

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: P624532

Luminaire Tested: **IFLD-S-SA3D-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624532
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

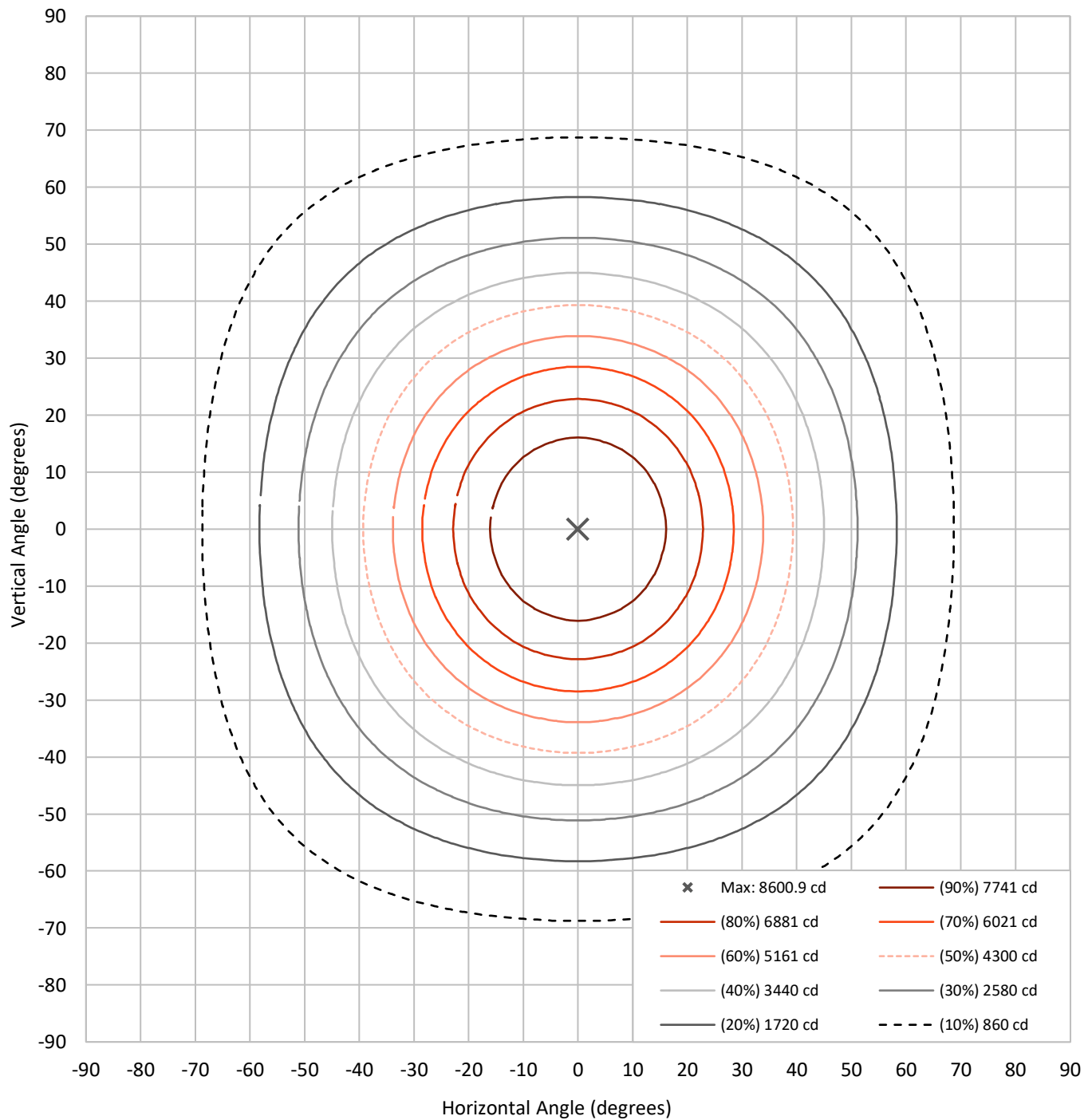
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15486.2 lumens	Max Intensity:	8600.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	84.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6700.7 lumens	Field Lumens:	10972.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	184.1		
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		



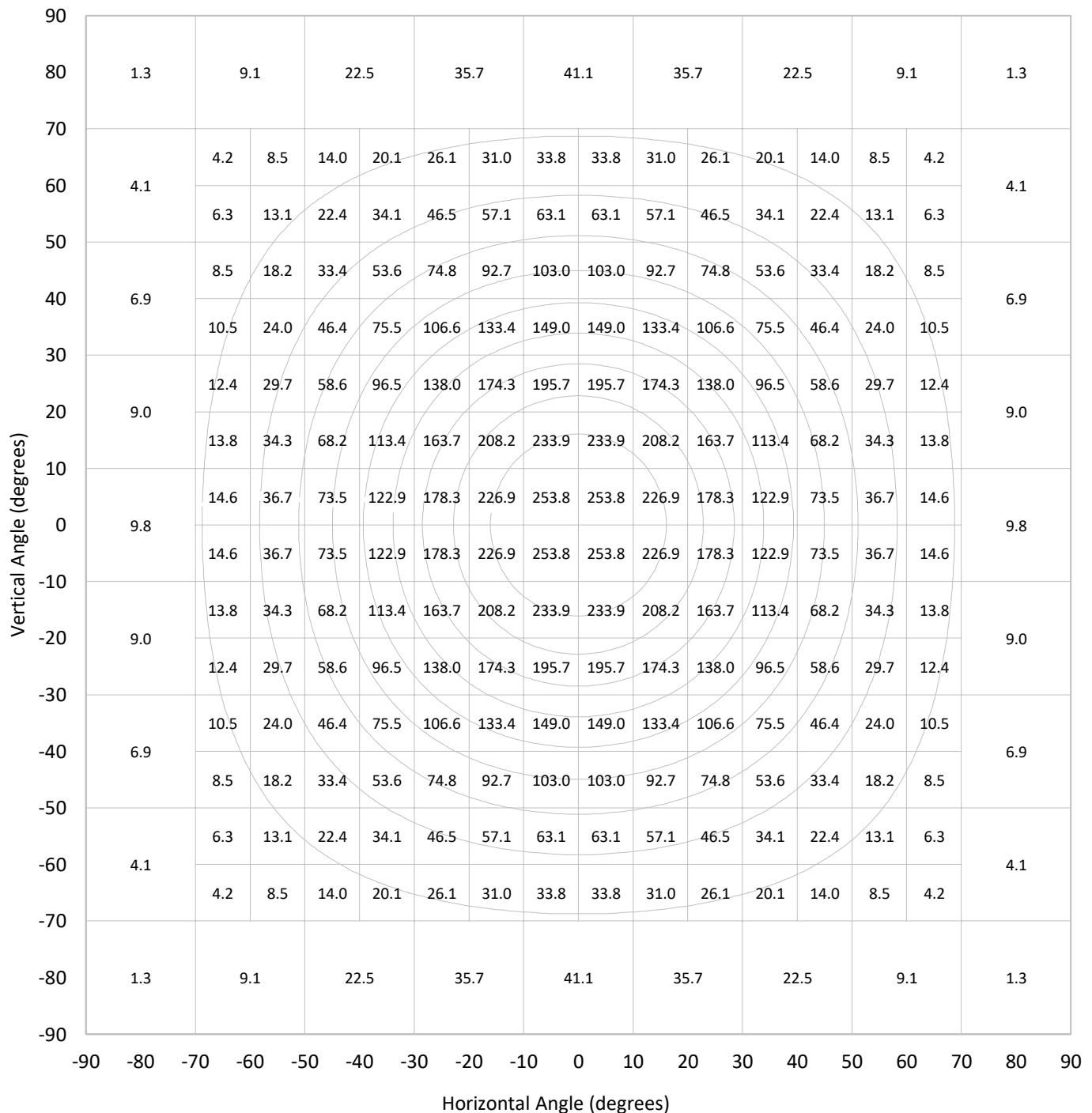
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Iso-Candela Plot



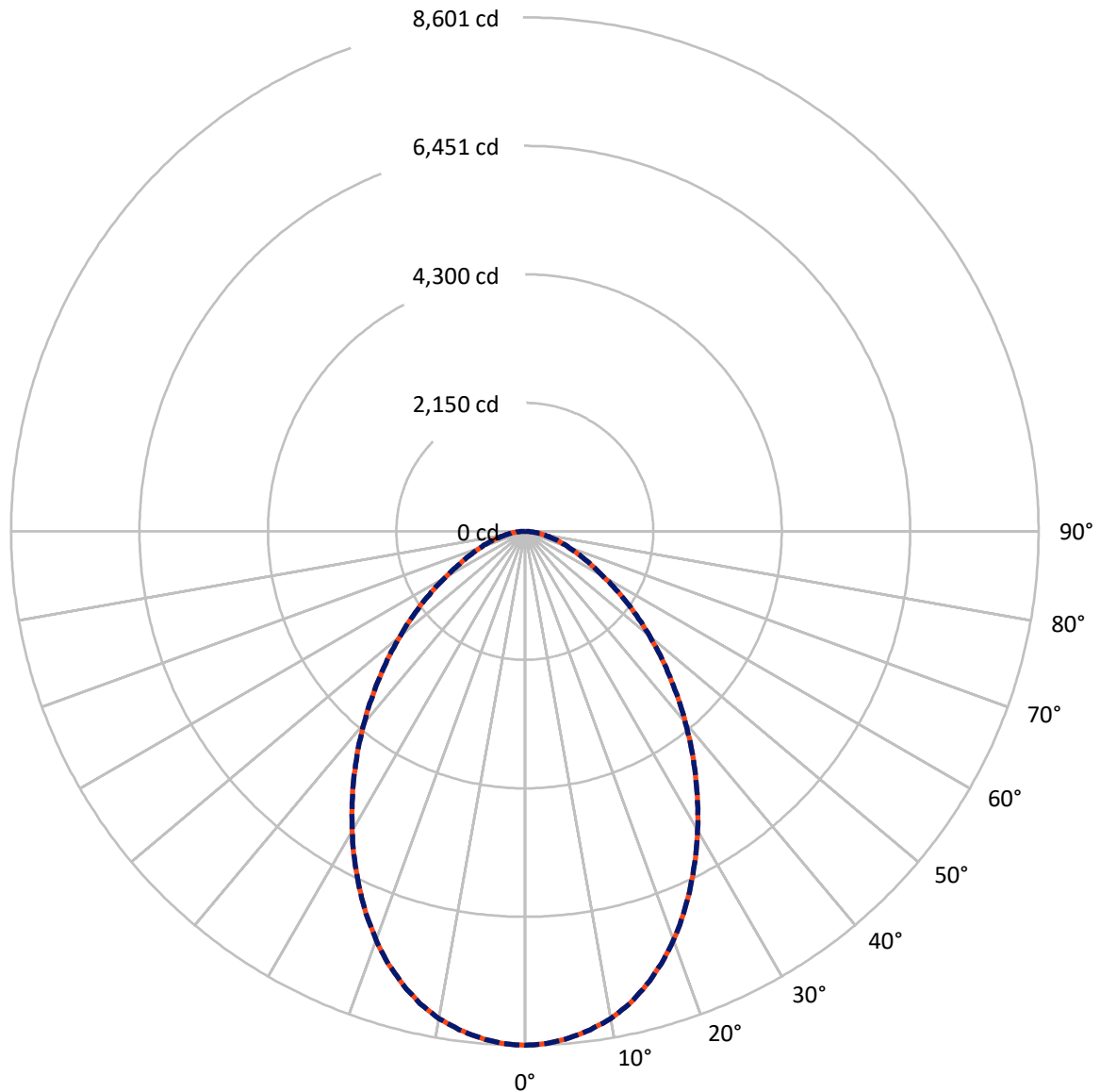
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Lumen Table



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Luminous Intensity Polar Plot

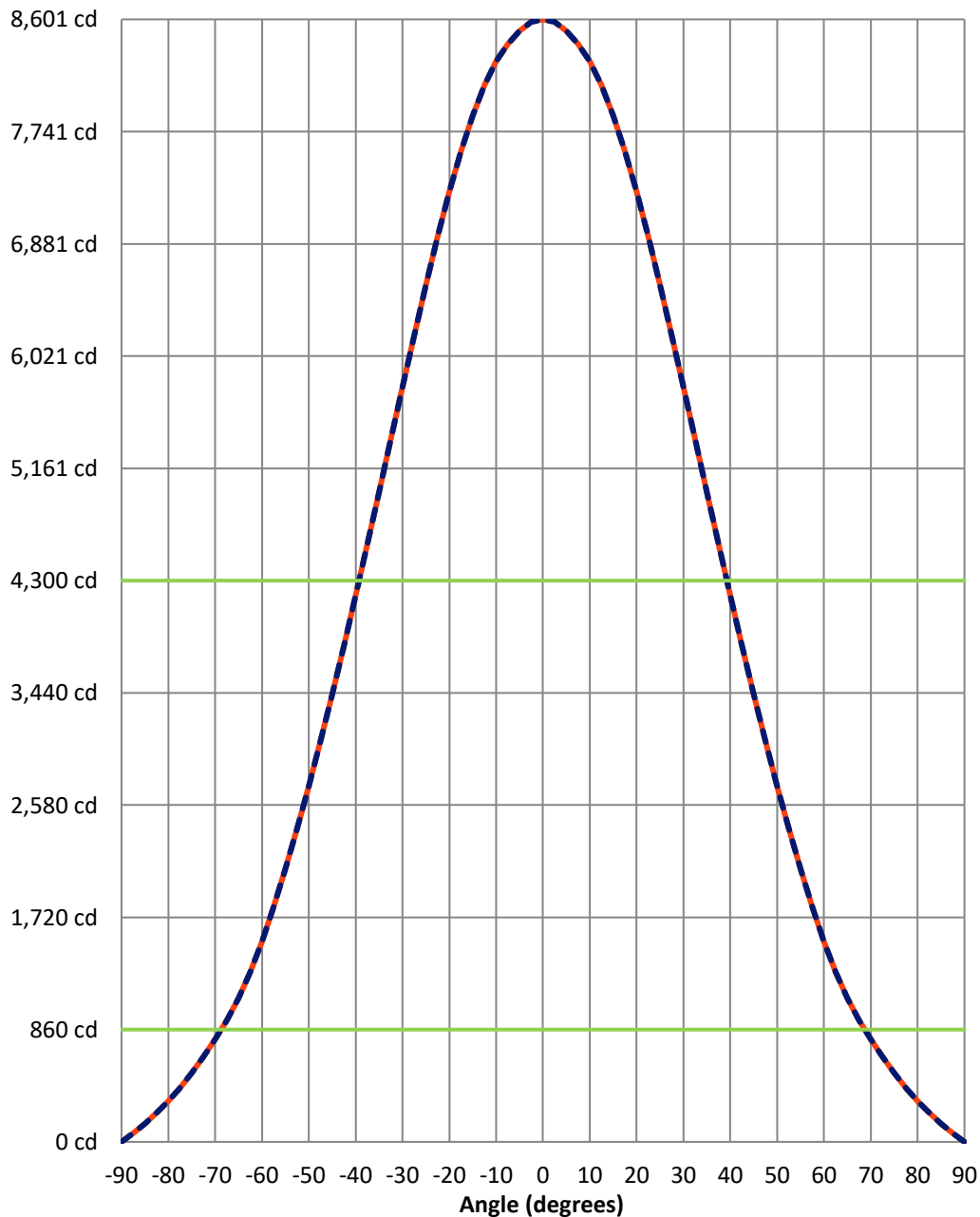


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	6700.7
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	10972.2
Efficiency:	70.9%

Spill:

Lumens:	4514
Efficiency:	29.1%

— 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°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	63.0	63.0	61.4	59.7
85°	138.9	138.9	138.9	138.9	138.9	135.6	134.0	132.4	130.8	127.6	125.9
