

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: P623586

Luminaire Tested: **IFLD-S-SA3C-727-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623586
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	18470.5 lumens	Max Intensity:	22571.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	114.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

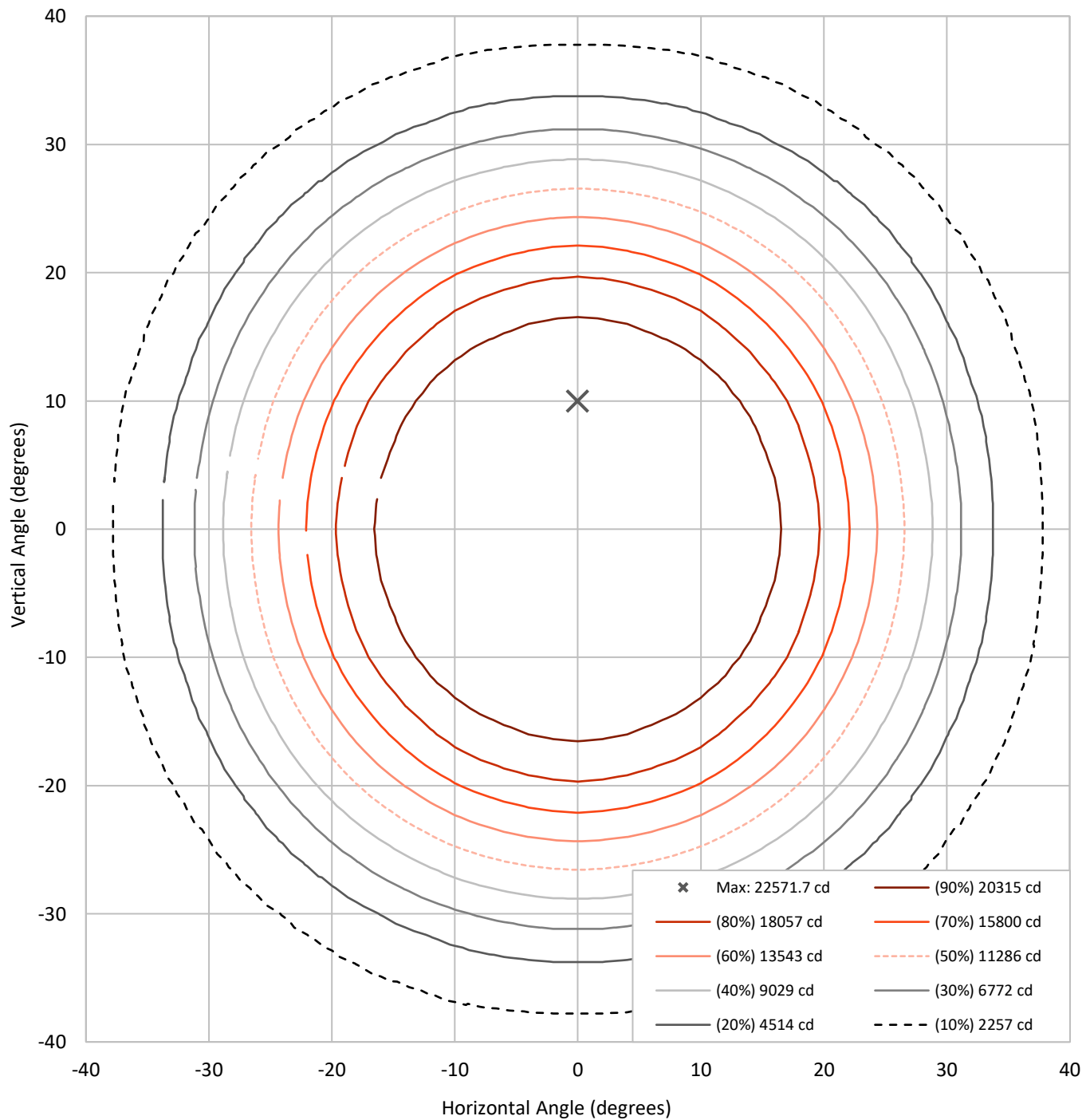
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	9180.3 lumens	Field Lumens:	11939.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 160.8
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



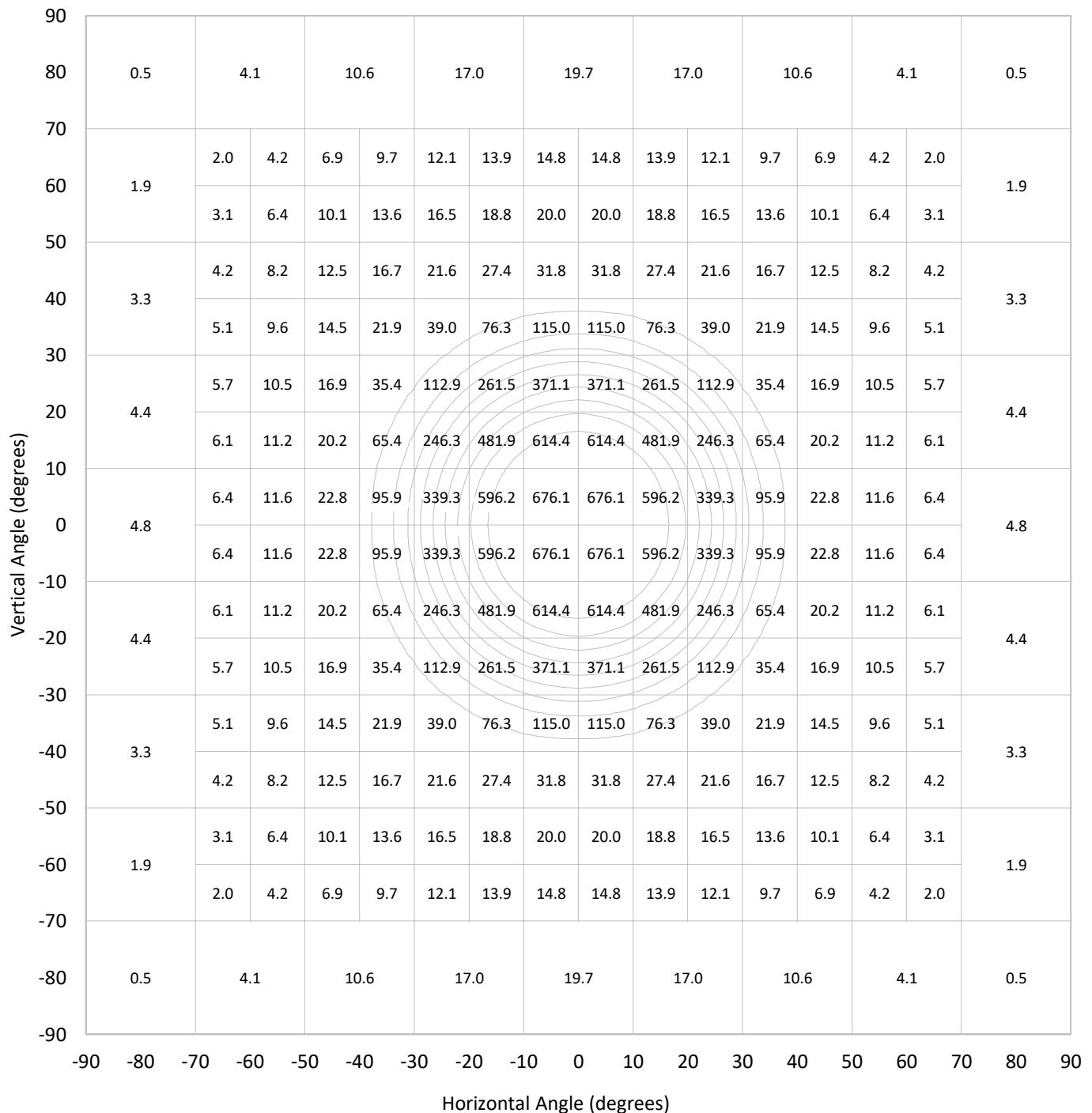
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Iso-Candela Plot



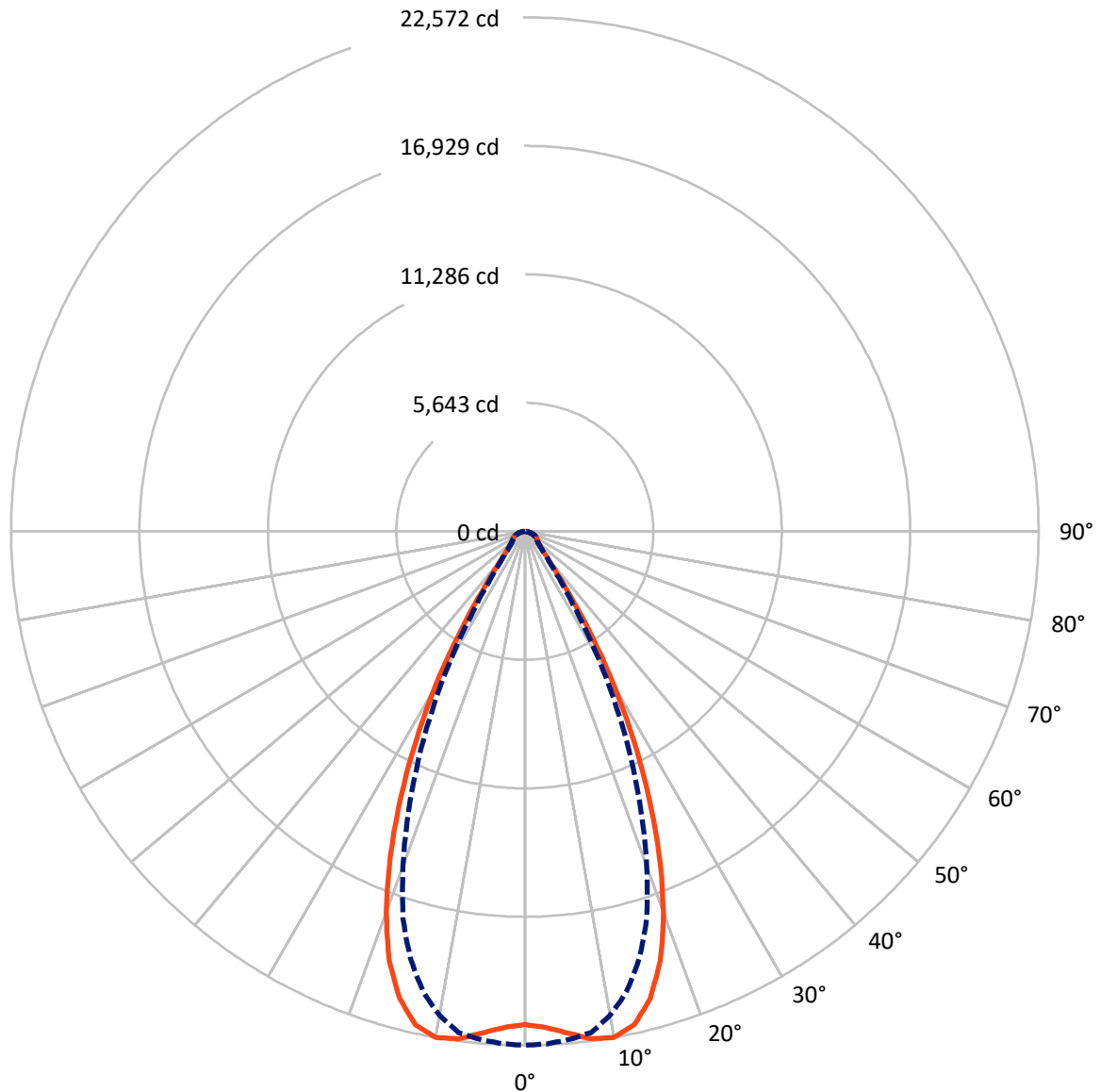
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Lumen Table



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Luminous Intensity Polar Plot

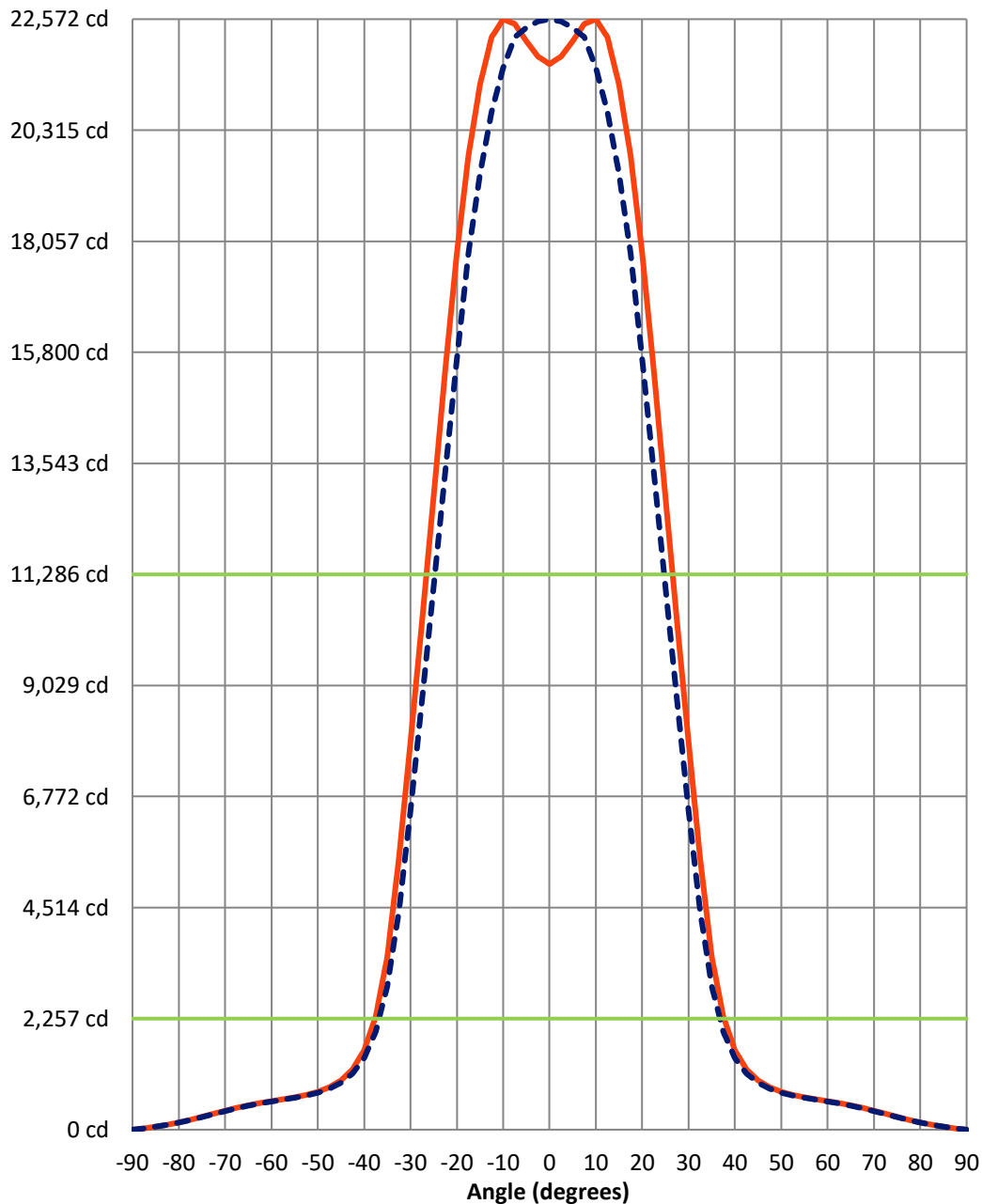


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9180.3
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 11939.2
Efficiency: 64.6%

Spill:

Lumens: 6531.2
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°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	23.0	23.0	23.0	23.0
