

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: P623370

Luminaire Tested: **IFLD-L-SA7D-730-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623370
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	46121 lumens	Max Intensity:	149134.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

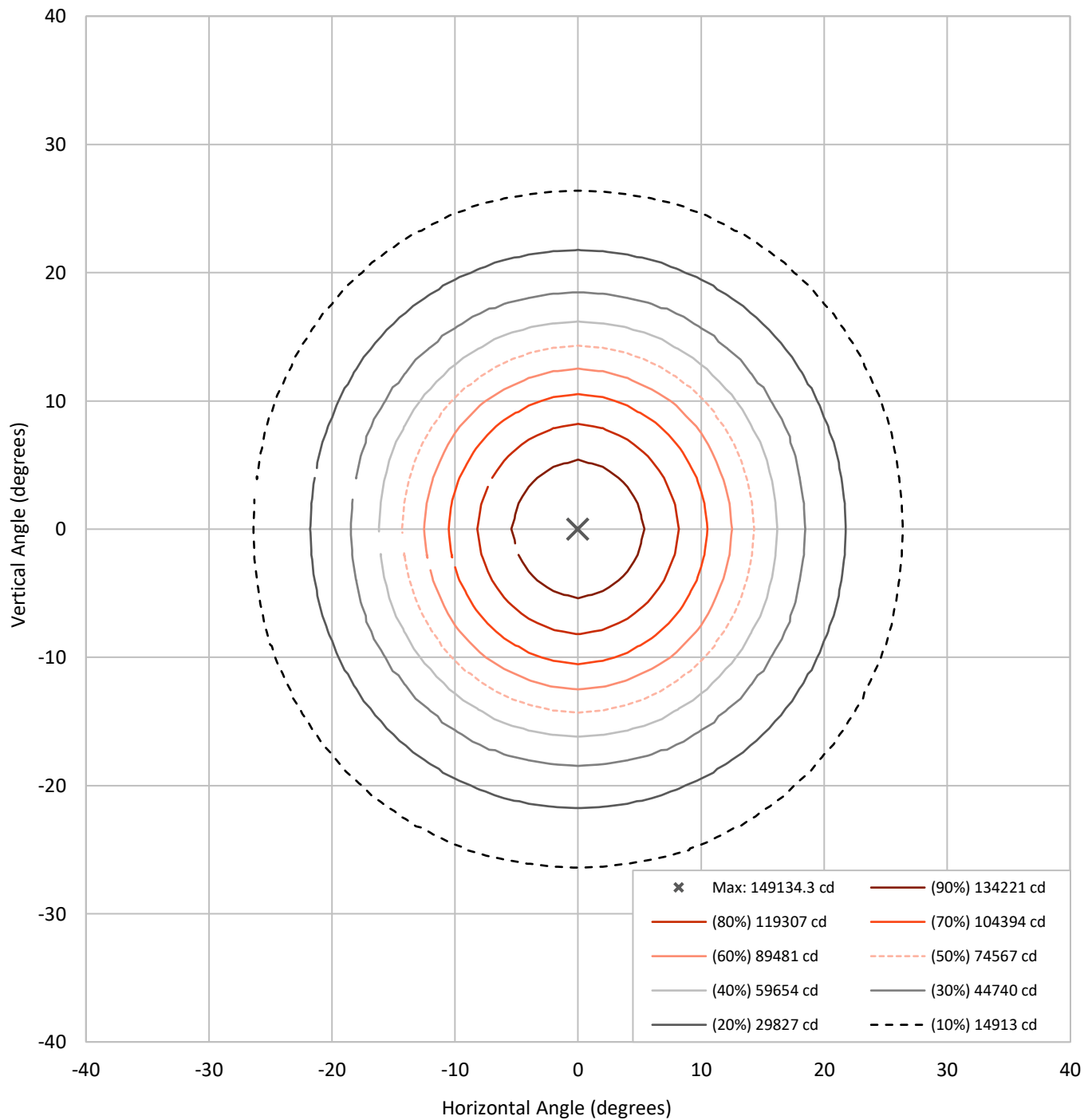
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	16641.3 lumens	Field Lumens:	28101.1 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 422.6
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: 25 FT



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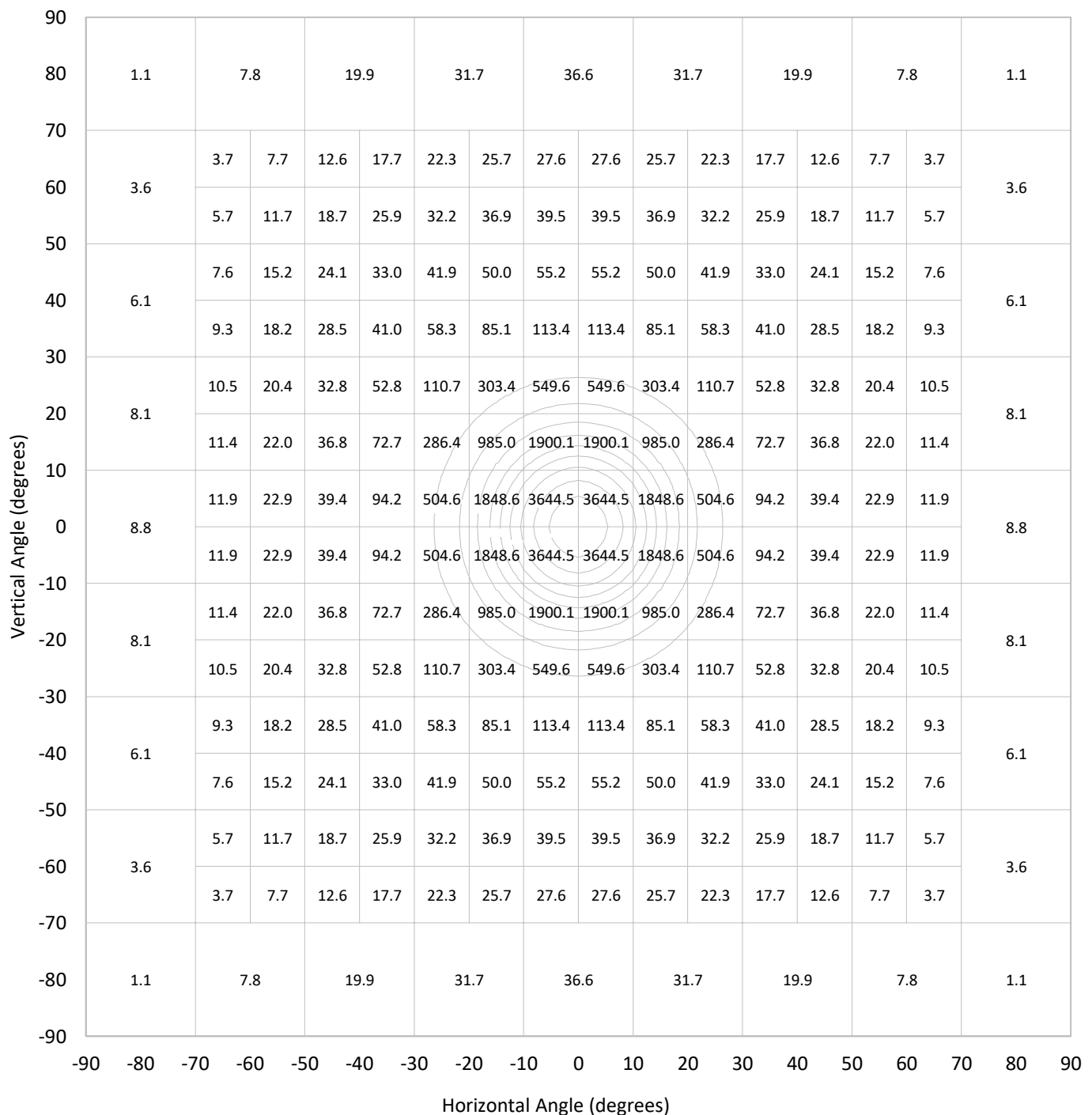
Iso-Candela Plot





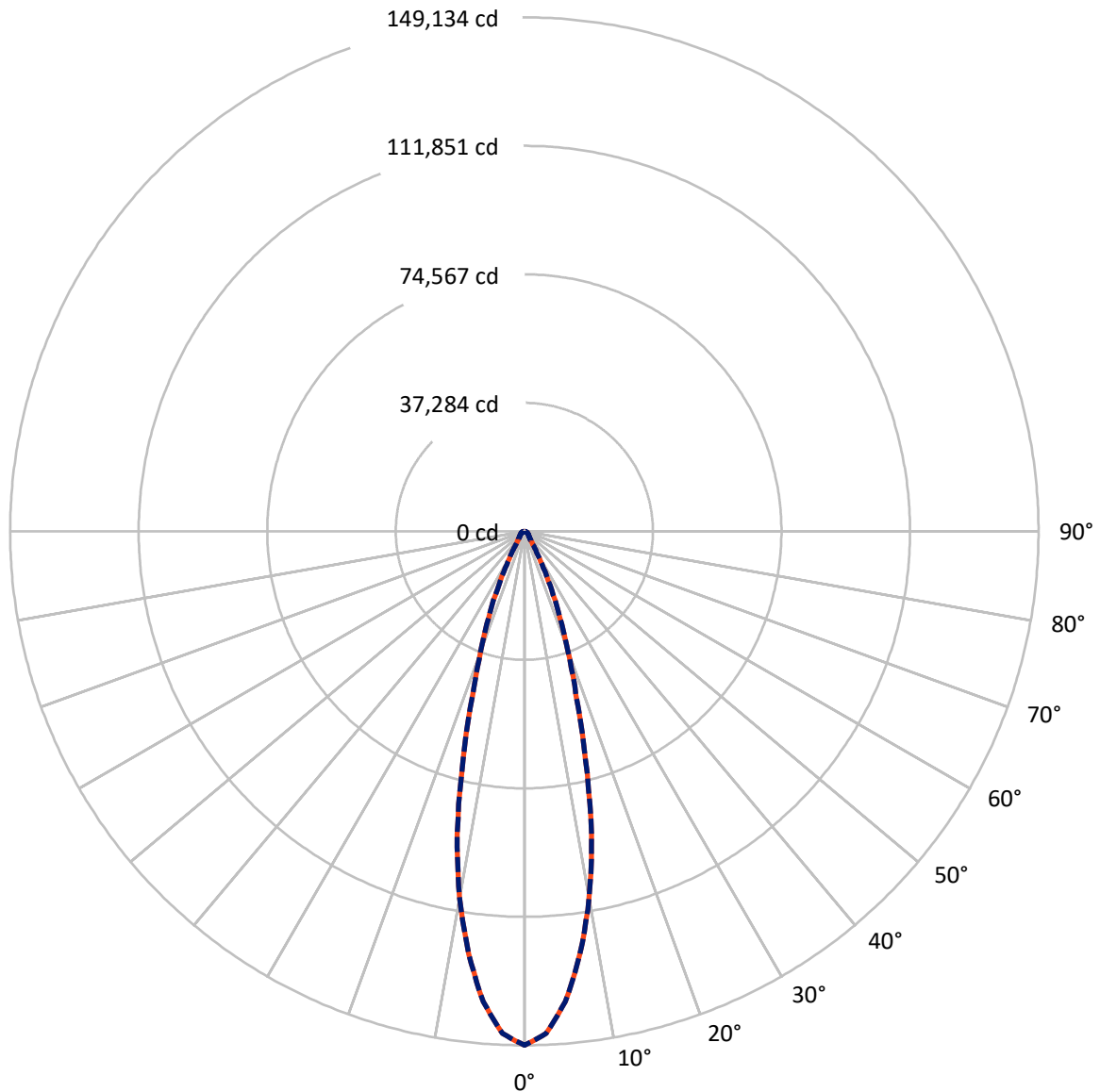
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Lumen Table



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Luminous Intensity Polar Plot

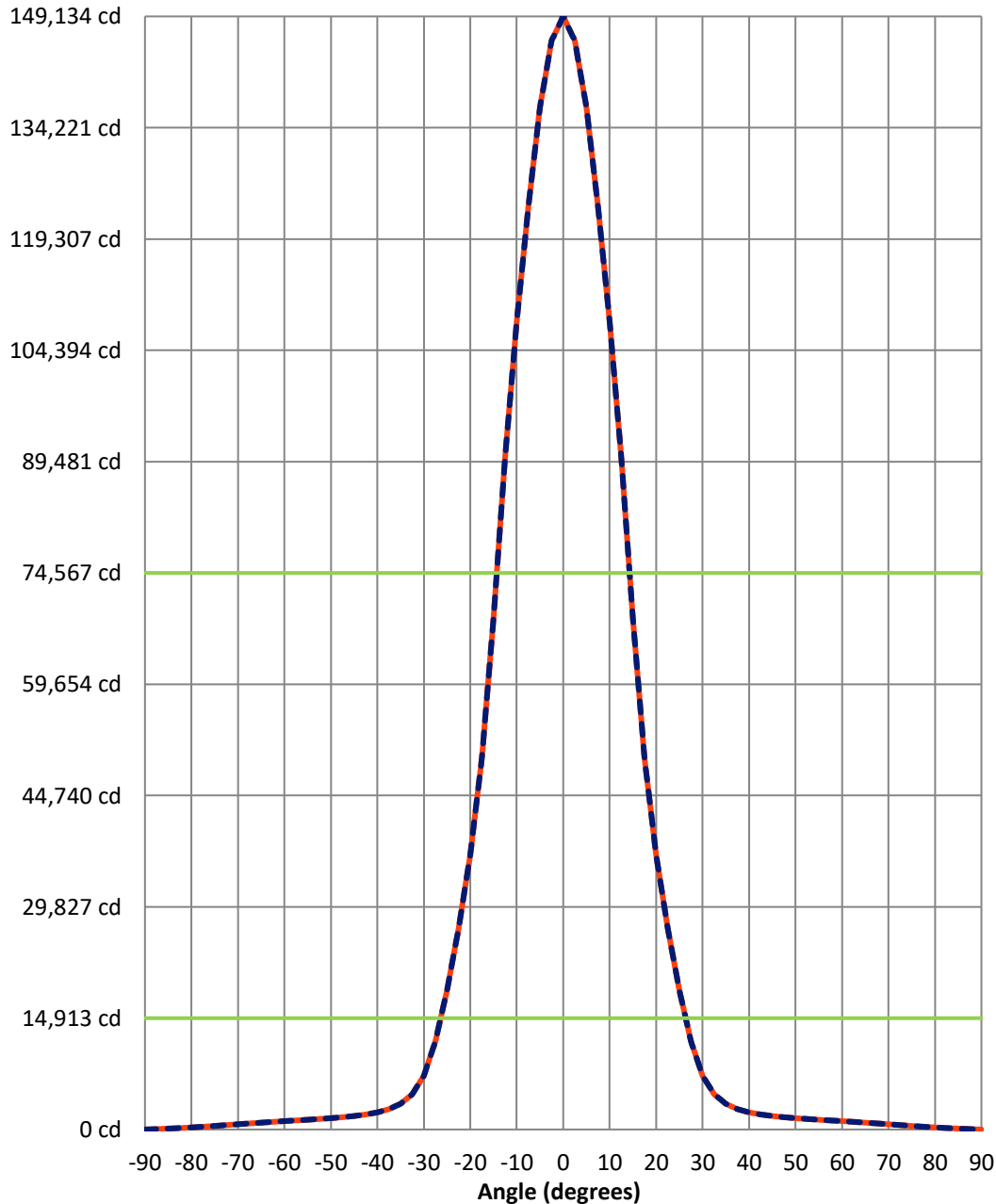


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 16641.3
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 28101.1
Efficiency: 60.9%

Spill:
Lumens: 18019.8
Efficiency: 39.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

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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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	48.1	48.1	48.1	48.1
