20807.6	18389.3	15682.5	13054.5	9792.1
-19.5°	22591.6	22399.0	21672.0	21058.6	19602.9	17947.3	16048.0	14062.7	12031.0	9706.0	6941.6
-22.5°	15460.7	15398.2	15162.6	14555.8	13292.5	12387.6	10832.7	9224.3	7467.2	5788.8	3882.2
-25.5°	9459.9	9583.3	9331.5	8888.8	8148.7	7134.1	6111.3	5015.5	3801.8	2750.6	1662.1
-29°	4008.2	4075.6	3964.3	3552.4	3265.7	2695.4	2187.7	1693.8	1128.4	684.8	480.1
-33°	697.0	711.6	697.8	617.4	565.4	472.8	437.0	385.9	342.0	301.4	262.4
-37.5°	255.9	255.9	254.3	254.3	255.1	253.5	249.4	245.3	241.3	237.2	231.5
-42.5°	198.2	197.4	196.6	197.4	197.4	198.2	199.0	193.3	191.7	188.5	177.9
-47.5°	107.2	104.8	106.4	108.9	115.4	115.4	112.9	112.9	111.3	104.8	102.4
-55°	29.2	30.1	31.7	36.6	42.2	49.6	56.9	63.4	69.9	77.2	87.7
-65°	19.5	19.5	23.6	30.9	41.4	52.0	61.7	72.3	84.5	95.9	102.4
-75°	8.1	9.7	21.1	39.0	55.2	74.7	92.6	98.3	91.0	80.4	65.8
-85°	2.4	17.9	69.9	90.2	60.9	52.0	59.3	67.4	84.5	99.9	127.5
-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°	159.2	186.0	215.3	243.7	268.1	289.2	297.3	292.4	272.1	262.4	274.6
75°	56.1	54.4	57.7	64.2	75.5	91.0	121.0	165.7	216.9	251.8	271.3
65°	99.1	86.9	70.7	56.9	48.7	45.5	42.2	60.9	121.9	214.5	268.9
55°	99.9	104.0	98.3	81.2	58.5	36.6	21.1	13.8	47.9	164.1	265.6
47.5°	109.7	107.2	101.5	89.4	66.6	38.2	13.8	0.0	22.7	132.4	264.0
42.5°	173.0	155.2	132.4	99.9	68.2	37.4	11.4	0.0	8.9	117.0	263.2
37.5°	224.2	210.4	183.6	138.1	82.0	34.9	5.7	0.0	0.0	103.2	262.4
33°	243.7	229.1	210.4	179.5	100.7	32.5	4.1	0.0	0.0	92.6	261.6
29°	334.7	254.3	216.1	186.0	122.7	45.5	0.0	0.0	0.0	83.7	260.0
25.5°	871.7	411.1	245.3	187.7	134.9	60.1	0.0	0.0	0.8	77.2	260.0
22.5°	2224.2	918.0	325.8	195.8	143.8	73.9	2.4	0.0	0.8	72.3	260.0
19.5°	4326.6	2038.2	572.7	224.2	151.1	85.3	7.3	0.0	0.8	67.4	260.0
17°	6478.5	3317.7	1030.1	268.9	159.2	96.7	13.0	0.0	0.8	65.0	260.0
15°	8316.1	4480.1	1506.9	315.2	165.7	105.6	16.2	0.0	0.8	62.6	260.0
13°	10072.4	5725.5	2100.7	369.6	172.2	114.5	22.7	0.0	0.8	60.9	259.1
11°	11667.8	6956.2	2683.2	444.4	181.2	122.7	29.2	0.0	0.8	59.3	259.1
9°	13050.5	8035.8	3235.6	535.3	188.5	130.0	35.7	0.0	0.8	57.7	259.1
7°	14242.2	8976.5	3763.6	634.4	197.4	135.7	41.4	0.0	0.0	56.9	259.1
5°	15155.3	9719.8	4146.3	724.6	205.5	141.3	47.1	0.0	0.0	56.9	259.1
3°	15772.7	10198.3	4422.5	792.9	211.2	143.8	49.6	0.0	0.0	56.1	259.1
1°	16057.0	10404.6	4552.4	823.7	213.6	146.2	52.0	0.0	0.0	55.2	259.1
0°	16116.3	10417.6	4565.4	826.2	213.6	145.4	52.8	0.0	0.0	55.2	259.1
-1°	16052.1	10391.6	4540.2	818.0	212.8	145.4	52.0	0.0	0.0	56.1	259.1
-3°	15699.5	10080.5	4370.5	778.2	209.6	143.8	50.4	0.0	0.0	56.1	259.1
-5°	15027.7	9567.9	4066.6	703.5	203.1	141.3	48.7	0.0	0.0	56.9	259.1
-7°	14042.3	8799.4	3650.7	610.9	196.6	138.1	44.7	0.0	0.0	57.7	259.1
-9°	12824.6	7769.4	3115.4	511.8	190.9	134.0	40.6	0.0	0.8	59.3	259.1
-11°	11304.7	6664.6	2534.5	431.4	185.2	129.2	35.7	0.0	0.8	60.9	260.0
-13°	9656.4	5424.9	1910.7	363.1	179.5	121.9	29.2	0.0	0.8	62.6	260.0
-15°	7866.8	4173.9	1359.1	309.5	172.2	113.7	22.7	0.0	1.6	64.2	260.0
-17°	6048.8	3027.6	895.2	267.3	164.1	102.4	15.4	0.0	1.6	66.6	260.0
-19.5°	3892.8	1779.9	503.7	222.6	153.5	88.5	8.9	0.0	2.4	69.9	260.0
-22.5°	1951.3	800.2	309.5	191.7	140.5	71.5	2.4	0.0	3.2	74.7	260.8
-25.5°	749.0	370.4	237.2	182.8	130.0	54.4	0.0	0.0	3.2	80.4	260.8
-29°	314.4	246.1	211.2	177.9	109.7	37.4	0.8	0.0	4.1	87.7	261.6
-33°	240.5	222.6	200.7	164.1	86.9	25.2	3.2	0.0	4.1	96.7	262.4
-37.5°	220.1	203.1	173.8	121.9	67.4	30.1	7.3	0.0	4.9	108.0	263.2
-42.5°	163.3	143.8	120.2	91.8	64.2	36.6	13.8	0.0	14.6	122.7	264.8
-47.5°	99.1	99.9	95.0	85.3	65.8	40.6	19.5	0.0	28.4	138.9	265.6
-55°	98.3	102.4	96.7	80.4	60.1	40.6	28.4	15.4	54.4	171.4	268.1
-65°	99.9	89.4	73.1	60.1	52.8	51.2	47.9	60.9	125.1	221.8	270.5
-75°	57.7	56.9	60.9	67.4	79.6	95.0	121.9	165.7	220.1	258.3	273.8
-85°	160.8	187.7	216.9	245.3	269.7	289.2	297.3	291.6	274.6	268.9	277.8
-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)