85°	61.4	61.4	61.4	61.4	61.4	59.5	59.5	57.6	57.6	55.6	53.7
82.5°	99.8	99.8	99.8	99.8	97.9	97.9	95.9	94.0	92.1	90.2	88.3
80°	145.8	145.8	145.8	145.8	143.9	142.0	140.1	138.1	134.3	132.4	128.6
77.5°	199.5	199.5	199.5	197.6	195.7	193.8	190.0	186.1	182.3	178.4	174.6
75°	260.9	260.9	260.9	257.1	255.2	251.4	247.5	243.7	237.9	232.2	226.4
72.5°	324.3	324.3	324.3	320.4	316.6	312.7	308.9	303.2	297.4	289.7	282.1
70°	383.7	383.7	383.7	379.9	376.1	372.2	366.5	360.7	353.0	345.4	337.7
67.5°	445.1	445.1	445.1	439.4	435.5	431.7	426.0	418.3	410.6	401.0	391.4
65°	495.0	495.0	493.1	491.2	487.4	481.6	477.8	470.1	462.4	454.7	445.1
62.5°	541.1	541.1	539.2	537.2	533.4	527.6	521.9	516.1	508.5	498.9	489.3
60°	579.5	579.5	577.5	575.6	571.8	567.9	562.2	556.4	548.8	541.1	531.5
57.5°	617.8	617.8	615.9	614.0	610.1	604.4	598.6	592.9	585.2	575.6	566.0
55°	658.1	658.1	656.2	652.4	648.5	642.8	637.0	629.3	619.7	610.1	600.6
52.5°	706.1	706.1	702.2	698.4	692.7	686.9	677.3	667.7	656.2	644.7	633.2
50°	769.4	769.4	765.6	759.8	750.2	740.6	729.1	713.8	700.3	685.0	669.6
47.5°	863.4	863.4	855.7	846.2	832.7	817.4	796.3	773.2	754.1	734.9	711.8
45°	1001.6	1001.6	990.1	974.7	953.6	926.7	896.0	863.4	830.8	798.2	765.6
42.5°	1226.1	1226.1	1204.9	1178.1	1141.6	1095.6	1038.0	984.3	938.2	886.4	842.3
