

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: P623331

Luminaire Tested: **IFLD-S-SA6D-727-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623331
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	39703 lumens	Max Intensity:	128381.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

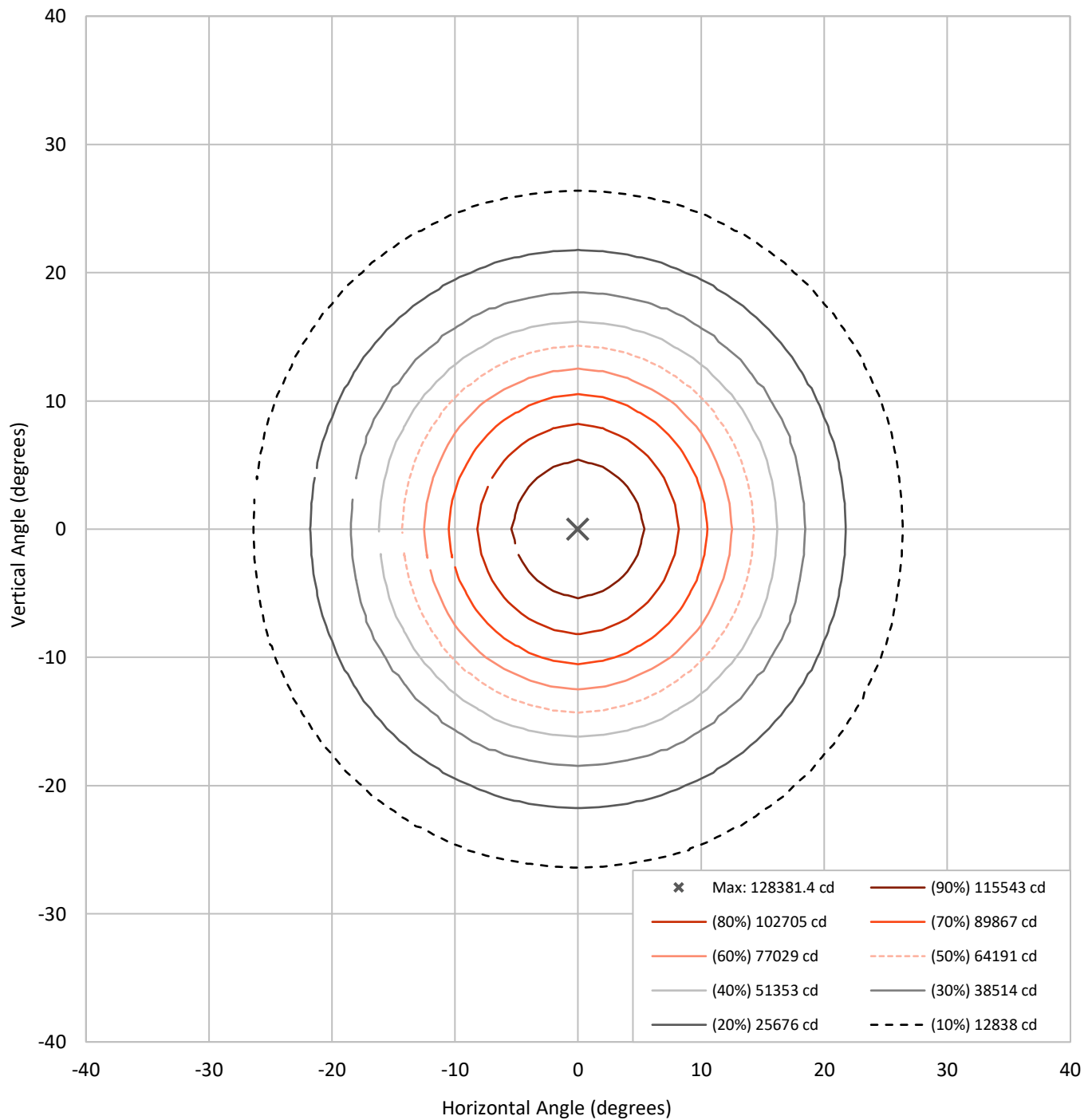
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	14325.6 lumens	Field Lumens:	24190.7 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 368.2
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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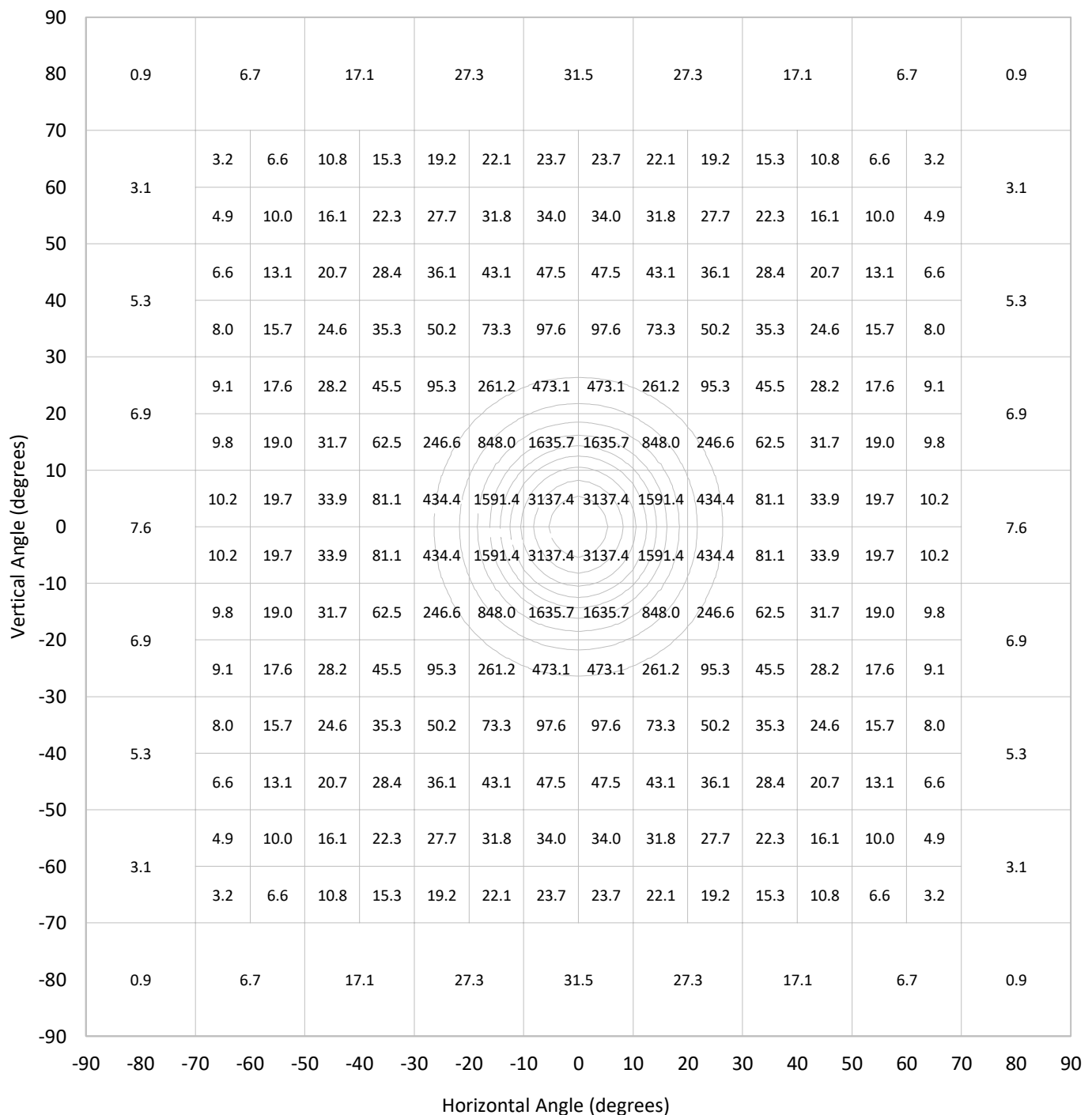
Iso-Candela Plot





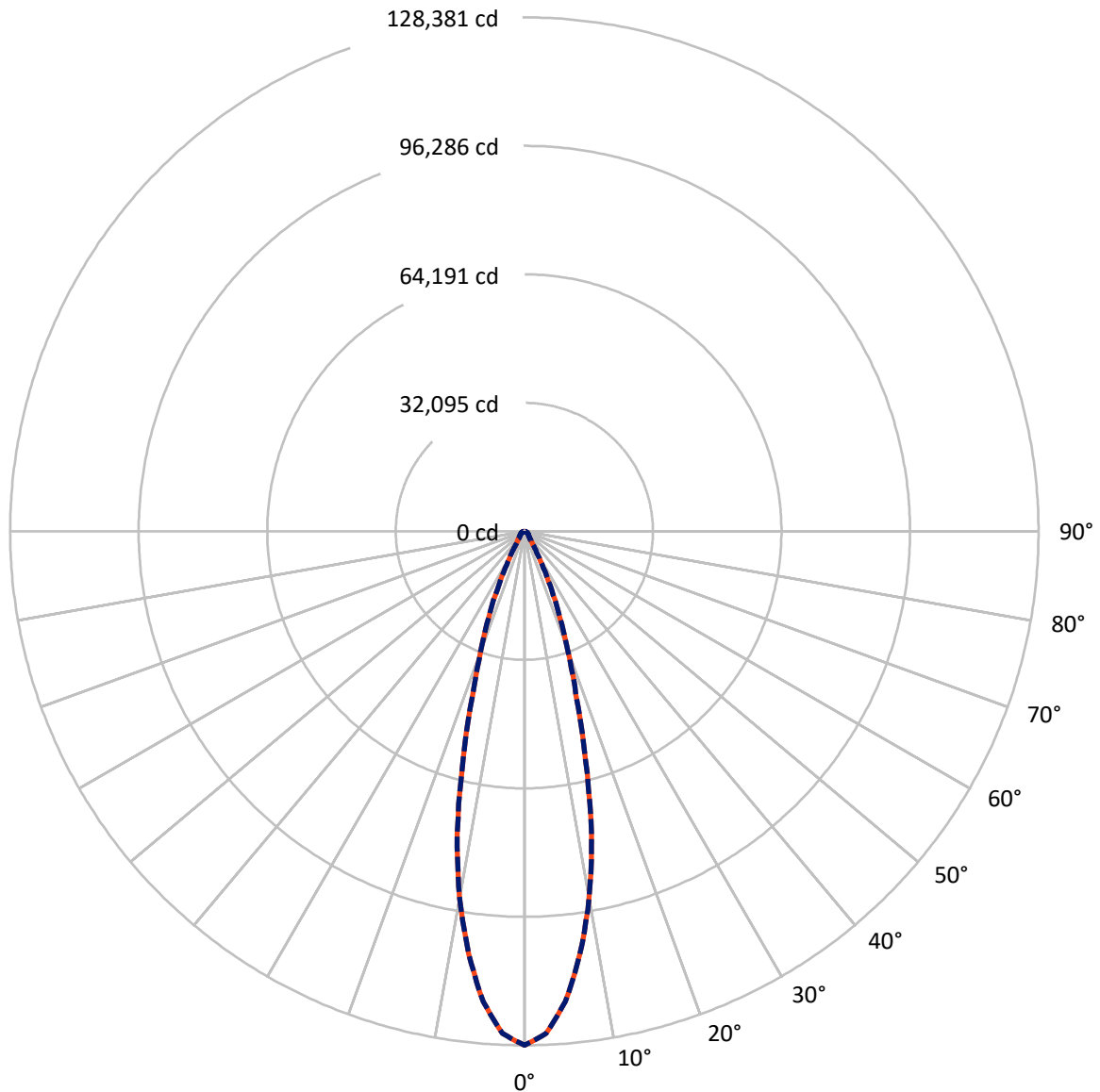
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Lumen Table



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Luminous Intensity Polar Plot

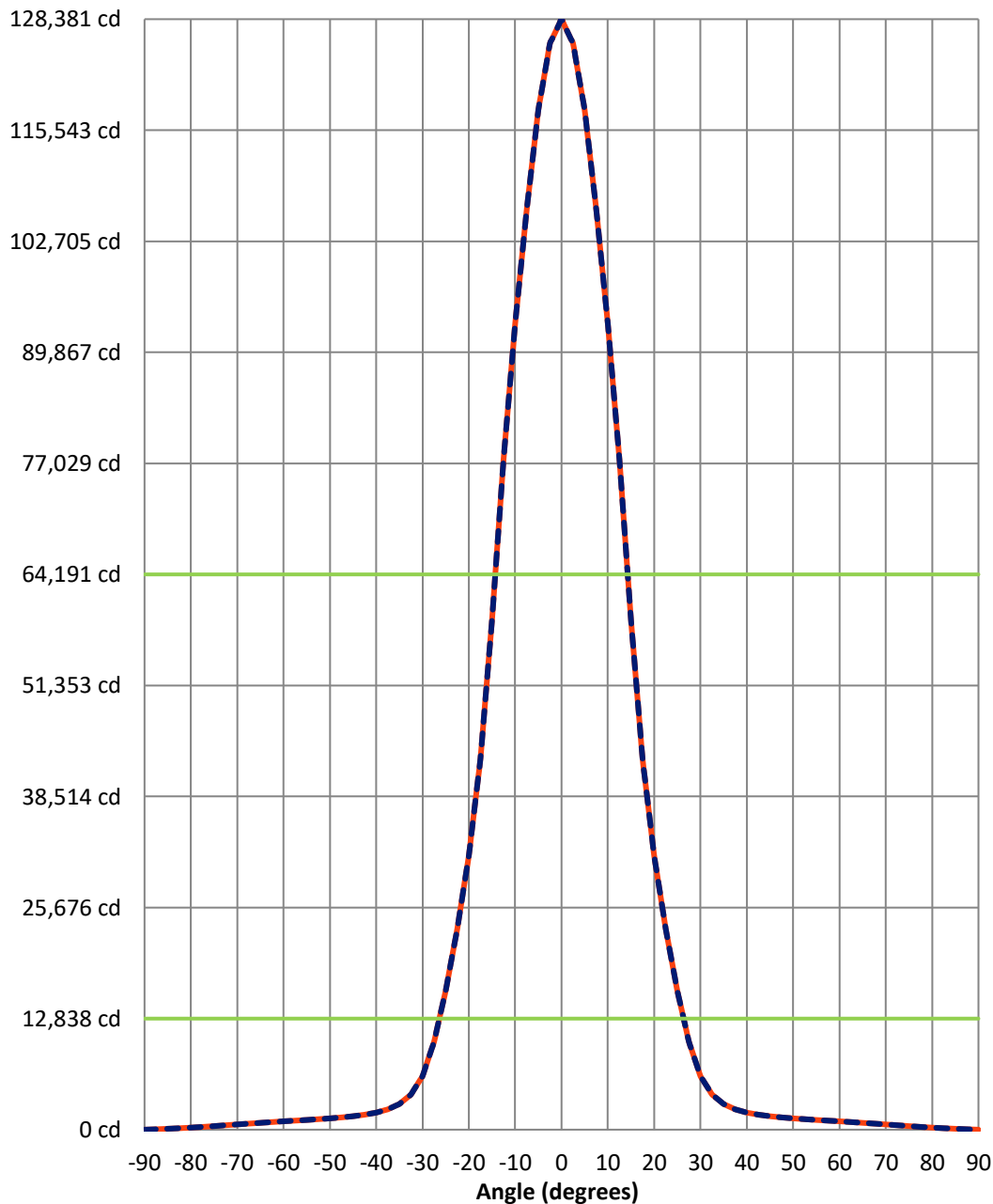


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 14325.6
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 24190.7
Efficiency: 60.9%

Spill:

Lumens: 15512.3
Efficiency: 39.1%

— 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°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	41.4	41.4	41.4	41.4
85°	103.5	103.5	103.5	103.5	103.5	99.3	99.3	99.3	95.2	95.2	91.1
