

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: P623794

Luminaire Tested: **IFLD-S-SA6C-830-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623794
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	34426.1 lumens	Max Intensity:	42070.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	107.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	17110.6 lumens	Field Lumens:	22252.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

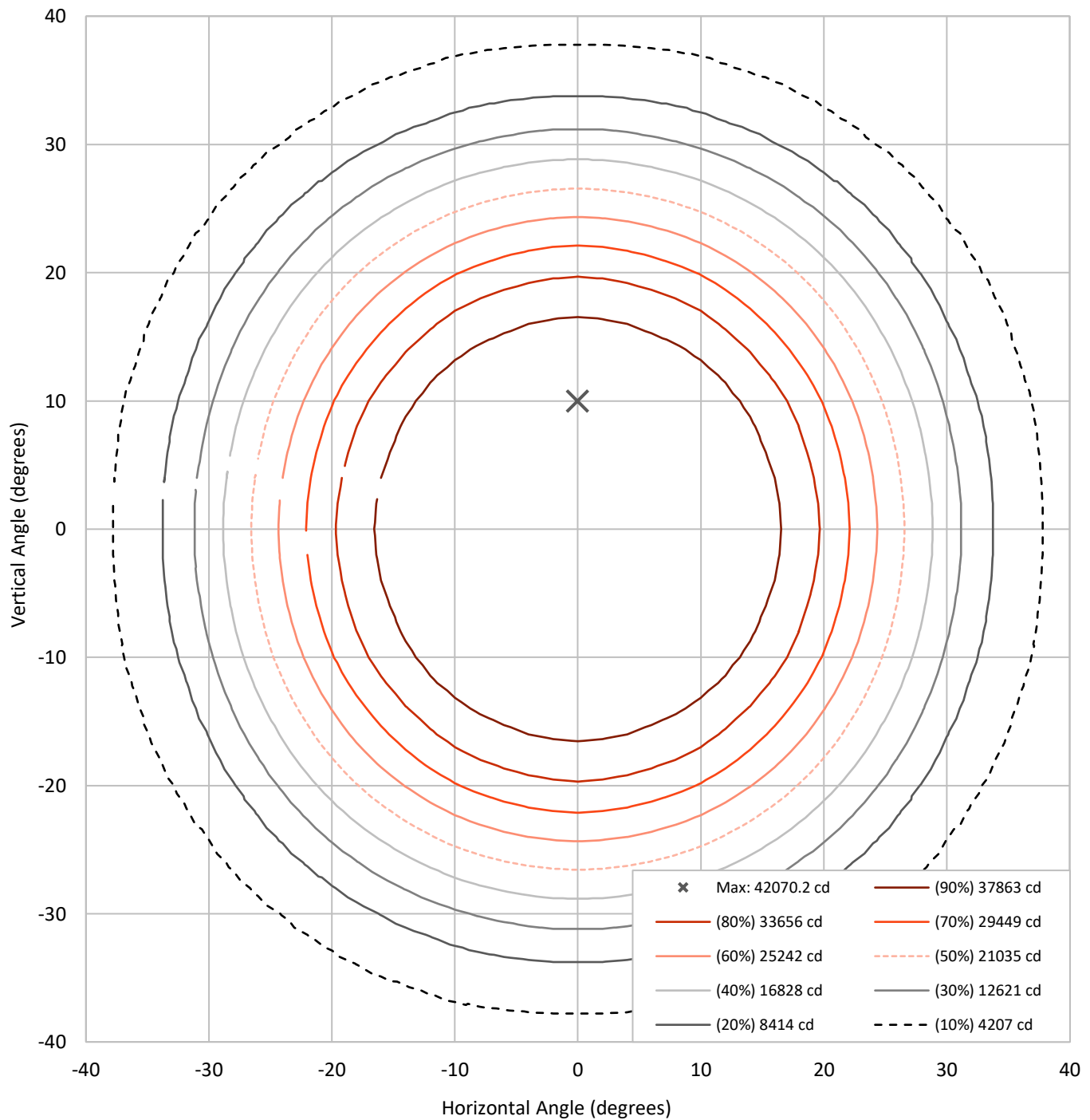
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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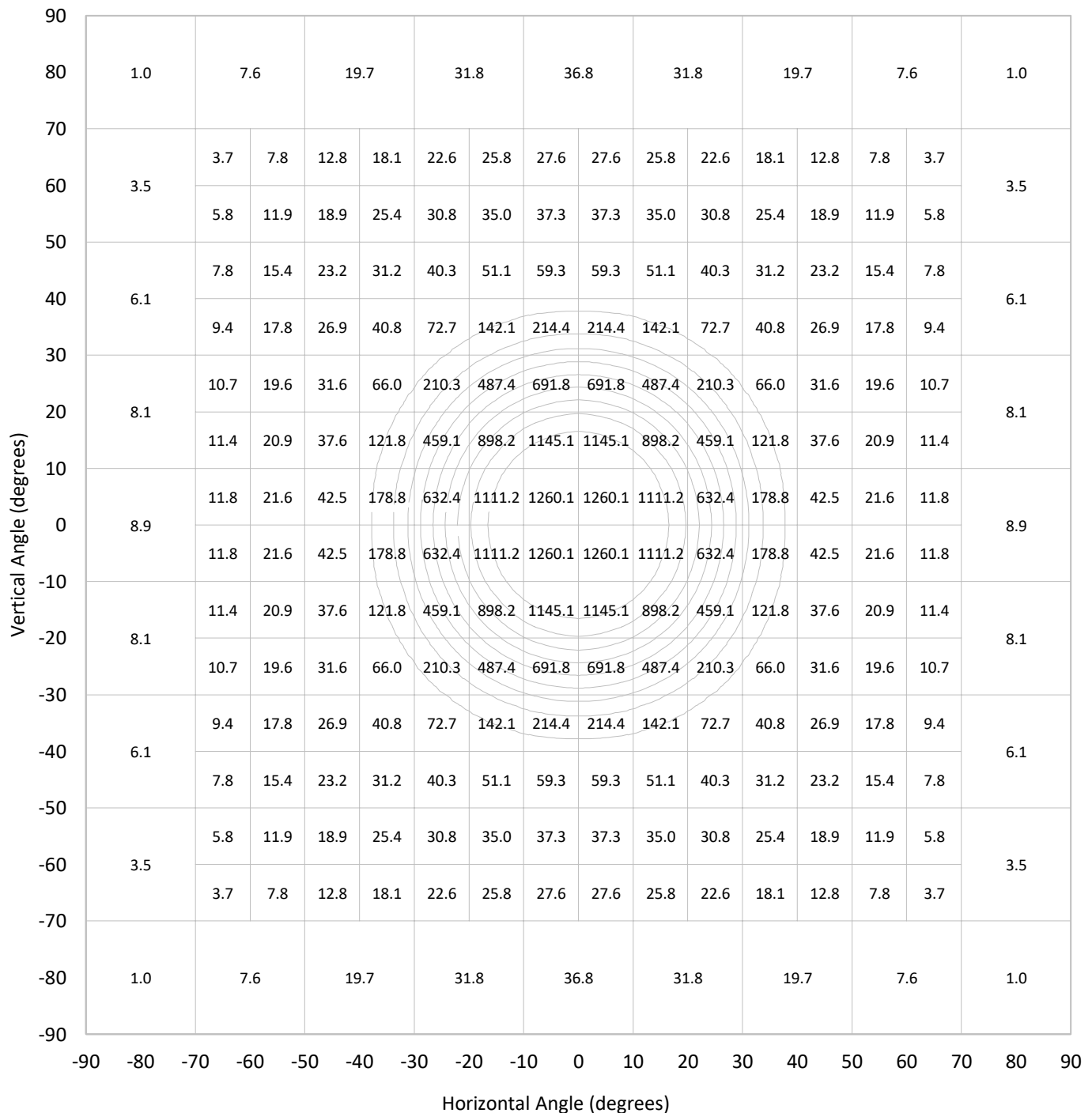
Iso-Candela Plot



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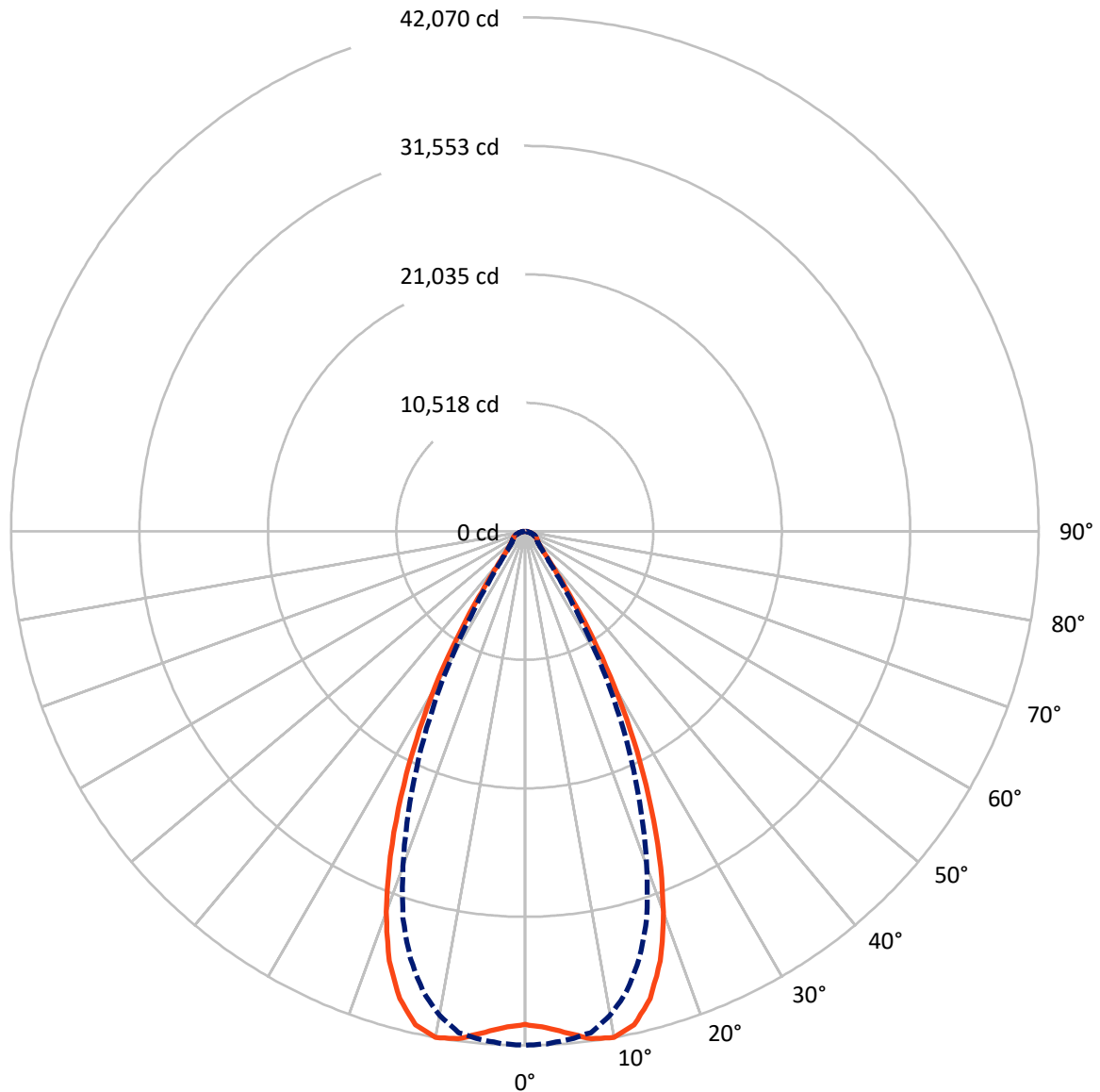
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Lumen Table



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Luminous Intensity Polar Plot

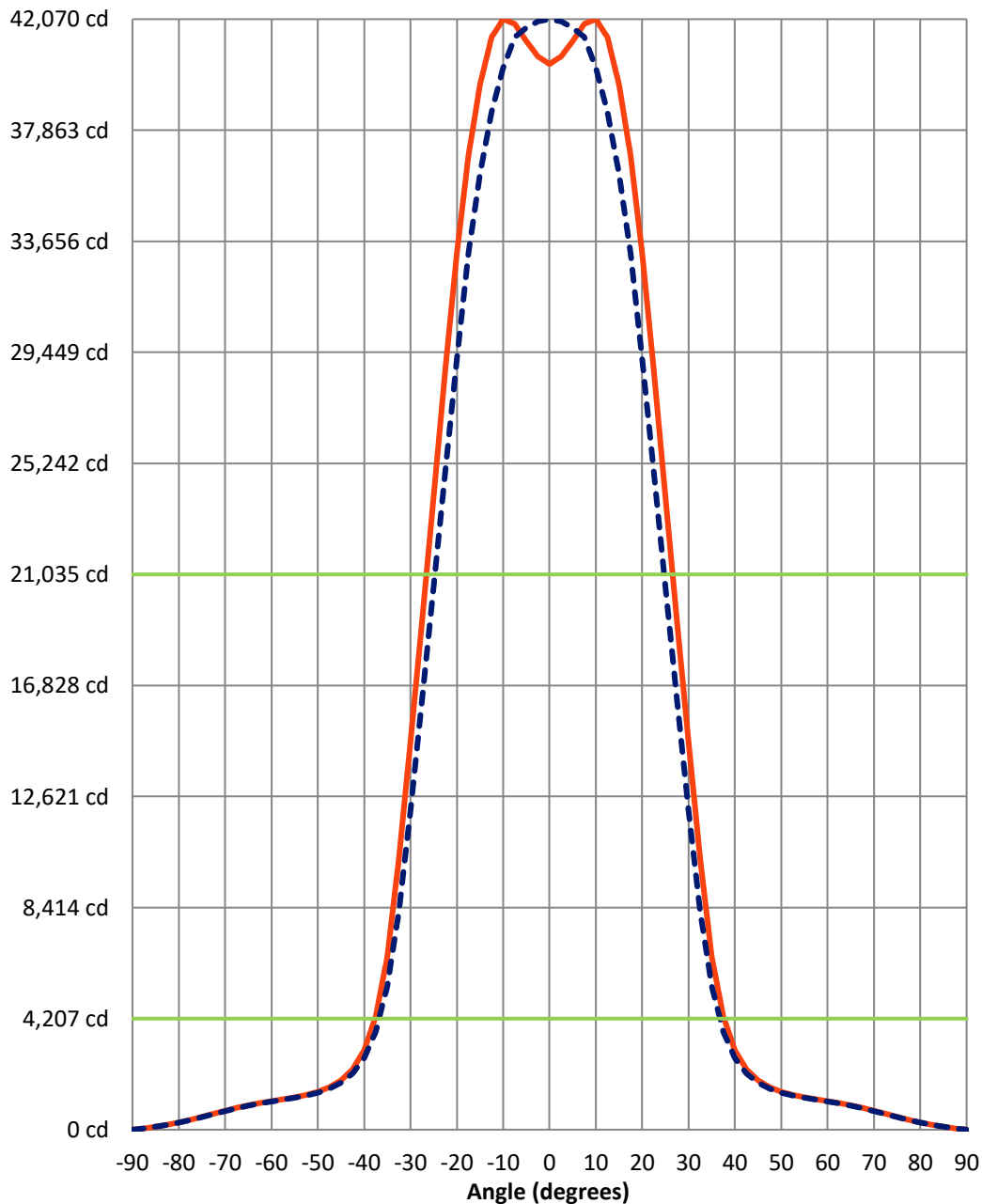


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 17110.6
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 22252.9
Efficiency: 64.6%

Spill:

Lumens: 12173.2
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°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	42.9	42.9	42.9	42.9
85°	114.4	114.4	114.4	114.4	114.4	110.9	110.9	107.3	107.3	103.7	100.1
