

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: P624520

Luminaire Tested: **IFLD-L-SA8A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624520
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

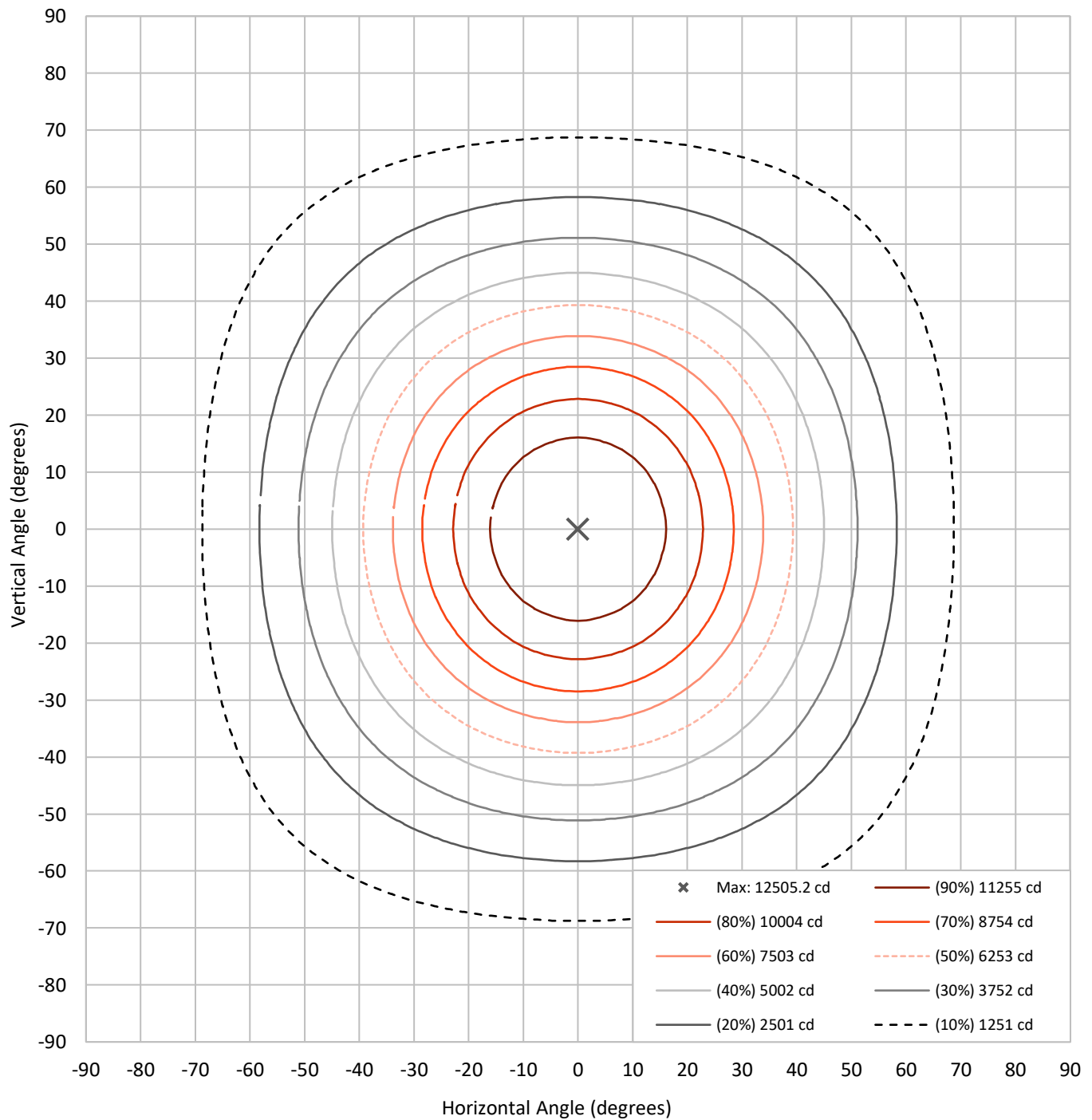
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22515.9 lumens	Max Intensity:	12505.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	9742.4 lumens	Field Lumens:	15952.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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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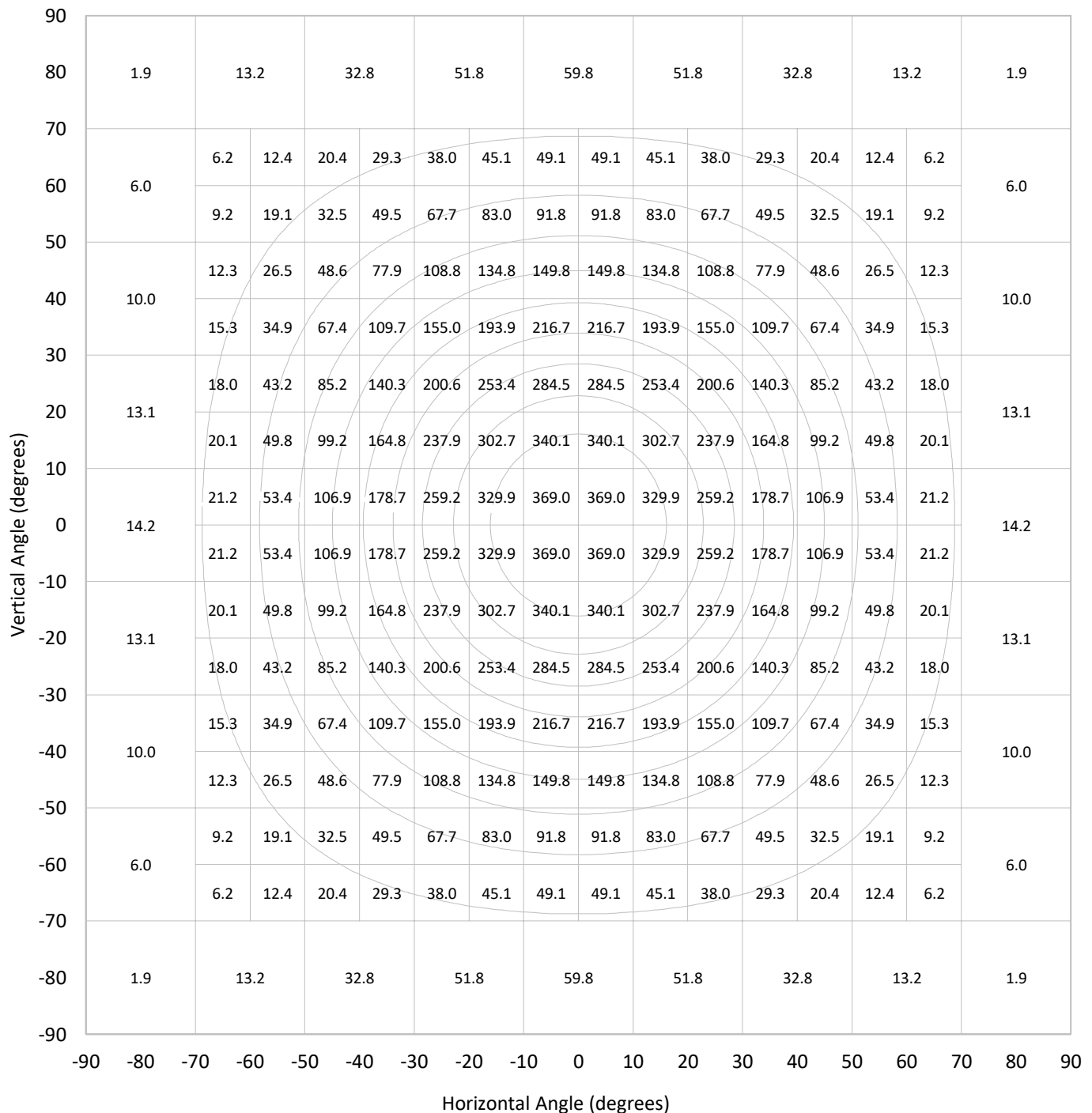
Iso-Candela Plot



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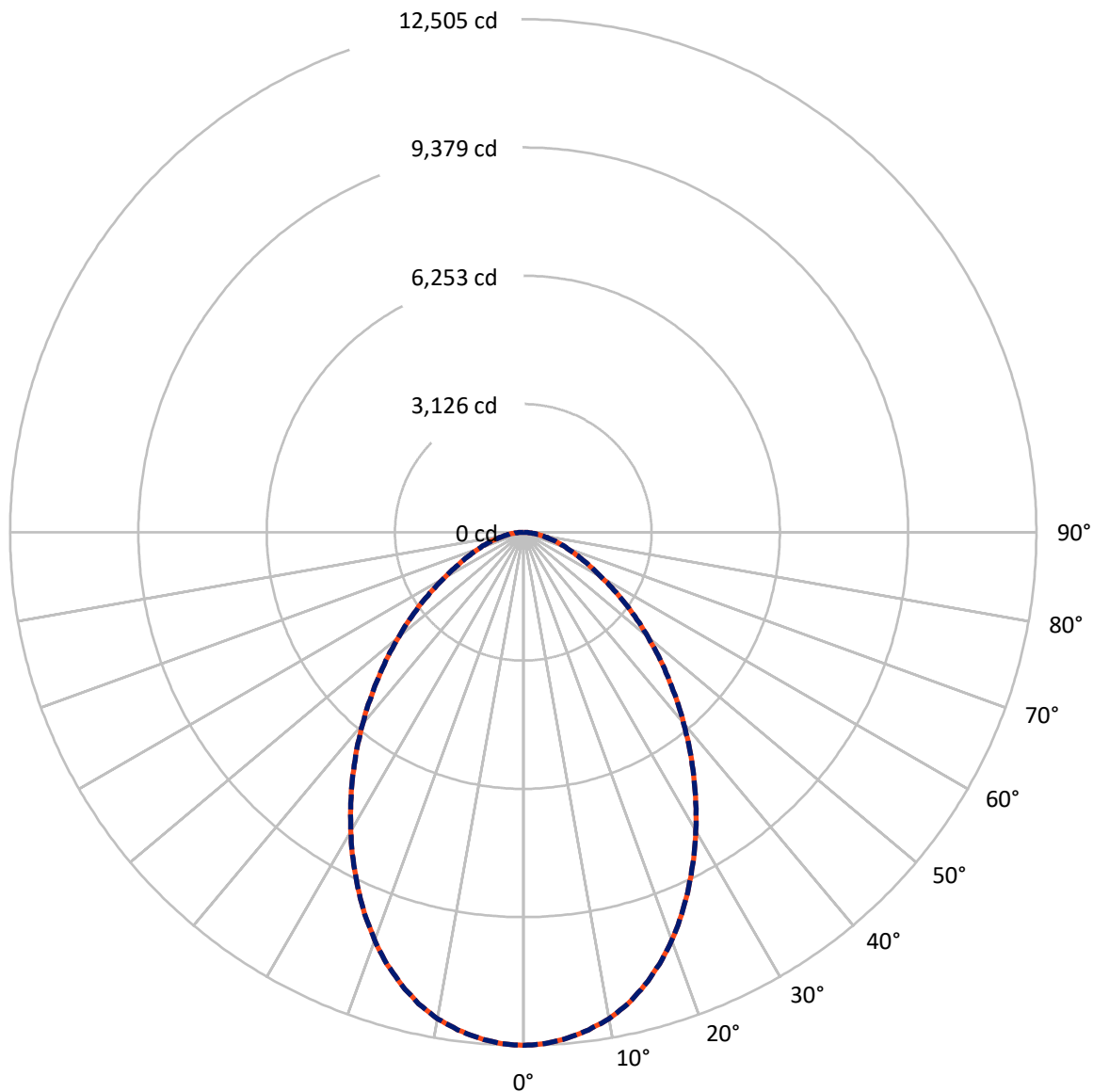
Lumen Table



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Luminous Intensity Polar Plot



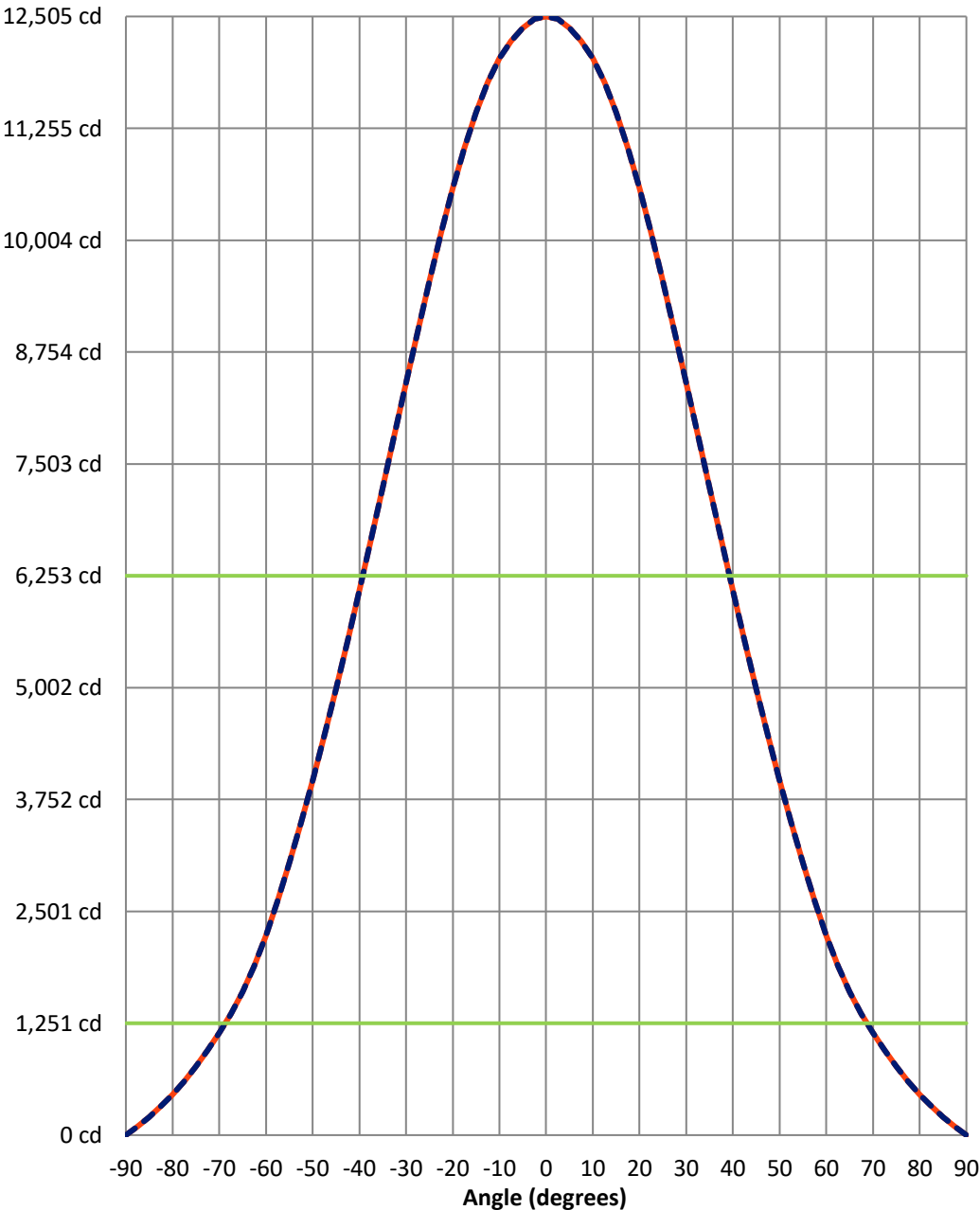
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9742.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15952.8
Efficiency: 70.9%

Spill:
Lumens: 6563
Efficiency: 29.1%

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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°	96.2	96.2	96.2	96.2	96.2	96.2	96.2	91.6	91.6	89.2	86.9
85°	201.9	201.9	201.9	201.9	201.9	197.2	194.8	192.5	190.1	185.5	183.1
82.5°	324.0	324.0	324.0	324.0	319.3	314.6	312.2	307.5	302.8	295.8	288.7