82.5°	165.6	165.6	165.6	165.6	161.4	161.4	157.3	157.3	153.2	153.2	149.0
80°	235.9	235.9	235.9	235.9	231.8	227.7	227.7	223.5	219.4	215.3	211.1
77.5°	318.7	318.7	318.7	314.6	310.5	310.5	306.3	298.0	293.9	285.6	281.5
75°	409.8	409.8	409.8	405.7	401.5	397.4	389.1	385.0	376.7	368.4	356.0
72.5°	509.2	509.2	509.2	505.0	496.7	492.6	484.3	476.0	467.8	455.3	442.9
70°	604.4	604.4	604.4	596.1	591.9	583.7	575.4	567.1	554.7	542.3	529.9
67.5°	699.6	699.6	699.6	691.3	687.2	678.9	670.6	658.2	645.8	629.2	616.8
65°	786.5	786.5	782.4	778.2	774.1	765.8	753.4	745.1	732.7	716.1	699.6
62.5°	877.6	877.6	873.4	869.3	861.0	852.7	840.3	827.9	811.3	794.8	778.2
60°	968.6	968.6	964.5	960.4	952.1	939.7	927.2	914.8	898.3	877.6	856.9
57.5°	1043.1	1043.1	1039.0	1034.9	1026.6	1018.3	1005.9	993.5	976.9	960.4	935.5
55°	1121.8	1121.8	1117.7	1109.4	1101.1	1092.8	1080.4	1063.8	1047.3	1026.6	1010.0
52.5°	1212.9	1212.9	1208.7	1200.4	1188.0	1175.6	1159.1	1138.4	1117.7	1097.0	1072.1
50°	1303.9	1303.9	1295.7	1287.4	1279.1	1262.5	1246.0	1225.3	1200.4	1175.6	1146.6
47.5°	1415.7	1415.7	1407.4	1395.0	1378.4	1361.9	1337.0	1308.1	1283.2	1254.3	1221.1
45°	1552.3	1552.3	1539.9	1527.5	1506.8	1477.8	1448.8	1415.7	1378.4	1341.2	1299.8
42.5°	1730.3	1730.3	1713.7	1693.0	1664.1	1626.8	1581.3	1535.7	1490.2	1440.5	1390.9
40°	1970.4	1970.4	1945.5	1916.6	1871.0	1817.2	1751.0	1688.9	1626.8	1556.4	1494.3