82.5°	186.0	186.0	186.0	186.0	182.4	182.4	178.8	175.2	171.7	168.1	164.5
80°	271.8	271.8	271.8	271.8	268.2	264.6	261.1	257.5	250.3	246.8	239.6
77.5°	371.9	371.9	371.9	368.3	364.8	361.2	354.0	346.9	339.7	332.6	325.4
75°	486.4	486.4	486.4	479.2	475.6	468.5	461.3	454.2	443.4	432.7	422.0
72.5°	604.4	604.4	604.4	597.2	590.1	582.9	575.8	565.0	554.3	540.0	525.7
70°	715.2	715.2	715.2	708.1	700.9	693.8	683.0	672.3	658.0	643.7	629.4
67.5°	829.7	829.7	829.7	818.9	811.8	804.6	793.9	779.6	765.3	747.4	729.5
65°	922.7	922.7	919.1	915.5	908.3	897.6	890.5	876.2	861.9	847.6	829.7
62.5°	1008.5	1008.5	1004.9	1001.3	994.2	983.4	972.7	962.0	947.7	929.8	911.9
60°	1080.0	1080.0	1076.4	1072.9	1065.7	1058.5	1047.8	1037.1	1022.8	1008.5	990.6
57.5°	1151.5	1151.5	1148.0	1144.4	1137.2	1126.5	1115.8	1105.0	1090.7	1072.9	1055.0
55°	1226.6	1226.6	1223.1	1215.9	1208.7	1198.0	1187.3	1173.0	1155.1	1137.2	1119.3
52.5°	1316.0	1316.0	1308.9	1301.7	1291.0	1280.3	1262.4	1244.5	1223.1	1201.6	1180.1
50°	1434.0	1434.0	1426.9	1416.2	1398.3	1380.4	1358.9	1330.3	1305.3	1276.7	1248.1
47.5°	1609.3	1609.3	1595.0	1577.1	1552.1	1523.5	1484.1	1441.2	1405.4	1369.7	1326.8
45°	1866.8	1866.8	1845.3	1816.7	1777.4	1727.3	1670.1	1609.3	1548.5	1487.7	1426.9
42.5°	2285.2	2285.2	2245.8	2195.8	2127.8	2042.0	1934.7	1834.6	1748.8	1652.2	1569.9
