

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: P623657

Luminaire Tested: **IFLD-L-SA7A-735-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623657
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	32189.2 lumens	Max Intensity:	39336.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	147.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

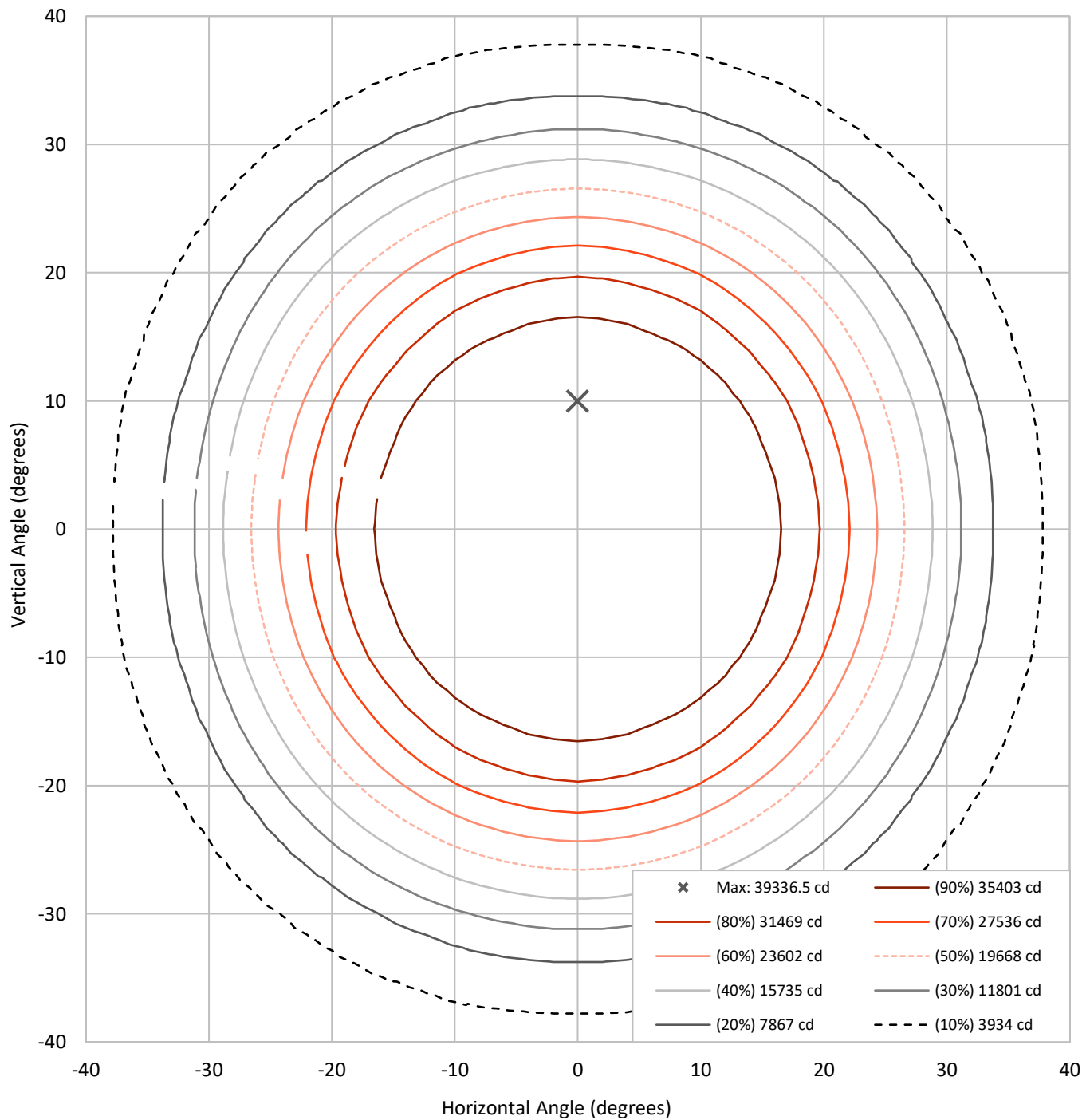
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	15998.8 lumens	Field Lumens:	20807 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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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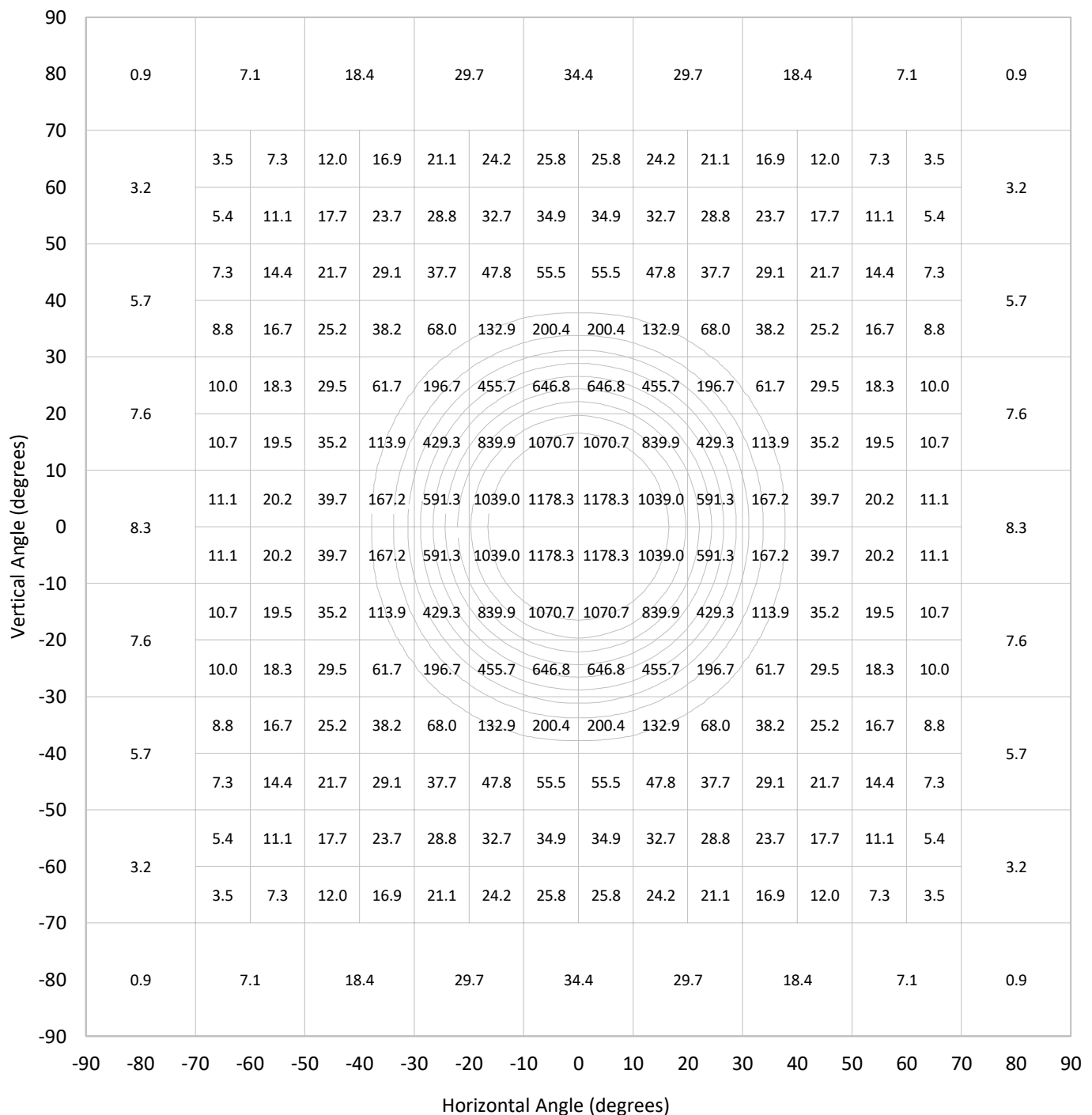
Iso-Candela Plot



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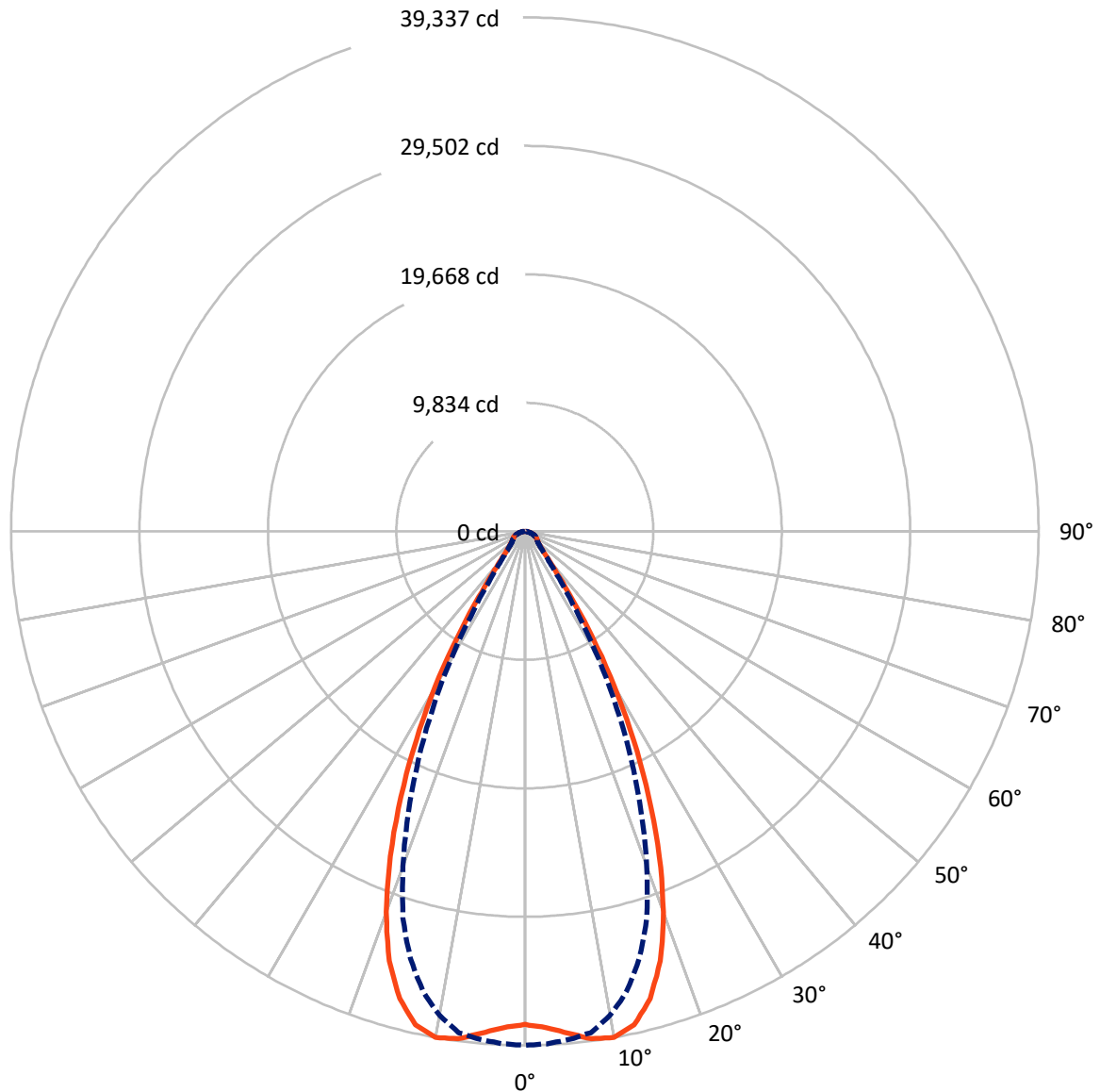
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Lumen Table



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Luminous Intensity Polar Plot

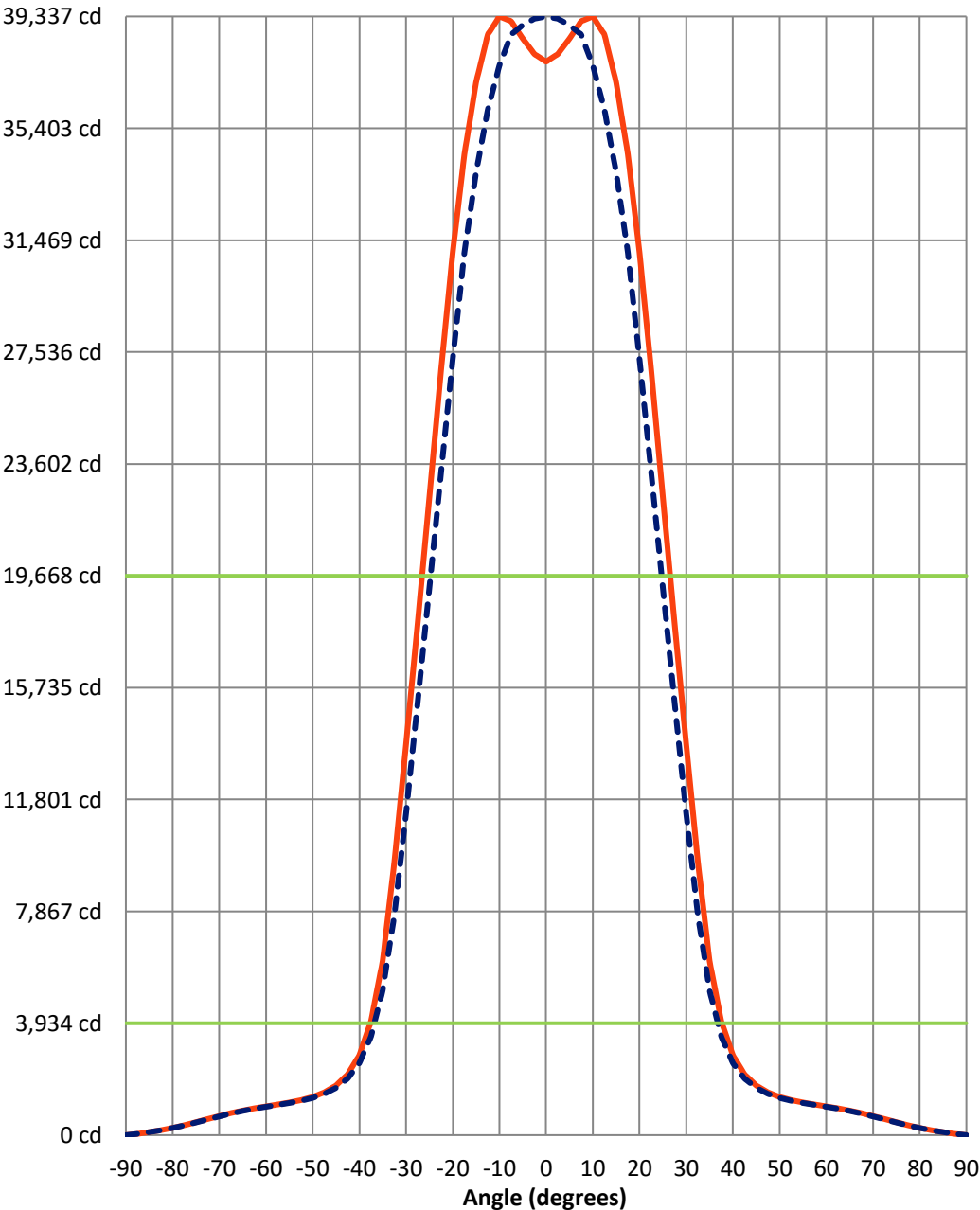


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 15998.8
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 20807
Efficiency: 64.6%

Spill:
Lumens: 11382.2
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	40.1	40.1	40.1	40.1
85°	107.0	107.0	107.0	107.0	107.0	103.7	103.7	100.3	100.3	97.0	93.6