40°	1613.6	1613.6	1573.3	1523.5	1454.4	1366.1	1260.6	1176.2	1095.6	1005.4	944.0
37.5°	2302.5	2302.5	2223.8	2127.8	1993.5	1824.7	1621.3	1485.1	1335.4	1193.4	1089.8
35°	3518.9	3518.9	3367.3	3181.2	2922.2	2596.0	2248.7	1991.6	1705.7	1487.0	1293.2
32.5°	5514.4	5514.4	5241.9	4906.1	4443.7	3858.5	3302.1	2812.8	2302.5	1939.8	1590.6
30°	7885.9	7885.9	7529.0	7089.6	6487.2	5727.3	4934.9	4065.7	3259.9	2613.3	2085.6
27.5°	10338.0	10236.3	9929.3	9428.5	8741.6	7885.9	6897.8	5775.3	4685.5	3545.8	2791.7
25°	12874.5	12755.6	12404.5	11828.8	11042.2	10073.2	8960.4	7705.5	6360.5	5002.1	3697.4
22.5°	15437.9	15303.6	14904.5	14254.1	13371.5	12285.5	11024.9	9630.0	8127.7	6558.1	5002.1
20°	17807.5	17665.6	17247.3	16570.0	15656.7	14465.1	13064.5	11518.0	9856.4	8127.7	6360.5
17.5°	19791.5	19655.3	19252.3	18605.7	17807.5	16489.4	15033.1	13333.1	11518.0	9630.0	7705.5
15°	21240.1	21123.1	20779.6	20236.6	19423.1	18256.5	16773.4	15033.1	13064.5	11024.9	8960.4
12.5°	22201.4	22107.4	21836.8	21414.7	20685.6	19707.1	18256.5	16489.4	14465.1	12285.5	10073.2
10°	22571.7	22525.6	22399.0	22205.2	21583.6	20685.6	19423.1	17807.5	15656.7	13371.5	11042.2
7.5°	22473.8	22489.2	22533.3	22483.4	22205.2	21414.7	20236.6	18605.7	16570.0	14254.1	11828.8
5°	22124.6	22207.1	22412.4	22533.3	22399.0	21836.8	20779.6	19252.3	17247.3	14904.5	12404.5