82.5°	222.8	222.8	222.8	222.8	219.6	216.4	214.7	211.5	208.3	203.4	198.6
80°	311.6	311.6	311.6	311.6	306.8	303.5	298.7	295.5	290.6	284.2	277.7
77.5°	413.3	413.3	413.3	408.5	405.3	400.4	395.6	389.1	382.7	374.6	364.9
75°	528.0	528.0	528.0	521.5	516.7	511.8	503.8	495.7	486.0	474.7	461.8
72.5°	652.3	652.3	652.3	644.2	639.4	631.3	621.6	610.3	599.0	584.5	568.3
70°	786.3	786.3	786.3	776.6	768.5	760.5	747.6	734.6	718.5	702.3	683.0
67.5°	931.6	931.6	931.6	920.3	910.6	899.3	884.8	868.6	849.3	826.7	804.1
65°	1101.2	1101.2	1094.7	1085.0	1073.7	1057.6	1039.8	1017.2	993.0	963.9	933.2
62.5°	1301.4	1301.4	1291.7	1280.4	1265.8	1244.8	1220.6	1191.6	1157.7	1120.5	1083.4
60°	1533.9	1533.9	1522.6	1508.0	1487.0	1461.2	1428.9	1391.8	1349.8	1303.0	1257.8
57.5°	1801.9	1801.9	1787.4	1768.0	1742.1	1709.9	1669.5	1622.7	1569.4	1511.3	1454.7
55°	2092.5	2092.5	2074.7	2052.1	2021.5	1982.7	1934.3	1879.4	1814.8	1748.6	1675.9
52.5°	2400.9	2400.9	2379.9	2354.1	2318.6	2273.3	2218.4	2153.9	2079.6	2002.1	1916.5
50°	2725.4	2725.4	2701.2	2672.1	2631.8	2578.5	2515.5	2441.3	2358.9	2268.5	2170.0
47.5°	3072.6	3072.6	3045.1	3011.2	2962.8	2901.4	2827.1	2741.6	2647.9	2546.2	2434.8
45°	3429.4	3429.4	3398.7	3360.0	3306.7	3237.3	3154.9	3072.6	2953.1	2835.2	2706.1
42.5°	3800.7	3800.7	3765.2	3721.6	3660.3	3584.4	3490.7	3384.2	3266.3	3133.9	2993.4
