

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: P640045

Luminaire Tested: **IFLD-L-SA7A-AMB-U-66**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-AMB-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (112) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

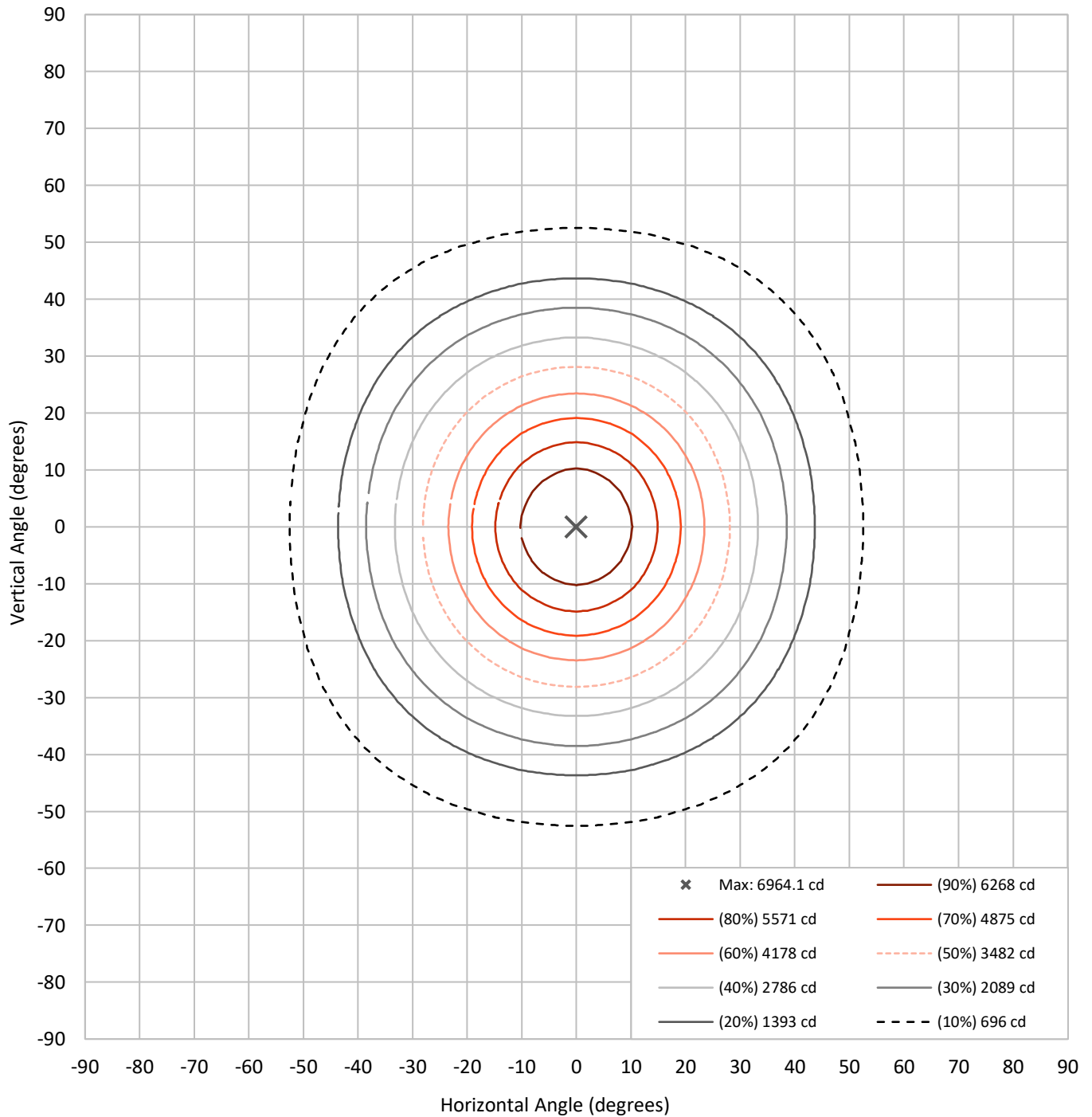
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	7621.6 lumens	Max Intensity:	6964.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	104.8°H x 104.8°V
Beam Lumens:	2726.9 lumens	Field Lumens:	5037.1 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%
Input Watts (W):	217.6		
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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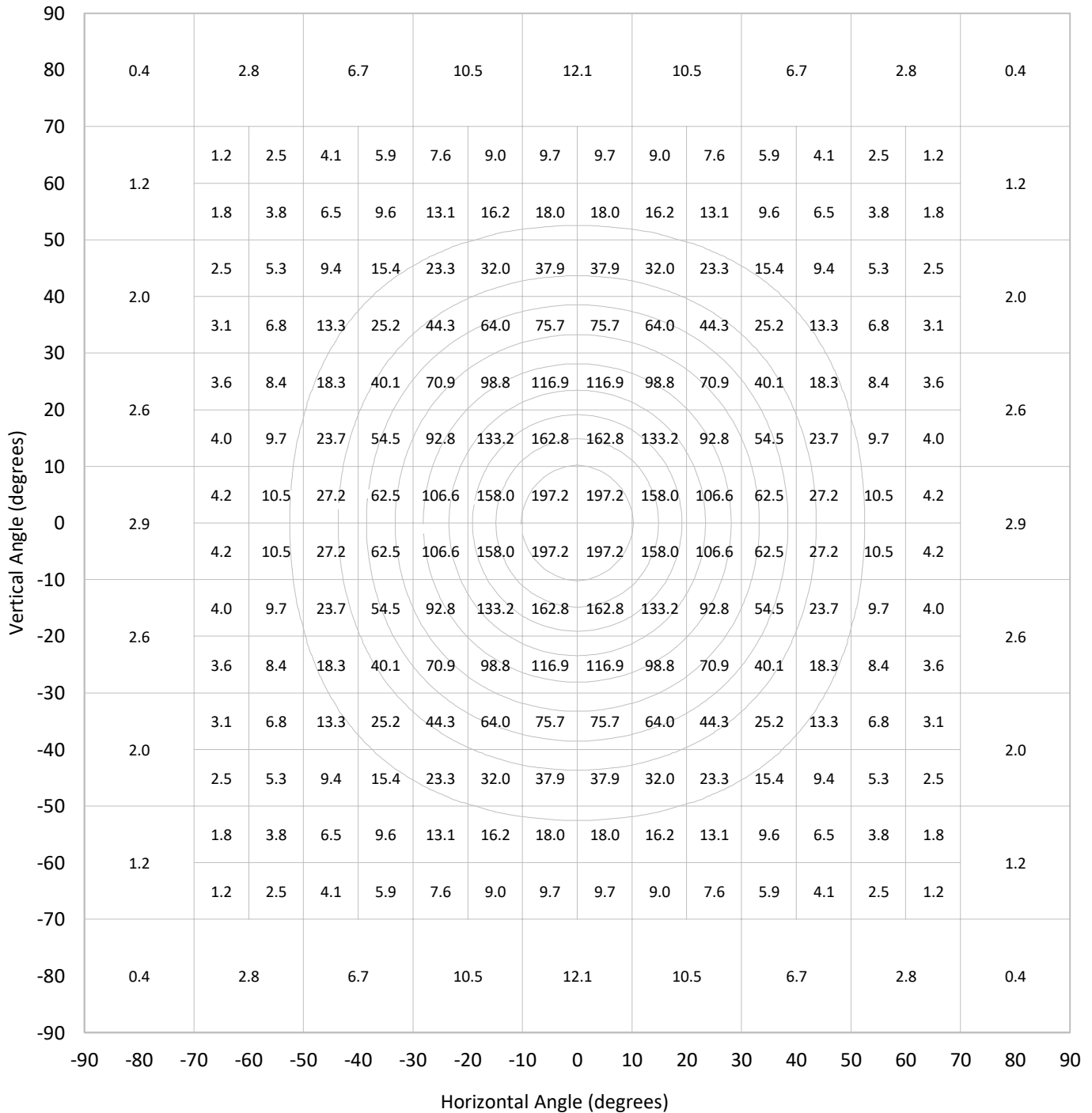
Iso-Candela Plot





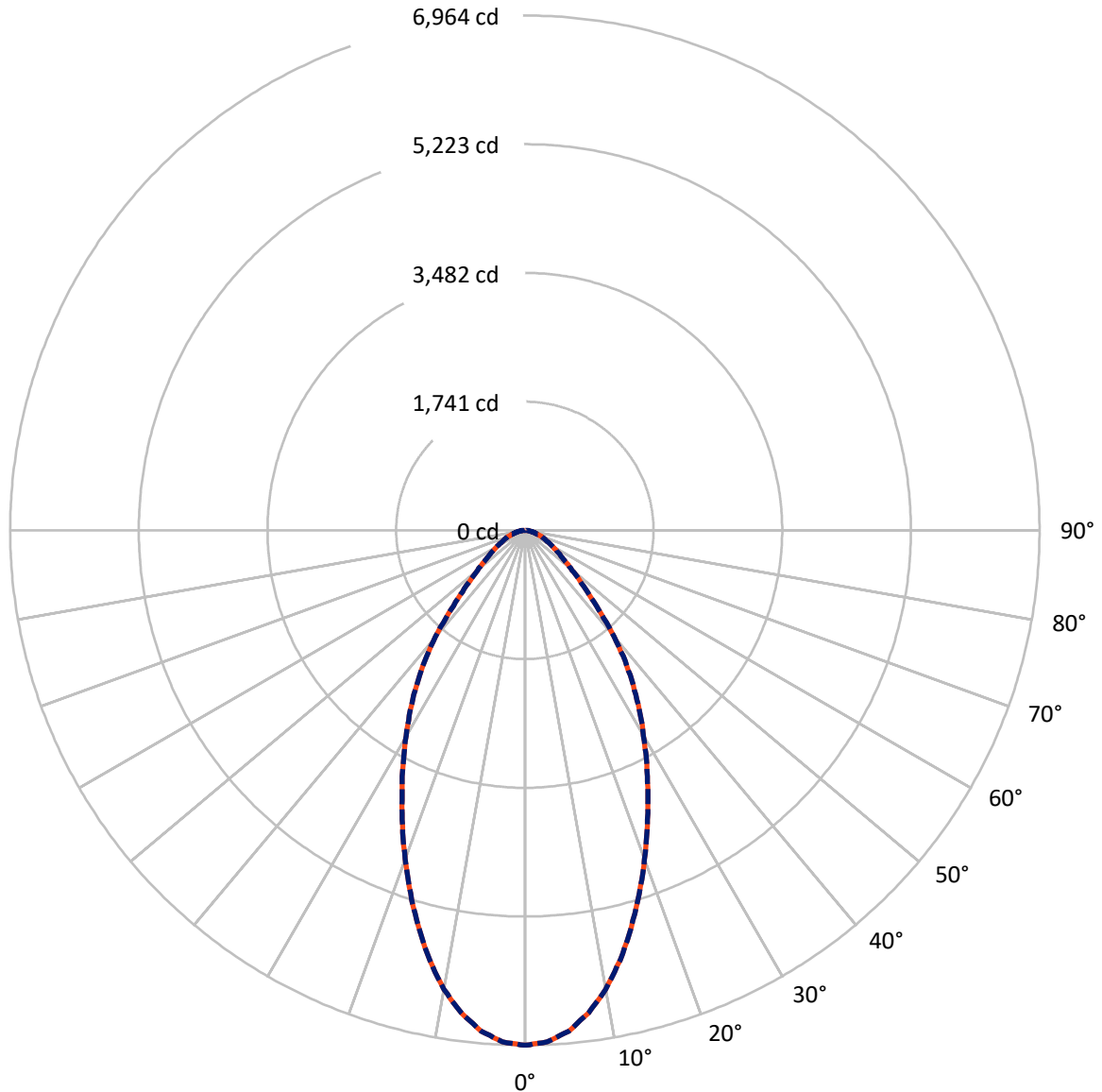
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Lumen Table



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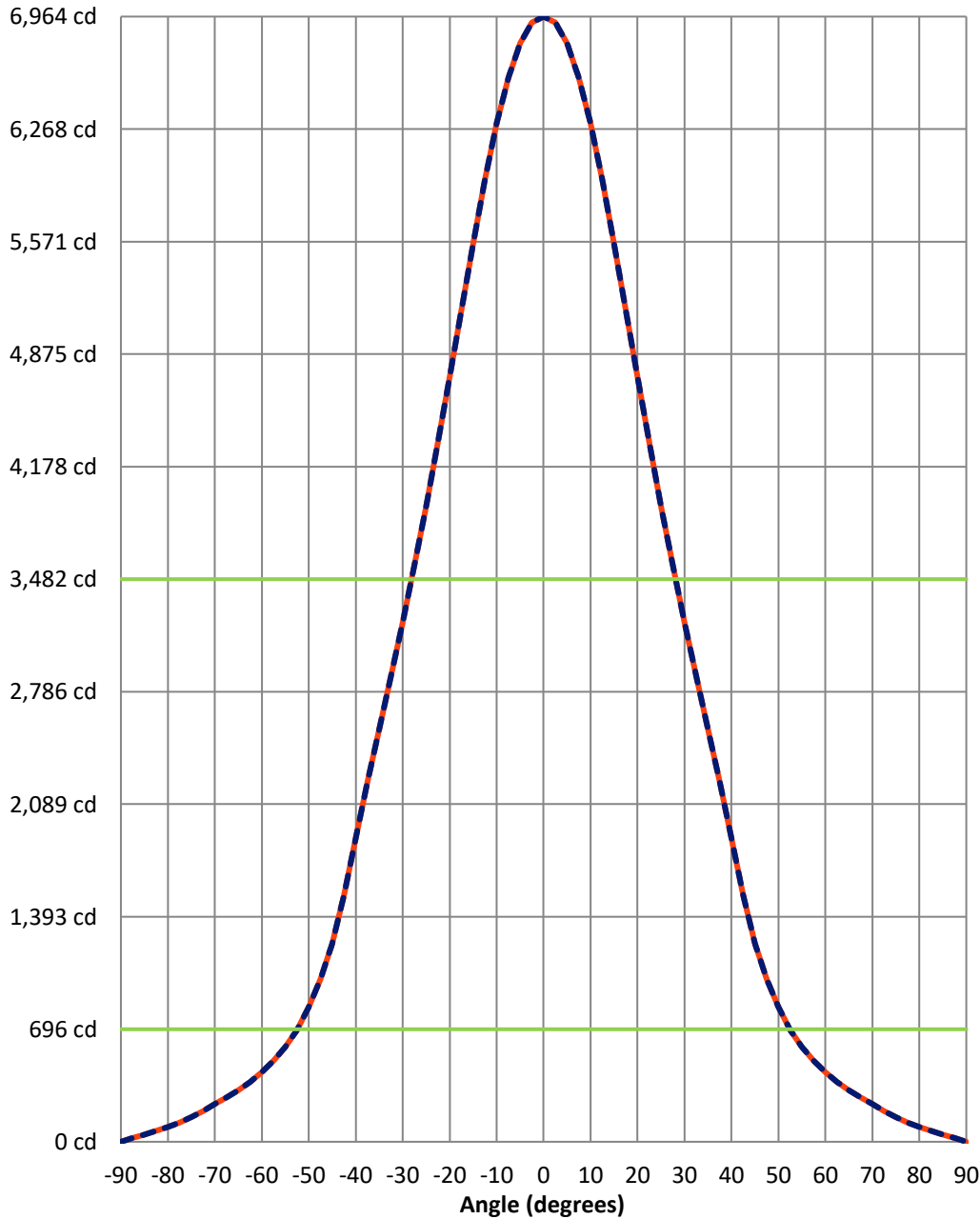
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 56.2°
V Angle: 56.2°
Lumens: 2726.9
Efficiency: 35.8%

Field:
H Angle: 104.8°
V Angle: 104.8°
Lumens: 5037.1
Efficiency: 66.1%

Spill:
Lumens: 2584.4
Efficiency: 33.9%

— 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°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	20.3	20.3
