

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623302

Luminaire Tested: **IFLD-S-SA6D-722-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	34969.8 lumens	Max Intensity:	113076.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	12617.7 lumens	Field Lumens:	21306.8 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

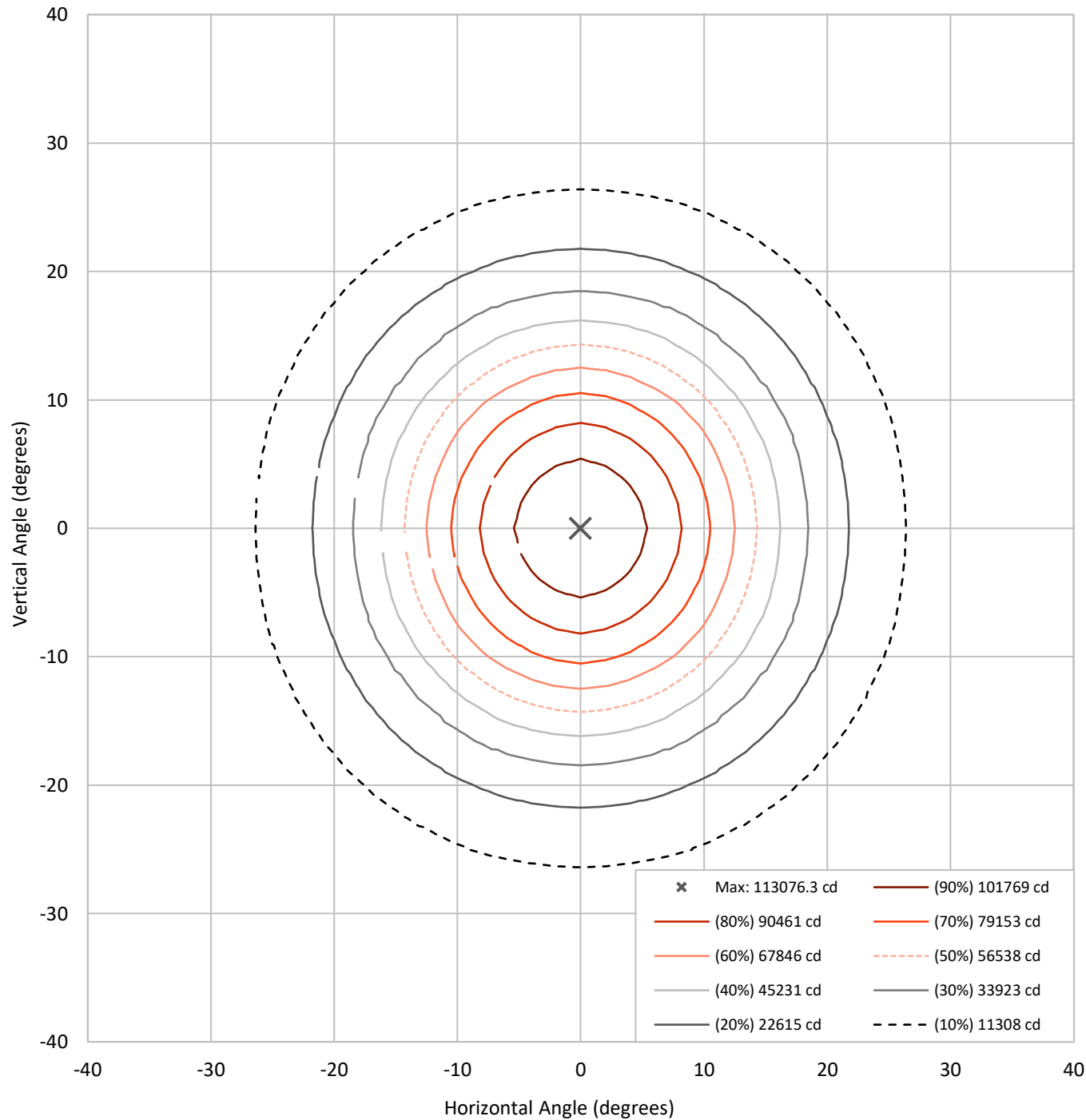
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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Iso-Candela Plot



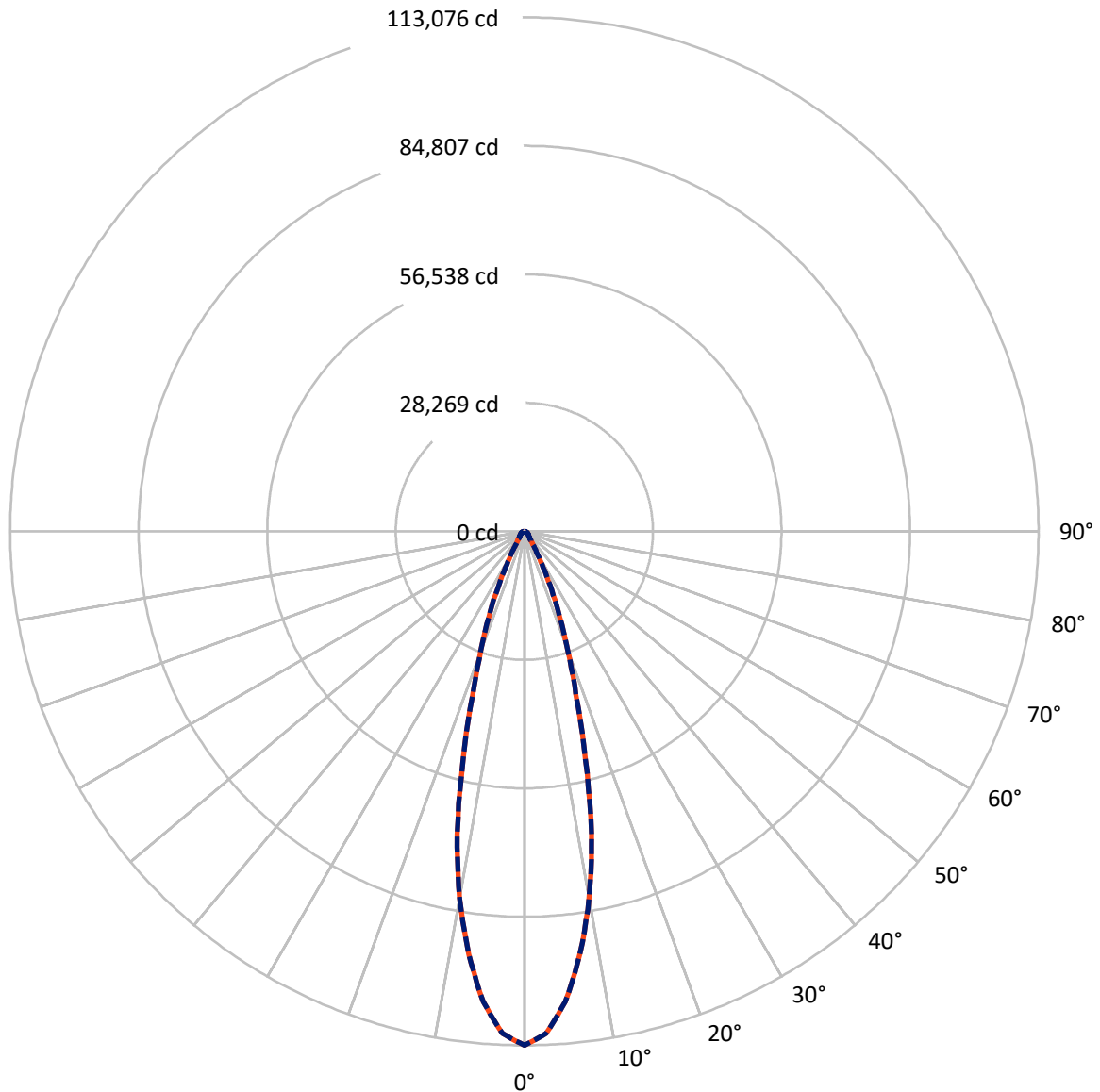
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Lumen Table

90																				
80	0.8		5.9		15.1		24.0		27.8		24.0		15.1		5.9		0.8			
70	2.7		2.8	5.8	9.6	13.4	16.9	19.5	20.9	20.9	19.5	16.9	13.4	9.6	5.8	2.8	2.7			
60			4.3	8.8	14.2	19.6	24.4	28.0	29.9	29.9	28.0	24.4	19.6	14.2	8.8	4.3				
50	4.6		5.8	11.5	18.2	25.0	31.8	37.9	41.8	41.8	37.9	31.8	25.0	18.2	11.5	5.8	4.6			
40			7.0	13.8	21.6	31.1	44.2	64.6	86.0	86.0	64.6	44.2	31.1	21.6	13.8	7.0				
30	6.1		8.0	15.5	24.9	40.1	83.9	230.1	416.7	416.7	230.1	83.9	40.1	24.9	15.5	8.0	6.1			
20			8.6	16.7	27.9	55.1	217.2	746.9	1440.7	1440.7	746.9	217.2	55.1	27.9	16.7	8.6				
10	6.7		9.0	17.3	29.8	71.4	382.6	1401.7	2763.3	2763.3	1401.7	382.6	71.4	29.8	17.3	9.0	6.7			
0			9.0	17.3	29.8	71.4	382.6	1401.7	2763.3	2763.3	1401.7	382.6	71.4	29.8	17.3	9.0				
-10	6.1		8.6	16.7	27.9	55.1	217.2	746.9	1440.7	1440.7	746.9	217.2	55.1	27.9	16.7	8.6	6.1			
-20			8.0	15.5	24.9	40.1	83.9	230.1	416.7	416.7	230.1	83.9	40.1	24.9	15.5	8.0				
-30	4.6		7.0	13.8	21.6	31.1	44.2	64.6	86.0	86.0	64.6	44.2	31.1	21.6	13.8	7.0	4.6			