80°	453.1	453.1	453.1	453.1	446.0	441.3	434.3	429.6	422.6	413.2	403.8
77.5°	601.0	601.0	601.0	593.9	589.2	582.2	575.1	565.8	556.4	544.6	530.5
75°	767.6	767.6	767.6	758.2	751.2	744.2	732.4	720.7	706.6	690.2	671.4
72.5°	948.4	948.4	948.4	936.7	929.6	917.9	903.8	887.4	870.9	849.8	826.3
70°	1143.2	1143.2	1143.2	1129.2	1117.4	1105.7	1086.9	1068.1	1044.6	1021.2	993.0
67.5°	1354.5	1354.5	1354.5	1338.1	1324.0	1307.6	1286.4	1263.0	1234.8	1201.9	1169.1
65°	1601.0	1601.0	1591.6	1577.5	1561.1	1537.6	1511.8	1478.9	1443.7	1401.5	1356.9
62.5°	1892.1	1892.1	1878.0	1861.6	1840.4	1809.9	1774.7	1732.5	1683.2	1629.2	1575.2
60°	2230.1	2230.1	2213.7	2192.6	2162.1	2124.5	2077.5	2023.6	1962.5	1894.4	1828.7
57.5°	2619.8	2619.8	2598.7	2570.5	2533.0	2486.0	2427.3	2359.2	2281.8	2197.3	2115.1
55°	3042.4	3042.4	3016.6	2983.7	2939.1	2882.7	2812.3	2732.5	2638.6	2542.4	2436.7
52.5°	3490.7	3490.7	3460.2	3422.7	3371.0	3305.3	3225.5	3131.6	3023.6	2910.9	2786.5
50°	3962.6	3962.6	3927.4	3885.1	3826.4	3749.0	3657.4	3549.4	3429.7	3298.3	3155.1
47.5°	4467.3	4467.3	4427.4	4378.1	4307.7	4218.5	4110.5	3986.1	3849.9	3702.0	3540.0
45°	4986.1	4986.1	4941.5	4885.2	4807.7	4706.8	4587.0	4467.3	4293.6	4122.2	3934.4
42.5°	5526.0	5526.0	5474.4	5411.0	5321.8	5211.5	5075.3	4920.4	4749.0	4556.5	4352.3
40°	6087.1	6087.1	6028.4	5955.6	5857.0	5730.3	5577.7	5404.0	5211.5	4997.9	4772.5
