

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: P623401

Luminaire Tested: **IFLD-L-SA8A-735-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	35082.1 lumens	Max Intensity:	113439.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

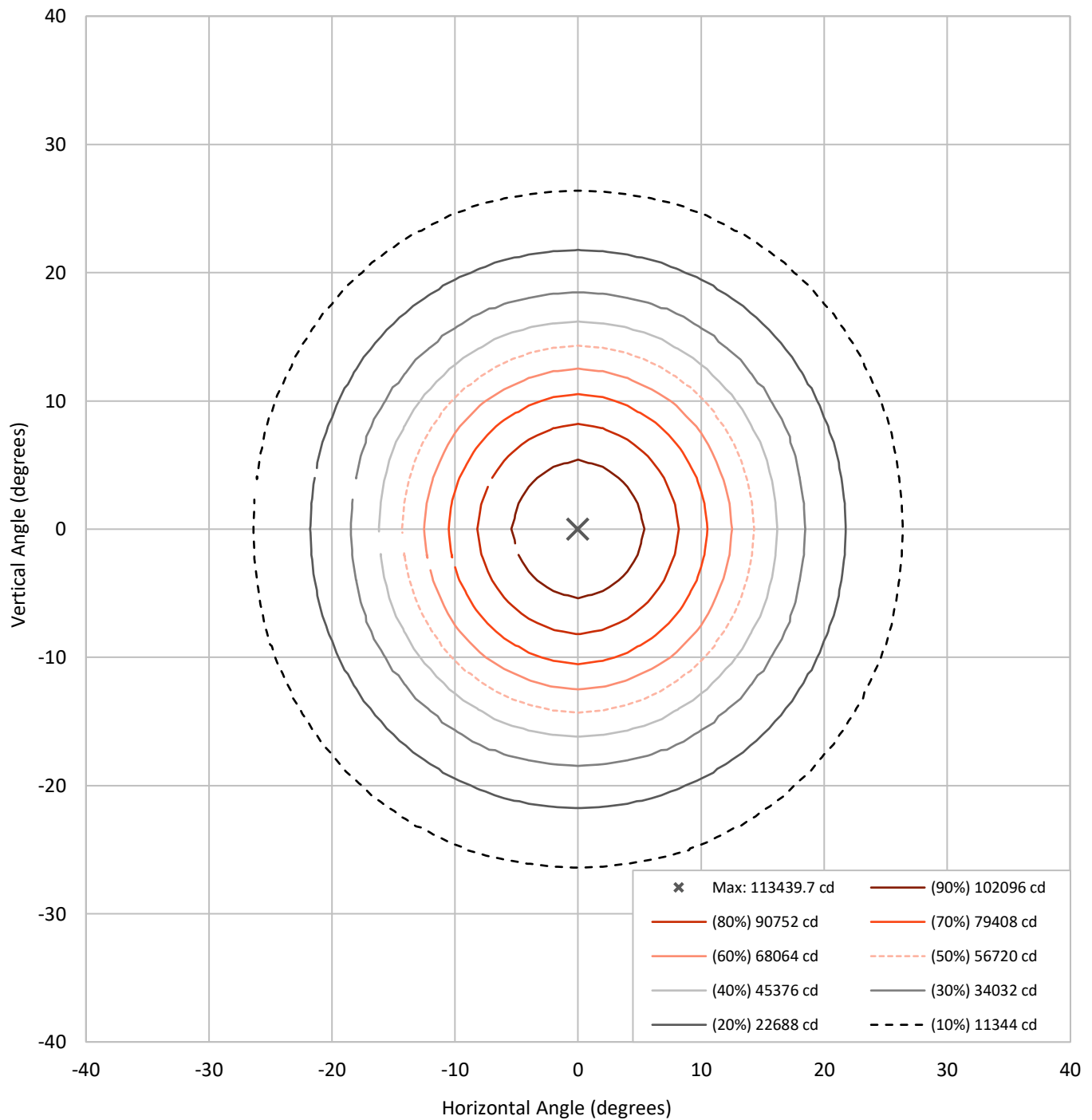
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	12658.3 lumens	Field Lumens:	21375.3 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

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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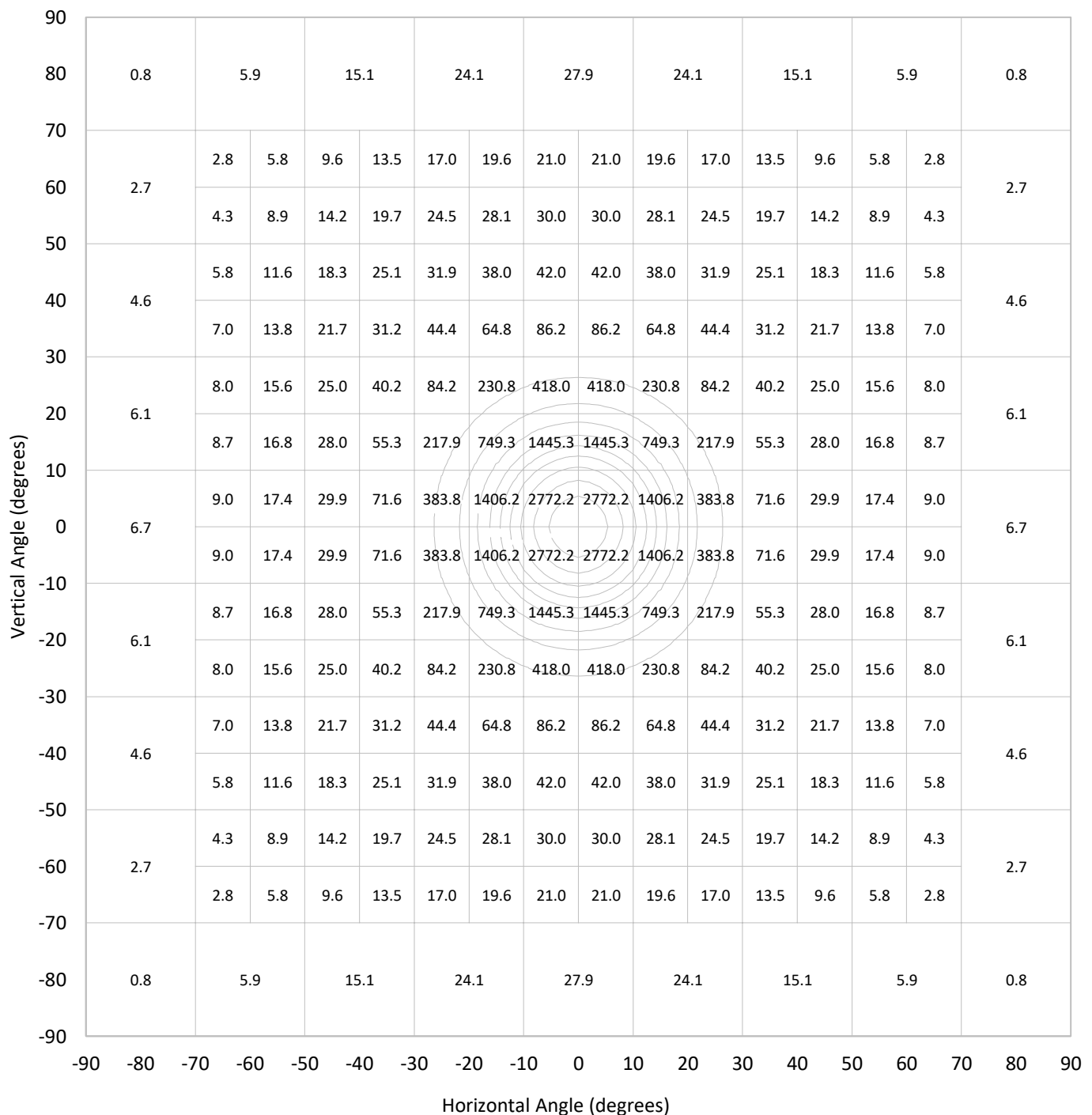
Iso-Candela Plot





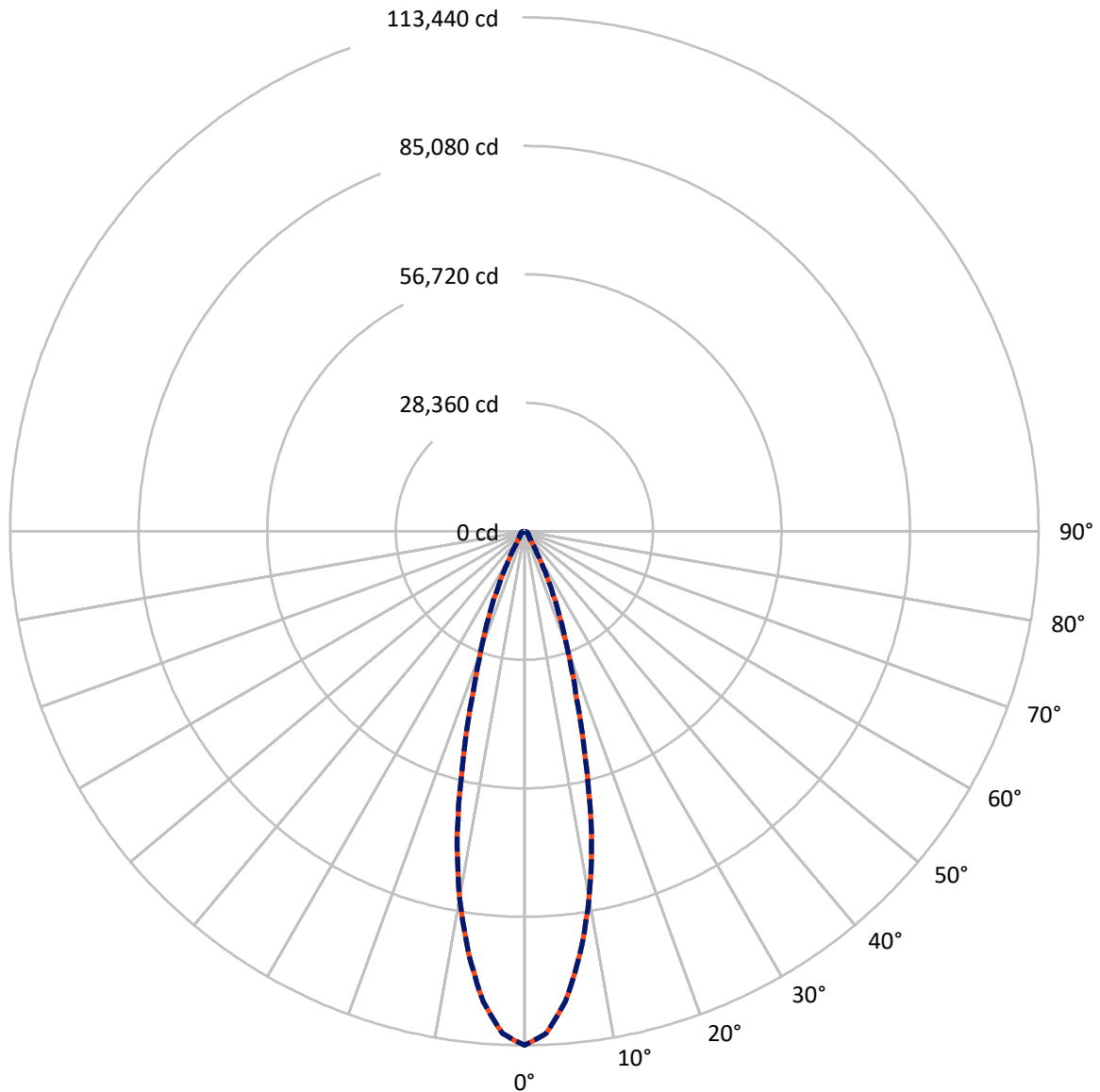
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Lumen Table



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Luminous Intensity Polar Plot

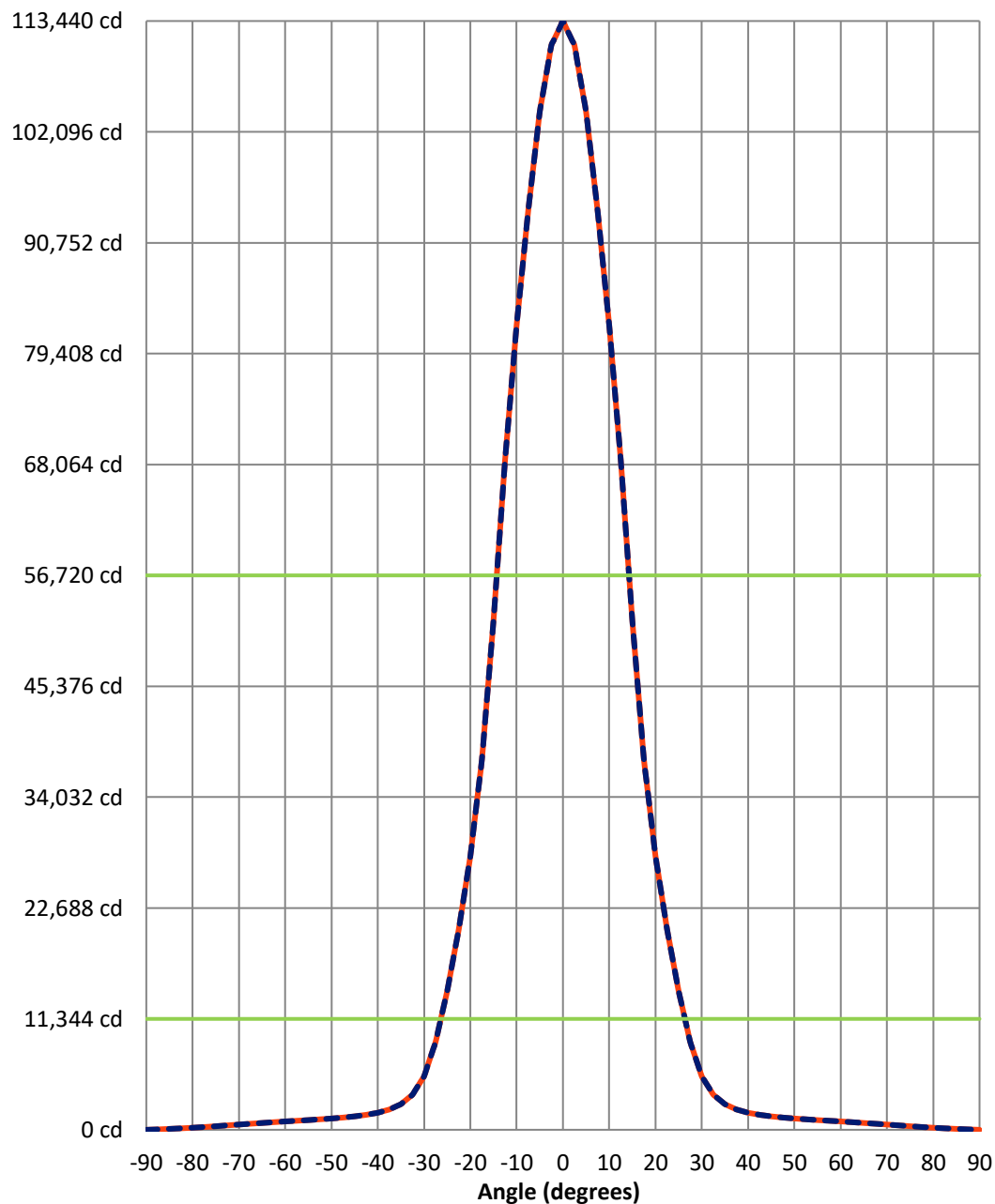


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 12658.3
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 21375.3
Efficiency: 60.9%

Spill:

Lumens: 13706.9
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°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	36.6	36.6	36.6	36.6
85°	91.4	91.4	91.4	91.4	91.4	87.8	87.8	87.8	84.1	84.1	80.5
82.5°	146.3	146.3	146.3	146.3	142.7	142.7	139.0	139.0	135.3	135.3	131.7