40°	4186.6	4186.6	4146.3	4096.2	4028.4	3941.2	3836.3	3716.8	3584.4	3437.5	3282.5
37.5°	4580.6	4580.6	4535.4	4480.5	4404.6	4307.7	4189.9	4057.5	3908.9	3745.8	3574.7
35°	4977.8	4977.8	4927.7	4868.0	4784.0	4677.5	4549.9	4403.0	4238.3	4060.7	3868.6
32.5°	5383.0	5383.0	5328.1	5260.3	5165.1	5047.2	4906.7	4746.9	4580.6	4373.9	4164.0
30°	5783.5	5783.5	5723.7	5649.4	5547.7	5418.6	5265.2	5089.2	4893.8	4682.3	4456.3
27.5°	6177.4	6161.3	6111.2	6032.1	5920.7	5783.5	5617.2	5426.6	5215.1	4982.6	4740.4
25°	6564.9	6547.2	6492.3	6405.1	6285.6	6135.4	5956.2	5752.8	5525.1	5279.7	5014.9
22.5°	6936.3	6916.9	6858.8	6765.1	6637.6	6474.5	6282.4	6064.4	5822.2	5559.0	5279.7
20°	7280.2	7259.2	7199.5	7101.0	6968.6	6795.8	6592.4	6358.3	6099.9	5822.2	5525.1
17.5°	7590.2	7569.2	7506.2	7404.5	7280.2	7088.0	6878.2	6631.1	6358.3	6064.4	5752.8
15°	7863.1	7840.4	7775.9	7674.1	7532.1	7351.2	7130.0	6878.2	6592.4	6282.4	5956.2
12.5°	8095.6	8072.9	8006.8	7905.0	7758.1	7577.3	7351.2	7088.0	6795.8	6474.5	6135.4
10°	8279.6	8257.0	8194.0	8097.2	7945.4	7758.1	7532.1	7280.2	6968.6	6637.6	6285.6
7.5°	8412.0	8391.0	8332.9	8236.0	8097.2	7905.0	7674.1	7404.5	7101.0	6765.1	6405.1
5°	8512.1	8487.9	8429.8	8332.9	8194.0	8006.8	7775.9	7506.2	7199.5	6858.8	6492.3
2.5°	8581.5	8552.5	8487.9	8391.0	8257.0	8072.9	7840.4	7569.2	7259.2	6916.9	6547.2