37.5°	2347.1	2347.1	2305.7	2251.9	2177.4	2086.3	1974.5	1891.7	1796.5	1705.5	1622.7
35°	2963.9	2963.9	2889.3	2794.1	2661.7	2496.1	2318.1	2177.4	2020.1	1891.7	1771.7
32.5°	4060.8	4060.8	3911.8	3725.5	3473.0	3150.1	2852.1	2603.7	2347.1	2148.4	1958.0
30°	6184.4	6184.4	5865.6	5472.4	4930.1	4251.2	3742.1	3266.0	2831.4	2504.4	2227.0
27.5°	10170.7	10005.1	9508.4	8692.9	7575.2	6184.4	5298.5	4292.6	3605.5	2980.4	2595.4
25°	16057.0	15783.8	14964.2	13627.1	11805.8	9740.2	7931.2	6022.9	4818.3	3779.3	3063.2
22.5°	23210.0	22833.3	21719.8	19902.6	17439.6	14691.0	11764.4	9019.9	6577.6	4996.3	3779.3
20°	31679.3	31174.3	29680.0	27254.2	23992.3	20494.5	16586.8	12911.0	9388.3	6577.6	4818.3
17.5°	42860.0	42090.1	39825.8	36183.1	31679.3	26964.5	22079.9	17336.1	12911.0	9019.9	6022.9
15°	58933.6	57633.8	53833.8	47798.4	40786.2	34212.7	27982.8	22079.9	16586.8	11764.4	7931.2
12.5°	77515.6	75706.7	70470.3	62303.1	52774.1	42379.9	34212.7	26964.5	20494.5	14691.0	9740.2
10°	93171.1	91262.8	85852.5	77660.5	65577.4	52774.1	40786.2	31679.3	23992.3	17439.6	11805.8
7.5°	106396.7	104260.7	98428.2	89466.3	77660.5	62303.1	47798.4	36183.1	27254.2	19902.6	13627.1
5°	117883.7	115176.5	108387.8	98428.2	85852.5	70470.3	53833.8	39825.8	29680.0	21719.8	14964.2