85°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	40.7	40.7	40.7	40.7
82.5°	67.8	67.8	67.8	67.8	67.8	64.4	64.4	64.4	64.4	61.0	61.0
80°	91.5	91.5	91.5	91.5	91.5	88.2	88.2	88.2	84.8	84.8	81.4
77.5°	118.7	118.7	118.7	118.7	115.3	115.3	115.3	111.9	111.9	108.5	105.1
75°	152.6	152.6	152.6	149.2	149.2	149.2	145.8	142.4	139.0	135.6	132.2
72.5°	189.9	189.9	189.9	186.5	186.5	183.1	179.7	176.3	172.9	169.5	166.1
70°	233.9	233.9	233.9	230.6	227.2	223.8	220.4	217.0	210.2	206.8	200.0
67.5°	274.6	274.6	274.6	271.2	267.9	264.5	261.1	257.7	250.9	244.1	237.3
65°	318.7	318.7	315.3	315.3	311.9	308.5	301.8	298.4	291.6	284.8	274.6
62.5°	369.6	369.6	366.2	362.8	359.4	356.0	349.2	342.4	332.3	325.5	315.3
60°	430.6	430.6	427.2	423.8	417.0	410.3	403.5	393.3	383.1	369.6	359.4
57.5°	501.8	501.8	498.4	491.6	484.8	478.1	467.9	454.3	440.8	423.8	410.3
55°	586.6	586.6	579.8	576.4	566.2	556.0	539.1	525.5	505.2	488.2	467.9
52.5°	691.7	691.7	684.9	674.7	664.5	647.6	630.6	606.9	583.2	559.4	535.7
50°	834.1	834.1	823.9	810.3	793.4	769.6	742.5	708.6	678.1	647.6	613.7
47.5°	1007.0	1007.0	993.4	976.5	952.7	922.2	884.9	840.9	800.2	756.1	705.2
45°	1227.4	1227.4	1207.0	1183.3	1152.8	1108.7	1057.8	1007.0	946.0	888.3	827.3