2.5°	21813.8	21942.4	22207.1	22489.2	22525.6	22107.4	21123.1	19655.3	17665.6	15303.6	12755.6
0°	21660.3	21813.8	22124.6	22473.8	22571.7	22201.4	21240.1	19791.5	17807.5	15437.9	12874.5

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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°	23.0	21.1	21.1	21.1	19.2	19.2	19.2	17.3	17.3	15.3	15.3
85°	53.7	51.8	49.9	48.0	46.0	44.1	42.2	40.3	38.4	34.5	32.6
82.5°	86.3	84.4	82.5	78.7	76.7	72.9	69.1	65.2	61.4	59.5	55.6
80°	124.7	120.9	117.0	113.2	107.4	101.7	97.9	92.1	88.3	82.5	78.7
77.5°	168.8	163.1	157.3	149.7	143.9	138.1	130.5	124.7	117.0	109.4	101.7
75°	218.7	211.1	201.5	193.8	186.1	176.5	166.9	157.3	147.7	138.1	128.6
72.5°	272.5	262.9	253.3	243.7	232.2	218.7	207.2	193.8	182.3	170.8	157.3
70°	328.1	316.6	305.1	293.6	280.1	264.8	251.4	236.0	220.7	205.3	190.0
67.5°	379.9	368.4	355.0	343.4	328.1	312.7	295.5	278.2	260.9	241.8	222.6
65°	433.6	420.2	404.8	389.5	374.1	356.9	339.6	322.3	301.2	280.1	260.9
62.5°	477.8	466.2	452.8	437.5	420.2	401.0	383.7	360.7	339.6	318.5	293.6
60°	520.0	506.5	495.0	477.8	462.4	445.1	424.0	401.0	378.0	353.0	330.0
57.5°	556.4	544.9	531.5	516.1	498.9	481.6	462.4	441.3	414.4	389.5	362.6
55°	589.0	575.6	562.2	548.8	533.4	514.2	495.0	473.9	450.9	424.0	395.3