80°	208.5	208.5	208.5	208.5	204.8	201.2	201.2	197.5	193.9	190.2	186.5
77.5°	281.6	281.6	281.6	278.0	274.3	274.3	270.7	263.4	259.7	252.4	248.7
75°	362.1	362.1	362.1	358.5	354.8	351.1	343.8	340.2	332.9	325.5	314.6
72.5°	449.9	449.9	449.9	446.2	438.9	435.3	428.0	420.6	413.3	402.3	391.4
70°	534.0	534.0	534.0	526.7	523.1	515.7	508.4	501.1	490.1	479.2	468.2
67.5°	618.2	618.2	618.2	610.8	607.2	599.9	592.5	581.6	570.6	556.0	545.0
65°	695.0	695.0	691.3	687.6	684.0	676.7	665.7	658.4	647.4	632.8	618.2
62.5°	775.4	775.4	771.8	768.1	760.8	753.5	742.5	731.5	716.9	702.3	687.6
60°	855.9	855.9	852.2	848.6	841.3	830.3	819.3	808.4	793.7	775.4	757.1
57.5°	921.7	921.7	918.1	914.4	907.1	899.8	888.8	877.8	863.2	848.6	826.6
55°	991.2	991.2	987.6	980.3	972.9	965.6	954.7	940.0	925.4	907.1	892.5
52.5°	1071.7	1071.7	1068.0	1060.7	1049.8	1038.8	1024.2	1005.9	987.6	969.3	947.3
50°	1152.2	1152.2	1144.9	1137.5	1130.2	1115.6	1101.0	1082.7	1060.7	1038.8	1013.2
47.5°	1250.9	1250.9	1243.6	1232.6	1218.0	1203.4	1181.4	1155.8	1133.9	1108.3	1079.0
45°	1371.6	1371.6	1360.7	1349.7	1331.4	1305.8	1280.2	1250.9	1218.0	1185.1	1148.5
42.5°	1528.9	1528.9	1514.3	1496.0	1470.4	1437.5	1397.2	1357.0	1316.8	1272.9	1229.0
40°	1741.1	1741.1	1719.1	1693.5	1653.3	1605.7	1547.2	1492.3	1437.5	1375.3	1320.4