42.5°	1525.7	1525.7	1498.6	1461.3	1413.8	1352.8	1274.8	1200.2	1125.7	1044.3	966.3
40°	1878.4	1878.4	1841.1	1797.0	1732.6	1654.6	1556.3	1457.9	1352.8	1234.2	1135.8
37.5°	2227.6	2227.6	2186.9	2139.4	2071.6	1983.5	1881.7	1759.7	1624.1	1481.7	1342.6
35°	2553.1	2553.1	2512.4	2461.5	2393.7	2305.6	2200.5	2071.6	1925.8	1763.1	1586.8
32.5°	2881.9	2881.9	2837.9	2780.2	2705.6	2610.7	2495.4	2363.2	2227.6	2044.5	1858.0
30°	3214.2	3214.2	3163.4	3102.3	3017.6	2912.5	2787.0	2644.6	2485.3	2312.3	2115.7
27.5°	3570.2	3556.7	3512.6	3438.0	3339.7	3214.2	3075.2	2919.2	2746.3	2556.5	2359.8
25°	3933.0	3916.1	3865.2	3783.8	3671.9	3532.9	3370.2	3190.5	3000.6	2797.2	2583.6
22.5°	4329.7	4309.4	4248.3	4146.6	4011.0	3848.2	3668.6	3468.5	3248.1	3027.7	2797.2
20°	4733.2	4709.4	4638.2	4523.0	4367.0	4180.5	3963.5	3739.8	3499.0	3248.1	3000.6
17.5°	5146.8	5119.7	5034.9	4899.3	4733.2	4509.4	4268.7	4004.2	3739.8	3468.5	3190.5
15°	5557.1	5523.2	5428.2	5272.3	5068.8	4828.1	4556.9	4268.7	3963.5	3668.6	3370.2
12.5°	5953.8	5916.5	5804.6	5628.3	5401.1	5129.9	4828.1	4509.4	4180.5	3848.2	3532.9
10°	6303.0	6258.9	6140.2	5957.2	5699.5	5401.1	5068.8	4733.2	4367.0	4011.0	3671.9
7.5°	6584.4	6540.3	6414.9	6221.6	5957.2	5628.3	5272.3	4899.3	4523.0	4146.6	3783.8
