

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: P623697

Luminaire Tested: **IFLD-S-SA2C-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623697
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	15159.4 lumens	Max Intensity:	18525.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	140.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

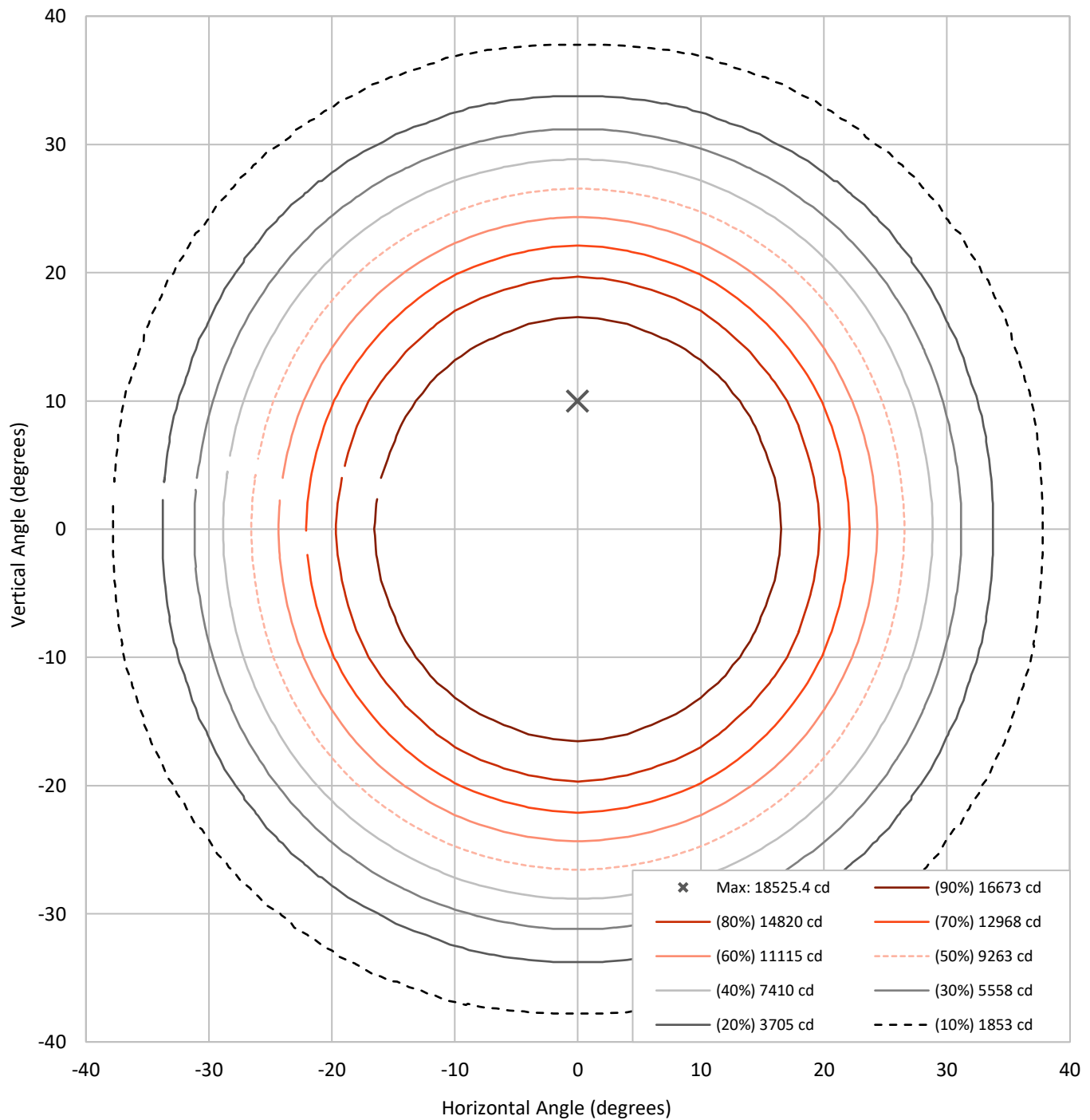
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	7534.6 lumens	Field Lumens:	9798.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 108.2
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



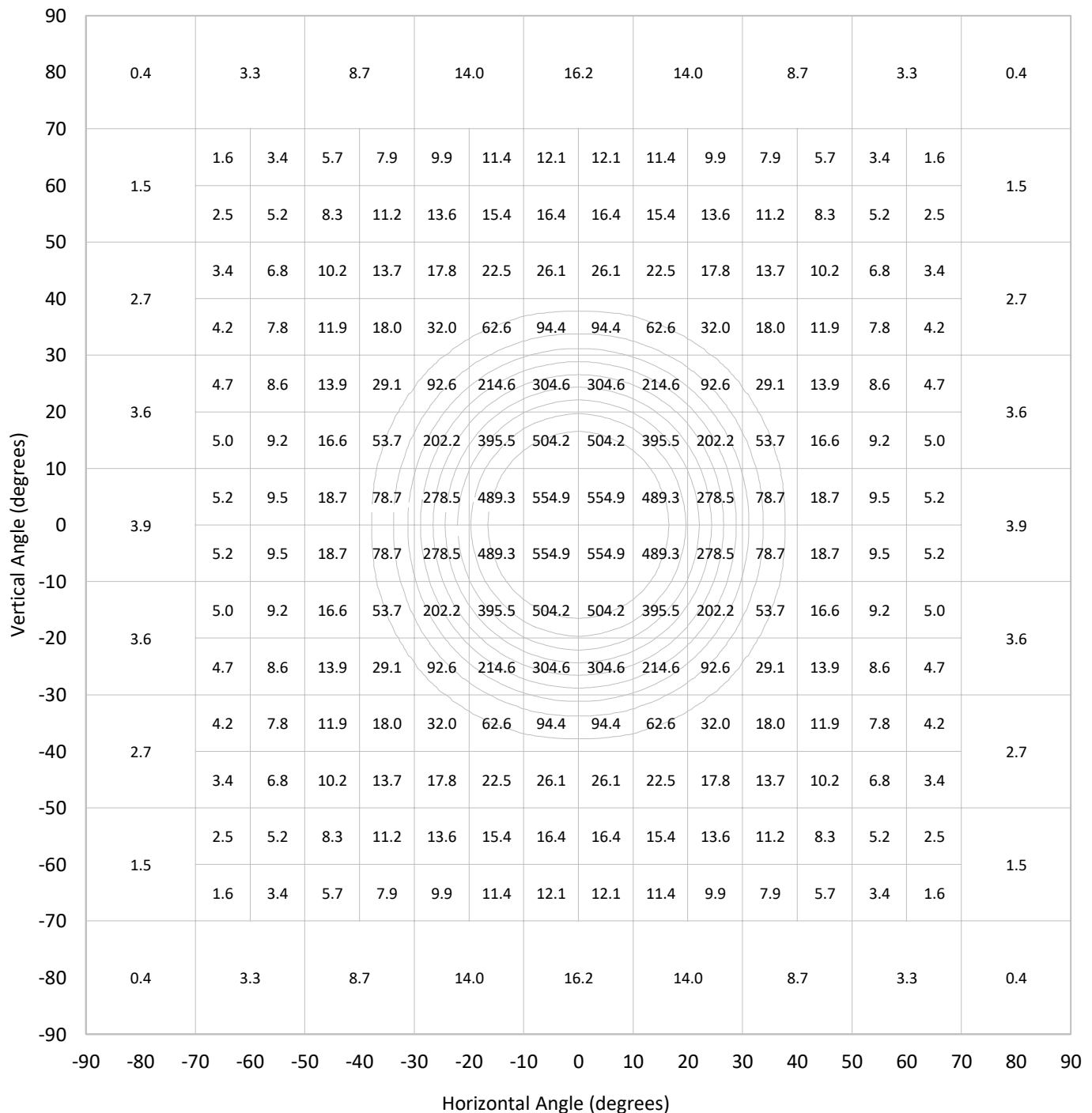
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Iso-Candela Plot



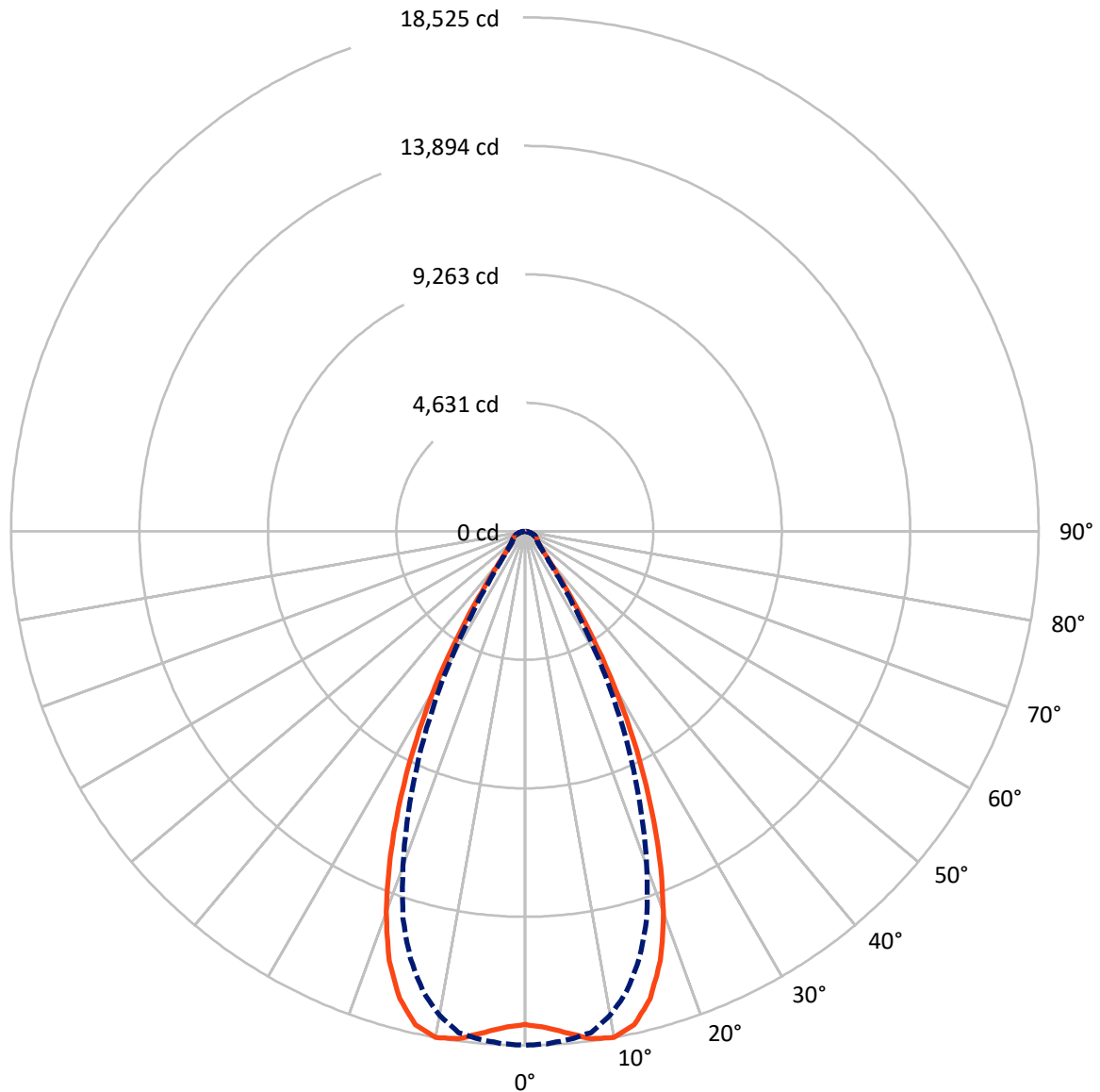
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Lumen Table



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Luminous Intensity Polar Plot

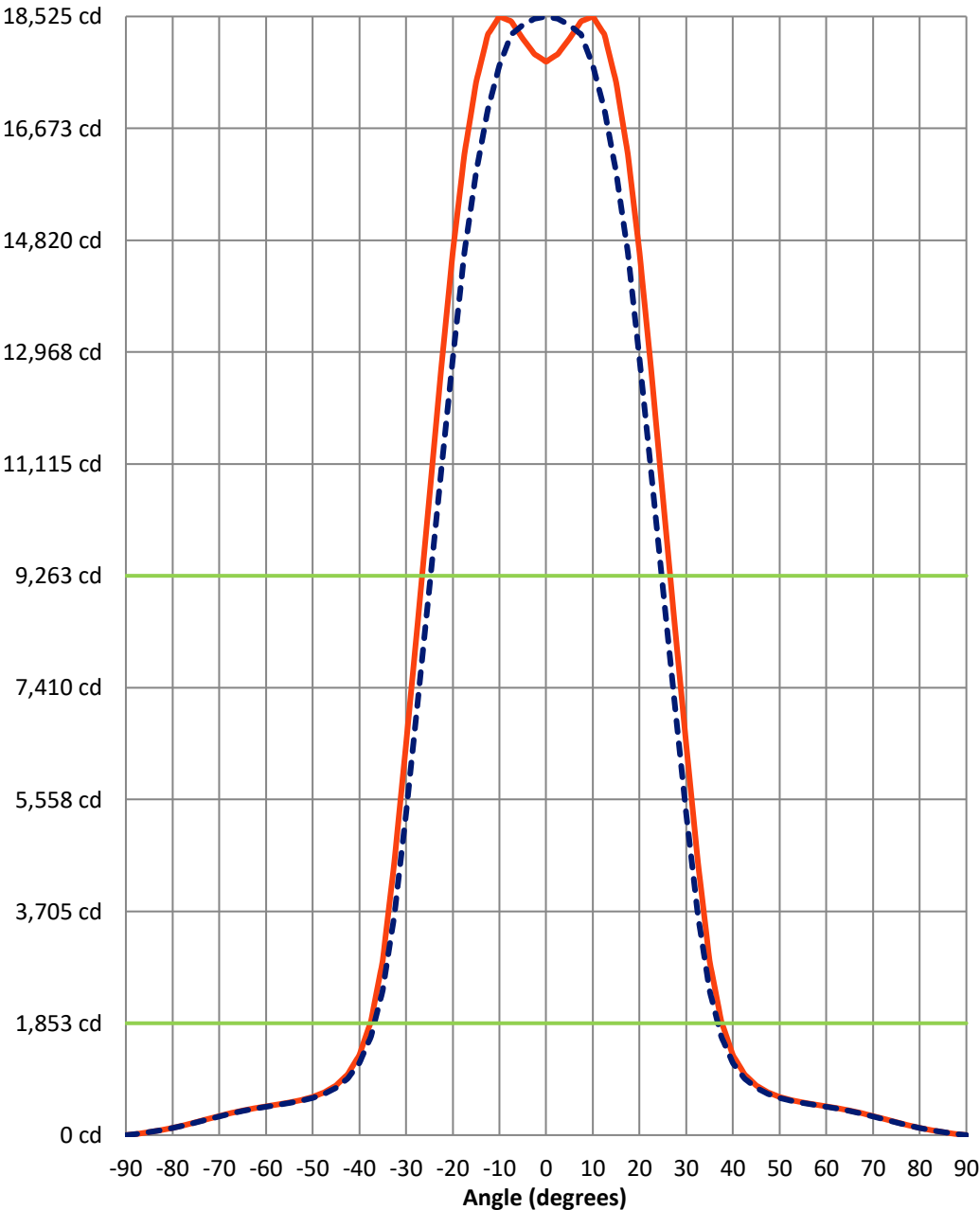


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 7534.6
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 9798.9
Efficiency: 64.6%

Spill:
Lumens: 5360.4
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°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	18.9	18.9	18.9	18.9