2.5°	125558.3	122379.2	115176.5	104260.7	91262.8	75706.7	57633.8	42090.1	31174.3	22833.3	15783.8
0°	128381.4	125558.3	117883.7	106396.7	93171.1	77515.6	58933.6	42860.0	31679.3	23210.0	16057.0

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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°	41.4	41.4	37.3	37.3	37.3	33.1	33.1	33.1	29.0	29.0	29.0
85°	91.1	86.9	86.9	82.8	78.6	74.5	74.5	70.4	66.2	62.1	58.0
82.5°	144.9	140.7	136.6	132.5	128.3	120.0	115.9	111.8	103.5	99.3	95.2
80°	202.8	198.7	190.4	186.3	178.0	169.7	161.4	153.2	144.9	136.6	128.3
77.5°	273.2	260.8	252.5	244.2	231.8	223.5	211.1	202.8	190.4	178.0	165.6
75°	347.7	335.3	322.9	310.5	298.0	281.5	269.1	252.5	240.1	223.5	211.1
72.5°	430.5	413.9	397.4	380.8	364.3	347.7	331.2	310.5	293.9	273.2	252.5
70°	513.3	496.7	480.2	459.5	438.8	418.1	397.4	372.6	351.9	327.0	302.2
67.5°	600.2	579.5	558.8	538.1	517.4	492.6	463.6	438.8	409.8	380.8	356.0
65°	683.0	662.3	637.5	612.6	587.8	563.0	534.0	505.0	471.9	438.8	409.8
62.5°	757.5	736.8	716.1	687.2	662.3	633.3	604.4	567.1	534.0	500.9	463.6
60°	836.2	811.3	786.5	757.5	728.5	699.6	666.5	629.2	596.1	554.7	517.4
57.5°	910.7	885.8	856.9	827.9	794.8	761.7	728.5	691.3	654.0	612.6	571.2
55°	985.2	960.4	931.4	898.3	861.0	823.8	786.5	749.2	712.0	666.5	620.9
52.5°	1047.3	1022.4	993.5	968.6	927.2	890.0	848.6	803.1	761.7	716.1	670.6