5°	6798.0	6747.1	6621.7	6414.9	6140.2	5804.6	5428.2	5034.9	4638.2	4248.3	3865.2
2.5°	6926.8	6872.6	6747.1	6540.3	6258.9	5916.5	5523.2	5119.7	4709.4	4309.4	3916.1
0°	6964.1	6926.8	6798.0	6584.4	6303.0	5953.8	5557.1	5146.8	4733.2	4329.7	3933.0



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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°	20.3	20.3	20.3	20.3	20.3	17.0	17.0	17.0	17.0	13.6	13.6
85°	40.7	37.3	37.3	37.3	37.3	33.9	33.9	30.5	30.5	30.5	27.1
82.5°	61.0	57.6	57.6	54.2	54.2	50.9	47.5	47.5	44.1	44.1	40.7
80°	81.4	78.0	78.0	74.6	71.2	67.8	67.8	64.4	61.0	57.6	54.2
77.5°	101.7	101.7	98.3	94.9	91.5	88.2	84.8	81.4	78.0	71.2	67.8
75°	128.8	125.4	118.7	115.3	111.9	108.5	101.7	98.3	91.5	88.2	81.4
72.5°	159.4	152.6	149.2	142.4	135.6	128.8	122.1	115.3	111.9	105.1	98.3
70°	193.3	186.5	179.7	172.9	162.7	156.0	145.8	139.0	128.8	122.1	111.9
67.5°	230.6	223.8	213.6	203.4	193.3	183.1	172.9	162.7	152.6	142.4	132.2
65°	267.9	257.7	247.5	237.3	227.2	213.6	200.0	189.9	176.3	162.7	152.6
62.5°	305.1	295.0	281.4	271.2	257.7	244.1	233.9	217.0	203.4	186.5	172.9
60°	345.8	332.3	318.7	305.1	291.6	274.6	261.1	244.1	230.6	210.2	193.3
57.5°	393.3	376.3	359.4	342.4	322.1	305.1	288.2	271.2	254.3	237.3	217.0
55°	447.5	423.8	403.5	383.1	359.4	339.1	318.7	298.4	281.4	261.1	240.7