82.5°	173.9	173.9	173.9	173.9	170.5	170.5	167.2	163.8	160.5	157.2	153.8
80°	254.1	254.1	254.1	254.1	250.8	247.4	244.1	240.8	234.1	230.7	224.0
77.5°	347.8	347.8	347.8	344.4	341.1	337.7	331.0	324.3	317.7	311.0	304.3
75°	454.8	454.8	454.8	448.1	444.7	438.0	431.4	424.7	414.6	404.6	394.6
72.5°	565.1	565.1	565.1	558.4	551.7	545.0	538.4	528.3	518.3	504.9	491.5
70°	668.8	668.8	668.8	662.1	655.4	648.7	638.7	628.6	615.3	601.9	588.5
67.5°	775.8	775.8	775.8	765.7	759.0	752.4	742.3	728.9	715.6	698.9	682.1
65°	862.7	862.7	859.4	856.0	849.3	839.3	832.6	819.2	805.9	792.5	775.8
62.5°	943.0	943.0	939.6	936.3	929.6	919.5	909.5	899.5	886.1	869.4	852.7
60°	1009.8	1009.8	1006.5	1003.1	996.5	989.8	979.7	969.7	956.3	943.0	926.2
57.5°	1076.7	1076.7	1073.4	1070.0	1063.3	1053.3	1043.3	1033.2	1019.9	1003.1	986.4
55°	1146.9	1146.9	1143.6	1136.9	1130.2	1120.2	1110.1	1096.8	1080.0	1063.3	1046.6
52.5°	1230.5	1230.5	1223.8	1217.1	1207.1	1197.1	1180.4	1163.6	1143.6	1123.5	1103.5
50°	1340.9	1340.9	1334.2	1324.1	1307.4	1290.7	1270.6	1243.9	1220.5	1193.7	1167.0
47.5°	1504.7	1504.7	1491.3	1474.6	1451.2	1424.5	1387.7	1347.6	1314.1	1280.7	1240.6
45°	1745.5	1745.5	1725.4	1698.7	1661.9	1615.1	1561.6	1504.7	1447.9	1391.0	1334.2
42.5°	2136.7	2136.7	2099.9	2053.1	1989.6	1909.3	1809.0	1715.4	1635.1	1544.8	1467.9