50°	1113.5	1084.5	1051.4	1022.4	989.3	952.1	906.5	861.0	811.3	765.8	716.1
47.5°	1188.0	1150.8	1113.5	1076.3	1043.1	1001.8	964.5	914.8	865.1	811.3	761.7
45°	1262.5	1221.1	1179.7	1134.2	1092.8	1051.4	1010.0	968.6	914.8	861.0	803.1
42.5°	1341.2	1291.5	1246.0	1200.4	1150.8	1101.1	1055.6	1010.0	964.5	906.5	848.6
40°	1432.3	1374.3	1316.4	1262.5	1212.9	1154.9	1101.1	1051.4	1001.8	952.1	890.0
37.5°	1535.7	1465.4	1395.0	1328.8	1266.7	1212.9	1150.8	1092.8	1043.1	989.3	927.2
35°	1668.2	1564.7	1481.9	1399.1	1328.8	1262.5	1200.4	1134.2	1076.3	1022.4	968.6
32.5°	1817.2	1688.9	1577.1	1481.9	1395.0	1316.4	1246.0	1179.7	1113.5	1051.4	993.5
30°	1999.4	1833.8	1688.9	1564.7	1465.4	1374.3	1291.5	1221.1	1150.8	1084.5	1022.4
27.5°	2256.0	1999.4	1817.2	1668.2	1535.7	1432.3	1341.2	1262.5	1188.0	1113.5	1047.3
25°	2595.4	2227.0	1958.0	1771.7	1622.7	1494.3	1390.9	1299.8	1221.1	1146.6	1072.1
22.5°	2980.4	2504.4	2148.4	1891.7	1705.5	1556.4	1440.5	1341.2	1254.3	1175.6	1097.0
20°	3605.5	2831.4	2347.1	2020.1	1796.5	1626.8	1490.2	1378.4	1283.2	1200.4	1117.7
17.5°	4292.6	3266.0	2603.7	2177.4	1891.7	1688.9	1535.7	1415.7	1308.1	1225.3	1138.4
15°	5298.5	3742.1	2852.1	2318.1	1974.5	1751.0	1581.3	1448.8	1337.0	1246.0	1159.1
12.5°	6184.4	4251.2	3150.1	2496.1	2086.3	1817.2	1626.8	1477.8	1361.9	1262.5	1175.6