40°	3007.6	3007.6	2932.5	2839.5	2710.7	2546.2	2349.5	2192.2	2042.0	1873.9	1759.5
37.5°	4291.4	4291.4	4144.8	3966.0	3715.6	3400.9	3021.9	2768.0	2489.0	2224.4	2031.3
35°	6558.7	6558.7	6276.2	5929.3	5446.5	4838.6	4191.3	3712.1	3179.2	2771.5	2410.3
32.5°	10277.9	10277.9	9770.1	9144.3	8282.4	7191.7	6154.6	5242.7	4291.4	3615.5	2964.7
30°	14698.1	14698.1	14032.9	13214.0	12091.1	10674.9	9197.9	7577.9	6075.9	4870.8	3887.3
27.5°	19268.4	19078.9	18506.7	17573.3	16293.1	14698.1	12856.4	10764.3	8733.0	6608.8	5203.3
25°	23996.2	23774.4	23120.0	22047.1	20580.9	18774.9	16700.7	14361.9	11855.0	9323.1	6891.3
22.5°	28773.9	28523.6	27779.7	26567.4	24922.4	22898.3	20548.7	17948.8	15148.7	12223.4	9323.1
20°	33190.5	32925.9	32146.3	30883.9	29181.6	26960.8	24350.2	21467.8	18370.8	15148.7	11855.0
17.5°	36888.3	36634.4	35883.4	34678.2	33190.5	30733.7	28019.4	24850.9	21467.8	17948.8	14361.9
15°	39588.3	39370.1	38730.0	37717.9	36201.6	34027.3	31262.9	28019.4	24350.2	20548.7	16700.7
12.5°	41380.0	41204.7	40700.5	39913.7	38554.8	36730.9	34027.3	30733.7	26960.8	22898.3	18774.9
10°	42070.2	41984.3	41748.3	41387.1	40228.4	38554.8	36201.6	33190.5	29181.6	24922.4	20580.9
7.5°	41887.8	41916.4	41998.6	41905.6	41387.1	39913.7	37717.9	34678.2	30883.9	26567.4	22047.1
5°	41236.9	41390.7	41773.3	41998.6	41748.3	40700.5	38730.0	35883.4	32146.3	27779.7	23120.0