37.5°	2073.9	2073.9	2037.3	1989.8	1923.9	1843.5	1744.7	1671.6	1587.4	1507.0	1433.8
35°	2618.9	2618.9	2553.1	2468.9	2351.9	2205.6	2048.3	1923.9	1785.0	1671.6	1565.5
32.5°	3588.2	3588.2	3456.5	3291.9	3068.8	2783.5	2520.2	2300.7	2073.9	1898.3	1730.1
30°	5464.6	5464.6	5183.0	4835.5	4356.3	3756.5	3306.6	2885.9	2501.9	2212.9	1967.8
27.5°	8987.0	8840.6	8401.7	7681.2	6693.6	5464.6	4681.8	3793.0	3185.9	2633.5	2293.4
25°	14188.2	13946.8	13222.6	12041.1	10431.7	8606.6	7008.1	5321.9	4257.6	3339.5	2706.7
22.5°	20508.7	20175.8	19191.9	17586.2	15409.9	12981.2	10395.2	7970.1	5812.1	4414.8	3339.5
20°	27992.3	27546.1	26225.7	24082.3	21200.0	18109.2	14656.4	11408.3	8295.6	5812.1	4257.6
17.5°	37871.8	37191.4	35190.7	31971.9	27992.3	23826.2	19510.1	15318.4	11408.3	7970.1	5321.9
15°	52074.6	50926.1	47568.3	42235.4	36039.2	30230.8	24726.0	19510.1	14656.4	10395.2	7008.1
12.5°	68494.0	66895.5	62268.6	55051.9	46631.9	37447.5	30230.8	23826.2	18109.2	12981.2	8606.6
10°	82327.4	80641.2	75860.6	68622.0	57945.2	46631.9	36039.2	27992.3	21200.0	15409.9	10431.7
7.5°	94013.7	92126.3	86972.6	79053.7	68622.0	55051.9	42235.4	31971.9	24082.3	17586.2	12041.1
5°	104163.8	101771.6	95773.0	86972.6	75860.6	62268.6	47568.3	35190.7	26225.7	19191.9	13222.6
2.5°	110945.1	108136.0	101771.6	92126.3	80641.2	66895.5	50926.1	37191.4	27546.1	20175.8	13946.8
