

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: P623820

Luminaire Tested: **IFLD-S-SA3E-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20627.3 lumens	Max Intensity:	11456.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	88.9 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:	8925.3 lumens	Field Lumens:	14614.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

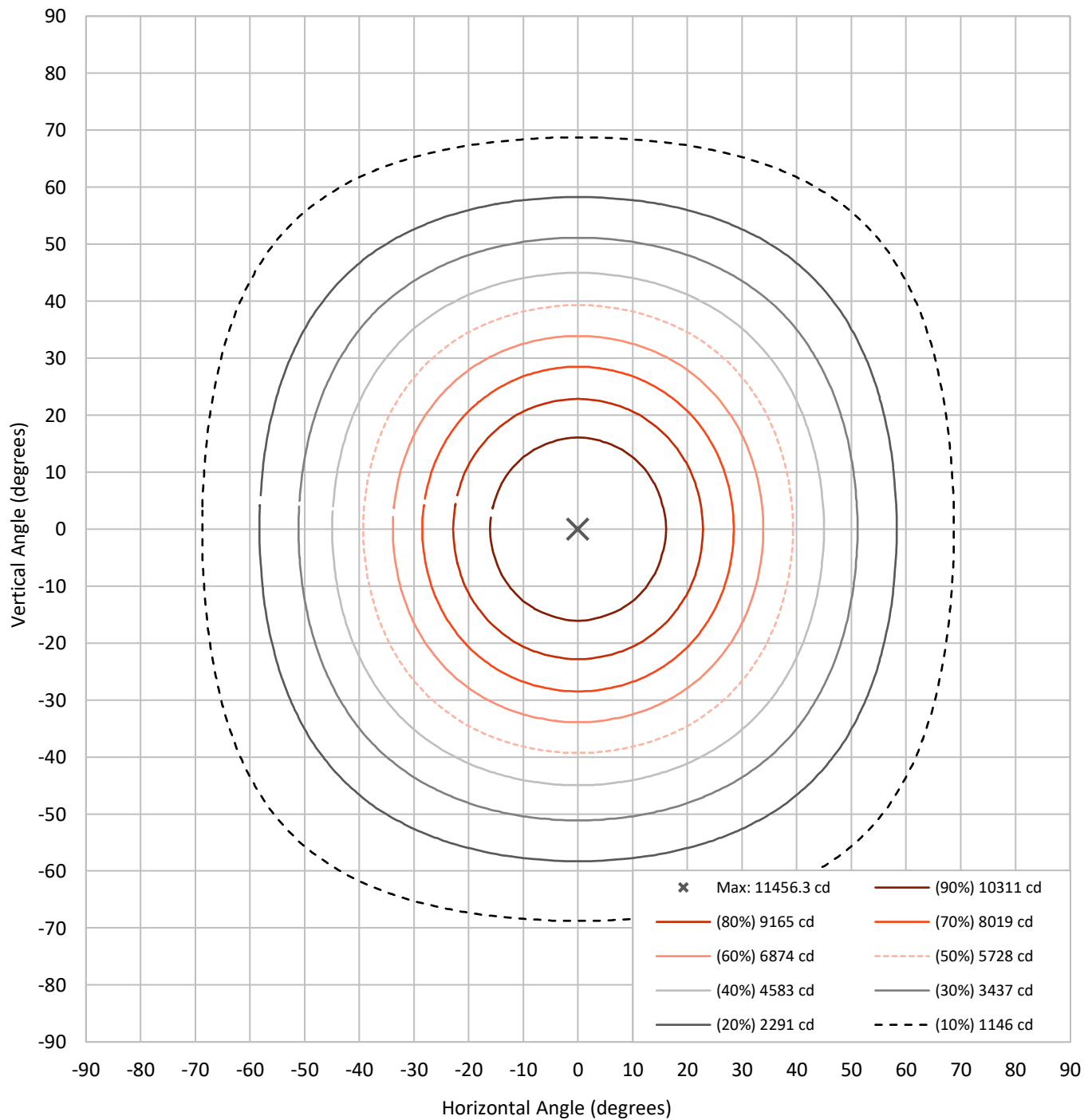
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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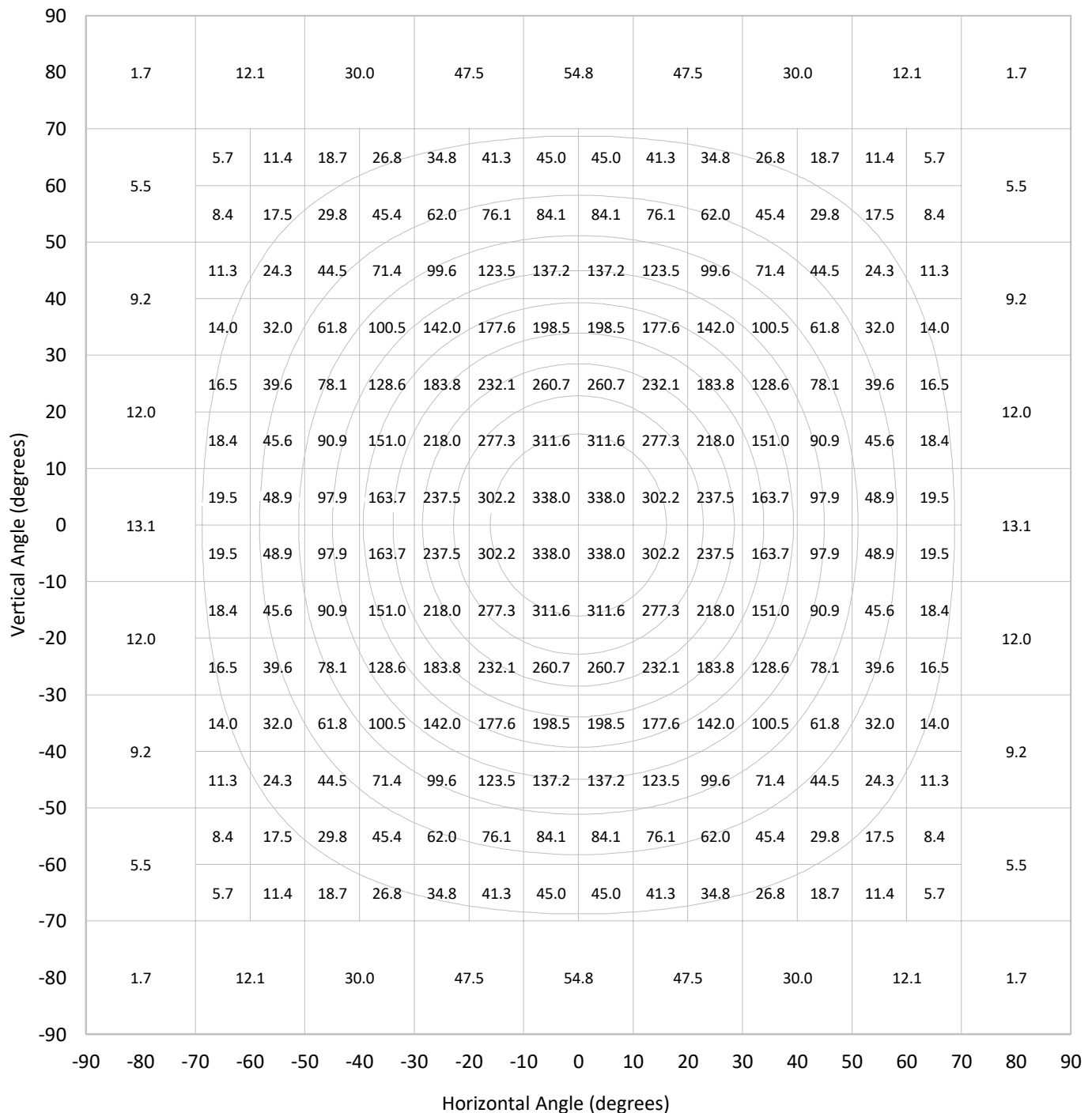
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Iso-Candela Plot



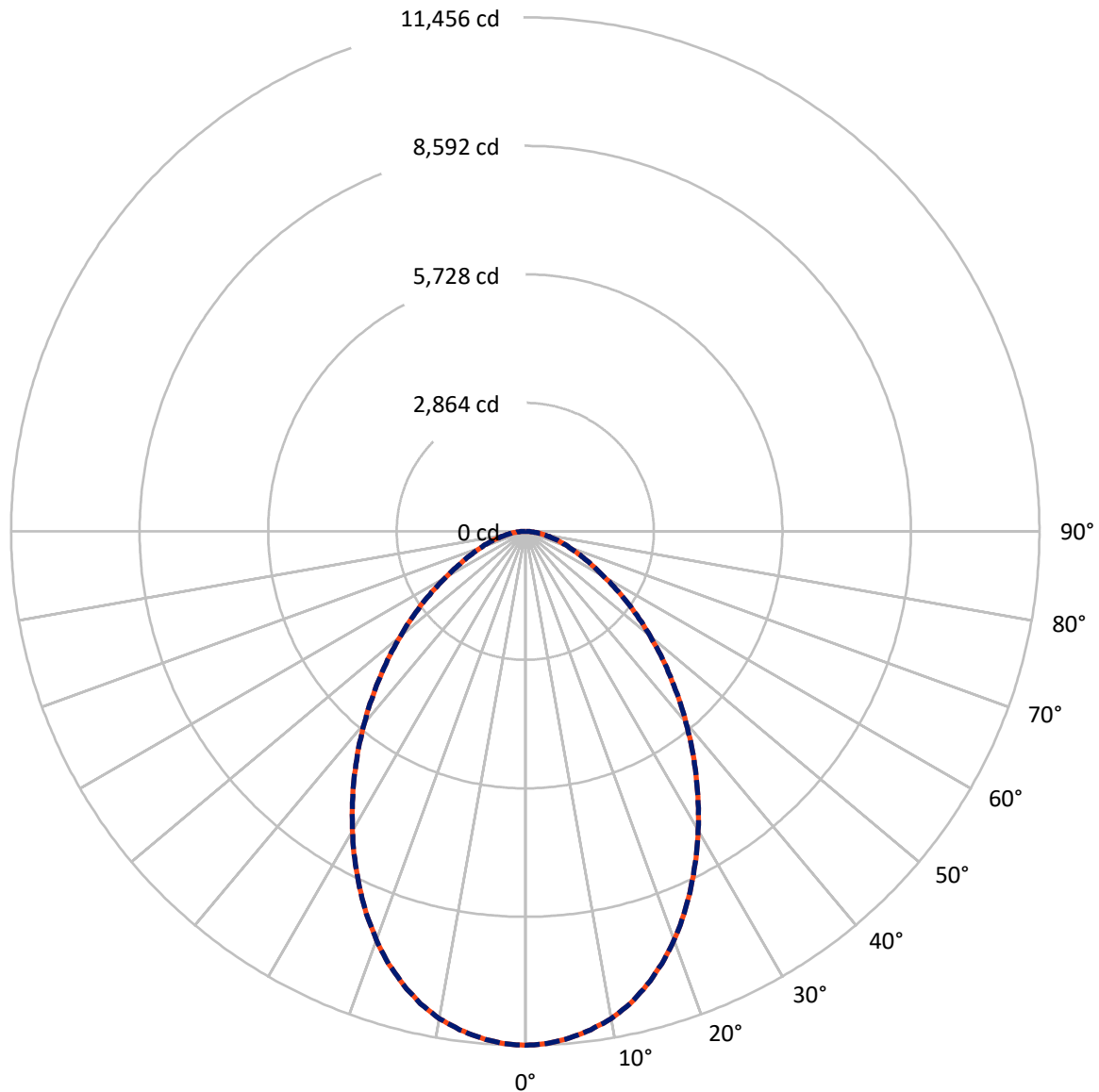
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Lumen Table



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Luminous Intensity Polar Plot

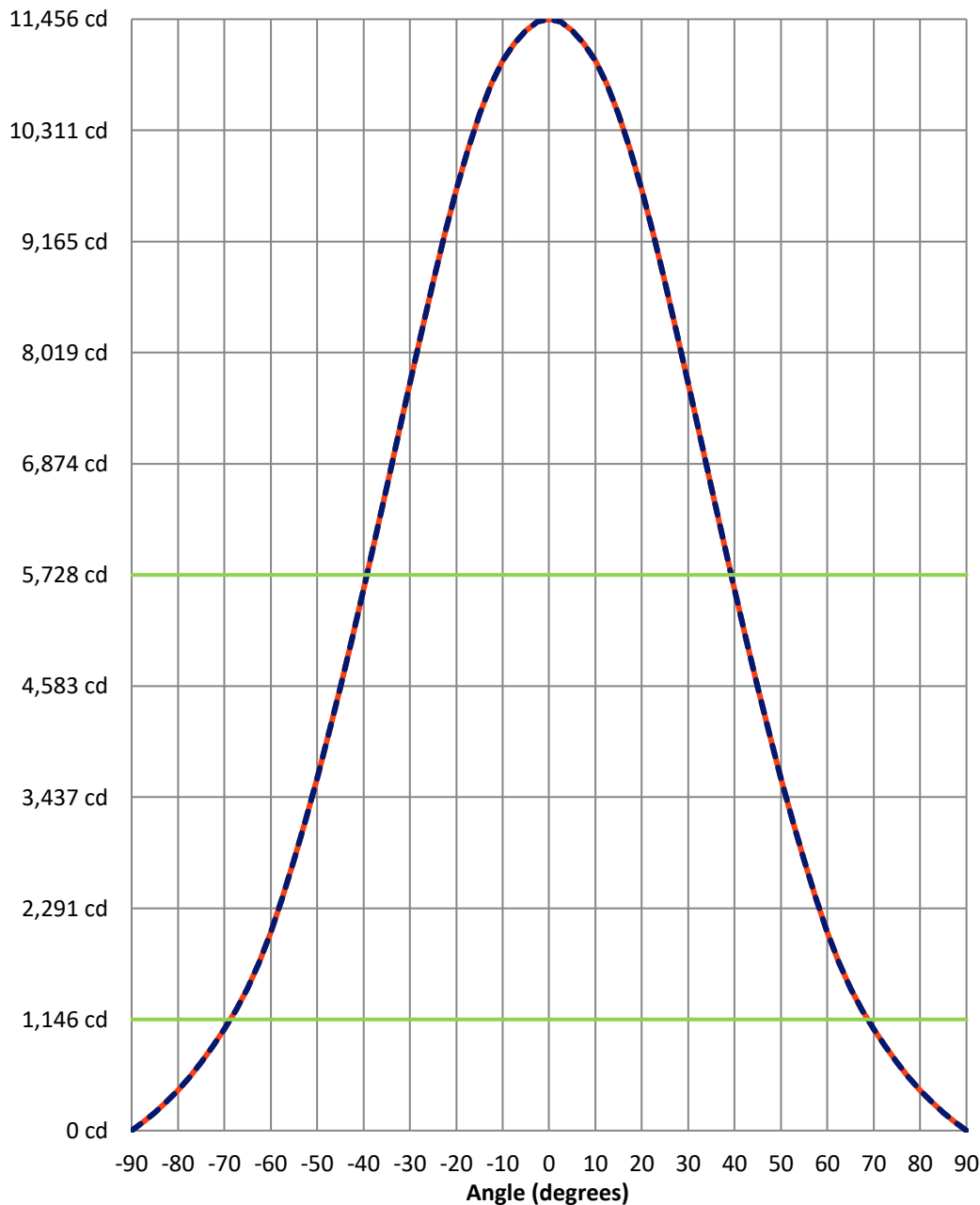


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8925.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 14614.8
Efficiency: 70.9%

Spill:

Lumens: 6012.6
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°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	83.9	83.9	81.7	79.6
85°	185.0	185.0	185.0	185.0	185.0	180.7	178.5	176.4	174.2	169.9	167.7
82.5°	296.8	296.8	296.8	296.8	292.5	288.2	286.0	281.7	277.4	271.0	264.5