40°	2812.1	2812.1	2741.9	2655.0	2534.6	2380.8	2196.9	2049.8	1909.3	1752.2	1645.2
37.5°	4012.6	4012.6	3875.5	3708.3	3474.2	3180.0	2825.5	2588.1	2327.3	2079.8	1899.3
35°	6132.5	6132.5	5868.4	5544.0	5092.6	4524.2	3918.9	3470.9	2972.6	2591.4	2253.7
32.5°	9610.1	9610.1	9135.3	8550.1	7744.3	6724.4	5754.7	4902.0	4012.6	3380.6	2772.0
30°	13743.0	13743.0	13121.1	12355.4	11305.4	9981.3	8600.3	7085.5	5681.1	4554.3	3634.7
27.5°	18016.4	17839.2	17304.2	16431.5	15234.4	13743.0	12021.0	10064.9	8165.6	6179.4	4865.2
25°	22436.9	22229.6	21617.7	20614.6	19243.6	17555.0	15615.6	13428.7	11084.7	8717.3	6443.5
22.5°	26904.3	26670.2	25974.7	24841.1	23303.0	21410.4	19213.5	16782.6	14164.4	11429.1	8717.3
20°	31033.9	30786.4	30057.5	28877.1	27285.5	25209.0	22768.0	20072.9	17177.1	14164.4	11084.7
17.5°	34491.4	34253.9	33551.8	32424.9	31033.9	28736.7	26198.7	23236.1	20072.9	16782.6	13428.7
15°	37015.9	36812.0	36213.4	35267.1	33849.3	31816.3	29231.6	26198.7	22768.0	19213.5	15615.6
12.5°	38691.2	38527.3	38055.9	37320.2	36049.6	34344.2	31816.3	28736.7	25209.0	21410.4	17555.0
10°	39336.5	39256.3	39035.6	38697.9	37614.5	36049.6	33849.3	31033.9	27285.5	23303.0	19243.6
7.5°	39166.0	39192.8	39269.7	39182.7	38697.9	37320.2	35267.1	32424.9	28877.1	24841.1	20614.6
5°	38557.4	38701.2	39059.0	39269.7	39035.6	38055.9	36213.4	33551.8	30057.5	25974.7	21617.7