85°	120.2	120.2	120.2	120.2	120.2	115.4	115.4	115.4	110.6	110.6	105.8
82.5°	192.3	192.3	192.3	192.3	187.5	187.5	182.7	182.7	177.9	177.9	173.1
80°	274.1	274.1	274.1	274.1	269.3	264.5	264.5	259.7	254.9	250.0	245.2
77.5°	370.3	370.3	370.3	365.5	360.6	360.6	355.8	346.2	341.4	331.8	327.0
75°	476.1	476.1	476.1	471.2	466.4	461.6	452.0	447.2	437.6	428.0	413.5
72.5°	591.5	591.5	591.5	586.7	577.0	572.2	562.6	553.0	543.4	528.9	514.5
70°	702.1	702.1	702.1	692.4	687.6	678.0	668.4	658.8	644.4	629.9	615.5
67.5°	812.7	812.7	812.7	803.0	798.2	788.6	779.0	764.6	750.1	730.9	716.5
65°	913.6	913.6	908.8	904.0	899.2	889.6	875.2	865.6	851.1	831.9	812.7
62.5°	1019.4	1019.4	1014.6	1009.8	1000.2	990.6	976.1	961.7	942.5	923.3	904.0
60°	1125.2	1125.2	1120.4	1115.6	1106.0	1091.6	1077.1	1062.7	1043.5	1019.4	995.4
57.5°	1211.8	1211.8	1207.0	1202.2	1192.5	1182.9	1168.5	1154.1	1134.8	1115.6	1086.7
55°	1303.1	1303.1	1298.3	1288.7	1279.1	1269.5	1255.0	1235.8	1216.6	1192.5	1173.3
52.5°	1408.9	1408.9	1404.1	1394.5	1380.1	1365.6	1346.4	1322.4	1298.3	1274.3	1245.4
50°	1514.7	1514.7	1505.1	1495.5	1485.9	1466.6	1447.4	1423.3	1394.5	1365.6	1332.0
47.5°	1644.5	1644.5	1634.9	1620.5	1601.3	1582.0	1553.2	1519.5	1490.7	1457.0	1418.5
45°	1803.2	1803.2	1788.8	1774.4	1750.3	1716.7	1683.0	1644.5	1601.3	1558.0	1509.9
42.5°	2010.0	2010.0	1990.8	1966.7	1933.1	1889.8	1836.9	1784.0	1731.1	1673.4	1615.7