80°	415.1	415.1	415.1	415.1	408.6	404.3	397.9	393.6	387.1	378.5	369.9
77.5°	550.6	550.6	550.6	544.1	539.8	533.4	526.9	518.3	509.7	498.9	486.0
75°	703.3	703.3	703.3	694.6	688.2	681.7	671.0	660.2	647.3	632.3	615.1
72.5°	868.8	868.8	868.8	858.1	851.6	840.9	828.0	812.9	797.9	778.5	757.0
70°	1047.3	1047.3	1047.3	1034.4	1023.7	1012.9	995.7	978.5	957.0	935.5	909.7
67.5°	1240.9	1240.9	1240.9	1225.8	1212.9	1197.9	1178.5	1157.0	1131.2	1101.1	1071.0
65°	1466.7	1466.7	1458.1	1445.2	1430.2	1408.7	1385.0	1354.9	1322.6	1283.9	1243.1
62.5°	1733.4	1733.4	1720.5	1705.4	1686.1	1658.1	1625.9	1587.2	1542.0	1492.5	1443.1
60°	2043.1	2043.1	2028.0	2008.7	1980.7	1946.3	1903.3	1853.8	1797.9	1735.5	1675.3
57.5°	2400.1	2400.1	2380.7	2354.9	2320.5	2277.5	2223.7	2161.4	2090.4	2013.0	1937.7
55°	2787.2	2787.2	2763.5	2733.4	2692.6	2641.0	2576.4	2503.3	2417.3	2329.1	2232.3
52.5°	3198.0	3198.0	3170.0	3135.6	3088.3	3028.1	2954.9	2868.9	2770.0	2666.8	2552.8
50°	3630.2	3630.2	3598.0	3559.3	3505.5	3434.5	3350.7	3251.7	3142.0	3021.6	2890.4
47.5°	4092.6	4092.6	4056.1	4010.9	3946.4	3864.7	3765.7	3651.7	3527.0	3391.5	3243.1
45°	4567.9	4567.9	4527.0	4475.4	4404.5	4312.0	4202.3	4092.6	3933.5	3776.5	3604.4
42.5°	5062.5	5062.5	5015.2	4957.2	4875.4	4774.4	4649.6	4507.7	4350.7	4174.3	3987.2
40°	5576.5	5576.5	5522.8	5456.1	5365.8	5249.6	5109.9	4950.7	4774.4	4578.7	4372.2