0°	8600.9	8581.5	8512.1	8412.0	8279.6	8095.6	7863.1	7590.2	7280.2	6936.3	6564.9

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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°	58.1	58.1	56.5	54.9	53.3	50.1	48.4	46.8	45.2	42.0	40.4
85°	122.7	119.5	116.3	113.0	108.2	104.9	100.1	96.9	92.0	87.2	82.3
82.5°	193.8	188.9	182.4	177.6	171.1	163.1	156.6	148.5	140.5	134.0	125.9
80°	271.3	263.2	255.1	247.0	237.3	227.7	218.0	208.3	197.0	185.7	174.4
77.5°	355.2	343.9	332.6	319.7	308.4	295.5	282.6	269.6	255.1	240.6	226.0
75°	448.9	434.3	418.2	402.0	387.5	369.7	352.0	334.2	314.8	297.1	277.7
72.5°	550.6	532.8	513.4	494.1	473.1	450.5	427.9	403.6	381.0	358.4	334.2
70°	660.4	639.4	615.2	590.9	565.1	537.7	510.2	481.1	452.1	423.0	394.0
67.5°	778.2	752.4	723.3	694.3	662.0	629.7	597.4	563.5	528.0	492.4	458.5
65°	904.2	871.9	838.0	800.8	763.7	726.6	687.8	647.5	607.1	565.1	528.0
62.5°	1044.6	1004.3	960.7	915.5	873.5	828.3	786.3	736.3	687.8	641.0	594.2
60°	1207.7	1154.4	1101.2	1044.6	991.4	933.2	881.6	826.7	771.8	718.5	663.6
57.5°	1390.2	1322.3	1257.8	1190.0	1118.9	1054.3	988.1	921.9	860.6	797.6	737.9
55°	1596.8	1514.5	1433.8	1349.8	1267.5	1186.7	1102.8	1028.5	952.6	881.6	812.1
52.5°	1822.9	1729.2	1629.1	1533.9	1428.9	1328.8	1235.2	1141.5	1052.7	967.1	888.0
50°	2065.1	1955.3	1840.6	1724.4	1604.9	1487.0	1374.0	1264.2	1160.9	1060.8	967.1