-40			5.8	11.5	18.2	25.0	31.8	37.9	41.8	41.8	37.9	31.8	25.0	18.2	11.5	5.8				
-50	2.7		4.3	8.8	14.2	19.6	24.4	28.0	29.9	29.9	28.0	24.4	19.6	14.2	8.8	4.3	2.7			
-60			2.8	5.8	9.6	13.4	16.9	19.5	20.9	20.9	19.5	16.9	13.4	9.6	5.8	2.8				
-70																				
-80	0.8		5.9		15.1		24.0		27.8		24.0		15.1		5.9		0.8			
-90																				
	-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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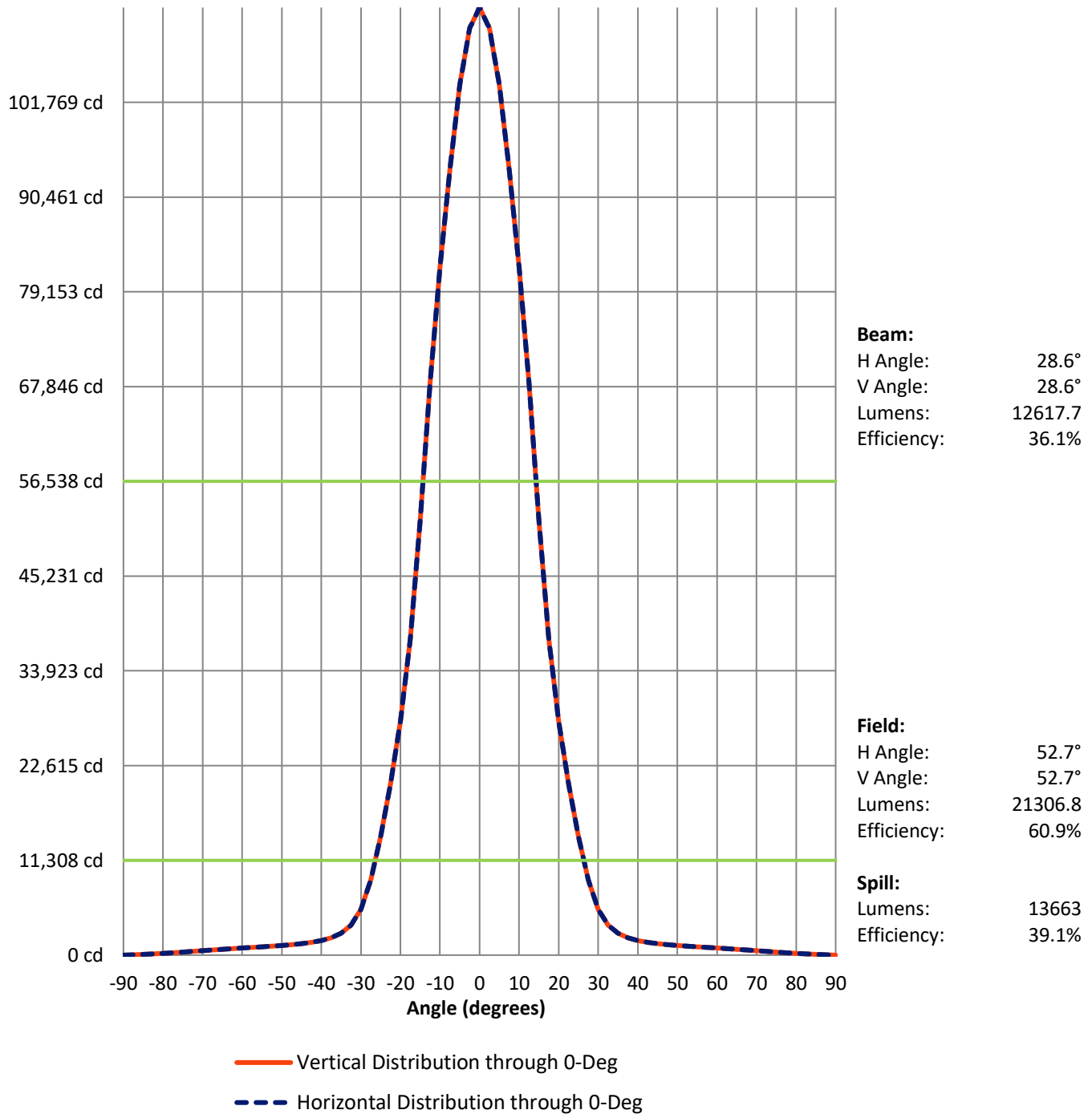
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	36.5	36.5	36.5	36.5
85°	91.1	91.1	91.1	91.1	91.1	87.5	87.5	87.5	83.9	83.9	80.2
82.5°	145.8	145.8	145.8	145.8	142.2	142.2	138.5	138.5	134.9	134.9	131.3
80°	207.8	207.8	207.8	207.8	204.2	200.5	200.5	196.9	193.2	189.6	185.9
77.5°	280.7	280.7	280.7	277.1	273.4	273.4	269.8	262.5	258.9	251.6	247.9
75°	361.0	361.0	361.0	357.3	353.7	350.0	342.7	339.1	331.8	324.5	313.6
72.5°	448.5	448.5	448.5	444.8	437.5	433.9	426.6	419.3	412.0	401.1	390.1
70°	532.3	532.3	532.3	525.0	521.4	514.1	506.8	499.5	488.6	477.6	466.7
67.5°	616.2	616.2	616.2	608.9	605.2	597.9	590.6	579.7	568.8	554.2	543.3
65°	692.7	692.7	689.1	685.4	681.8	674.5	663.6	656.3	645.3	630.8	616.2
62.5°	772.9	772.9	769.3	765.7	758.4	751.1	740.1	729.2	714.6	700.0	685.4
60°	853.2	853.2	849.5	845.9	838.6	827.6	816.7	805.8	791.2	772.9	754.7
57.5°	918.8	918.8	915.1	911.5	904.2	896.9	886.0	875.0	860.5	845.9	824.0
55°	988.1	988.1	984.4	977.1	969.8	962.5	951.6	937.0	922.4	904.2	889.6
52.5°	1068.3	1068.3	1064.6	1057.3	1046.4	1035.5	1020.9	1002.6	984.4	966.2	944.3