37.5°	6101.3	6101.3	6041.1	5968.0	5866.9	5737.8	5580.8	5404.5	5206.6	4989.4	4761.5
35°	6630.3	6630.3	6563.7	6484.1	6372.3	6230.3	6060.4	5864.7	5645.4	5408.8	5152.9
32.5°	7170.1	7170.1	7097.0	7006.7	6879.8	6722.8	6535.7	6322.8	6101.3	5826.0	5546.4
30°	7703.5	7703.5	7623.9	7525.0	7389.5	7217.5	7013.1	6778.7	6518.5	6236.8	5935.7
27.5°	8228.2	8206.7	8140.1	8034.7	7886.3	7703.5	7482.0	7228.2	6946.5	6636.8	6314.2
25°	8744.4	8720.7	8647.6	8531.5	8372.3	8172.3	7933.6	7662.6	7359.4	7032.5	6679.8
22.5°	9239.0	9213.2	9135.8	9011.1	8841.2	8624.0	8368.0	8077.7	7755.1	7404.6	7032.5
20°	9697.1	9669.2	9589.6	9458.4	9282.0	9051.9	8781.0	8469.1	8125.0	7755.1	7359.4
17.5°	10110.0	10082.1	9998.2	9862.7	9697.1	9441.2	9161.6	8832.6	8469.1	8077.7	7662.6
15°	10473.5	10443.4	10357.4	10221.9	10032.6	9791.7	9497.1	9161.6	8781.0	8368.0	7933.6
12.5°	10783.2	10753.1	10664.9	10529.4	10333.7	10092.8	9791.7	9441.2	9051.9	8624.0	8172.3
10°	11028.3	10998.2	10914.4	10785.3	10583.2	10333.7	10032.6	9697.1	9282.0	8841.2	8372.3
7.5°	11204.7	11176.7	11099.3	10970.3	10785.3	10529.4	10221.9	9862.7	9458.4	9011.1	8531.5
5°	11338.0	11305.8	11228.3	11099.3	10914.4	10664.9	10357.4	9998.2	9589.6	9135.8	8647.6
2.5°	11430.5	11391.8	11305.8	11176.7	10998.2	10753.1	10443.4	10082.1	9669.2	9213.2	8720.7
0°	11456.3	11430.5	11338.0	11204.7	11028.3	10783.2	10473.5	10110.0	9697.1	9239.0	8744.4