47.5°	2316.9	2192.6	2061.8	1929.4	1801.9	1658.2	1522.6	1398.2	1273.9	1160.9	1052.7
45°	2575.3	2434.8	2291.1	2140.9	1990.8	1835.8	1685.6	1533.9	1398.2	1264.2	1141.5
42.5°	2841.7	2683.4	2523.6	2357.3	2191.0	2021.5	1851.9	1685.6	1522.6	1374.0	1235.2
40°	3116.2	2941.8	2759.3	2578.5	2400.9	2207.1	2021.5	1835.8	1658.2	1487.0	1328.8
37.5°	3390.6	3200.1	3003.1	2799.7	2596.3	2400.9	2191.0	1990.8	1801.9	1604.9	1428.9
35°	3666.7	3456.8	3243.7	3022.5	2799.7	2578.5	2357.3	2140.9	1929.4	1724.4	1533.9
32.5°	3944.4	3715.2	3479.4	3243.7	3003.1	2759.3	2523.6	2291.1	2061.8	1840.6	1629.1
30°	4217.3	3968.7	3715.2	3456.8	3200.1	2941.8	2683.4	2434.8	2192.6	1955.3	1729.2
27.5°	4483.7	4217.3	3944.4	3666.7	3390.6	3116.2	2841.7	2575.3	2316.9	2065.1	1822.9
25°	4740.4	4456.3	4164.0	3868.6	3574.7	3282.5	2993.4	2706.1	2434.8	2170.0	1916.5
22.5°	4982.6	4682.3	4373.9	4060.7	3745.8	3437.5	3133.9	2835.2	2546.2	2268.5	2002.1
20°	5215.1	4893.8	4580.6	4238.3	3908.9	3584.4	3266.3	2953.1	2647.9	2358.9	2079.6
17.5°	5426.6	5089.2	4746.9	4403.0	4057.5	3716.8	3384.2	3072.6	2741.6	2441.3	2153.9
15°	5617.2	5265.2	4906.7	4549.9	4189.9	3836.3	3490.7	3154.9	2827.1	2515.5	2218.4
12.5°	5783.5	5418.6	5047.2	4677.5	4307.7	3941.2	3584.4	3237.3	2901.4	2578.5	2273.3
10°	5920.7	5547.7	5165.1	4784.0	4404.6	4028.4	3660.3	3306.7	2962.8	2631.8	2318.6