40°	2288.9	2288.9	2260.0	2226.4	2173.5	2111.0	2034.0	1961.9	1889.8	1808.0	1735.9
37.5°	2726.5	2726.5	2678.4	2615.9	2529.3	2423.5	2293.7	2197.5	2086.9	1981.1	1885.0
35°	3443.0	3443.0	3356.4	3245.8	3091.9	2899.6	2692.8	2529.3	2346.6	2197.5	2058.1
32.5°	4717.2	4717.2	4544.1	4327.8	4034.4	3659.4	3313.1	3024.6	2726.5	2495.7	2274.5
30°	7184.1	7184.1	6813.8	6357.0	5727.1	4938.4	4347.0	3794.0	3289.1	2909.2	2587.0
27.5°	11814.8	11622.4	11045.4	10098.1	8799.8	7184.1	6155.0	4986.5	4188.3	3462.2	3015.0
25°	18652.6	18335.2	17383.1	15829.9	13714.2	11314.7	9213.3	6996.5	5597.2	4390.3	3558.4
22.5°	26961.9	26524.3	25230.8	23119.8	20258.7	17065.8	13666.1	10478.0	7640.9	5804.0	4390.3
20°	36800.3	36213.7	34477.7	31659.9	27870.7	23807.4	19268.1	14998.1	10905.9	7640.9	5597.2
17.5°	49788.4	48894.0	46263.7	42032.1	36800.3	31323.3	25649.1	20138.5	14998.1	10478.0	6996.5
15°	68460.2	66950.3	62536.0	55525.0	47379.3	39743.2	32506.2	25649.1	19268.1	13666.1	9213.3
12.5°	90046.1	87944.7	81861.8	72374.4	61305.0	49230.6	39743.2	31323.3	23807.4	17065.8	11314.7
10°	108232.2	106015.5	99730.6	90214.4	76178.0	61305.0	47379.3	36800.3	27870.7	20258.7	13714.2
7.5°	123595.7	121114.5	114339.2	103928.5	90214.4	72374.4	55525.0	42032.1	31659.9	23119.8	15829.9
5°	136939.6	133794.8	125908.7	114339.2	99730.6	81861.8	62536.0	46263.7	34477.7	25230.8	17383.1
