

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: P623962

Luminaire Tested: **IFLD-S-SA3B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

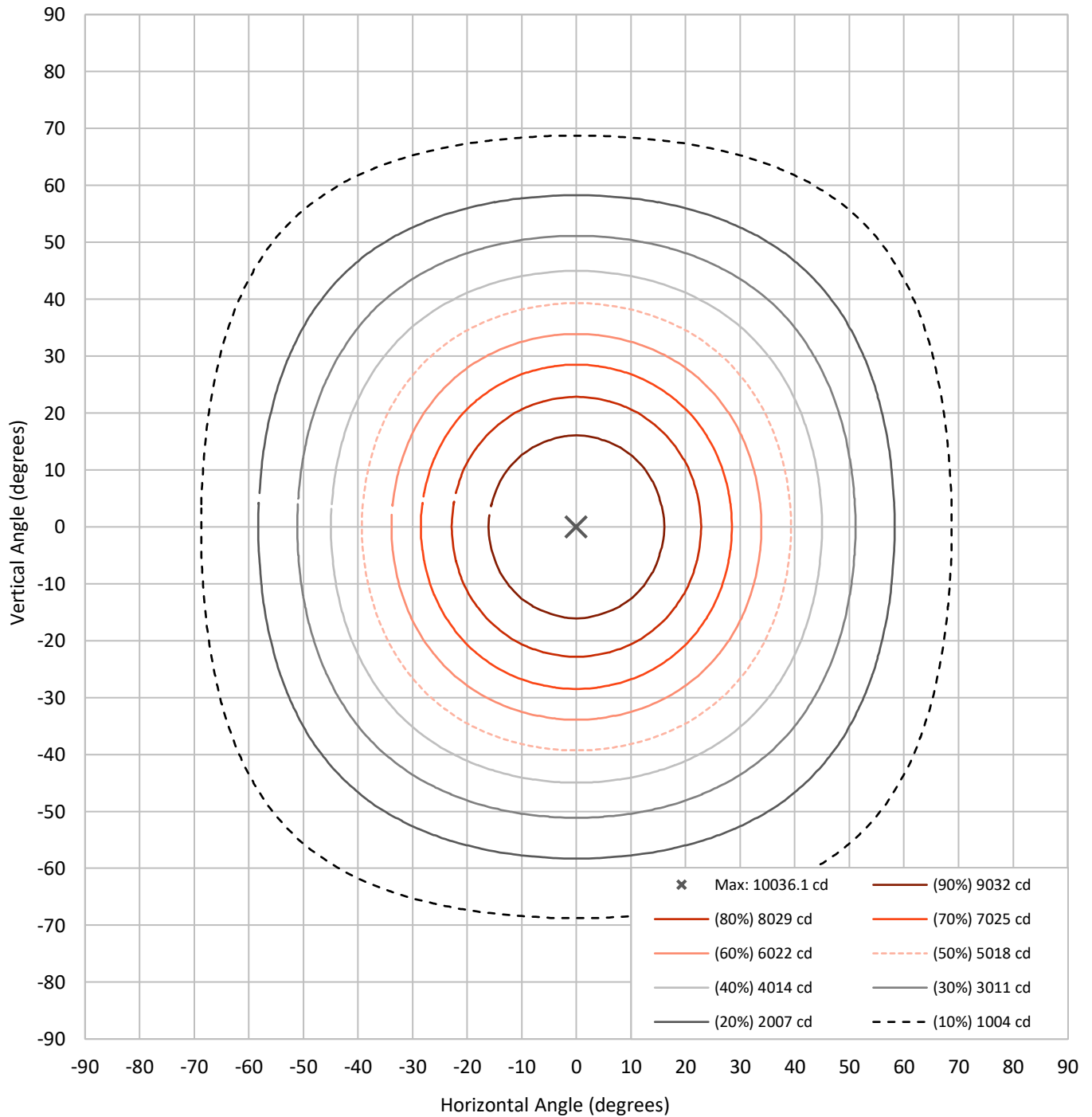
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18070.2 lumens	Max Intensity:	10036.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7818.8 lumens	Field Lumens:	12803 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 122.4
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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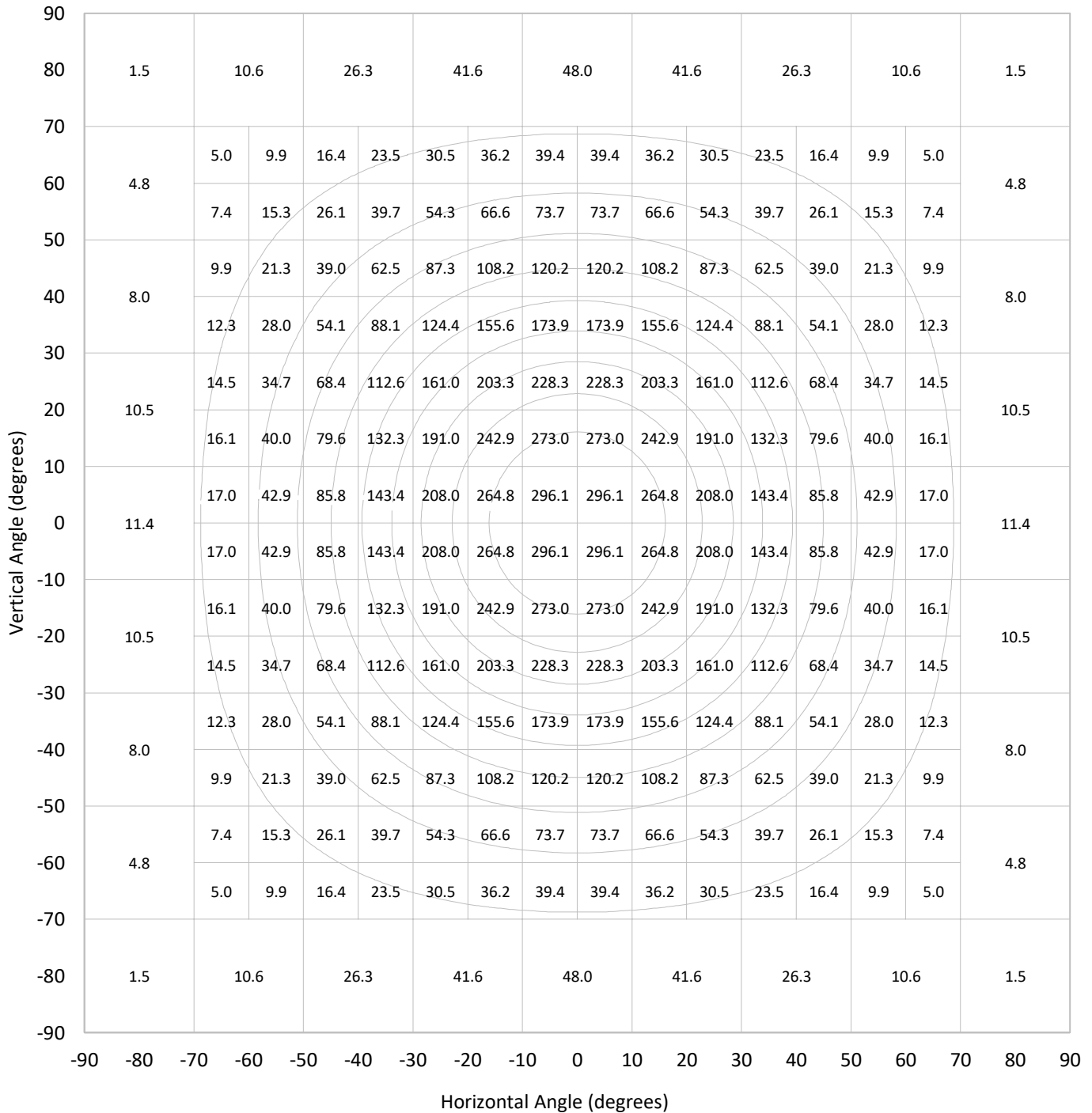
Iso-Candela Plot





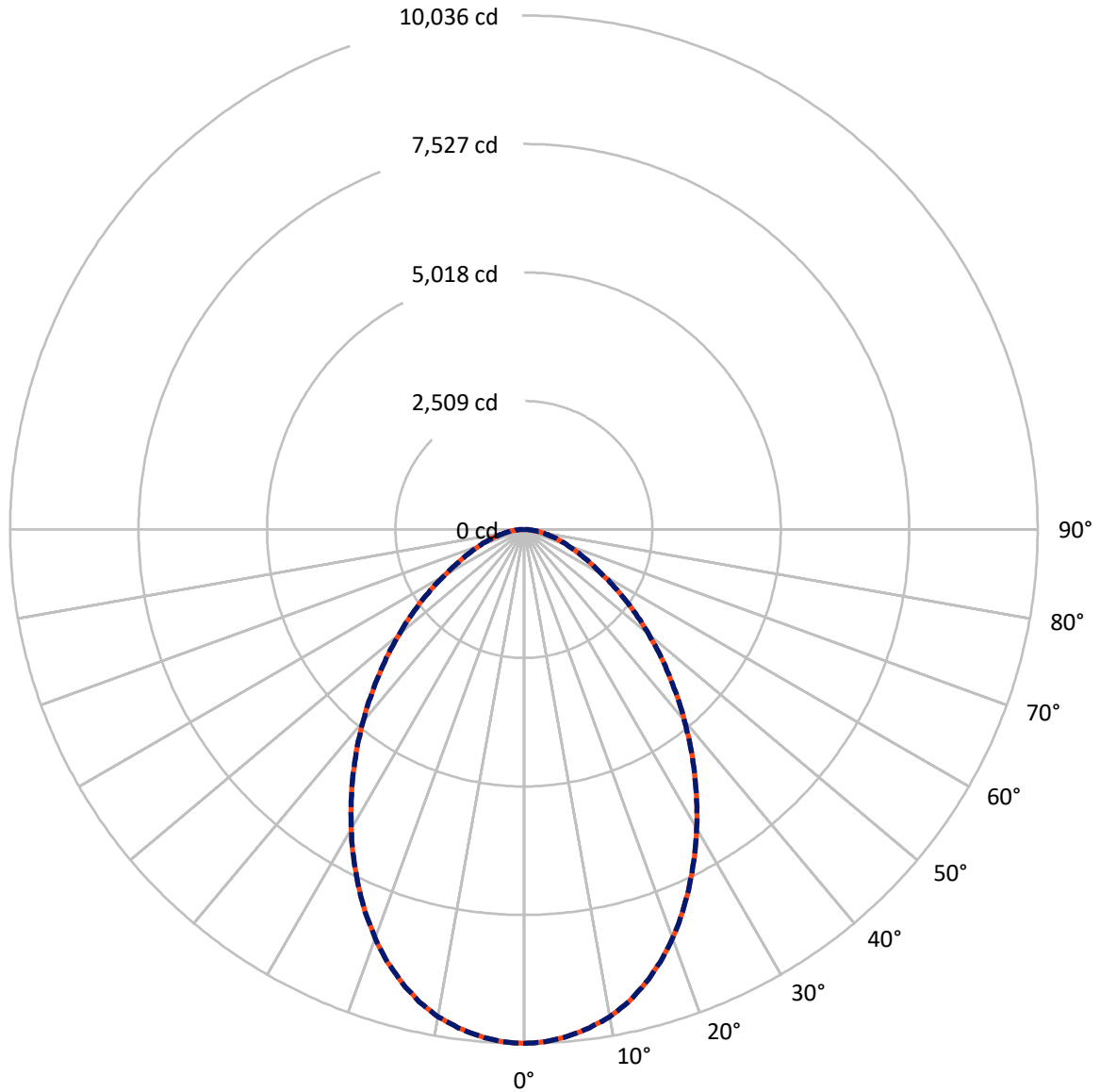
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Lumen Table



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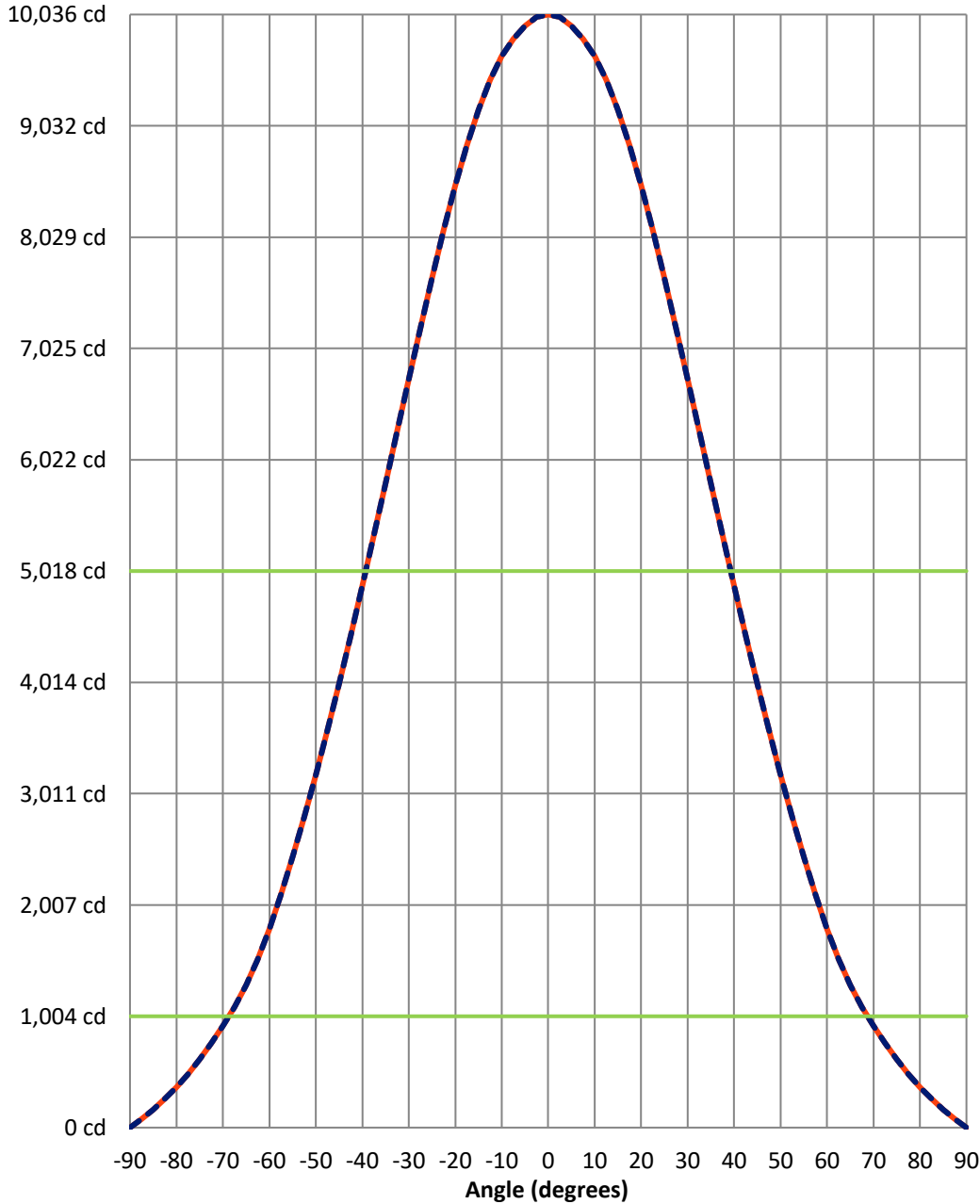
Luminous Intensity Polar Plot



— 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: 7818.8
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 12803
 Efficiency: 70.9%

Spill:
 Lumens: 5267.2
 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°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	73.5	73.5	71.6	69.7
85°	162.0	162.0	162.0	162.0	162.0	158.3	156.4	154.5	152.6	148.8	147.0
82.5°	260.0	260.0	260.0	260.0	256.2	252.5	250.6	246.8	243.0	237.4	231.7
80°	363.6	363.6	363.6	363.6	358.0	354.2	348.5	344.8	339.1	331.6	324.0