0°	113439.7	110945.1	104163.8	94013.7	82327.4	68494.0	52074.6	37871.8	27992.3	20508.7	14188.2

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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°	36.6	36.6	32.9	32.9	32.9	29.3	29.3	29.3	25.6	25.6	25.6
85°	80.5	76.8	76.8	73.2	69.5	65.8	65.8	62.2	58.5	54.9	51.2
82.5°	128.0	124.4	120.7	117.0	113.4	106.1	102.4	98.8	91.4	87.8	84.1
80°	179.2	175.6	168.3	164.6	157.3	150.0	142.7	135.3	128.0	120.7	113.4
77.5°	241.4	230.4	223.1	215.8	204.8	197.5	186.5	179.2	168.3	157.3	146.3
75°	307.2	296.3	285.3	274.3	263.4	248.7	237.8	223.1	212.1	197.5	186.5
72.5°	380.4	365.8	351.1	336.5	321.9	307.2	292.6	274.3	259.7	241.4	223.1
70°	453.6	438.9	424.3	406.0	387.7	369.4	351.1	329.2	310.9	289.0	267.0
67.5°	530.4	512.1	493.8	475.5	457.2	435.3	409.7	387.7	362.1	336.5	314.6
65°	603.5	585.2	563.3	541.3	519.4	497.4	471.8	446.2	417.0	387.7	362.1
62.5°	669.4	651.1	632.8	607.2	585.2	559.6	534.0	501.1	471.8	442.6	409.7
60°	738.9	716.9	695.0	669.4	643.8	618.2	588.9	556.0	526.7	490.1	457.2
57.5°	804.7	782.7	757.1	731.5	702.3	673.0	643.8	610.8	577.9	541.3	504.8
55°	870.5	848.6	823.0	793.7	760.8	727.9	695.0	662.0	629.1	588.9	548.7
52.5°	925.4	903.5	877.8	855.9	819.3	786.4	749.8	709.6	673.0	632.8	592.5
50°	983.9	958.3	929.1	903.5	874.2	841.3	801.0	760.8	716.9	676.7	632.8