2.5°	145854.8	142161.8	133794.8	121114.5	106015.5	87944.7	66950.3	48894.0	36213.7	26524.3	18335.2
0°	149134.3	145854.8	136939.6	123595.7	108232.2	90046.1	68460.2	49788.4	36800.3	26961.9	18652.6

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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°	48.1	48.1	43.3	43.3	43.3	38.5	38.5	38.5	33.7	33.7	33.7
85°	105.8	101.0	101.0	96.2	91.4	86.6	86.6	81.7	76.9	72.1	67.3
82.5°	168.3	163.5	158.7	153.9	149.1	139.4	134.6	129.8	120.2	115.4	110.6
80°	235.6	230.8	221.2	216.4	206.8	197.2	187.5	177.9	168.3	158.7	149.1
77.5°	317.4	302.9	293.3	283.7	269.3	259.7	245.2	235.6	221.2	206.8	192.3
75°	403.9	389.5	375.1	360.6	346.2	327.0	312.6	293.3	278.9	259.7	245.2
72.5°	500.1	480.9	461.6	442.4	423.2	403.9	384.7	360.6	341.4	317.4	293.3
70°	596.3	577.0	557.8	533.8	509.7	485.7	461.6	432.8	408.7	379.9	351.0
67.5°	697.2	673.2	649.2	625.1	601.1	572.2	538.6	509.7	476.1	442.4	413.5
65°	793.4	769.4	740.5	711.7	682.8	654.0	620.3	586.7	548.2	509.7	476.1
62.5°	880.0	855.9	831.9	798.2	769.4	735.7	702.1	658.8	620.3	581.8	538.6
60°	971.3	942.5	913.6	880.0	846.3	812.7	774.2	730.9	692.4	644.4	601.1
57.5°	1057.9	1029.0	995.4	961.7	923.3	884.8	846.3	803.0	759.8	711.7	663.6
55°	1144.4	1115.6	1081.9	1043.5	1000.2	956.9	913.6	870.4	827.1	774.2	721.3