2.5°	40657.6	40897.2	41390.7	41916.4	41984.3	41204.7	39370.1	36634.4	32925.9	28523.6	23774.4
0°	40371.5	40657.6	41236.9	41887.8	42070.2	41380.0	39588.3	36888.3	33190.5	28773.9	23996.2

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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°	42.9	39.3	39.3	39.3	35.8	35.8	35.8	32.2	32.2	28.6	28.6
85°	100.1	96.6	93.0	89.4	85.8	82.3	78.7	75.1	71.5	64.4	60.8
82.5°	160.9	157.4	153.8	146.6	143.0	135.9	128.7	121.6	114.4	110.9	103.7
80°	232.5	225.3	218.1	211.0	200.3	189.5	182.4	171.7	164.5	153.8	146.6
77.5°	314.7	304.0	293.2	278.9	268.2	257.5	243.2	232.5	218.1	203.8	189.5
75°	407.7	393.4	375.5	361.2	346.9	329.0	311.1	293.2	275.4	257.5	239.6
72.5°	507.8	489.9	472.1	454.2	432.7	407.7	386.2	361.2	339.7	318.3	293.2
70°	611.5	590.1	568.6	547.2	522.1	493.5	468.5	439.9	411.3	382.7	354.0
67.5°	708.1	686.6	661.6	640.1	611.5	582.9	550.7	518.5	486.4	450.6	414.8
65°	808.2	783.2	754.6	726.0	697.4	665.2	633.0	600.8	561.5	522.1	486.4
62.5°	890.5	869.0	844.0	815.4	783.2	747.4	715.2	672.3	633.0	593.6	547.2
60°	969.1	944.1	922.7	890.5	861.9	829.7	790.3	747.4	704.5	658.0	615.1
57.5°	1037.1	1015.6	990.6	962.0	929.8	897.6	861.9	822.5	772.5	726.0	675.9
55°	1097.9	1072.9	1047.8	1022.8	994.2	958.4	922.7	883.3	840.4	790.3	736.7
52.5°	1158.7	1133.6	1105.0	1080.0	1047.8	1015.6	979.9	940.5	897.6	851.1	793.9