85°	50.4	50.4	50.4	50.4	50.4	48.8	48.8	47.2	47.2	45.7	44.1
82.5°	81.9	81.9	81.9	81.9	80.3	80.3	78.7	77.2	75.6	74.0	72.4
80°	119.7	119.7	119.7	119.7	118.1	116.5	115.0	113.4	110.2	108.7	105.5
77.5°	163.8	163.8	163.8	162.2	160.6	159.0	155.9	152.8	149.6	146.5	143.3
75°	214.2	214.2	214.2	211.0	209.4	206.3	203.1	200.0	195.3	190.5	185.8
72.5°	266.1	266.1	266.1	263.0	259.8	256.7	253.5	248.8	244.1	237.8	231.5
70°	315.0	315.0	315.0	311.8	308.7	305.5	300.8	296.1	289.8	283.5	277.2
67.5°	365.3	365.3	365.3	360.6	357.5	354.3	349.6	343.3	337.0	329.1	321.2
65°	406.3	406.3	404.7	403.1	400.0	395.3	392.1	385.8	379.5	373.2	365.3
62.5°	444.1	444.1	442.5	440.9	437.8	433.1	428.3	423.6	417.3	409.4	401.6
60°	475.6	475.6	474.0	472.4	469.3	466.1	461.4	456.7	450.4	444.1	436.2
57.5°	507.1	507.1	505.5	503.9	500.8	496.0	491.3	486.6	480.3	472.4	464.6
55°	540.1	540.1	538.6	535.4	532.3	527.5	522.8	516.5	508.6	500.8	492.9
52.5°	579.5	579.5	576.4	573.2	568.5	563.8	555.9	548.0	538.6	529.1	519.7
50°	631.5	631.5	628.3	623.6	615.7	607.9	598.4	585.8	574.8	562.2	549.6
47.5°	708.6	708.6	702.3	694.5	683.4	670.8	653.5	634.6	618.9	603.1	584.2
45°	822.0	822.0	812.6	800.0	782.7	760.6	735.4	708.6	681.9	655.1	628.3
42.5°	1006.3	1006.3	988.9	966.9	937.0	899.2	851.9	807.8	770.1	727.5	691.3