52.5°	1216.6	1187.7	1154.1	1125.2	1077.1	1033.9	985.8	932.9	884.8	831.9	779.0
50°	1293.5	1259.9	1221.4	1187.7	1149.3	1106.0	1053.1	1000.2	942.5	889.6	831.9
47.5°	1380.1	1336.8	1293.5	1250.2	1211.8	1163.7	1120.4	1062.7	1005.0	942.5	884.8
45°	1466.6	1418.5	1370.5	1317.6	1269.5	1221.4	1173.3	1125.2	1062.7	1000.2	932.9
42.5°	1558.0	1500.3	1447.4	1394.5	1336.8	1279.1	1226.2	1173.3	1120.4	1053.1	985.8
40°	1663.8	1596.5	1529.1	1466.6	1408.9	1341.6	1279.1	1221.4	1163.7	1106.0	1033.9
37.5°	1784.0	1702.2	1620.5	1543.6	1471.4	1408.9	1336.8	1269.5	1211.8	1149.3	1077.1
35°	1937.9	1817.7	1721.5	1625.3	1543.6	1466.6	1394.5	1317.6	1250.2	1187.7	1125.2
32.5°	2111.0	1961.9	1832.1	1721.5	1620.5	1529.1	1447.4	1370.5	1293.5	1221.4	1154.1
30°	2322.6	2130.2	1961.9	1817.7	1702.2	1596.5	1500.3	1418.5	1336.8	1259.9	1187.7
27.5°	2620.7	2322.6	2111.0	1937.9	1784.0	1663.8	1558.0	1466.6	1380.1	1293.5	1216.6
25°	3015.0	2587.0	2274.5	2058.1	1885.0	1735.9	1615.7	1509.9	1418.5	1332.0	1245.4
22.5°	3462.2	2909.2	2495.7	2197.5	1981.1	1808.0	1673.4	1558.0	1457.0	1365.6	1274.3
20°	4188.3	3289.1	2726.5	2346.6	2086.9	1889.8	1731.1	1601.3	1490.7	1394.5	1298.3
17.5°	4986.5	3794.0	3024.6	2529.3	2197.5	1961.9	1784.0	1644.5	1519.5	1423.3	1322.4
15°	6155.0	4347.0	3313.1	2692.8	2293.7	2034.0	1836.9	1683.0	1553.2	1447.4	1346.4
12.5°	7184.1	4938.4	3659.4	2899.6	2423.5	2111.0	1889.8	1716.7	1582.0	1466.6	1365.6