50°	1148.5	1148.5	1141.2	1133.9	1126.6	1112.0	1097.4	1079.2	1057.3	1035.5	1009.9
47.5°	1246.9	1246.9	1239.6	1228.7	1214.1	1199.5	1177.7	1152.1	1130.3	1104.7	1075.6
45°	1367.2	1367.2	1356.3	1345.4	1327.1	1301.6	1276.1	1246.9	1214.1	1181.3	1144.8
42.5°	1524.0	1524.0	1509.4	1491.2	1465.7	1432.9	1392.8	1352.7	1312.6	1268.8	1225.0
40°	1735.5	1735.5	1713.6	1688.1	1648.0	1600.6	1542.2	1487.6	1432.9	1370.9	1316.2
37.5°	2067.3	2067.3	2030.8	1983.4	1917.8	1837.6	1739.1	1666.2	1582.4	1502.1	1429.2
35°	2610.5	2610.5	2544.9	2461.0	2344.4	2198.5	2041.7	1917.8	1779.2	1666.2	1560.5
32.5°	3576.7	3576.7	3445.4	3281.4	3059.0	2774.6	2512.1	2293.3	2067.3	1892.3	1724.5
30°	5447.1	5447.1	5166.3	4820.0	4342.4	3744.4	3296.0	2876.7	2493.8	2205.8	1961.5
27.5°	8958.2	8812.3	8374.8	7656.6	6672.1	5447.1	4666.9	3780.9	3175.6	2625.1	2286.0
25°	14142.7	13902.1	13180.2	12002.6	10398.3	8579.0	6985.7	5304.9	4243.9	3328.8	2698.0
22.5°	20443.0	20111.2	19130.4	17529.9	15360.5	12939.6	10361.9	7944.6	5793.5	4400.7	3328.8
20°	27902.7	27457.9	26141.7	24005.1	21132.1	18051.2	14609.4	11371.8	8269.1	5793.5	4243.9
17.5°	37750.4	37072.3	35077.9	31869.5	27902.7	23749.9	19447.6	15269.4	11371.8	7944.6	5304.9
15°	51907.8	50762.9	47415.9	42100.1	35923.8	30134.0	24646.8	19447.6	14609.4	10361.9	6985.7
12.5°	68274.6	66681.3	62069.1	54875.6	46482.6	37327.5	30134.0	23749.9	18051.2	12939.6	8579.0
10°	82063.7	80382.9	75617.6	68402.2	57759.6	46482.6	35923.8	27902.7	21132.1	15360.5	10398.3
7.5°	93712.6	91831.2	86694.0	78800.5	68402.2	54875.6	42100.1	31869.5	24005.1	17529.9	12002.6
5°	103830.1	101445.7	95466.3	86694.0	75617.6	62069.1	47415.9	35077.9	26141.7	19130.4	13180.2