40°	1324.4	1324.4	1291.3	1250.4	1193.7	1121.2	1034.6	965.3	899.2	825.2	774.8
37.5°	1889.7	1889.7	1825.1	1746.4	1636.2	1497.6	1330.7	1218.9	1096.0	979.5	894.5
35°	2888.1	2888.1	2763.7	2610.9	2398.3	2130.6	1845.6	1634.6	1400.0	1220.4	1061.4
32.5°	4525.8	4525.8	4302.2	4026.6	3647.1	3166.8	2710.1	2308.6	1889.7	1592.1	1305.5
30°	6472.2	6472.2	6179.3	5818.7	5324.2	4700.6	4050.3	3336.9	2675.5	2144.8	1711.8
27.5°	8484.8	8401.3	8149.3	7738.3	7174.6	6472.2	5661.2	4740.0	3845.5	2910.1	2291.3
25°	10566.6	10468.9	10180.8	9708.3	9062.7	8267.4	7354.1	6324.2	5220.3	4105.4	3034.5
22.5°	12670.4	12560.2	12232.7	11698.8	10974.4	10083.1	9048.5	7903.7	6670.6	5382.5	4105.4
20°	14615.3	14498.7	14155.4	13599.5	12850.0	11872.0	10722.5	9453.2	8089.5	6670.6	5220.3
17.5°	16243.5	16131.7	15801.0	15270.4	14615.3	13533.4	12338.2	10942.9	9453.2	7903.7	6324.2
15°	17432.5	17336.4	17054.5	16608.9	15941.2	14983.7	13766.5	12338.2	10722.5	9048.5	7354.1
12.5°	18221.4	18144.3	17922.2	17575.8	16977.4	16174.3	14983.7	13533.4	11872.0	10083.1	8267.4
10°	18525.4	18487.6	18383.6	18224.6	17714.4	16977.4	15941.2	14615.3	12850.0	10974.4	9062.7
7.5°	18445.0	18457.6	18493.9	18452.9	18224.6	17575.8	16608.9	15270.4	13599.5	11698.8	9708.3
5°	18158.4	18226.2	18394.7	18493.9	18383.6	17922.2	17054.5	15801.0	14155.4	12232.7	10180.8