77.5°	482.3	482.3	482.3	476.7	472.9	467.2	461.6	454.0	446.5	437.1	425.8
75°	616.1	616.1	616.1	608.5	602.9	597.2	587.8	578.4	567.1	553.9	538.8
72.5°	761.1	761.1	761.1	751.7	746.1	736.6	725.3	712.2	699.0	682.0	663.2
70°	917.5	917.5	917.5	906.2	896.8	887.4	872.3	857.2	838.4	819.5	796.9
67.5°	1087.1	1087.1	1087.1	1073.9	1062.6	1049.4	1032.4	1013.6	991.0	964.6	938.2
65°	1284.9	1284.9	1277.4	1266.1	1252.9	1234.0	1213.3	1186.9	1158.7	1124.8	1089.0
62.5°	1518.5	1518.5	1507.2	1494.0	1477.1	1452.6	1424.3	1390.4	1350.8	1307.5	1264.2
60°	1789.8	1789.8	1776.6	1759.7	1735.2	1705.0	1667.3	1624.0	1575.0	1520.4	1467.6
57.5°	2102.6	2102.6	2085.6	2063.0	2032.8	1995.2	1948.1	1893.4	1831.3	1763.4	1697.5
55°	2441.7	2441.7	2421.0	2394.6	2358.8	2313.6	2257.0	2193.0	2117.6	2040.4	1955.6
52.5°	2801.5	2801.5	2777.0	2746.9	2705.4	2652.7	2588.6	2513.3	2426.6	2336.2	2236.3
50°	3180.2	3180.2	3151.9	3118.0	3070.9	3008.8	2935.3	2848.6	2752.5	2647.0	2532.1
47.5°	3585.3	3585.3	3553.2	3513.7	3457.2	3385.6	3298.9	3199.0	3089.8	2971.1	2841.1
45°	4001.6	4001.6	3965.8	3920.6	3858.4	3777.4	3681.4	3585.3	3445.9	3308.3	3157.6
42.5°	4435.0	4435.0	4393.5	4342.6	4271.0	4182.5	4073.2	3948.9	3811.3	3656.9	3493.0
40°	4885.2	4885.2	4838.1	4779.7	4700.6	4598.9	4476.4	4337.0	4182.5	4011.1	3830.2