47.5°	1049.8	1016.8	983.9	951.0	921.7	885.2	852.2	808.4	764.5	716.9	673.0
45°	1115.6	1079.0	1042.4	1002.2	965.6	929.1	892.5	855.9	808.4	760.8	709.6
42.5°	1185.1	1141.2	1101.0	1060.7	1016.8	972.9	932.7	892.5	852.2	801.0	749.8
40°	1265.6	1214.4	1163.1	1115.6	1071.7	1020.5	972.9	929.1	885.2	841.3	786.4
37.5°	1357.0	1294.8	1232.6	1174.1	1119.3	1071.7	1016.8	965.6	921.7	874.2	819.3
35°	1474.1	1382.6	1309.5	1236.3	1174.1	1115.6	1060.7	1002.2	951.0	903.5	855.9
32.5°	1605.7	1492.3	1393.6	1309.5	1232.6	1163.1	1101.0	1042.4	983.9	929.1	877.8
30°	1766.7	1620.4	1492.3	1382.6	1294.8	1214.4	1141.2	1079.0	1016.8	958.3	903.5
27.5°	1993.4	1766.7	1605.7	1474.1	1357.0	1265.6	1185.1	1115.6	1049.8	983.9	925.4
25°	2293.4	1967.8	1730.1	1565.5	1433.8	1320.4	1229.0	1148.5	1079.0	1013.2	947.3
22.5°	2633.5	2212.9	1898.3	1671.6	1507.0	1375.3	1272.9	1185.1	1108.3	1038.8	969.3
20°	3185.9	2501.9	2073.9	1785.0	1587.4	1437.5	1316.8	1218.0	1133.9	1060.7	987.6
17.5°	3793.0	2885.9	2300.7	1923.9	1671.6	1492.3	1357.0	1250.9	1155.8	1082.7	1005.9
15°	4681.8	3306.6	2520.2	2048.3	1744.7	1547.2	1397.2	1280.2	1181.4	1101.0	1024.2
12.5°	5464.6	3756.5	2783.5	2205.6	1843.5	1605.7	1437.5	1305.8	1203.4	1115.6	1038.8
10°	6693.6	4356.3	3068.8	2351.9	1923.9	1653.3	1470.4	1331.4	1218.0	1130.2	1049.8