52.5°	621.7	608.2	592.9	579.5	562.2	544.9	525.7	504.6	481.6	456.7	426.0
50°	654.3	638.9	623.6	606.3	589.0	571.8	552.6	533.4	508.5	483.5	456.7
47.5°	692.7	673.5	654.3	635.1	617.8	596.7	577.5	556.4	535.3	508.5	481.6
45°	740.6	711.8	688.8	665.8	644.7	623.6	600.6	579.5	556.4	533.4	504.6
42.5°	800.1	761.7	731.0	700.3	673.5	648.5	625.5	600.6	577.5	552.6	525.7
40°	880.7	828.9	779.0	740.6	706.1	675.4	648.5	623.6	596.7	571.8	544.9
37.5°	986.2	913.3	844.2	788.6	744.5	706.1	673.5	644.7	617.8	589.0	562.2
35°	1145.5	1018.8	930.6	850.0	788.6	740.6	700.3	665.8	635.1	606.3	579.5
32.5°	1370.0	1174.2	1032.3	930.6	844.2	779.0	731.0	688.8	654.3	623.6	592.9
30°	1665.4	1394.9	1174.2	1018.8	913.3	828.9	761.7	711.8	673.5	638.9	608.2
27.5°	2133.6	1665.4	1370.0	1145.5	986.2	880.7	800.1	740.6	692.7	654.3	621.7
25°	2791.7	2085.6	1590.6	1293.2	1089.8	944.0	842.3	765.6	711.8	669.6	633.2
22.5°	3545.8	2613.3	1939.8	1487.0	1193.4	1005.4	886.4	798.2	734.9	685.0	644.7
20°	4685.5	3259.9	2302.5	1705.7	1335.4	1095.6	938.2	830.8	754.1	700.3	656.2
17.5°	5775.3	4065.7	2812.8	1991.6	1485.1	1176.2	984.3	863.4	773.2	713.8	667.7
15°	6897.8	4934.9	3302.1	2248.7	1621.3	1260.6	1038.0	896.0	796.3	729.1	677.3
12.5°	7885.9	5727.3	3858.5	2596.0	1824.7	1366.1	1095.6	926.7	817.4	740.6	686.9