2.5°	110589.8	107789.7	101445.7	91831.2	80382.9	66681.3	50762.9	37072.3	27457.9	20111.2	13902.1
0°	113076.3	110589.8	103830.1	93712.6	82063.7	68274.6	51907.8	37750.4	27902.7	20443.0	14142.7

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.5	36.5	32.8	32.8	32.8	29.2	29.2	29.2	25.5	25.5	25.5
85°	80.2	76.6	76.6	72.9	69.3	65.6	65.6	62.0	58.3	54.7	51.0
82.5°	127.6	124.0	120.3	116.7	113.0	105.7	102.1	98.4	91.1	87.5	83.9
80°	178.7	175.0	167.7	164.1	156.8	149.5	142.2	134.9	127.6	120.3	113.0
77.5°	240.6	229.7	222.4	215.1	204.2	196.9	185.9	178.7	167.7	156.8	145.8
75°	306.3	295.3	284.4	273.4	262.5	247.9	237.0	222.4	211.5	196.9	185.9
72.5°	379.2	364.6	350.0	335.4	320.8	306.3	291.7	273.4	258.9	240.6	222.4
70°	452.1	437.5	422.9	404.7	386.5	368.2	350.0	328.1	309.9	288.0	266.2
67.5°	528.7	510.4	492.2	474.0	455.7	433.9	408.3	386.5	361.0	335.4	313.6
65°	601.6	583.4	561.5	539.6	517.7	495.9	470.3	444.8	415.6	386.5	361.0
62.5°	667.2	649.0	630.8	605.2	583.4	557.8	532.3	499.5	470.3	441.2	408.3
60°	736.5	714.6	692.7	667.2	641.7	616.2	587.0	554.2	525.0	488.6	455.7
57.5°	802.1	780.2	754.7	729.2	700.0	670.9	641.7	608.9	576.1	539.6	503.1
55°	867.7	845.9	820.3	791.2	758.4	725.5	692.7	659.9	627.1	587.0	546.9
52.5°	922.4	900.6	875.0	853.2	816.7	783.9	747.4	707.3	670.9	630.8	590.6
50°	980.8	955.2	926.1	900.6	871.4	838.6	798.5	758.4	714.6	674.5	630.8
47.5°	1046.4	1013.6	980.8	948.0	918.8	882.3	849.5	805.8	762.0	714.6	670.9
45°	1112.0	1075.6	1039.1	999.0	962.5	926.1	889.6	853.2	805.8	758.4	707.3
42.5°	1181.3	1137.5	1097.4	1057.3	1013.6	969.8	929.7	889.6	849.5	798.5	747.4