52.5°	508.6	481.5	454.3	430.6	403.5	376.3	352.6	328.9	305.1	284.8	261.1
50°	579.8	545.9	512.0	481.5	450.9	417.0	389.9	359.4	332.3	308.5	284.8
47.5°	664.5	620.5	576.4	539.1	501.8	464.5	427.2	393.3	362.8	332.3	305.1
45°	769.6	705.2	654.4	603.5	556.0	512.0	471.3	430.6	393.3	359.4	328.9
42.5°	891.7	817.1	745.9	678.1	620.5	566.2	515.4	471.3	427.2	389.9	352.6
40°	1034.1	942.6	851.0	769.6	691.7	627.2	566.2	512.0	464.5	417.0	376.3
37.5°	1203.6	1085.0	973.1	871.4	776.4	691.7	620.5	556.0	501.8	450.9	403.5
35°	1417.2	1251.1	1112.1	983.3	871.4	769.6	678.1	603.5	539.1	481.5	430.6
32.5°	1658.0	1457.9	1268.1	1112.1	973.1	851.0	745.9	654.4	576.4	512.0	454.3
30°	1905.5	1678.3	1457.9	1251.1	1085.0	942.6	817.1	705.2	620.5	545.9	481.5
27.5°	2142.8	1905.5	1658.0	1417.2	1203.6	1034.1	891.7	769.6	664.5	579.8	508.6
25°	2359.8	2115.7	1858.0	1586.8	1342.6	1135.8	966.3	827.3	705.2	613.7	535.7
22.5°	2556.5	2312.3	2044.5	1763.1	1481.7	1234.2	1044.3	888.3	756.1	647.6	559.4
20°	2746.3	2485.3	2227.6	1925.8	1624.1	1352.8	1125.7	946.0	800.2	678.1	583.2
17.5°	2919.2	2644.6	2363.2	2071.6	1759.7	1457.9	1200.2	1007.0	840.9	708.6	606.9
15°	3075.2	2787.0	2495.4	2200.5	1881.7	1556.3	1274.8	1057.8	884.9	742.5	630.6
12.5°	3214.2	2912.5	2610.7	2305.6	1983.5	1654.6	1352.8	1108.7	922.2	769.6	647.6