10°	8741.6	6487.2	4443.7	2922.2	1993.5	1454.4	1141.6	953.6	832.7	750.2	692.7
7.5°	9428.5	7089.6	4906.1	3181.2	2127.8	1523.5	1178.1	974.7	846.2	759.8	698.4
5°	9929.3	7529.0	5241.9	3367.3	2223.8	1573.3	1204.9	990.1	855.7	765.6	702.2
2.5°	10236.3	7885.9	5514.4	3518.9	2302.5	1613.6	1226.1	1001.6	863.4	769.4	706.1
0°	10338.0	7885.9	5514.4	3518.9	2302.5	1613.6	1226.1	1001.6	863.4	769.4	706.1

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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°	13.4	13.4	11.5	11.5	9.6	9.6	7.7	7.7	5.8	5.8	3.8
85°	30.7	26.9	24.9	23.0	21.1	19.2	17.3	15.3	13.4	11.5	9.6
82.5°	51.8	48.0	42.2	38.4	34.5	30.7	24.9	23.0	19.2	15.3	13.4
80°	72.9	67.2	61.4	55.6	49.9	44.1	38.4	32.6	26.9	21.1	17.3
77.5°	94.0	86.3	80.6	72.9	65.2	57.6	49.9	42.2	34.5	26.9	21.1
75°	119.0	109.4	99.8	90.2	80.6	71.0	63.3	53.7	44.1	34.5	26.9
72.5°	145.8	132.4	120.9	109.4	95.9	86.3	74.8	65.2	53.7	42.2	32.6
70°	174.6	159.3	143.9	128.6	115.1	99.8	88.3	74.8	63.3	49.9	38.4
67.5°	203.4	186.1	168.8	149.7	132.4	117.0	99.8	86.3	71.0	57.6	44.1
65°	237.9	214.9	193.8	172.7	151.6	132.4	115.1	95.9	80.6	65.2	49.9
62.5°	270.5	245.6	220.7	195.7	172.7	149.7	128.6	109.4	90.2	72.9	55.6
60°	303.2	276.3	247.5	220.7	193.8	168.8	143.9	120.9	99.8	80.6	61.4
57.5°	335.8	305.1	276.3	245.6	214.9	186.1	159.3	132.4	109.4	86.3	67.2