10°	7575.2	4930.1	3473.0	2661.7	2177.4	1871.0	1664.1	1506.8	1378.4	1279.1	1188.0
7.5°	8692.9	5472.4	3725.5	2794.1	2251.9	1916.6	1693.0	1527.5	1395.0	1287.4	1200.4
5°	9508.4	5865.6	3911.8	2889.3	2305.7	1945.5	1713.7	1539.9	1407.4	1295.7	1208.7
2.5°	10005.1	6184.4	4060.8	2963.9	2347.1	1970.4	1730.3	1552.3	1415.7	1303.9	1212.9
0°	10170.7	6184.4	4060.8	2963.9	2347.1	1970.4	1730.3	1552.3	1415.7	1303.9	1212.9

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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°	24.8	24.8	20.7	20.7	20.7	16.6	16.6	12.4	12.4	8.3	8.3
85°	53.8	49.7	45.5	41.4	37.3	33.1	33.1	29.0	24.8	20.7	16.6
82.5°	86.9	82.8	74.5	66.2	62.1	53.8	45.5	41.4	37.3	29.0	24.8
80°	120.0	111.8	103.5	95.2	86.9	74.5	66.2	58.0	45.5	37.3	33.1
77.5°	157.3	144.9	132.5	120.0	107.6	99.3	86.9	74.5	62.1	49.7	37.3
75°	194.6	178.0	165.6	149.0	136.6	120.0	103.5	91.1	78.6	62.1	45.5
72.5°	235.9	215.3	198.7	178.0	161.4	144.9	124.2	107.6	91.1	74.5	58.0
70°	281.5	256.6	231.8	211.1	190.4	165.6	144.9	124.2	103.5	86.9	66.2
67.5°	327.0	298.0	269.1	240.1	215.3	190.4	165.6	144.9	120.0	99.3	74.5
65°	372.6	339.4	310.5	277.3	244.2	215.3	190.4	161.4	136.6	107.6	86.9
62.5°	422.2	385.0	347.7	310.5	277.3	240.1	211.1	178.0	149.0	120.0	95.2
60°	476.0	434.6	389.1	347.7	310.5	269.1	231.8	198.7	165.6	132.5	103.5