10°	8799.8	5727.1	4034.4	3091.9	2529.3	2173.5	1933.1	1750.3	1601.3	1485.9	1380.1
7.5°	10098.1	6357.0	4327.8	3245.8	2615.9	2226.4	1966.7	1774.4	1620.5	1495.5	1394.5
5°	11045.4	6813.8	4544.1	3356.4	2678.4	2260.0	1990.8	1788.8	1634.9	1505.1	1404.1
2.5°	11622.4	7184.1	4717.2	3443.0	2726.5	2288.9	2010.0	1803.2	1644.5	1514.7	1408.9
0°	11814.8	7184.1	4717.2	3443.0	2726.5	2288.9	2010.0	1803.2	1644.5	1514.7	1408.9

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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°	28.9	28.9	24.0	24.0	24.0	19.2	19.2	14.4	14.4	9.6	9.6
85°	62.5	57.7	52.9	48.1	43.3	38.5	38.5	33.7	28.9	24.0	19.2
82.5°	101.0	96.2	86.6	76.9	72.1	62.5	52.9	48.1	43.3	33.7	28.9
80°	139.4	129.8	120.2	110.6	101.0	86.6	76.9	67.3	52.9	43.3	38.5
77.5°	182.7	168.3	153.9	139.4	125.0	115.4	101.0	86.6	72.1	57.7	43.3
75°	226.0	206.8	192.3	173.1	158.7	139.4	120.2	105.8	91.4	72.1	52.9
72.5°	274.1	250.0	230.8	206.8	187.5	168.3	144.3	125.0	105.8	86.6	67.3
70°	327.0	298.1	269.3	245.2	221.2	192.3	168.3	144.3	120.2	101.0	76.9
67.5°	379.9	346.2	312.6	278.9	250.0	221.2	192.3	168.3	139.4	115.4	86.6
65°	432.8	394.3	360.6	322.2	283.7	250.0	221.2	187.5	158.7	125.0	101.0
62.5°	490.5	447.2	403.9	360.6	322.2	278.9	245.2	206.8	173.1	139.4	110.6
60°	553.0	504.9	452.0	403.9	360.6	312.6	269.3	230.8	192.3	153.9	120.2