2.5°	38015.7	38239.8	38701.2	39192.8	39256.3	38527.3	36812.0	34253.9	30786.4	26670.2	22229.6
0°	37748.2	38015.7	38557.4	39166.0	39336.5	38691.2	37015.9	34491.4	31033.9	26904.3	22436.9

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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°	40.1	36.8	36.8	36.8	33.4	33.4	33.4	30.1	30.1	26.8	26.8
85°	93.6	90.3	86.9	83.6	80.3	76.9	73.6	70.2	66.9	60.2	56.8
82.5°	150.5	147.1	143.8	137.1	133.8	127.1	120.4	113.7	107.0	103.7	97.0
80°	217.3	210.7	204.0	197.3	187.3	177.2	170.5	160.5	153.8	143.8	137.1
77.5°	294.3	284.2	274.2	260.8	250.8	240.8	227.4	217.3	204.0	190.6	177.2
75°	381.2	367.8	351.1	337.7	324.3	307.6	290.9	274.2	257.5	240.8	224.0
72.5°	474.8	458.1	441.4	424.7	404.6	381.2	361.1	337.7	317.7	297.6	274.2
70°	571.8	551.7	531.7	511.6	488.2	461.4	438.0	411.3	384.5	357.8	331.0
67.5°	662.1	642.0	618.6	598.5	571.8	545.0	514.9	484.9	454.8	421.3	387.9
65°	755.7	732.3	705.5	678.8	652.0	621.9	591.9	561.8	525.0	488.2	454.8
62.5°	832.6	812.5	789.1	762.4	732.3	698.9	668.8	628.6	591.9	555.1	511.6
60°	906.2	882.8	862.7	832.6	805.9	775.8	739.0	698.9	658.7	615.3	575.1
57.5°	969.7	949.6	926.2	899.5	869.4	839.3	805.9	769.1	722.3	678.8	632.0
55°	1026.5	1003.1	979.7	956.3	929.6	896.1	862.7	825.9	785.8	739.0	688.8
52.5°	1083.4	1060.0	1033.2	1009.8	979.7	949.6	916.2	879.4	839.3	795.8	742.3
