

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: P623638

Luminaire Tested: **IFLD-S-SA2B-735-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	11741.9 lumens	Max Intensity:	14349.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	142.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

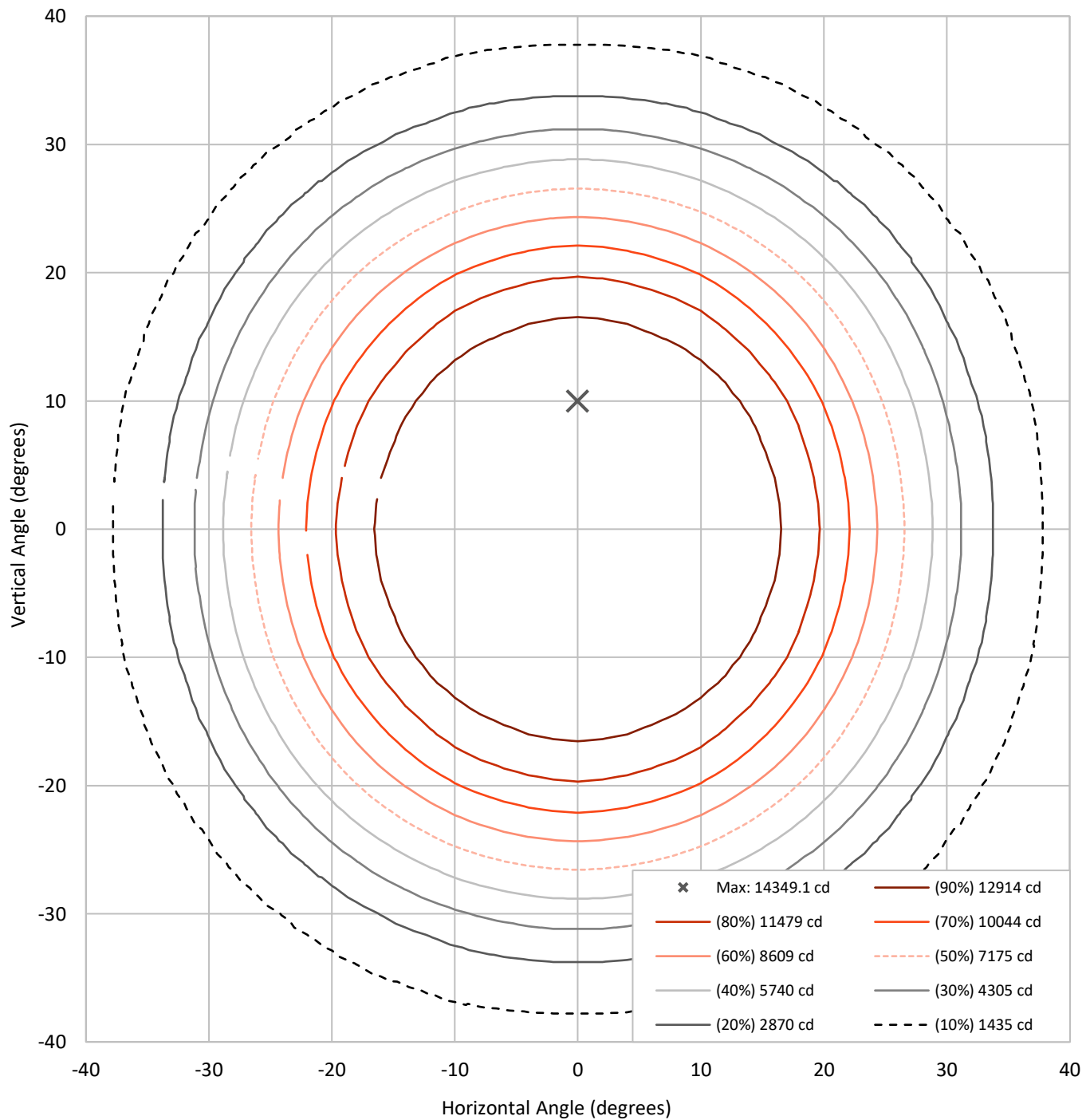
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	5836 lumens	Field Lumens:	7589.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 82.4
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