50°	1219.5	1190.9	1162.3	1130.1	1097.9	1065.7	1029.9	994.2	947.7	901.2	851.1
47.5°	1291.0	1255.2	1219.5	1183.7	1151.5	1112.2	1076.4	1037.1	997.8	947.7	897.6
45°	1380.4	1326.8	1283.8	1240.9	1201.6	1162.3	1119.3	1080.0	1037.1	994.2	940.5
42.5°	1491.3	1419.7	1362.5	1305.3	1255.2	1208.7	1165.8	1119.3	1076.4	1029.9	979.9
40°	1641.5	1544.9	1451.9	1380.4	1316.0	1258.8	1208.7	1162.3	1112.2	1065.7	1015.6
37.5°	1838.2	1702.3	1573.5	1469.8	1387.6	1316.0	1255.2	1201.6	1151.5	1097.9	1047.8
35°	2135.0	1899.0	1734.4	1584.2	1469.8	1380.4	1305.3	1240.9	1183.7	1130.1	1080.0
32.5°	2553.4	2188.6	1924.0	1734.4	1573.5	1451.9	1362.5	1283.8	1219.5	1162.3	1105.0
30°	3104.1	2599.9	2188.6	1899.0	1702.3	1544.9	1419.7	1326.8	1255.2	1190.9	1133.6
27.5°	3976.7	3104.1	2553.4	2135.0	1838.2	1641.5	1491.3	1380.4	1291.0	1219.5	1158.7
25°	5203.3	3887.3	2964.7	2410.3	2031.3	1759.5	1569.9	1426.9	1326.8	1248.1	1180.1
22.5°	6608.8	4870.8	3615.5	2771.5	2224.4	1873.9	1652.2	1487.7	1369.7	1276.7	1201.6
20°	8733.0	6075.9	4291.4	3179.2	2489.0	2042.0	1748.8	1548.5	1405.4	1305.3	1223.1
17.5°	10764.3	7577.9	5242.7	3712.1	2768.0	2192.2	1834.6	1609.3	1441.2	1330.3	1244.5
15°	12856.4	9197.9	6154.6	4191.3	3021.9	2349.5	1934.7	1670.1	1484.1	1358.9	1262.4
12.5°	14698.1	10674.9	7191.7	4838.6	3400.9	2546.2	2042.0	1727.3	1523.5	1380.4	1280.3