57.5°	525.7	480.2	434.6	385.0	339.4	298.0	256.6	215.3	178.0	144.9	111.8
55°	575.4	525.7	476.0	422.2	372.6	327.0	281.5	235.9	194.6	157.3	120.0
52.5°	620.9	571.2	517.4	463.6	409.8	356.0	302.2	252.5	211.1	165.6	128.3
50°	666.5	612.6	554.7	500.9	438.8	380.8	327.0	273.2	223.5	178.0	136.6
47.5°	712.0	654.0	596.1	534.0	471.9	409.8	351.9	293.9	240.1	190.4	144.9
45°	749.2	691.3	629.2	567.1	505.0	438.8	372.6	310.5	252.5	202.8	153.2
42.5°	786.5	728.5	666.5	604.4	534.0	463.6	397.4	331.2	269.1	211.1	161.4
40°	823.8	761.7	699.6	633.3	563.0	492.6	418.1	347.7	281.5	223.5	169.7
37.5°	861.0	794.8	728.5	662.3	587.8	517.4	438.8	364.3	298.0	231.8	178.0
35°	898.3	827.9	757.5	687.2	612.6	538.1	459.5	380.8	310.5	244.2	186.3
32.5°	931.4	856.9	786.5	716.1	637.5	558.8	480.2	397.4	322.9	252.5	190.4
30°	960.4	885.8	811.3	736.8	662.3	579.5	496.7	413.9	335.3	260.8	198.7
27.5°	985.2	910.7	836.2	757.5	683.0	600.2	513.3	430.5	347.7	273.2	202.8
25°	1010.0	935.5	856.9	778.2	699.6	616.8	529.9	442.9	356.0	281.5	211.1
22.5°	1026.6	960.4	877.6	794.8	716.1	629.2	542.3	455.3	368.4	285.6	215.3
20°	1047.3	976.9	898.3	811.3	732.7	645.8	554.7	467.8	376.7	293.9	219.4
17.5°	1063.8	993.5	914.8	827.9	745.1	658.2	567.1	476.0	385.0	298.0	223.5
15°	1080.4	1005.9	927.2	840.3	753.4	670.6	575.4	484.3	389.1	306.3	227.7
12.5°	1092.8	1018.3	939.7	852.7	765.8	678.9	583.7	492.6	397.4	310.5	227.7