57.5°	610.7	557.8	504.9	447.2	394.3	346.2	298.1	250.0	206.8	168.3	129.8
55°	668.4	610.7	553.0	490.5	432.8	379.9	327.0	274.1	226.0	182.7	139.4
52.5°	721.3	663.6	601.1	538.6	476.1	413.5	351.0	293.3	245.2	192.3	149.1
50°	774.2	711.7	644.4	581.8	509.7	442.4	379.9	317.4	259.7	206.8	158.7
47.5°	827.1	759.8	692.4	620.3	548.2	476.1	408.7	341.4	278.9	221.2	168.3
45°	870.4	803.0	730.9	658.8	586.7	509.7	432.8	360.6	293.3	235.6	177.9
42.5°	913.6	846.3	774.2	702.1	620.3	538.6	461.6	384.7	312.6	245.2	187.5
40°	956.9	884.8	812.7	735.7	654.0	572.2	485.7	403.9	327.0	259.7	197.2
37.5°	1000.2	923.3	846.3	769.4	682.8	601.1	509.7	423.2	346.2	269.3	206.8
35°	1043.5	961.7	880.0	798.2	711.7	625.1	533.8	442.4	360.6	283.7	216.4
32.5°	1081.9	995.4	913.6	831.9	740.5	649.2	557.8	461.6	375.1	293.3	221.2
30°	1115.6	1029.0	942.5	855.9	769.4	673.2	577.0	480.9	389.5	302.9	230.8
27.5°	1144.4	1057.9	971.3	880.0	793.4	697.2	596.3	500.1	403.9	317.4	235.6
25°	1173.3	1086.7	995.4	904.0	812.7	716.5	615.5	514.5	413.5	327.0	245.2
22.5°	1192.5	1115.6	1019.4	923.3	831.9	730.9	629.9	528.9	428.0	331.8	250.0
20°	1216.6	1134.8	1043.5	942.5	851.1	750.1	644.4	543.4	437.6	341.4	254.9
17.5°	1235.8	1154.1	1062.7	961.7	865.6	764.6	658.8	553.0	447.2	346.2	259.7
15°	1255.0	1168.5	1077.1	976.1	875.2	779.0	668.4	562.6	452.0	355.8	264.5
12.5°	1269.5	1182.9	1091.6	990.6	889.6	788.6	678.0	572.2	461.6	360.6	264.5