37.5°	6659.9	6659.9	6594.2	6514.3	6404.0	6263.2	6091.8	5899.3	5683.3	5446.2	5197.4
35°	7237.4	7237.4	7164.6	7077.7	6955.7	6800.7	6615.3	6401.7	6162.2	5904.0	5624.6
32.5°	7826.6	7826.6	7746.8	7648.2	7509.7	7338.3	7134.1	6901.7	6659.9	6359.4	6054.2
30°	8408.8	8408.8	8321.9	8213.9	8066.0	7878.2	7655.2	7399.4	7115.3	6807.8	6479.1
27.5°	8981.6	8958.1	8885.3	8770.3	8608.3	8408.8	8167.0	7890.0	7582.5	7244.4	6892.3
25°	9545.0	9519.2	9439.3	9312.6	9138.9	8920.5	8660.0	8364.2	8033.2	7676.4	7291.4
22.5°	10084.9	10056.7	9972.2	9836.1	9650.6	9413.5	9134.2	8817.3	8465.1	8082.5	7676.4
20°	10584.9	10554.4	10467.6	10324.4	10131.9	9880.7	9584.9	9244.5	8868.9	8465.1	8033.2
17.5°	11035.6	11005.1	10913.6	10765.7	10584.9	10305.6	10000.4	9641.2	9244.5	8817.3	8364.2
15°	11432.4	11399.5	11305.6	11157.7	10951.1	10688.2	10366.6	10000.4	9584.9	9134.2	8660.0
12.5°	11770.4	11737.6	11641.3	11493.4	11279.8	11016.9	10688.2	10305.6	9880.7	9413.5	8920.5
10°	12038.0	12005.2	11913.6	11772.8	11552.1	11279.8	10951.1	10584.9	10131.9	9650.6	9138.9
7.5°	12230.5	12200.0	12115.5	11974.7	11772.8	11493.4	11157.7	10765.7	10324.4	9836.1	9312.6
5°	12376.1	12340.9	12256.4	12115.5	11913.6	11641.3	11305.6	10913.6	10467.6	9972.2	9439.3
2.5°	12477.0	12434.8	12340.9	12200.0	12005.2	11737.6	11399.5	11005.1	10554.4	10056.7	9519.2