50°	1140.2	1113.5	1086.7	1056.6	1026.5	996.5	963.0	929.6	886.1	842.6	795.8
47.5°	1207.1	1173.7	1140.2	1106.8	1076.7	1039.9	1006.5	969.7	932.9	886.1	839.3
45°	1290.7	1240.6	1200.4	1160.3	1123.5	1086.7	1046.6	1009.8	969.7	929.6	879.4
42.5°	1394.4	1327.5	1274.0	1220.5	1173.7	1130.2	1090.1	1046.6	1006.5	963.0	916.2
40°	1534.8	1444.5	1357.6	1290.7	1230.5	1177.0	1130.2	1086.7	1039.9	996.5	949.6
37.5°	1718.7	1591.7	1471.3	1374.3	1297.4	1230.5	1173.7	1123.5	1076.7	1026.5	979.7
35°	1996.3	1775.6	1621.7	1481.3	1374.3	1290.7	1220.5	1160.3	1106.8	1056.6	1009.8
32.5°	2387.5	2046.4	1799.0	1621.7	1471.3	1357.6	1274.0	1200.4	1140.2	1086.7	1033.2
30°	2902.4	2430.9	2046.4	1775.6	1591.7	1444.5	1327.5	1240.6	1173.7	1113.5	1060.0
27.5°	3718.3	2902.4	2387.5	1996.3	1718.7	1534.8	1394.4	1290.7	1207.1	1140.2	1083.4
25°	4865.2	3634.7	2772.0	2253.7	1899.3	1645.2	1467.9	1334.2	1240.6	1167.0	1103.5
22.5°	6179.4	4554.3	3380.6	2591.4	2079.8	1752.2	1544.8	1391.0	1280.7	1193.7	1123.5
20°	8165.6	5681.1	4012.6	2972.6	2327.3	1909.3	1635.1	1447.9	1314.1	1220.5	1143.6
17.5°	10064.9	7085.5	4902.0	3470.9	2588.1	2049.8	1715.4	1504.7	1347.6	1243.9	1163.6
15°	12021.0	8600.3	5754.7	3918.9	2825.5	2196.9	1809.0	1561.6	1387.7	1270.6	1180.4
12.5°	13743.0	9981.3	6724.4	4524.2	3180.0	2380.8	1909.3	1615.1	1424.5	1290.7	1197.1