10°	1279.1	1192.5	1106.0	1000.2	899.2	798.2	687.6	577.0	466.4	360.6	269.3
7.5°	1288.7	1202.2	1115.6	1009.8	904.0	803.0	692.4	586.7	471.2	365.5	274.1
5°	1298.3	1207.0	1120.4	1014.6	908.8	812.7	702.1	591.5	476.1	370.3	274.1
2.5°	1303.1	1211.8	1125.2	1019.4	913.6	812.7	702.1	591.5	476.1	370.3	274.1
0°	1303.1	1211.8	1125.2	1019.4	913.6	812.7	702.1	591.5	476.1	370.3	274.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	0.0	0.0
85°	14.4	9.6	4.8	0.0
82.5°	19.2	14.4	4.8	0.0
80°	28.9	19.2	9.6	0.0
77.5°	33.7	24.0	9.6	0.0
75°	43.3	28.9	14.4	0.0
72.5°	48.1	33.7	14.4	0.0
70°	52.9	38.5	19.2	0.0
67.5°	62.5	38.5	19.2	0.0
65°	72.1	43.3	24.0	0.0
62.5°	76.9	48.1	24.0	0.0
60°	86.6	52.9	24.0	0.0
57.5°	96.2	57.7	28.9	0.0
55°	101.0	62.5	28.9	0.0
52.5°	110.6	67.3	33.7	0.0
50°	115.4	72.1	33.7	0.0
47.5°	120.2	76.9	33.7	0.0
45°	129.8	81.7	38.5	0.0
42.5°	134.6	86.6	38.5	0.0
40°	139.4	86.6	38.5	0.0
37.5°	149.1	91.4	43.3	0.0
35°	153.9	96.2	43.3	0.0
32.5°	158.7	101.0	43.3	0.0
30°	163.5	101.0	48.1	0.0
27.5°	168.3	105.8	48.1	0.0
25°	173.1	105.8	48.1	0.0
22.5°	177.9	110.6	48.1	0.0
20°	177.9	110.6	48.1	0.0
17.5°	182.7	115.4	48.1	0.0
15°	182.7	115.4	52.9	0.0
12.5°	187.5	115.4	52.9	0.0
10°	187.5	120.2	52.9	0.0
7.5°	192.3	120.2	52.9	0.0
5°	192.3	120.2	52.9	0.0
2.5°	192.3	120.2	52.9	0.0
0°	192.3	120.2	52.9	0.0

(END OF REPORT)