10°	16293.1	12091.1	8282.4	5446.5	3715.6	2710.7	2127.8	1777.4	1552.1	1398.3	1291.0
7.5°	17573.3	13214.0	9144.3	5929.3	3966.0	2839.5	2195.8	1816.7	1577.1	1416.2	1301.7
5°	18506.7	14032.9	9770.1	6276.2	4144.8	2932.5	2245.8	1845.3	1595.0	1426.9	1308.9
2.5°	19078.9	14698.1	10277.9	6558.7	4291.4	3007.6	2285.2	1866.8	1609.3	1434.0	1316.0
0°	19268.4	14698.1	10277.9	6558.7	4291.4	3007.6	2285.2	1866.8	1609.3	1434.0	1316.0

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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°	25.0	25.0	21.5	21.5	17.9	17.9	14.3	14.3	10.7	10.7	7.2
85°	57.2	50.1	46.5	42.9	39.3	35.8	32.2	28.6	25.0	21.5	17.9
82.5°	96.6	89.4	78.7	71.5	64.4	57.2	46.5	42.9	35.8	28.6	25.0
80°	135.9	125.2	114.4	103.7	93.0	82.3	71.5	60.8	50.1	39.3	32.2
77.5°	175.2	160.9	150.2	135.9	121.6	107.3	93.0	78.7	64.4	50.1	39.3
75°	221.7	203.8	186.0	168.1	150.2	132.3	118.0	100.1	82.3	64.4	50.1
72.5°	271.8	246.8	225.3	203.8	178.8	160.9	139.5	121.6	100.1	78.7	60.8
70°	325.4	296.8	268.2	239.6	214.6	186.0	164.5	139.5	118.0	93.0	71.5
67.5°	379.1	346.9	314.7	278.9	246.8	218.1	186.0	160.9	132.3	107.3	82.3
65°	443.4	400.5	361.2	321.9	282.5	246.8	214.6	178.8	150.2	121.6	93.0
62.5°	504.2	457.8	411.3	364.8	321.9	278.9	239.6	203.8	168.1	135.9	103.7
60°	565.0	515.0	461.3	411.3	361.2	314.7	268.2	225.3	186.0	150.2	114.4