37.5°	5344.9	5344.9	5292.2	5228.1	5139.6	5026.5	4889.0	4734.5	4561.2	4370.9	4171.2
35°	5808.4	5808.4	5750.0	5680.3	5582.3	5458.0	5309.1	5137.7	4945.5	4738.3	4514.1
32.5°	6281.3	6281.3	6217.2	6138.1	6026.9	5889.4	5725.5	5539.0	5344.9	5103.8	4858.9
30°	6748.5	6748.5	6678.8	6592.1	6473.5	6322.7	6143.8	5938.4	5710.4	5463.6	5199.9
27.5°	7208.2	7189.4	7131.0	7038.7	6908.7	6748.5	6554.5	6332.2	6085.3	5814.1	5531.4
25°	7660.4	7639.7	7575.6	7473.9	7334.4	7159.2	6950.1	6712.7	6447.1	6160.7	5851.7
22.5°	8093.7	8071.1	8003.3	7894.0	7745.2	7554.9	7330.7	7076.3	6793.7	6486.6	6160.7
20°	8495.0	8470.5	8400.8	8285.9	8131.4	7929.8	7692.4	7419.2	7117.8	6793.7	6447.1
17.5°	8856.7	8832.2	8758.8	8640.1	8495.0	8270.8	8025.9	7737.6	7419.2	7076.3	6712.7
15°	9175.1	9148.7	9073.4	8954.7	8788.9	8577.9	8319.8	8025.9	7692.4	7330.7	6950.1
12.5°	9446.4	9420.0	9342.8	9224.1	9052.7	8841.7	8577.9	8270.8	7929.8	7554.9	7159.2
10°	9661.2	9634.8	9561.3	9448.3	9271.2	9052.7	8788.9	8495.0	8131.4	7745.2	7334.4
7.5°	9815.7	9791.2	9723.4	9610.3	9448.3	9224.1	8954.7	8640.1	8285.9	7894.0	7473.9
5°	9932.5	9904.2	9836.4	9723.4	9561.3	9342.8	9073.4	8758.8	8400.8	8003.3	7575.6
2.5°	10013.5	9979.6	9904.2	9791.2	9634.8	9420.0	9148.7	8832.2	8470.5	8071.1	7639.7
0°	10036.1	10013.5	9932.5	9815.7	9661.2	9446.4	9175.1	8856.7	8495.0	8093.7	7660.4