2.5°	17903.3	18008.8	18226.2	18457.6	18487.6	18144.3	17336.4	16131.7	14498.7	12560.2	10468.9
0°	17777.4	17903.3	18158.4	18445.0	18525.4	18221.4	17432.5	16243.5	14615.3	12670.4	10566.6

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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°	18.9	17.3	17.3	17.3	15.7	15.7	15.7	14.2	14.2	12.6	12.6
85°	44.1	42.5	40.9	39.4	37.8	36.2	34.6	33.1	31.5	28.3	26.8
82.5°	70.9	69.3	67.7	64.6	63.0	59.8	56.7	53.5	50.4	48.8	45.7
80°	102.4	99.2	96.1	92.9	88.2	83.5	80.3	75.6	72.4	67.7	64.6
77.5°	138.6	133.9	129.1	122.8	118.1	113.4	107.1	102.4	96.1	89.8	83.5
75°	179.5	173.2	165.3	159.0	152.8	144.9	137.0	129.1	121.3	113.4	105.5
72.5°	223.6	215.7	207.9	200.0	190.5	179.5	170.1	159.0	149.6	140.2	129.1
70°	269.3	259.8	250.4	240.9	229.9	217.3	206.3	193.7	181.1	168.5	155.9
67.5°	311.8	302.4	291.3	281.9	269.3	256.7	242.5	228.3	214.2	198.4	182.7
65°	355.9	344.9	332.3	319.7	307.1	292.9	278.7	264.6	247.2	229.9	214.2
62.5°	392.1	382.7	371.6	359.0	344.9	329.1	315.0	296.1	278.7	261.4	240.9
60°	426.8	415.7	406.3	392.1	379.5	365.3	348.0	329.1	310.2	289.8	270.9
57.5°	456.7	447.2	436.2	423.6	409.4	395.3	379.5	362.2	340.1	319.7	297.6
55°	483.4	472.4	461.4	450.4	437.8	422.0	406.3	389.0	370.1	348.0	324.4