7.5°	6032.1	5649.4	5260.3	4868.0	4480.5	4096.2	3721.6	3360.0	3011.2	2672.1	2354.1
5°	6111.2	5723.7	5328.1	4927.7	4535.4	4146.3	3765.2	3398.7	3045.1	2701.2	2379.9
2.5°	6161.3	5783.5	5383.0	4977.8	4580.6	4186.6	3800.7	3429.4	3072.6	2725.4	2400.9
0°	6177.4	5783.5	5383.0	4977.8	4580.6	4186.6	3800.7	3429.4	3072.6	2725.4	2400.9

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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°	38.8	35.5	32.3	30.7	27.4	25.8	22.6	19.4	17.8	14.5	11.3
85°	77.5	71.0	66.2	61.4	56.5	50.1	45.2	40.4	33.9	29.1	22.6
82.5°	117.9	109.8	101.7	93.6	85.6	77.5	67.8	59.7	51.7	43.6	33.9
80°	163.1	150.2	138.9	127.6	116.3	104.9	92.0	80.7	67.8	56.5	45.2
77.5°	209.9	195.4	179.2	163.1	146.9	132.4	116.3	101.7	87.2	71.0	56.5
75°	259.9	240.6	222.8	201.8	182.4	161.5	142.1	122.7	104.9	87.2	67.8
72.5°	311.6	287.4	263.2	240.6	216.4	192.1	169.5	145.3	122.7	101.7	80.7
70°	364.9	335.8	306.8	279.3	251.9	222.8	197.0	169.5	142.1	116.3	92.0
67.5°	421.4	387.5	353.6	318.1	287.4	255.1	222.8	192.1	161.5	132.4	104.9
65°	482.8	442.4	400.4	363.3	322.9	287.4	251.9	216.4	182.4	146.9	116.3
62.5°	545.7	498.9	452.1	405.3	363.3	318.1	279.3	240.6	201.8	163.1	127.6
60°	610.3	557.0	503.8	452.1	400.4	353.6	306.8	263.2	222.8	179.2	138.9
57.5°	676.5	616.8	557.0	498.9	442.4	387.5	335.8	287.4	240.6	195.4	150.2