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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°	67.8	67.8	65.9	64.1	62.2	58.4	56.5	54.6	52.8	49.0	47.1
85°	143.2	139.4	135.6	131.9	126.2	122.5	116.8	113.0	107.4	101.7	96.1
82.5°	226.1	220.4	212.9	207.2	199.7	190.3	182.7	173.3	163.9	156.4	147.0
80°	316.5	307.1	297.7	288.3	276.9	265.6	254.3	243.0	229.8	216.7	203.5
77.5°	414.5	401.3	388.1	373.0	359.8	344.8	329.7	314.6	297.7	280.7	263.8
75°	523.8	506.8	488.0	469.1	452.2	431.4	410.7	390.0	367.4	346.7	324.0
72.5°	642.4	621.7	599.1	576.5	552.0	525.6	499.3	471.0	444.6	418.2	390.0
70°	770.6	746.1	717.8	689.5	659.4	627.4	595.3	561.4	527.5	493.6	459.7
67.5°	908.1	877.9	844.0	810.1	772.4	734.8	697.1	657.5	616.1	574.6	535.1
65°	1055.0	1017.4	977.8	934.5	891.1	847.8	802.6	755.5	708.4	659.4	616.1
62.5°	1219.0	1171.9	1121.0	1068.2	1019.2	966.5	917.5	859.1	802.6	748.0	693.3
60°	1409.2	1347.1	1284.9	1219.0	1156.8	1089.0	1028.7	964.6	900.6	838.4	774.3
57.5°	1622.1	1543.0	1467.6	1388.5	1305.6	1230.3	1153.0	1075.8	1004.2	930.7	861.0
55°	1863.3	1767.2	1673.0	1575.0	1478.9	1384.7	1286.8	1200.1	1111.6	1028.7	947.7
52.5°	2127.0	2017.8	1901.0	1789.8	1667.3	1550.5	1441.3	1332.0	1228.4	1128.5	1036.2
50°	2409.6	2281.5	2147.8	2012.1	1872.7	1735.2	1603.3	1475.2	1354.6	1237.8	1128.5
47.5°	2703.6	2558.5	2405.9	2251.4	2102.6	1934.9	1776.6	1631.6	1486.5	1354.6	1228.4