7.5°	7681.2	4835.5	3291.9	2468.9	1989.8	1693.5	1496.0	1349.7	1232.6	1137.5	1060.7
5°	8401.7	5183.0	3456.5	2553.1	2037.3	1719.1	1514.3	1360.7	1243.6	1144.9	1068.0
2.5°	8840.6	5464.6	3588.2	2618.9	2073.9	1741.1	1528.9	1371.6	1250.9	1152.2	1071.7
0°	8987.0	5464.6	3588.2	2618.9	2073.9	1741.1	1528.9	1371.6	1250.9	1152.2	1071.7

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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°	21.9	21.9	18.3	18.3	18.3	14.6	14.6	11.0	11.0	7.3	7.3
85°	47.6	43.9	40.2	36.6	32.9	29.3	29.3	25.6	21.9	18.3	14.6
82.5°	76.8	73.2	65.8	58.5	54.9	47.6	40.2	36.6	32.9	25.6	21.9
80°	106.1	98.8	91.4	84.1	76.8	65.8	58.5	51.2	40.2	32.9	29.3
77.5°	139.0	128.0	117.0	106.1	95.1	87.8	76.8	65.8	54.9	43.9	32.9
75°	171.9	157.3	146.3	131.7	120.7	106.1	91.4	80.5	69.5	54.9	40.2
72.5°	208.5	190.2	175.6	157.3	142.7	128.0	109.7	95.1	80.5	65.8	51.2
70°	248.7	226.8	204.8	186.5	168.3	146.3	128.0	109.7	91.4	76.8	58.5
67.5°	289.0	263.4	237.8	212.1	190.2	168.3	146.3	128.0	106.1	87.8	65.8
65°	329.2	299.9	274.3	245.1	215.8	190.2	168.3	142.7	120.7	95.1	76.8
62.5°	373.1	340.2	307.2	274.3	245.1	212.1	186.5	157.3	131.7	106.1	84.1
60°	420.6	384.1	343.8	307.2	274.3	237.8	204.8	175.6	146.3	117.0	91.4
57.5°	464.5	424.3	384.1	340.2	299.9	263.4	226.8	190.2	157.3	128.0	98.8