52.5°	510.2	499.2	486.6	475.6	461.4	447.2	431.5	414.2	395.3	374.8	349.6
50°	537.0	524.4	511.8	497.6	483.4	469.3	453.5	437.8	417.3	396.8	374.8
47.5°	568.5	552.7	537.0	521.2	507.1	489.7	474.0	456.7	439.4	417.3	395.3
45°	607.9	584.2	565.3	546.4	529.1	511.8	492.9	475.6	456.7	437.8	414.2
42.5°	656.7	625.2	600.0	574.8	552.7	532.3	513.4	492.9	474.0	453.5	431.5
40°	722.8	680.3	639.3	607.9	579.5	554.3	532.3	511.8	489.7	469.3	447.2
37.5°	809.4	749.6	692.9	647.2	611.0	579.5	552.7	529.1	507.1	483.4	461.4
35°	940.1	836.2	763.8	697.6	647.2	607.9	574.8	546.4	521.2	497.6	475.6
32.5°	1124.4	963.7	847.2	763.8	692.9	639.3	600.0	565.3	537.0	511.8	486.6
30°	1366.9	1144.8	963.7	836.2	749.6	680.3	625.2	584.2	552.7	524.4	499.2
27.5°	1751.1	1366.9	1124.4	940.1	809.4	722.8	656.7	607.9	568.5	537.0	510.2
25°	2291.3	1711.8	1305.5	1061.4	894.5	774.8	691.3	628.3	584.2	549.6	519.7
22.5°	2910.1	2144.8	1592.1	1220.4	979.5	825.2	727.5	655.1	603.1	562.2	529.1
20°	3845.5	2675.5	1889.7	1400.0	1096.0	899.2	770.1	681.9	618.9	574.8	538.6
17.5°	4740.0	3336.9	2308.6	1634.6	1218.9	965.3	807.8	708.6	634.6	585.8	548.0
15°	5661.2	4050.3	2710.1	1845.6	1330.7	1034.6	851.9	735.4	653.5	598.4	555.9
12.5°	6472.2	4700.6	3166.8	2130.6	1497.6	1121.2	899.2	760.6	670.8	607.9	563.8