10°	1101.1	1026.6	952.1	861.0	774.1	687.2	591.9	496.7	401.5	310.5	231.8
7.5°	1109.4	1034.9	960.4	869.3	778.2	691.3	596.1	505.0	405.7	314.6	235.9
5°	1117.7	1039.0	964.5	873.4	782.4	699.6	604.4	509.2	409.8	318.7	235.9
2.5°	1121.8	1043.1	968.6	877.6	786.5	699.6	604.4	509.2	409.8	318.7	235.9
0°	1121.8	1043.1	968.6	877.6	786.5	699.6	604.4	509.2	409.8	318.7	235.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	0.0	0.0
85°	12.4	8.3	4.1	0.0
82.5°	16.6	12.4	4.1	0.0
80°	24.8	16.6	8.3	0.0
77.5°	29.0	20.7	8.3	0.0
75°	37.3	24.8	12.4	0.0
72.5°	41.4	29.0	12.4	0.0
70°	45.5	33.1	16.6	0.0
67.5°	53.8	33.1	16.6	0.0
65°	62.1	37.3	20.7	0.0
62.5°	66.2	41.4	20.7	0.0
60°	74.5	45.5	20.7	0.0
57.5°	82.8	49.7	24.8	0.0
55°	86.9	53.8	24.8	0.0
52.5°	95.2	58.0	29.0	0.0
50°	99.3	62.1	29.0	0.0
47.5°	103.5	66.2	29.0	0.0
45°	111.8	70.4	33.1	0.0
42.5°	115.9	74.5	33.1	0.0
40°	120.0	74.5	33.1	0.0
37.5°	128.3	78.6	37.3	0.0
35°	132.5	82.8	37.3	0.0
32.5°	136.6	86.9	37.3	0.0
30°	140.7	86.9	41.4	0.0
27.5°	144.9	91.1	41.4	0.0
25°	149.0	91.1	41.4	0.0
22.5°	153.2	95.2	41.4	0.0
20°	153.2	95.2	41.4	0.0
17.5°	157.3	99.3	41.4	0.0
15°	157.3	99.3	45.5	0.0
12.5°	161.4	99.3	45.5	0.0
10°	161.4	103.5	45.5	0.0
7.5°	165.6	103.5	45.5	0.0
5°	165.6	103.5	45.5	0.0
2.5°	165.6	103.5	45.5	0.0
0°	165.6	103.5	45.5	0.0

(END OF REPORT)