55°	744.3	676.5	610.3	545.7	482.8	421.4	364.9	311.6	259.9	209.9	163.1
52.5°	812.1	737.9	663.6	594.2	528.0	458.5	394.0	334.2	277.7	226.0	174.4
50°	881.6	797.6	718.5	641.0	565.1	492.4	423.0	358.4	297.1	240.6	185.7
47.5°	952.6	860.6	771.8	687.8	607.1	528.0	452.1	381.0	314.8	255.1	197.0
45°	1028.5	921.9	826.7	736.3	647.5	563.5	481.1	403.6	334.2	269.6	208.3
42.5°	1102.8	988.1	881.6	786.3	687.8	597.4	510.2	427.9	352.0	282.6	218.0
40°	1186.7	1054.3	933.2	828.3	726.6	629.7	537.7	450.5	369.7	295.5	227.7
37.5°	1267.5	1118.9	991.4	873.5	763.7	662.0	565.1	473.1	387.5	308.4	237.3
35°	1349.8	1190.0	1044.6	915.5	800.8	694.3	590.9	494.1	402.0	319.7	247.0
32.5°	1433.8	1257.8	1101.2	960.7	838.0	723.3	615.2	513.4	418.2	332.6	255.1
30°	1514.5	1322.3	1154.4	1004.3	871.9	752.4	639.4	532.8	434.3	343.9	263.2
27.5°	1596.8	1390.2	1207.7	1044.6	904.2	778.2	660.4	550.6	448.9	355.2	271.3
25°	1675.9	1454.7	1257.8	1083.4	933.2	804.1	683.0	568.3	461.8	364.9	277.7
22.5°	1748.6	1511.3	1303.0	1120.5	963.9	826.7	702.3	584.5	474.7	374.6	284.2
20°	1814.8	1569.4	1349.8	1157.7	993.0	849.3	718.5	599.0	486.0	382.7	290.6
17.5°	1879.4	1622.7	1391.8	1191.6	1017.2	868.6	734.6	610.3	495.7	389.1	295.5
15°	1934.3	1669.5	1428.9	1220.6	1039.8	884.8	747.6	621.6	503.8	395.6	298.7
12.5°	1982.7	1709.9	1461.2	1244.8	1057.6	899.3	760.5	631.3	511.8	400.4	303.5