45°	3005.0	2841.1	2673.4	2498.2	2323.0	2142.1	1966.9	1789.8	1631.6	1475.2	1332.0
42.5°	3315.9	3131.2	2944.7	2750.7	2556.6	2358.8	2161.0	1966.9	1776.6	1603.3	1441.3
40°	3636.1	3432.7	3219.8	3008.8	2801.5	2575.4	2358.8	2142.1	1934.9	1735.2	1550.5
37.5°	3956.4	3734.1	3504.3	3266.9	3029.5	2801.5	2556.6	2323.0	2102.6	1872.7	1667.3
35°	4278.6	4033.7	3785.0	3526.9	3266.9	3008.8	2750.7	2498.2	2251.4	2012.1	1789.8
32.5°	4602.6	4335.1	4060.0	3785.0	3504.3	3219.8	2944.7	2673.4	2405.9	2147.8	1901.0
30°	4921.0	4630.9	4335.1	4033.7	3734.1	3432.7	3131.2	2841.1	2558.5	2281.5	2017.8
27.5°	5231.9	4921.0	4602.6	4278.6	3956.4	3636.1	3315.9	3005.0	2703.6	2409.6	2127.0
25°	5531.4	5199.9	4858.9	4514.1	4171.2	3830.2	3493.0	3157.6	2841.1	2532.1	2236.3
22.5°	5814.1	5463.6	5103.8	4738.3	4370.9	4011.1	3656.9	3308.3	2971.1	2647.0	2336.2
20°	6085.3	5710.4	5344.9	4945.5	4561.2	4182.5	3811.3	3445.9	3089.8	2752.5	2426.6
17.5°	6332.2	5938.4	5539.0	5137.7	4734.5	4337.0	3948.9	3585.3	3199.0	2848.6	2513.3
15°	6554.5	6143.8	5725.5	5309.1	4889.0	4476.4	4073.2	3681.4	3298.9	2935.3	2588.6
12.5°	6748.5	6322.7	5889.4	5458.0	5026.5	4598.9	4182.5	3777.4	3385.6	3008.8	2652.7
10°	6908.7	6473.5	6026.9	5582.3	5139.6	4700.6	4271.0	3858.4	3457.2	3070.9	2705.4
7.5°	7038.7	6592.1	6138.1	5680.3	5228.1	4779.7	4342.6	3920.6	3513.7	3118.0	2746.9