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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°	77.4	77.4	75.3	73.1	71.0	66.7	64.5	62.4	60.2	55.9	53.8
85°	163.4	159.1	154.8	150.5	144.1	139.8	133.3	129.0	122.6	116.1	109.7
82.5°	258.1	251.6	243.0	236.6	228.0	217.2	208.6	197.9	187.1	178.5	167.7
80°	361.3	350.5	339.8	329.0	316.1	303.2	290.3	277.4	262.4	247.3	232.3
77.5°	473.1	458.1	443.0	425.8	410.8	393.6	376.4	359.2	339.8	320.4	301.1
75°	597.9	578.5	557.0	535.5	516.1	492.5	468.8	445.2	419.4	395.7	369.9
72.5°	733.4	709.7	683.9	658.1	630.1	600.0	569.9	537.7	507.5	477.4	445.2
70°	879.6	851.6	819.4	787.1	752.7	716.2	679.6	640.9	602.2	563.5	524.7
67.5°	1036.6	1002.2	963.5	924.8	881.8	838.7	795.7	750.6	703.3	655.9	610.8
65°	1204.3	1161.3	1116.2	1066.7	1017.2	967.8	916.2	862.4	808.6	752.7	703.3
62.5°	1391.4	1337.7	1279.6	1219.4	1163.5	1103.3	1047.3	980.7	916.2	853.8	791.4
60°	1608.7	1537.7	1466.7	1391.4	1320.5	1243.1	1174.2	1101.1	1028.0	957.0	883.9
57.5°	1851.7	1761.4	1675.3	1585.0	1490.4	1404.4	1316.2	1228.0	1146.3	1062.4	982.8
55°	2127.0	2017.3	1909.7	1797.9	1688.2	1580.7	1468.9	1369.9	1268.9	1174.2	1081.8
52.5°	2428.0	2303.3	2170.0	2043.1	1903.3	1770.0	1645.2	1520.5	1402.2	1288.2	1182.8
50°	2750.6	2604.4	2451.7	2296.9	2137.7	1980.7	1830.2	1683.9	1546.3	1413.0	1288.2