10°	7174.6	5324.2	3647.1	2398.3	1636.2	1193.7	937.0	782.7	683.4	615.7	568.5
7.5°	7738.3	5818.7	4026.6	2610.9	1746.4	1250.4	966.9	800.0	694.5	623.6	573.2
5°	8149.3	6179.3	4302.2	2763.7	1825.1	1291.3	988.9	812.6	702.3	628.3	576.4
2.5°	8401.3	6472.2	4525.8	2888.1	1889.7	1324.4	1006.3	822.0	708.6	631.5	579.5
0°	8484.8	6472.2	4525.8	2888.1	1889.7	1324.4	1006.3	822.0	708.6	631.5	579.5

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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°	11.0	11.0	9.4	9.4	7.9	7.9	6.3	6.3	4.7	4.7	3.1
85°	25.2	22.0	20.5	18.9	17.3	15.7	14.2	12.6	11.0	9.4	7.9
82.5°	42.5	39.4	34.6	31.5	28.3	25.2	20.5	18.9	15.7	12.6	11.0
80°	59.8	55.1	50.4	45.7	40.9	36.2	31.5	26.8	22.0	17.3	14.2
77.5°	77.2	70.9	66.1	59.8	53.5	47.2	40.9	34.6	28.3	22.0	17.3
75°	97.6	89.8	81.9	74.0	66.1	58.3	52.0	44.1	36.2	28.3	22.0
72.5°	119.7	108.7	99.2	89.8	78.7	70.9	61.4	53.5	44.1	34.6	26.8
70°	143.3	130.7	118.1	105.5	94.5	81.9	72.4	61.4	52.0	40.9	31.5
67.5°	166.9	152.8	138.6	122.8	108.7	96.1	81.9	70.9	58.3	47.2	36.2
65°	195.3	176.4	159.0	141.7	124.4	108.7	94.5	78.7	66.1	53.5	40.9
62.5°	222.0	201.6	181.1	160.6	141.7	122.8	105.5	89.8	74.0	59.8	45.7
60°	248.8	226.8	203.1	181.1	159.0	138.6	118.1	99.2	81.9	66.1	50.4
57.5°	275.6	250.4	226.8	201.6	176.4	152.8	130.7	108.7	89.8	70.9	55.1