5°	7131.0	6678.8	6217.2	5750.0	5292.2	4838.1	4393.5	3965.8	3553.2	3151.9	2777.0
2.5°	7189.4	6748.5	6281.3	5808.4	5344.9	4885.2	4435.0	4001.6	3585.3	3180.2	2801.5
0°	7208.2	6748.5	6281.3	5808.4	5344.9	4885.2	4435.0	4001.6	3585.3	3180.2	2801.5



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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°	45.2	41.4	37.7	35.8	32.0	30.1	26.4	22.6	20.7	17.0	13.2
85°	90.4	82.9	77.2	71.6	65.9	58.4	52.8	47.1	39.6	33.9	26.4
82.5°	137.5	128.1	118.7	109.3	99.9	90.4	79.1	69.7	60.3	50.9	39.6
80°	190.3	175.2	162.0	148.8	135.6	122.5	107.4	94.2	79.1	65.9	52.8
77.5°	244.9	228.0	209.1	190.3	171.4	154.5	135.6	118.7	101.7	82.9	65.9
75°	303.3	280.7	260.0	235.5	212.9	188.4	165.8	143.2	122.5	101.7	79.1
72.5°	363.6	335.4	307.1	280.7	252.5	224.2	197.8	169.6	143.2	118.7	94.2
70°	425.8	391.9	358.0	325.9	293.9	260.0	229.8	197.8	165.8	135.6	107.4
67.5°	491.7	452.2	412.6	371.1	335.4	297.7	260.0	224.2	188.4	154.5	122.5
65°	563.3	516.2	467.2	423.9	376.8	335.4	293.9	252.5	212.9	171.4	135.6
62.5°	636.8	582.2	527.5	472.9	423.9	371.1	325.9	280.7	235.5	190.3	148.8
60°	712.2	650.0	587.8	527.5	467.2	412.6	358.0	307.1	260.0	209.1	162.0
57.5°	789.4	719.7	650.0	582.2	516.2	452.2	391.9	335.4	280.7	228.0	175.2
55°	868.5	789.4	712.2	636.8	563.3	491.7	425.8	363.6	303.3	244.9	190.3