0°	12505.2	12477.0	12376.1	12230.5	12038.0	11770.4	11432.4	11035.6	10584.9	10084.9	9545.0

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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°	84.5	84.5	82.2	79.8	77.5	72.8	70.4	68.1	65.7	61.0	58.7
85°	178.4	173.7	169.0	164.3	157.3	152.6	145.5	140.9	133.8	126.8	119.7
82.5°	281.7	274.7	265.3	258.2	248.8	237.1	227.7	216.0	204.2	194.8	183.1
80°	394.4	382.6	370.9	359.2	345.1	331.0	316.9	302.8	286.4	270.0	253.5
77.5°	516.5	500.0	483.6	464.8	448.4	429.6	410.8	392.0	370.9	349.8	328.7
75°	652.6	631.5	608.0	584.5	563.4	537.6	511.8	485.9	457.8	431.9	403.8
72.5°	800.5	774.7	746.5	718.3	687.8	655.0	622.1	586.9	554.0	521.1	485.9
70°	960.1	929.6	894.4	859.2	821.6	781.7	741.8	699.6	657.3	615.0	572.8
67.5°	1131.5	1093.9	1051.7	1009.4	962.5	915.5	868.6	819.3	767.6	716.0	666.7
65°	1314.6	1267.7	1218.4	1164.4	1110.4	1056.4	1000.0	941.4	882.7	821.6	767.6
62.5°	1518.8	1460.2	1396.8	1331.0	1270.0	1204.3	1143.2	1070.5	1000.0	932.0	863.9
60°	1755.9	1678.5	1601.0	1518.8	1441.4	1356.9	1281.7	1201.9	1122.1	1044.6	964.8
57.5°	2021.2	1922.6	1828.7	1730.1	1626.8	1532.9	1436.7	1340.4	1251.2	1159.7	1072.8
55°	2321.7	2202.0	2084.6	1962.5	1842.8	1725.4	1603.4	1495.4	1385.0	1281.7	1180.8
52.5°	2650.3	2514.2	2368.6	2230.1	2077.5	1932.0	1795.8	1659.7	1530.6	1406.2	1291.1
50°	3002.5	2842.8	2676.2	2507.1	2333.4	2162.1	1997.7	1838.1	1687.9	1542.3	1406.2