47.5°	3086.1	2920.5	2746.3	2570.0	2400.1	2208.7	2028.0	1862.4	1696.8	1546.3	1402.2
45°	3430.2	3243.1	3051.7	2851.7	2651.7	2445.2	2245.2	2043.1	1862.4	1683.9	1520.5
42.5°	3785.1	3574.3	3361.4	3139.9	2918.4	2692.6	2466.8	2245.2	2028.0	1830.2	1645.2
40°	4150.7	3918.4	3675.4	3434.5	3198.0	2939.9	2692.6	2445.2	2208.7	1980.7	1770.0
37.5°	4516.3	4262.5	4000.1	3729.2	3458.2	3198.0	2918.4	2651.7	2400.1	2137.7	1903.3
35°	4884.0	4604.5	4320.6	4025.9	3729.2	3434.5	3139.9	2851.7	2570.0	2296.9	2043.1
32.5°	5253.9	4948.6	4634.6	4320.6	4000.1	3675.4	3361.4	3051.7	2746.3	2451.7	2170.0
30°	5617.4	5286.2	4948.6	4604.5	4262.5	3918.4	3574.3	3243.1	2920.5	2604.4	2303.3
27.5°	5972.3	5617.4	5253.9	4884.0	4516.3	4150.7	3785.1	3430.2	3086.1	2750.6	2428.0
25°	6314.2	5935.7	5546.4	5152.9	4761.5	4372.2	3987.2	3604.4	3243.1	2890.4	2552.8
22.5°	6636.8	6236.8	5826.0	5408.8	4989.4	4578.7	4174.3	3776.5	3391.5	3021.6	2666.8
20°	6946.5	6518.5	6101.3	5645.4	5206.6	4774.4	4350.7	3933.5	3527.0	3142.0	2770.0
17.5°	7228.2	6778.7	6322.8	5864.7	5404.5	4950.7	4507.7	4092.6	3651.7	3251.7	2868.9
15°	7482.0	7013.1	6535.7	6060.4	5580.8	5109.9	4649.6	4202.3	3765.7	3350.7	2954.9
12.5°	7703.5	7217.5	6722.8	6230.3	5737.8	5249.6	4774.4	4312.0	3864.7	3434.5	3028.1
10°	7886.3	7389.5	6879.8	6372.3	5866.9	5365.8	4875.4	4404.5	3946.4	3505.5	3088.3