10°	15234.4	11305.4	7744.3	5092.6	3474.2	2534.6	1989.6	1661.9	1451.2	1307.4	1207.1
7.5°	16431.5	12355.4	8550.1	5544.0	3708.3	2655.0	2053.1	1698.7	1474.6	1324.1	1217.1
5°	17304.2	13121.1	9135.3	5868.4	3875.5	2741.9	2099.9	1725.4	1491.3	1334.2	1223.8
2.5°	17839.2	13743.0	9610.1	6132.5	4012.6	2812.1	2136.7	1745.5	1504.7	1340.9	1230.5
0°	18016.4	13743.0	9610.1	6132.5	4012.6	2812.1	2136.7	1745.5	1504.7	1340.9	1230.5

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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°	23.4	23.4	20.1	20.1	16.7	16.7	13.4	13.4	10.0	10.0	6.7
85°	53.5	46.8	43.5	40.1	36.8	33.4	30.1	26.8	23.4	20.1	16.7
82.5°	90.3	83.6	73.6	66.9	60.2	53.5	43.5	40.1	33.4	26.8	23.4
80°	127.1	117.0	107.0	97.0	86.9	76.9	66.9	56.8	46.8	36.8	30.1
77.5°	163.8	150.5	140.4	127.1	113.7	100.3	86.9	73.6	60.2	46.8	36.8
75°	207.3	190.6	173.9	157.2	140.4	123.7	110.3	93.6	76.9	60.2	46.8
72.5°	254.1	230.7	210.7	190.6	167.2	150.5	130.4	113.7	93.6	73.6	56.8
70°	304.3	277.5	250.8	224.0	200.6	173.9	153.8	130.4	110.3	86.9	66.9
67.5°	354.4	324.3	294.3	260.8	230.7	204.0	173.9	150.5	123.7	100.3	76.9
65°	414.6	374.5	337.7	300.9	264.2	230.7	200.6	167.2	140.4	113.7	86.9
62.5°	471.5	428.0	384.5	341.1	300.9	260.8	224.0	190.6	157.2	127.1	97.0
60°	528.3	481.5	431.4	384.5	337.7	294.3	250.8	210.7	173.9	140.4	107.0