40°	1261.5	1210.5	1159.4	1112.0	1068.3	1017.2	969.8	926.1	882.3	838.6	783.9
37.5°	1352.7	1290.7	1228.7	1170.4	1115.7	1068.3	1013.6	962.5	918.8	871.4	816.7
35°	1469.3	1378.2	1305.3	1232.3	1170.4	1112.0	1057.3	999.0	948.0	900.6	853.2
32.5°	1600.6	1487.6	1389.1	1305.3	1228.7	1159.4	1097.4	1039.1	980.8	926.1	875.0
30°	1761.0	1615.2	1487.6	1378.2	1290.7	1210.5	1137.5	1075.6	1013.6	955.2	900.6
27.5°	1987.1	1761.0	1600.6	1469.3	1352.7	1261.5	1181.3	1112.0	1046.4	980.8	922.4
25°	2286.0	1961.5	1724.5	1560.5	1429.2	1316.2	1225.0	1144.8	1075.6	1009.9	944.3
22.5°	2625.1	2205.8	1892.3	1666.2	1502.1	1370.9	1268.8	1181.3	1104.7	1035.5	966.2
20°	3175.6	2493.8	2067.3	1779.2	1582.4	1432.9	1312.6	1214.1	1130.3	1057.3	984.4
17.5°	3780.9	2876.7	2293.3	1917.8	1666.2	1487.6	1352.7	1246.9	1152.1	1079.2	1002.6
15°	4666.9	3296.0	2512.1	2041.7	1739.1	1542.2	1392.8	1276.1	1177.7	1097.4	1020.9
12.5°	5447.1	3744.4	2774.6	2198.5	1837.6	1600.6	1432.9	1301.6	1199.5	1112.0	1035.5
10°	6672.1	4342.4	3059.0	2344.4	1917.8	1648.0	1465.7	1327.1	1214.1	1126.6	1046.4
7.5°	7656.6	4820.0	3281.4	2461.0	1983.4	1688.1	1491.2	1345.4	1228.7	1133.9	1057.3
5°	8374.8	5166.3	3445.4	2544.9	2030.8	1713.6	1509.4	1356.3	1239.6	1141.2	1064.6
2.5°	8812.3	5447.1	3576.7	2610.5	2067.3	1735.5	1524.0	1367.2	1246.9	1148.5	1068.3
0°	8958.2	5447.1	3576.7	2610.5	2067.3	1735.5	1524.0	1367.2	1246.9	1148.5	1068.3

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	21.9	18.2	18.2	18.2	14.6	14.6	10.9	10.9	7.3	7.3
85°	47.4	43.8	40.1	36.5	32.8	29.2	29.2	25.5	21.9	18.2	14.6
82.5°	76.6	72.9	65.6	58.3	54.7	47.4	40.1	36.5	32.8	25.5	21.9