7.5°	8034.7	7525.0	7006.7	6484.1	5968.0	5456.1	4957.2	4475.4	4010.9	3559.3	3135.6
5°	8140.1	7623.9	7097.0	6563.7	6041.1	5522.8	5015.2	4527.0	4056.1	3598.0	3170.0
2.5°	8206.7	7703.5	7170.1	6630.3	6101.3	5576.5	5062.5	4567.9	4092.6	3630.2	3198.0
0°	8228.2	7703.5	7170.1	6630.3	6101.3	5576.5	5062.5	4567.9	4092.6	3630.2	3198.0

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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°	51.6	47.3	43.0	40.9	36.6	34.4	30.1	25.8	23.7	19.4	15.1
85°	103.2	94.6	88.2	81.7	75.3	66.7	60.2	53.8	45.2	38.7	30.1
82.5°	157.0	146.2	135.5	124.7	114.0	103.2	90.3	79.6	68.8	58.1	45.2
80°	217.2	200.0	185.0	169.9	154.8	139.8	122.6	107.5	90.3	75.3	60.2
77.5°	279.6	260.2	238.7	217.2	195.7	176.4	154.8	135.5	116.1	94.6	75.3
75°	346.2	320.4	296.8	268.8	243.0	215.1	189.3	163.4	139.8	116.1	90.3
72.5°	415.1	382.8	350.5	320.4	288.2	255.9	225.8	193.6	163.4	135.5	107.5
70°	486.0	447.3	408.6	372.1	335.5	296.8	262.4	225.8	189.3	154.8	122.6
67.5°	561.3	516.1	471.0	423.7	382.8	339.8	296.8	255.9	215.1	176.4	139.8
65°	643.0	589.3	533.4	483.9	430.1	382.8	335.5	288.2	243.0	195.7	154.8
62.5°	726.9	664.5	602.2	539.8	483.9	423.7	372.1	320.4	268.8	217.2	169.9
60°	812.9	742.0	671.0	602.2	533.4	471.0	408.6	350.5	296.8	238.7	185.0
57.5°	901.1	821.5	742.0	664.5	589.3	516.1	447.3	382.8	320.4	260.2	200.0
55°	991.4	901.1	812.9	726.9	643.0	561.3	486.0	415.1	346.2	279.6	217.2