55°	508.4	464.5	420.6	373.1	329.2	289.0	248.7	208.5	171.9	139.0	106.1
52.5°	548.7	504.8	457.2	409.7	362.1	314.6	267.0	223.1	186.5	146.3	113.4
50°	588.9	541.3	490.1	442.6	387.7	336.5	289.0	241.4	197.5	157.3	120.7
47.5°	629.1	577.9	526.7	471.8	417.0	362.1	310.9	259.7	212.1	168.3	128.0
45°	662.0	610.8	556.0	501.1	446.2	387.7	329.2	274.3	223.1	179.2	135.3
42.5°	695.0	643.8	588.9	534.0	471.8	409.7	351.1	292.6	237.8	186.5	142.7
40°	727.9	673.0	618.2	559.6	497.4	435.3	369.4	307.2	248.7	197.5	150.0
37.5°	760.8	702.3	643.8	585.2	519.4	457.2	387.7	321.9	263.4	204.8	157.3
35°	793.7	731.5	669.4	607.2	541.3	475.5	406.0	336.5	274.3	215.8	164.6
32.5°	823.0	757.1	695.0	632.8	563.3	493.8	424.3	351.1	285.3	223.1	168.3
30°	848.6	782.7	716.9	651.1	585.2	512.1	438.9	365.8	296.3	230.4	175.6
27.5°	870.5	804.7	738.9	669.4	603.5	530.4	453.6	380.4	307.2	241.4	179.2
25°	892.5	826.6	757.1	687.6	618.2	545.0	468.2	391.4	314.6	248.7	186.5
22.5°	907.1	848.6	775.4	702.3	632.8	556.0	479.2	402.3	325.5	252.4	190.2
20°	925.4	863.2	793.7	716.9	647.4	570.6	490.1	413.3	332.9	259.7	193.9
17.5°	940.0	877.8	808.4	731.5	658.4	581.6	501.1	420.6	340.2	263.4	197.5
15°	954.7	888.8	819.3	742.5	665.7	592.5	508.4	428.0	343.8	270.7	201.2
12.5°	965.6	899.8	830.3	753.5	676.7	599.9	515.7	435.3	351.1	274.3	201.2