10°	3339.7	3017.6	2705.6	2393.7	2071.6	1732.6	1413.8	1152.8	952.7	793.4	664.5
7.5°	3438.0	3102.3	2780.2	2461.5	2139.4	1797.0	1461.3	1183.3	976.5	810.3	674.7
5°	3512.6	3163.4	2837.9	2512.4	2186.9	1841.1	1498.6	1207.0	993.4	823.9	684.9
2.5°	3556.7	3214.2	2881.9	2553.1	2227.6	1878.4	1525.7	1227.4	1007.0	834.1	691.7
0°	3570.2	3214.2	2881.9	2553.1	2227.6	1878.4	1525.7	1227.4	1007.0	834.1	691.7



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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°	13.6	13.6	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	3.4
85°	27.1	23.7	23.7	20.3	20.3	17.0	17.0	13.6	13.6	10.2	6.8
82.5°	37.3	37.3	33.9	30.5	30.5	27.1	23.7	20.3	17.0	17.0	13.6
80°	50.9	47.5	44.1	40.7	37.3	33.9	30.5	27.1	23.7	20.3	17.0
77.5°	64.4	61.0	54.2	50.9	47.5	40.7	37.3	33.9	30.5	23.7	20.3
75°	78.0	71.2	67.8	61.0	57.6	50.9	44.1	40.7	33.9	30.5	23.7
72.5°	91.5	84.8	78.0	71.2	64.4	61.0	54.2	47.5	40.7	33.9	27.1
70°	105.1	98.3	91.5	81.4	74.6	67.8	61.0	54.2	44.1	37.3	30.5
67.5°	122.1	111.9	101.7	94.9	84.8	78.0	67.8	61.0	50.9	40.7	33.9
65°	139.0	125.4	115.3	105.1	94.9	84.8	74.6	64.4	57.6	47.5	37.3
62.5°	159.4	142.4	128.8	115.3	105.1	94.9	81.4	71.2	61.0	50.9	40.7
60°	176.3	162.7	145.8	128.8	115.3	101.7	91.5	78.0	67.8	54.2	44.1