47.5°	3368.7	3187.9	2997.8	2805.3	2619.8	2410.9	2213.7	2032.9	1852.2	1687.9	1530.6
45°	3744.3	3540.0	3331.1	3112.8	2894.5	2669.1	2450.8	2230.1	2032.9	1838.1	1659.7
42.5°	4131.6	3901.6	3669.2	3427.4	3185.6	2939.1	2692.6	2450.8	2213.7	1997.7	1795.8
40°	4530.7	4277.2	4011.9	3749.0	3490.7	3209.0	2939.1	2669.1	2410.9	2162.1	1932.0
37.5°	4929.8	4652.8	4366.4	4070.6	3774.8	3490.7	3185.6	2894.5	2619.8	2333.4	2077.5
35°	5331.2	5026.0	4716.1	4394.5	4070.6	3749.0	3427.4	3112.8	2805.3	2507.1	2230.1
32.5°	5735.0	5401.6	5058.9	4716.1	4366.4	4011.9	3669.2	3331.1	2997.8	2676.2	2368.6
30°	6131.7	5770.2	5401.6	5026.0	4652.8	4277.2	3901.6	3540.0	3187.9	2842.8	2514.2
27.5°	6519.0	6131.7	5735.0	5331.2	4929.8	4530.7	4131.6	3744.3	3368.7	3002.5	2650.3
25°	6892.3	6479.1	6054.2	5624.6	5197.4	4772.5	4352.3	3934.4	3540.0	3155.1	2786.5
22.5°	7244.4	6807.8	6359.4	5904.0	5446.2	4997.9	4556.5	4122.2	3702.0	3298.3	2910.9
20°	7582.5	7115.3	6659.9	6162.2	5683.3	5211.5	4749.0	4293.6	3849.9	3429.7	3023.6
17.5°	7890.0	7399.4	6901.7	6401.7	5899.3	5404.0	4920.4	4467.3	3986.1	3549.4	3131.6
15°	8167.0	7655.2	7134.1	6615.3	6091.8	5577.7	5075.3	4587.0	4110.5	3657.4	3225.5
12.5°	8408.8	7878.2	7338.3	6800.7	6263.2	5730.3	5211.5	4706.8	4218.5	3749.0	3305.3
10°	8608.3	8066.0	7509.7	6955.7	6404.0	5857.0	5321.8	4807.7	4307.7	3826.4	3371.0