55°	364.6	335.8	303.2	270.5	237.9	203.4	174.6	145.8	119.0	94.0	72.9
52.5°	395.3	362.6	330.0	293.6	260.9	222.6	190.0	157.3	128.6	101.7	78.7
50°	424.0	389.5	353.0	318.5	280.1	241.8	205.3	170.8	138.1	109.4	82.5
47.5°	450.9	414.4	378.0	339.6	301.2	260.9	220.7	182.3	147.7	117.0	88.3
45°	473.9	441.3	401.0	360.7	322.3	278.2	236.0	193.8	157.3	124.7	92.1
42.5°	495.0	462.4	424.0	383.7	339.6	295.5	251.4	207.2	166.9	130.5	97.9
40°	514.2	481.6	445.1	401.0	356.9	312.7	264.8	218.7	176.5	138.1	101.7
37.5°	533.4	498.9	462.4	420.2	374.1	328.1	280.1	232.2	186.1	143.9	107.4
35°	548.8	516.1	477.8	437.5	389.5	343.4	293.6	243.7	193.8	149.7	113.2
32.5°	562.2	531.5	495.0	452.8	404.8	355.0	305.1	253.3	201.5	157.3	117.0
30°	575.6	544.9	506.5	466.2	420.2	368.4	316.6	262.9	211.1	163.1	120.9
27.5°	589.0	556.4	520.0	477.8	433.6	379.9	328.1	272.5	218.7	168.8	124.7
25°	600.6	566.0	531.5	489.3	445.1	391.4	337.7	282.1	226.4	174.6	128.6
22.5°	610.1	575.6	541.1	498.9	454.7	401.0	345.4	289.7	232.2	178.4	132.4
20°	619.7	585.2	548.8	508.5	462.4	410.6	353.0	297.4	237.9	182.3	134.3
17.5°	629.3	592.9	556.4	516.1	470.1	418.3	360.7	303.2	243.7	186.1	138.1
15°	637.0	598.6	562.2	521.9	477.8	426.0	366.5	308.9	247.5	190.0	140.1
12.5°	642.8	604.4	567.9	527.6	481.6	431.7	372.2	312.7	251.4	193.8	142.0