80°	105.7	98.4	91.1	83.9	76.6	65.6	58.3	51.0	40.1	32.8	29.2
77.5°	138.5	127.6	116.7	105.7	94.8	87.5	76.6	65.6	54.7	43.8	32.8
75°	171.4	156.8	145.8	131.3	120.3	105.7	91.1	80.2	69.3	54.7	40.1
72.5°	207.8	189.6	175.0	156.8	142.2	127.6	109.4	94.8	80.2	65.6	51.0
70°	247.9	226.1	204.2	185.9	167.7	145.8	127.6	109.4	91.1	76.6	58.3
67.5°	288.0	262.5	237.0	211.5	189.6	167.7	145.8	127.6	105.7	87.5	65.6
65°	328.1	299.0	273.4	244.3	215.1	189.6	167.7	142.2	120.3	94.8	76.6
62.5°	371.9	339.1	306.3	273.4	244.3	211.5	185.9	156.8	131.3	105.7	83.9
60°	419.3	382.8	342.7	306.3	273.4	237.0	204.2	175.0	145.8	116.7	91.1
57.5°	463.0	422.9	382.8	339.1	299.0	262.5	226.1	189.6	156.8	127.6	98.4
55°	506.8	463.0	419.3	371.9	328.1	288.0	247.9	207.8	171.4	138.5	105.7
52.5°	546.9	503.1	455.7	408.3	361.0	313.6	266.2	222.4	185.9	145.8	113.0
50°	587.0	539.6	488.6	441.2	386.5	335.4	288.0	240.6	196.9	156.8	120.3
47.5°	627.1	576.1	525.0	470.3	415.6	361.0	309.9	258.9	211.5	167.7	127.6
45°	659.9	608.9	554.2	499.5	444.8	386.5	328.1	273.4	222.4	178.7	134.9
42.5°	692.7	641.7	587.0	532.3	470.3	408.3	350.0	291.7	237.0	185.9	142.2
40°	725.5	670.9	616.2	557.8	495.9	433.9	368.2	306.3	247.9	196.9	149.5
37.5°	758.4	700.0	641.7	583.4	517.7	455.7	386.5	320.8	262.5	204.2	156.8
35°	791.2	729.2	667.2	605.2	539.6	474.0	404.7	335.4	273.4	215.1	164.1
32.5°	820.3	754.7	692.7	630.8	561.5	492.2	422.9	350.0	284.4	222.4	167.7
30°	845.9	780.2	714.6	649.0	583.4	510.4	437.5	364.6	295.3	229.7	175.0
27.5°	867.7	802.1	736.5	667.2	601.6	528.7	452.1	379.2	306.3	240.6	178.7
25°	889.6	824.0	754.7	685.4	616.2	543.3	466.7	390.1	313.6	247.9	185.9