57.5°	196.7	179.7	162.7	142.4	125.4	111.9	98.3	84.8	71.2	61.0	47.5
55°	220.4	196.7	176.3	159.4	139.0	122.1	105.1	91.5	78.0	64.4	50.9
52.5°	240.7	217.0	193.3	172.9	152.6	132.2	111.9	98.3	81.4	67.8	54.2
50°	261.1	237.3	210.2	186.5	162.7	142.4	122.1	105.1	88.2	71.2	57.6
47.5°	281.4	254.3	230.6	203.4	176.3	152.6	128.8	111.9	91.5	78.0	61.0
45°	298.4	271.2	244.1	217.0	189.9	162.7	139.0	115.3	98.3	81.4	64.4
42.5°	318.7	288.2	261.1	233.9	200.0	172.9	145.8	122.1	101.7	84.8	67.8
40°	339.1	305.1	274.6	244.1	213.6	183.1	156.0	128.8	108.5	88.2	67.8
37.5°	359.4	322.1	291.6	257.7	227.2	193.3	162.7	135.6	111.9	91.5	71.2
35°	383.1	342.4	305.1	271.2	237.3	203.4	172.9	142.4	115.3	94.9	74.6
32.5°	403.5	359.4	318.7	281.4	247.5	213.6	179.7	149.2	118.7	98.3	78.0
30°	423.8	376.3	332.3	295.0	257.7	223.8	186.5	152.6	125.4	101.7	78.0
27.5°	447.5	393.3	345.8	305.1	267.9	230.6	193.3	159.4	128.8	101.7	81.4
25°	467.9	410.3	359.4	315.3	274.6	237.3	200.0	166.1	132.2	105.1	81.4
22.5°	488.2	423.8	369.6	325.5	284.8	244.1	206.8	169.5	135.6	108.5	84.8
20°	505.2	440.8	383.1	332.3	291.6	250.9	210.2	172.9	139.0	111.9	84.8
17.5°	525.5	454.3	393.3	342.4	298.4	257.7	217.0	176.3	142.4	111.9	88.2
15°	539.1	467.9	403.5	349.2	301.8	261.1	220.4	179.7	145.8	115.3	88.2
12.5°	556.0	478.1	410.3	356.0	308.5	264.5	223.8	183.1	149.2	115.3	88.2