10°	972.9	907.1	841.3	760.8	684.0	607.2	523.1	438.9	354.8	274.3	204.8
7.5°	980.3	914.4	848.6	768.1	687.6	610.8	526.7	446.2	358.5	278.0	208.5
5°	987.6	918.1	852.2	771.8	691.3	618.2	534.0	449.9	362.1	281.6	208.5
2.5°	991.2	921.7	855.9	775.4	695.0	618.2	534.0	449.9	362.1	281.6	208.5
0°	991.2	921.7	855.9	775.4	695.0	618.2	534.0	449.9	362.1	281.6	208.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	0.0	0.0
85°	11.0	7.3	3.7	0.0
82.5°	14.6	11.0	3.7	0.0
80°	21.9	14.6	7.3	0.0
77.5°	25.6	18.3	7.3	0.0
75°	32.9	21.9	11.0	0.0
72.5°	36.6	25.6	11.0	0.0
70°	40.2	29.3	14.6	0.0
67.5°	47.6	29.3	14.6	0.0
65°	54.9	32.9	18.3	0.0
62.5°	58.5	36.6	18.3	0.0
60°	65.8	40.2	18.3	0.0
57.5°	73.2	43.9	21.9	0.0
55°	76.8	47.6	21.9	0.0
52.5°	84.1	51.2	25.6	0.0
50°	87.8	54.9	25.6	0.0
47.5°	91.4	58.5	25.6	0.0
45°	98.8	62.2	29.3	0.0
42.5°	102.4	65.8	29.3	0.0
40°	106.1	65.8	29.3	0.0
37.5°	113.4	69.5	32.9	0.0
35°	117.0	73.2	32.9	0.0
32.5°	120.7	76.8	32.9	0.0
30°	124.4	76.8	36.6	0.0
27.5°	128.0	80.5	36.6	0.0
25°	131.7	80.5	36.6	0.0
22.5°	135.3	84.1	36.6	0.0
20°	135.3	84.1	36.6	0.0
17.5°	139.0	87.8	36.6	0.0
15°	139.0	87.8	40.2	0.0
12.5°	142.7	87.8	40.2	0.0
10°	142.7	91.4	40.2	0.0
7.5°	146.3	91.4	40.2	0.0
5°	146.3	91.4	40.2	0.0
2.5°	146.3	91.4	40.2	0.0
0°	146.3	91.4	40.2	0.0

(END OF REPORT)