7.5°	8770.3	8213.9	7648.2	7077.7	6514.3	5955.6	5411.0	4885.2	4378.1	3885.1	3422.7
5°	8885.3	8321.9	7746.8	7164.6	6594.2	6028.4	5474.4	4941.5	4427.4	3927.4	3460.2
2.5°	8958.1	8408.8	7826.6	7237.4	6659.9	6087.1	5526.0	4986.1	4467.3	3962.6	3490.7
0°	8981.6	8408.8	7826.6	7237.4	6659.9	6087.1	5526.0	4986.1	4467.3	3962.6	3490.7

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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°	56.3	51.6	47.0	44.6	39.9	37.6	32.9	28.2	25.8	21.1	16.4
85°	112.7	103.3	96.2	89.2	82.2	72.8	65.7	58.7	49.3	42.3	32.9
82.5°	171.4	159.6	147.9	136.2	124.4	112.7	98.6	86.9	75.1	63.4	49.3
80°	237.1	218.3	201.9	185.5	169.0	152.6	133.8	117.4	98.6	82.2	65.7
77.5°	305.2	284.0	260.6	237.1	213.6	192.5	169.0	147.9	126.8	103.3	82.2
75°	377.9	349.8	324.0	293.4	265.3	234.8	206.6	178.4	152.6	126.8	98.6
72.5°	453.1	417.9	382.6	349.8	314.6	279.4	246.5	211.3	178.4	147.9	117.4
70°	530.5	488.3	446.0	406.1	366.2	324.0	286.4	246.5	206.6	169.0	133.8
67.5°	612.7	563.4	514.1	462.5	417.9	370.9	324.0	279.4	234.8	192.5	152.6
65°	701.9	643.2	582.2	528.2	469.5	417.9	366.2	314.6	265.3	213.6	169.0
62.5°	793.5	725.4	657.3	589.2	528.2	462.5	406.1	349.8	293.4	237.1	185.5
60°	887.4	809.9	732.4	657.3	582.2	514.1	446.0	382.6	324.0	260.6	201.9
57.5°	983.6	896.7	809.9	725.4	643.2	563.4	488.3	417.9	349.8	284.0	218.3