52.5°	1081.8	982.8	883.9	791.4	703.3	610.8	524.7	445.2	369.9	301.1	232.3
50°	1174.2	1062.4	957.0	853.8	752.7	655.9	563.5	477.4	395.7	320.4	247.3
47.5°	1268.9	1146.3	1028.0	916.2	808.6	703.3	602.2	507.5	419.4	339.8	262.4
45°	1369.9	1228.0	1101.1	980.7	862.4	750.6	640.9	537.7	445.2	359.2	277.4
42.5°	1468.9	1316.2	1174.2	1047.3	916.2	795.7	679.6	569.9	468.8	376.4	290.3
40°	1580.7	1404.4	1243.1	1103.3	967.8	838.7	716.2	600.0	492.5	393.6	303.2
37.5°	1688.2	1490.4	1320.5	1163.5	1017.2	881.8	752.7	630.1	516.1	410.8	316.1
35°	1797.9	1585.0	1391.4	1219.4	1066.7	924.8	787.1	658.1	535.5	425.8	329.0
32.5°	1909.7	1675.3	1466.7	1279.6	1116.2	963.5	819.4	683.9	557.0	443.0	339.8
30°	2017.3	1761.4	1537.7	1337.7	1161.3	1002.2	851.6	709.7	578.5	458.1	350.5
27.5°	2127.0	1851.7	1608.7	1391.4	1204.3	1036.6	879.6	733.4	597.9	473.1	361.3
25°	2232.3	1937.7	1675.3	1443.1	1243.1	1071.0	909.7	757.0	615.1	486.0	369.9
22.5°	2329.1	2013.0	1735.5	1492.5	1283.9	1101.1	935.5	778.5	632.3	498.9	378.5
20°	2417.3	2090.4	1797.9	1542.0	1322.6	1131.2	957.0	797.9	647.3	509.7	387.1
17.5°	2503.3	2161.4	1853.8	1587.2	1354.9	1157.0	978.5	812.9	660.2	518.3	393.6
15°	2576.4	2223.7	1903.3	1625.9	1385.0	1178.5	995.7	828.0	671.0	526.9	397.9
12.5°	2641.0	2277.5	1946.3	1658.1	1408.7	1197.9	1012.9	840.9	681.7	533.4	404.3