10°	2021.5	1742.1	1487.0	1265.8	1073.7	910.6	768.5	639.4	516.7	405.3	306.8
7.5°	2052.1	1768.0	1508.0	1280.4	1085.0	920.3	776.6	644.2	521.5	408.5	311.6
5°	2074.7	1787.4	1522.6	1291.7	1094.7	931.6	786.3	652.3	528.0	413.3	311.6
2.5°	2092.5	1801.9	1533.9	1301.4	1101.2	931.6	786.3	652.3	528.0	413.3	311.6
0°	2092.5	1801.9	1533.9	1301.4	1101.2	931.6	786.3	652.3	528.0	413.3	311.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.1	6.5	3.2	0.0
85°	17.8	11.3	6.5	0.0
82.5°	25.8	17.8	8.1	0.0
80°	33.9	22.6	11.3	0.0
77.5°	43.6	29.1	14.5	0.0
75°	51.7	33.9	17.8	0.0
72.5°	59.7	40.4	19.4	0.0
70°	67.8	45.2	22.6	0.0
67.5°	77.5	50.1	25.8	0.0
65°	85.6	56.5	27.4	0.0
62.5°	93.6	61.4	30.7	0.0
60°	101.7	66.2	32.3	0.0
57.5°	109.8	71.0	35.5	0.0
55°	117.9	77.5	38.8	0.0
52.5°	125.9	82.3	40.4	0.0
50°	134.0	87.2	42.0	0.0
47.5°	140.5	92.0	45.2	0.0
45°	148.5	96.9	46.8	0.0
42.5°	156.6	100.1	48.4	0.0
40°	163.1	104.9	50.1	0.0
37.5°	171.1	108.2	53.3	0.0
35°	177.6	113.0	54.9	0.0
32.5°	182.4	116.3	56.5	0.0
30°	188.9	119.5	58.1	0.0
27.5°	193.8	122.7	58.1	0.0
25°	198.6	125.9	59.7	0.0
22.5°	203.4	127.6	61.4	0.0
20°	208.3	130.8	63.0	0.0
17.5°	211.5	132.4	63.0	0.0
15°	214.7	134.0	66.2	0.0
12.5°	216.4	135.6	66.2	0.0
10°	219.6	138.9	66.2	0.0
7.5°	222.8	138.9	66.2	0.0
5°	222.8	138.9	66.2	0.0
2.5°	222.8	138.9	66.2	0.0
0°	222.8	138.9	66.2	0.0

(END OF REPORT)