52.5°	947.7	861.0	774.3	693.3	616.1	535.1	459.7	390.0	324.0	263.8	203.5
50°	1028.7	930.7	838.4	748.0	659.4	574.6	493.6	418.2	346.7	280.7	216.7
47.5°	1111.6	1004.2	900.6	802.6	708.4	616.1	527.5	444.6	367.4	297.7	229.8
45°	1200.1	1075.8	964.6	859.1	755.5	657.5	561.4	471.0	390.0	314.6	243.0
42.5°	1286.8	1153.0	1028.7	917.5	802.6	697.1	595.3	499.3	410.7	329.7	254.3
40°	1384.7	1230.3	1089.0	966.5	847.8	734.8	627.4	525.6	431.4	344.8	265.6
37.5°	1478.9	1305.6	1156.8	1019.2	891.1	772.4	659.4	552.0	452.2	359.8	276.9
35°	1575.0	1388.5	1219.0	1068.2	934.5	810.1	689.5	576.5	469.1	373.0	288.3
32.5°	1673.0	1467.6	1284.9	1121.0	977.8	844.0	717.8	599.1	488.0	388.1	297.7
30°	1767.2	1543.0	1347.1	1171.9	1017.4	877.9	746.1	621.7	506.8	401.3	307.1
27.5°	1863.3	1622.1	1409.2	1219.0	1055.0	908.1	770.6	642.4	523.8	414.5	316.5
25°	1955.6	1697.5	1467.6	1264.2	1089.0	938.2	796.9	663.2	538.8	425.8	324.0
22.5°	2040.4	1763.4	1520.4	1307.5	1124.8	964.6	819.5	682.0	553.9	437.1	331.6
20°	2117.6	1831.3	1575.0	1350.8	1158.7	991.0	838.4	699.0	567.1	446.5	339.1
17.5°	2193.0	1893.4	1624.0	1390.4	1186.9	1013.6	857.2	712.2	578.4	454.0	344.8
15°	2257.0	1948.1	1667.3	1424.3	1213.3	1032.4	872.3	725.3	587.8	461.6	348.5
12.5°	2313.6	1995.2	1705.0	1452.6	1234.0	1049.4	887.4	736.6	597.2	467.2	354.2