57.5°	625.8	568.6	515.0	457.8	400.5	346.9	296.8	246.8	203.8	160.9	125.2
55°	679.5	625.8	565.0	504.2	443.4	379.1	325.4	271.8	221.7	175.2	135.9
52.5°	736.7	675.9	615.1	547.2	486.4	414.8	354.0	293.2	239.6	189.5	146.6
50°	790.3	726.0	658.0	593.6	522.1	450.6	382.7	318.3	257.5	203.8	153.8
47.5°	840.4	772.5	704.5	633.0	561.5	486.4	411.3	339.7	275.4	218.1	164.5
45°	883.3	822.5	747.4	672.3	600.8	518.5	439.9	361.2	293.2	232.5	171.7
42.5°	922.7	861.9	790.3	715.2	633.0	550.7	468.5	386.2	311.1	243.2	182.4
40°	958.4	897.6	829.7	747.4	665.2	582.9	493.5	407.7	329.0	257.5	189.5
37.5°	994.2	929.8	861.9	783.2	697.4	611.5	522.1	432.7	346.9	268.2	200.3
35°	1022.8	962.0	890.5	815.4	726.0	640.1	547.2	454.2	361.2	278.9	211.0
32.5°	1047.8	990.6	922.7	844.0	754.6	661.6	568.6	472.1	375.5	293.2	218.1
30°	1072.9	1015.6	944.1	869.0	783.2	686.6	590.1	489.9	393.4	304.0	225.3
27.5°	1097.9	1037.1	969.1	890.5	808.2	708.1	611.5	507.8	407.7	314.7	232.5
25°	1119.3	1055.0	990.6	911.9	829.7	729.5	629.4	525.7	422.0	325.4	239.6
22.5°	1137.2	1072.9	1008.5	929.8	847.6	747.4	643.7	540.0	432.7	332.6	246.8
20°	1155.1	1090.7	1022.8	947.7	861.9	765.3	658.0	554.3	443.4	339.7	250.3
17.5°	1173.0	1105.0	1037.1	962.0	876.2	779.6	672.3	565.0	454.2	346.9	257.5
15°	1187.3	1115.8	1047.8	972.7	890.5	793.9	683.0	575.8	461.3	354.0	261.1
12.5°	1198.0	1126.5	1058.5	983.4	897.6	804.6	693.8	582.9	468.5	361.2	264.6