57.5°	585.2	531.7	481.5	428.0	374.5	324.3	277.5	230.7	190.6	150.5	117.0
55°	635.3	585.2	528.3	471.5	414.6	354.4	304.3	254.1	207.3	163.8	127.1
52.5°	688.8	632.0	575.1	511.6	454.8	387.9	331.0	274.2	224.0	177.2	137.1
50°	739.0	678.8	615.3	555.1	488.2	421.3	357.8	297.6	240.8	190.6	143.8
47.5°	785.8	722.3	658.7	591.9	525.0	454.8	384.5	317.7	257.5	204.0	153.8
45°	825.9	769.1	698.9	628.6	561.8	484.9	411.3	337.7	274.2	217.3	160.5
42.5°	862.7	805.9	739.0	668.8	591.9	514.9	438.0	361.1	290.9	227.4	170.5
40°	896.1	839.3	775.8	698.9	621.9	545.0	461.4	381.2	307.6	240.8	177.2
37.5°	929.6	869.4	805.9	732.3	652.0	571.8	488.2	404.6	324.3	250.8	187.3
35°	956.3	899.5	832.6	762.4	678.8	598.5	511.6	424.7	337.7	260.8	197.3
32.5°	979.7	926.2	862.7	789.1	705.5	618.6	531.7	441.4	351.1	274.2	204.0
30°	1003.1	949.6	882.8	812.5	732.3	642.0	551.7	458.1	367.8	284.2	210.7
27.5°	1026.5	969.7	906.2	832.6	755.7	662.1	571.8	474.8	381.2	294.3	217.3
25°	1046.6	986.4	926.2	852.7	775.8	682.1	588.5	491.5	394.6	304.3	224.0
22.5°	1063.3	1003.1	943.0	869.4	792.5	698.9	601.9	504.9	404.6	311.0	230.7
20°	1080.0	1019.9	956.3	886.1	805.9	715.6	615.3	518.3	414.6	317.7	234.1
17.5°	1096.8	1033.2	969.7	899.5	819.2	728.9	628.6	528.3	424.7	324.3	240.8
15°	1110.1	1043.3	979.7	909.5	832.6	742.3	638.7	538.4	431.4	331.0	244.1
12.5°	1120.2	1053.3	989.8	919.5	839.3	752.4	648.7	545.0	438.0	337.7	247.4