10°	2692.6	2320.5	1980.7	1686.1	1430.2	1212.9	1023.7	851.6	688.2	539.8	408.6
7.5°	2733.4	2354.9	2008.7	1705.4	1445.2	1225.8	1034.4	858.1	694.6	544.1	415.1
5°	2763.5	2380.7	2028.0	1720.5	1458.1	1240.9	1047.3	868.8	703.3	550.6	415.1
2.5°	2787.2	2400.1	2043.1	1733.4	1466.7	1240.9	1047.3	868.8	703.3	550.6	415.1
0°	2787.2	2400.1	2043.1	1733.4	1466.7	1240.9	1047.3	868.8	703.3	550.6	415.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.8	8.6	4.3	0.0
85°	23.7	15.1	8.6	0.0
82.5°	34.4	23.7	10.8	0.0
80°	45.2	30.1	15.1	0.0
77.5°	58.1	38.7	19.4	0.0
75°	68.8	45.2	23.7	0.0
72.5°	79.6	53.8	25.8	0.0
70°	90.3	60.2	30.1	0.0
67.5°	103.2	66.7	34.4	0.0
65°	114.0	75.3	36.6	0.0
62.5°	124.7	81.7	40.9	0.0
60°	135.5	88.2	43.0	0.0
57.5°	146.2	94.6	47.3	0.0
55°	157.0	103.2	51.6	0.0
52.5°	167.7	109.7	53.8	0.0
50°	178.5	116.1	55.9	0.0
47.5°	187.1	122.6	60.2	0.0
45°	197.9	129.0	62.4	0.0
42.5°	208.6	133.3	64.5	0.0
40°	217.2	139.8	66.7	0.0
37.5°	228.0	144.1	71.0	0.0
35°	236.6	150.5	73.1	0.0
32.5°	243.0	154.8	75.3	0.0
30°	251.6	159.1	77.4	0.0
27.5°	258.1	163.4	77.4	0.0
25°	264.5	167.7	79.6	0.0
22.5°	271.0	169.9	81.7	0.0
20°	277.4	174.2	83.9	0.0
17.5°	281.7	176.4	83.9	0.0
15°	286.0	178.5	88.2	0.0
12.5°	288.2	180.7	88.2	0.0
10°	292.5	185.0	88.2	0.0
7.5°	296.8	185.0	88.2	0.0
5°	296.8	185.0	88.2	0.0
2.5°	296.8	185.0	88.2	0.0
0°	296.8	185.0	88.2	0.0

(END OF REPORT)