10°	1208.7	1137.2	1065.7	994.2	908.3	811.8	700.9	590.1	475.6	364.8	268.2
7.5°	1215.9	1144.4	1072.9	1001.3	915.5	818.9	708.1	597.2	479.2	368.3	271.8
5°	1223.1	1148.0	1076.4	1004.9	919.1	829.7	715.2	604.4	486.4	371.9	271.8
2.5°	1226.6	1151.5	1080.0	1008.5	922.7	829.7	715.2	604.4	486.4	371.9	271.8
0°	1226.6	1151.5	1080.0	1008.5	922.7	829.7	715.2	604.4	486.4	371.9	271.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	3.6	3.6	0.0
85°	10.7	7.2	3.6	0.0
82.5°	17.9	10.7	7.2	0.0
80°	25.0	17.9	7.2	0.0
77.5°	28.6	21.5	10.7	0.0
75°	35.8	25.0	10.7	0.0
72.5°	42.9	28.6	14.3	0.0
70°	46.5	32.2	14.3	0.0
67.5°	57.2	35.8	17.9	0.0
65°	64.4	39.3	17.9	0.0
62.5°	71.5	42.9	21.5	0.0
60°	78.7	46.5	21.5	0.0
57.5°	89.4	50.1	25.0	0.0
55°	96.6	57.2	25.0	0.0
52.5°	103.7	60.8	28.6	0.0
50°	110.9	64.4	28.6	0.0
47.5°	114.4	71.5	32.2	0.0
45°	121.6	75.1	32.2	0.0
42.5°	128.7	78.7	35.8	0.0
40°	135.9	82.3	35.8	0.0
37.5°	143.0	85.8	35.8	0.0
35°	146.6	89.4	39.3	0.0
32.5°	153.8	93.0	39.3	0.0
30°	157.4	96.6	39.3	0.0
27.5°	160.9	100.1	42.9	0.0
25°	164.5	100.1	42.9	0.0
22.5°	168.1	103.7	42.9	0.0
20°	171.7	107.3	42.9	0.0
17.5°	175.2	107.3	42.9	0.0
15°	178.8	110.9	46.5	0.0
12.5°	182.4	110.9	46.5	0.0
10°	182.4	114.4	46.5	0.0
7.5°	186.0	114.4	46.5	0.0
5°	186.0	114.4	46.5	0.0
2.5°	186.0	114.4	46.5	0.0
0°	186.0	114.4	46.5	0.0

(END OF REPORT)