22.5°	904.2	845.9	772.9	700.0	630.8	554.2	477.6	401.1	324.5	251.6	189.6
20°	922.4	860.5	791.2	714.6	645.3	568.8	488.6	412.0	331.8	258.9	193.2
17.5°	937.0	875.0	805.8	729.2	656.3	579.7	499.5	419.3	339.1	262.5	196.9
15°	951.6	886.0	816.7	740.1	663.6	590.6	506.8	426.6	342.7	269.8	200.5
12.5°	962.5	896.9	827.6	751.1	674.5	597.9	514.1	433.9	350.0	273.4	200.5
10°	969.8	904.2	838.6	758.4	681.8	605.2	521.4	437.5	353.7	273.4	204.2
7.5°	977.1	911.5	845.9	765.7	685.4	608.9	525.0	444.8	357.3	277.1	207.8
5°	984.4	915.1	849.5	769.3	689.1	616.2	532.3	448.5	361.0	280.7	207.8
2.5°	988.1	918.8	853.2	772.9	692.7	616.2	532.3	448.5	361.0	280.7	207.8
0°	988.1	918.8	853.2	772.9	692.7	616.2	532.3	448.5	361.0	280.7	207.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	0.0	0.0
85°	10.9	7.3	3.6	0.0
82.5°	14.6	10.9	3.6	0.0
80°	21.9	14.6	7.3	0.0
77.5°	25.5	18.2	7.3	0.0
75°	32.8	21.9	10.9	0.0
72.5°	36.5	25.5	10.9	0.0
70°	40.1	29.2	14.6	0.0
67.5°	47.4	29.2	14.6	0.0
65°	54.7	32.8	18.2	0.0
62.5°	58.3	36.5	18.2	0.0
60°	65.6	40.1	18.2	0.0
57.5°	72.9	43.8	21.9	0.0
55°	76.6	47.4	21.9	0.0
52.5°	83.9	51.0	25.5	0.0
50°	87.5	54.7	25.5	0.0
47.5°	91.1	58.3	25.5	0.0
45°	98.4	62.0	29.2	0.0
42.5°	102.1	65.6	29.2	0.0
40°	105.7	65.6	29.2	0.0
37.5°	113.0	69.3	32.8	0.0
35°	116.7	72.9	32.8	0.0
32.5°	120.3	76.6	32.8	0.0
30°	124.0	76.6	36.5	0.0
27.5°	127.6	80.2	36.5	0.0
25°	131.3	80.2	36.5	0.0
22.5°	134.9	83.9	36.5	0.0
20°	134.9	83.9	36.5	0.0
17.5°	138.5	87.5	36.5	0.0
15°	138.5	87.5	40.1	0.0
12.5°	142.2	87.5	40.1	0.0
10°	142.2	91.1	40.1	0.0
7.5°	145.8	91.1	40.1	0.0
5°	145.8	91.1	40.1	0.0
2.5°	145.8	91.1	40.1	0.0
0°	145.8	91.1	40.1	0.0

(END OF REPORT)