10°	1130.2	1063.3	996.5	929.6	849.3	759.0	655.4	551.7	444.7	341.1	250.8
7.5°	1136.9	1070.0	1003.1	936.3	856.0	765.7	662.1	558.4	448.1	344.4	254.1
5°	1143.6	1073.4	1006.5	939.6	859.4	775.8	668.8	565.1	454.8	347.8	254.1
2.5°	1146.9	1076.7	1009.8	943.0	862.7	775.8	668.8	565.1	454.8	347.8	254.1
0°	1146.9	1076.7	1009.8	943.0	862.7	775.8	668.8	565.1	454.8	347.8	254.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.7	3.3	3.3	0.0
85°	10.0	6.7	3.3	0.0
82.5°	16.7	10.0	6.7	0.0
80°	23.4	16.7	6.7	0.0
77.5°	26.8	20.1	10.0	0.0
75°	33.4	23.4	10.0	0.0
72.5°	40.1	26.8	13.4	0.0
70°	43.5	30.1	13.4	0.0
67.5°	53.5	33.4	16.7	0.0
65°	60.2	36.8	16.7	0.0
62.5°	66.9	40.1	20.1	0.0
60°	73.6	43.5	20.1	0.0
57.5°	83.6	46.8	23.4	0.0
55°	90.3	53.5	23.4	0.0
52.5°	97.0	56.8	26.8	0.0
50°	103.7	60.2	26.8	0.0
47.5°	107.0	66.9	30.1	0.0
45°	113.7	70.2	30.1	0.0
42.5°	120.4	73.6	33.4	0.0
40°	127.1	76.9	33.4	0.0
37.5°	133.8	80.3	33.4	0.0
35°	137.1	83.6	36.8	0.0
32.5°	143.8	86.9	36.8	0.0
30°	147.1	90.3	36.8	0.0
27.5°	150.5	93.6	40.1	0.0
25°	153.8	93.6	40.1	0.0
22.5°	157.2	97.0	40.1	0.0
20°	160.5	100.3	40.1	0.0
17.5°	163.8	100.3	40.1	0.0
15°	167.2	103.7	43.5	0.0
12.5°	170.5	103.7	43.5	0.0
10°	170.5	107.0	43.5	0.0
7.5°	173.9	107.0	43.5	0.0
5°	173.9	107.0	43.5	0.0
2.5°	173.9	107.0	43.5	0.0
0°	173.9	107.0	43.5	0.0

(END OF REPORT)