55°	299.2	275.6	248.8	222.0	195.3	166.9	143.3	119.7	97.6	77.2	59.8
52.5°	324.4	297.6	270.9	240.9	214.2	182.7	155.9	129.1	105.5	83.5	64.6
50°	348.0	319.7	289.8	261.4	229.9	198.4	168.5	140.2	113.4	89.8	67.7
47.5°	370.1	340.1	310.2	278.7	247.2	214.2	181.1	149.6	121.3	96.1	72.4
45°	389.0	362.2	329.1	296.1	264.6	228.3	193.7	159.0	129.1	102.4	75.6
42.5°	406.3	379.5	348.0	315.0	278.7	242.5	206.3	170.1	137.0	107.1	80.3
40°	422.0	395.3	365.3	329.1	292.9	256.7	217.3	179.5	144.9	113.4	83.5
37.5°	437.8	409.4	379.5	344.9	307.1	269.3	229.9	190.5	152.8	118.1	88.2
35°	450.4	423.6	392.1	359.0	319.7	281.9	240.9	200.0	159.0	122.8	92.9
32.5°	461.4	436.2	406.3	371.6	332.3	291.3	250.4	207.9	165.3	129.1	96.1
30°	472.4	447.2	415.7	382.7	344.9	302.4	259.8	215.7	173.2	133.9	99.2
27.5°	483.4	456.7	426.8	392.1	355.9	311.8	269.3	223.6	179.5	138.6	102.4
25°	492.9	464.6	436.2	401.6	365.3	321.2	277.2	231.5	185.8	143.3	105.5
22.5°	500.8	472.4	444.1	409.4	373.2	329.1	283.5	237.8	190.5	146.5	108.7
20°	508.6	480.3	450.4	417.3	379.5	337.0	289.8	244.1	195.3	149.6	110.2
17.5°	516.5	486.6	456.7	423.6	385.8	343.3	296.1	248.8	200.0	152.8	113.4
15°	522.8	491.3	461.4	428.3	392.1	349.6	300.8	253.5	203.1	155.9	115.0
12.5°	527.5	496.0	466.1	433.1	395.3	354.3	305.5	256.7	206.3	159.0	116.5