55°	1082.2	983.6	887.4	793.5	701.9	612.7	530.5	453.1	377.9	305.2	237.1
52.5°	1180.8	1072.8	964.8	863.9	767.6	666.7	572.8	485.9	403.8	328.7	253.5
50°	1281.7	1159.7	1044.6	932.0	821.6	716.0	615.0	521.1	431.9	349.8	270.0
47.5°	1385.0	1251.2	1122.1	1000.0	882.7	767.6	657.3	554.0	457.8	370.9	286.4
45°	1495.4	1340.4	1201.9	1070.5	941.4	819.3	699.6	586.9	485.9	392.0	302.8
42.5°	1603.4	1436.7	1281.7	1143.2	1000.0	868.6	741.8	622.1	511.8	410.8	316.9
40°	1725.4	1532.9	1356.9	1204.3	1056.4	915.5	781.7	655.0	537.6	429.6	331.0
37.5°	1842.8	1626.8	1441.4	1270.0	1110.4	962.5	821.6	687.8	563.4	448.4	345.1
35°	1962.5	1730.1	1518.8	1331.0	1164.4	1009.4	859.2	718.3	584.5	464.8	359.2
32.5°	2084.6	1828.7	1601.0	1396.8	1218.4	1051.7	894.4	746.5	608.0	483.6	370.9
30°	2202.0	1922.6	1678.5	1460.2	1267.7	1093.9	929.6	774.7	631.5	500.0	382.6
27.5°	2321.7	2021.2	1755.9	1518.8	1314.6	1131.5	960.1	800.5	652.6	516.5	394.4
25°	2436.7	2115.1	1828.7	1575.2	1356.9	1169.1	993.0	826.3	671.4	530.5	403.8
22.5°	2542.4	2197.3	1894.4	1629.2	1401.5	1201.9	1021.2	849.8	690.2	544.6	413.2
20°	2638.6	2281.8	1962.5	1683.2	1443.7	1234.8	1044.6	870.9	706.6	556.4	422.6
17.5°	2732.5	2359.2	2023.6	1732.5	1478.9	1263.0	1068.1	887.4	720.7	565.8	429.6
15°	2812.3	2427.3	2077.5	1774.7	1511.8	1286.4	1086.9	903.8	732.4	575.1	434.3
12.5°	2882.7	2486.0	2124.5	1809.9	1537.6	1307.6	1105.7	917.9	744.2	582.2	441.3