10°	566.2	484.8	417.0	359.4	311.9	267.9	227.2	186.5	149.2	115.3	91.5
7.5°	576.4	491.6	423.8	362.8	315.3	271.2	230.6	186.5	149.2	118.7	91.5
5°	579.8	498.4	427.2	366.2	315.3	274.6	233.9	189.9	152.6	118.7	91.5
2.5°	586.6	501.8	430.6	369.6	318.7	274.6	233.9	189.9	152.6	118.7	91.5
0°	586.6	501.8	430.6	369.6	318.7	274.6	233.9	189.9	152.6	118.7	91.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	0.0	0.0
85°	6.8	3.4	3.4	0.0
82.5°	10.2	6.8	3.4	0.0
80°	13.6	6.8	3.4	0.0
77.5°	17.0	10.2	6.8	0.0
75°	17.0	13.6	6.8	0.0
72.5°	20.3	13.6	6.8	0.0
70°	23.7	17.0	6.8	0.0
67.5°	27.1	17.0	10.2	0.0
65°	30.5	20.3	10.2	0.0
62.5°	30.5	20.3	10.2	0.0
60°	33.9	23.7	10.2	0.0
57.5°	37.3	23.7	13.6	0.0
55°	37.3	27.1	13.6	0.0
52.5°	40.7	27.1	13.6	0.0
50°	44.1	30.5	13.6	0.0
47.5°	44.1	30.5	17.0	0.0
45°	47.5	30.5	17.0	0.0
42.5°	47.5	33.9	17.0	0.0
40°	50.9	33.9	17.0	0.0
37.5°	54.2	37.3	20.3	0.0
35°	54.2	37.3	20.3	0.0
32.5°	57.6	37.3	20.3	0.0
30°	57.6	37.3	20.3	0.0
27.5°	61.0	40.7	20.3	0.0
25°	61.0	40.7	20.3	0.0
22.5°	61.0	40.7	20.3	0.0
20°	64.4	40.7	23.7	0.0
17.5°	64.4	40.7	23.7	0.0
15°	64.4	44.1	23.7	0.0
12.5°	64.4	44.1	23.7	0.0
10°	67.8	44.1	23.7	0.0
7.5°	67.8	44.1	23.7	0.0
5°	67.8	44.1	23.7	0.0
2.5°	67.8	44.1	23.7	0.0
0°	67.8	44.1	23.7	0.0

(END OF REPORT)