10°	648.5	610.1	571.8	533.4	487.4	435.5	376.1	316.6	255.2	195.7	143.9
7.5°	652.4	614.0	575.6	537.2	491.2	439.4	379.9	320.4	257.1	197.6	145.8
5°	656.2	615.9	577.5	539.2	493.1	445.1	383.7	324.3	260.9	199.5	145.8
2.5°	658.1	617.8	579.5	541.1	495.0	445.1	383.7	324.3	260.9	199.5	145.8
0°	658.1	617.8	579.5	541.1	495.0	445.1	383.7	324.3	260.9	199.5	145.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	1.9	0.0
85°	5.8	3.8	1.9	0.0
82.5°	9.6	5.8	3.8	0.0
80°	13.4	9.6	3.8	0.0
77.5°	15.3	11.5	5.8	0.0
75°	19.2	13.4	5.8	0.0
72.5°	23.0	15.3	7.7	0.0
70°	24.9	17.3	7.7	0.0
67.5°	30.7	19.2	9.6	0.0
65°	34.5	21.1	9.6	0.0
62.5°	38.4	23.0	11.5	0.0
60°	42.2	24.9	11.5	0.0
57.5°	48.0	26.9	13.4	0.0
55°	51.8	30.7	13.4	0.0
52.5°	55.6	32.6	15.3	0.0
50°	59.5	34.5	15.3	0.0
47.5°	61.4	38.4	17.3	0.0
45°	65.2	40.3	17.3	0.0
42.5°	69.1	42.2	19.2	0.0
40°	72.9	44.1	19.2	0.0
37.5°	76.7	46.0	19.2	0.0
35°	78.7	48.0	21.1	0.0
32.5°	82.5	49.9	21.1	0.0
30°	84.4	51.8	21.1	0.0
27.5°	86.3	53.7	23.0	0.0
25°	88.3	53.7	23.0	0.0
22.5°	90.2	55.6	23.0	0.0
20°	92.1	57.6	23.0	0.0
17.5°	94.0	57.6	23.0	0.0
15°	95.9	59.5	24.9	0.0
12.5°	97.9	59.5	24.9	0.0
10°	97.9	61.4	24.9	0.0
7.5°	99.8	61.4	24.9	0.0
5°	99.8	61.4	24.9	0.0
2.5°	99.8	61.4	24.9	0.0
0°	99.8	61.4	24.9	0.0

(END OF REPORT)