10°	2358.8	2032.8	1735.2	1477.1	1252.9	1062.6	896.8	746.1	602.9	472.9	358.0
7.5°	2394.6	2063.0	1759.7	1494.0	1266.1	1073.9	906.2	751.7	608.5	476.7	363.6
5°	2421.0	2085.6	1776.6	1507.2	1277.4	1087.1	917.5	761.1	616.1	482.3	363.6
2.5°	2441.7	2102.6	1789.8	1518.5	1284.9	1087.1	917.5	761.1	616.1	482.3	363.6
0°	2441.7	2102.6	1789.8	1518.5	1284.9	1087.1	917.5	761.1	616.1	482.3	363.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.4	7.5	3.8	0.0
85°	20.7	13.2	7.5	0.0
82.5°	30.1	20.7	9.4	0.0
80°	39.6	26.4	13.2	0.0
77.5°	50.9	33.9	17.0	0.0
75°	60.3	39.6	20.7	0.0
72.5°	69.7	47.1	22.6	0.0
70°	79.1	52.8	26.4	0.0
67.5°	90.4	58.4	30.1	0.0
65°	99.9	65.9	32.0	0.0
62.5°	109.3	71.6	35.8	0.0
60°	118.7	77.2	37.7	0.0
57.5°	128.1	82.9	41.4	0.0
55°	137.5	90.4	45.2	0.0
52.5°	147.0	96.1	47.1	0.0
50°	156.4	101.7	49.0	0.0
47.5°	163.9	107.4	52.8	0.0
45°	173.3	113.0	54.6	0.0
42.5°	182.7	116.8	56.5	0.0
40°	190.3	122.5	58.4	0.0
37.5°	199.7	126.2	62.2	0.0
35°	207.2	131.9	64.1	0.0
32.5°	212.9	135.6	65.9	0.0
30°	220.4	139.4	67.8	0.0
27.5°	226.1	143.2	67.8	0.0
25°	231.7	147.0	69.7	0.0
22.5°	237.4	148.8	71.6	0.0
20°	243.0	152.6	73.5	0.0
17.5°	246.8	154.5	73.5	0.0
15°	250.6	156.4	77.2	0.0
12.5°	252.5	158.3	77.2	0.0
10°	256.2	162.0	77.2	0.0
7.5°	260.0	162.0	77.2	0.0
5°	260.0	162.0	77.2	0.0
2.5°	260.0	162.0	77.2	0.0
0°	260.0	162.0	77.2	0.0

(END OF REPORT)