10°	532.3	500.8	469.3	437.8	400.0	357.5	308.7	259.8	209.4	160.6	118.1
7.5°	535.4	503.9	472.4	440.9	403.1	360.6	311.8	263.0	211.0	162.2	119.7
5°	538.6	505.5	474.0	442.5	404.7	365.3	315.0	266.1	214.2	163.8	119.7
2.5°	540.1	507.1	475.6	444.1	406.3	365.3	315.0	266.1	214.2	163.8	119.7
0°	540.1	507.1	475.6	444.1	406.3	365.3	315.0	266.1	214.2	163.8	119.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.1	1.6	1.6	0.0
85°	4.7	3.1	1.6	0.0
82.5°	7.9	4.7	3.1	0.0
80°	11.0	7.9	3.1	0.0
77.5°	12.6	9.4	4.7	0.0
75°	15.7	11.0	4.7	0.0
72.5°	18.9	12.6	6.3	0.0
70°	20.5	14.2	6.3	0.0
67.5°	25.2	15.7	7.9	0.0
65°	28.3	17.3	7.9	0.0
62.5°	31.5	18.9	9.4	0.0
60°	34.6	20.5	9.4	0.0
57.5°	39.4	22.0	11.0	0.0
55°	42.5	25.2	11.0	0.0
52.5°	45.7	26.8	12.6	0.0
50°	48.8	28.3	12.6	0.0
47.5°	50.4	31.5	14.2	0.0
45°	53.5	33.1	14.2	0.0
42.5°	56.7	34.6	15.7	0.0
40°	59.8	36.2	15.7	0.0
37.5°	63.0	37.8	15.7	0.0
35°	64.6	39.4	17.3	0.0
32.5°	67.7	40.9	17.3	0.0
30°	69.3	42.5	17.3	0.0
27.5°	70.9	44.1	18.9	0.0
25°	72.4	44.1	18.9	0.0
22.5°	74.0	45.7	18.9	0.0
20°	75.6	47.2	18.9	0.0
17.5°	77.2	47.2	18.9	0.0
15°	78.7	48.8	20.5	0.0
12.5°	80.3	48.8	20.5	0.0
10°	80.3	50.4	20.5	0.0
7.5°	81.9	50.4	20.5	0.0
5°	81.9	50.4	20.5	0.0
2.5°	81.9	50.4	20.5	0.0
0°	81.9	50.4	20.5	0.0

(END OF REPORT)