10°	2939.1	2533.0	2162.1	1840.4	1561.1	1324.0	1117.4	929.6	751.2	589.2	446.0
7.5°	2983.7	2570.5	2192.6	1861.6	1577.5	1338.1	1129.2	936.7	758.2	593.9	453.1
5°	3016.6	2598.7	2213.7	1878.0	1591.6	1354.5	1143.2	948.4	767.6	601.0	453.1
2.5°	3042.4	2619.8	2230.1	1892.1	1601.0	1354.5	1143.2	948.4	767.6	601.0	453.1
0°	3042.4	2619.8	2230.1	1892.1	1601.0	1354.5	1143.2	948.4	767.6	601.0	453.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	9.4	4.7	0.0
85°	25.8	16.4	9.4	0.0
82.5°	37.6	25.8	11.7	0.0
80°	49.3	32.9	16.4	0.0
77.5°	63.4	42.3	21.1	0.0
75°	75.1	49.3	25.8	0.0
72.5°	86.9	58.7	28.2	0.0
70°	98.6	65.7	32.9	0.0
67.5°	112.7	72.8	37.6	0.0
65°	124.4	82.2	39.9	0.0
62.5°	136.2	89.2	44.6	0.0
60°	147.9	96.2	47.0	0.0
57.5°	159.6	103.3	51.6	0.0
55°	171.4	112.7	56.3	0.0
52.5°	183.1	119.7	58.7	0.0
50°	194.8	126.8	61.0	0.0
47.5°	204.2	133.8	65.7	0.0
45°	216.0	140.9	68.1	0.0
42.5°	227.7	145.5	70.4	0.0
40°	237.1	152.6	72.8	0.0
37.5°	248.8	157.3	77.5	0.0
35°	258.2	164.3	79.8	0.0
32.5°	265.3	169.0	82.2	0.0
30°	274.7	173.7	84.5	0.0
27.5°	281.7	178.4	84.5	0.0
25°	288.7	183.1	86.9	0.0
22.5°	295.8	185.5	89.2	0.0
20°	302.8	190.1	91.6	0.0
17.5°	307.5	192.5	91.6	0.0
15°	312.2	194.8	96.2	0.0
12.5°	314.6	197.2	96.2	0.0
10°	319.3	201.9	96.2	0.0
7.5°	324.0	201.9	96.2	0.0
5°	324.0	201.9	96.2	0.0
2.5°	324.0	201.9	96.2	0.0
0°	324.0	201.9	96.2	0.0

(END OF REPORT)