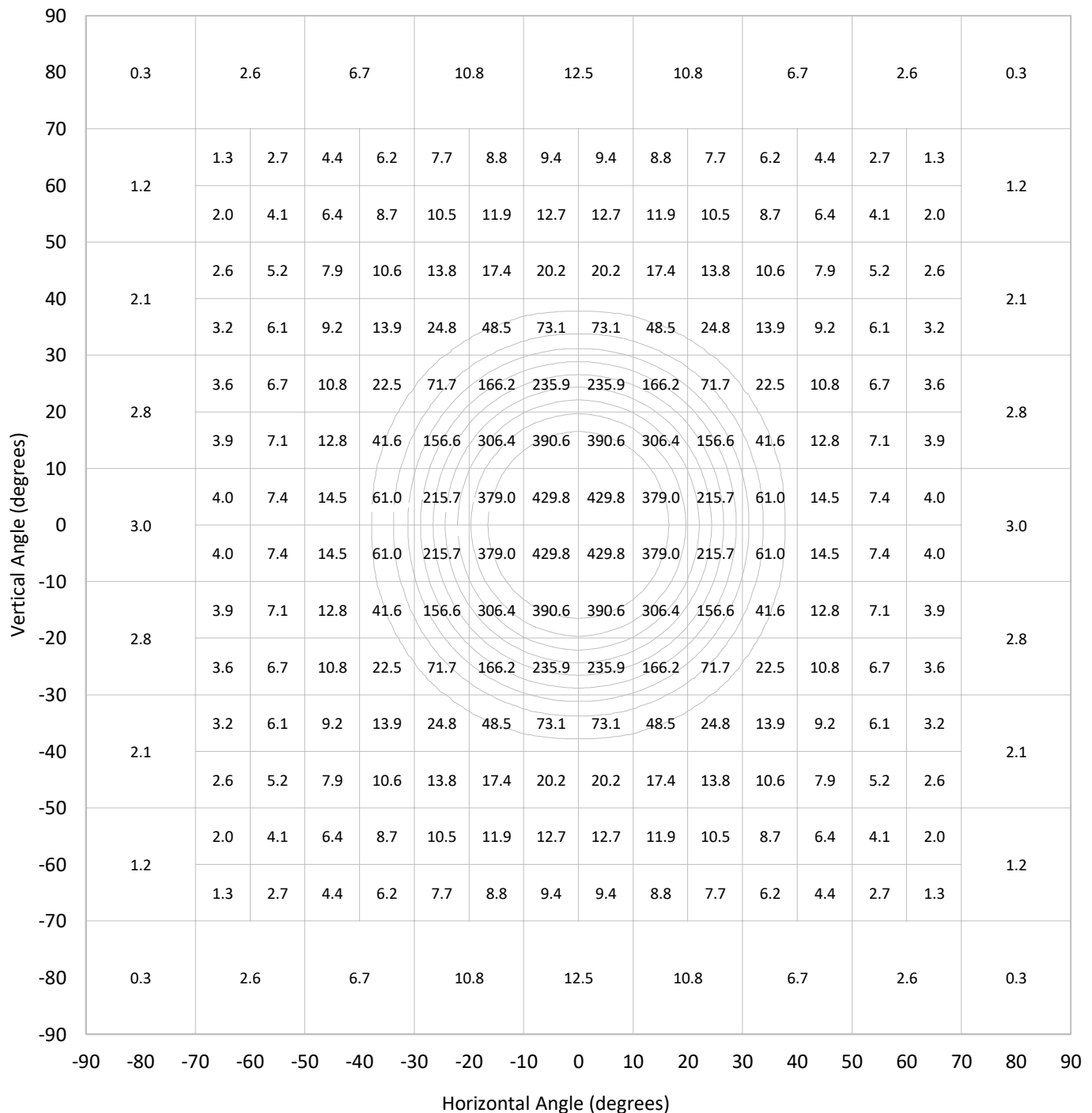
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Iso-Candela Plot



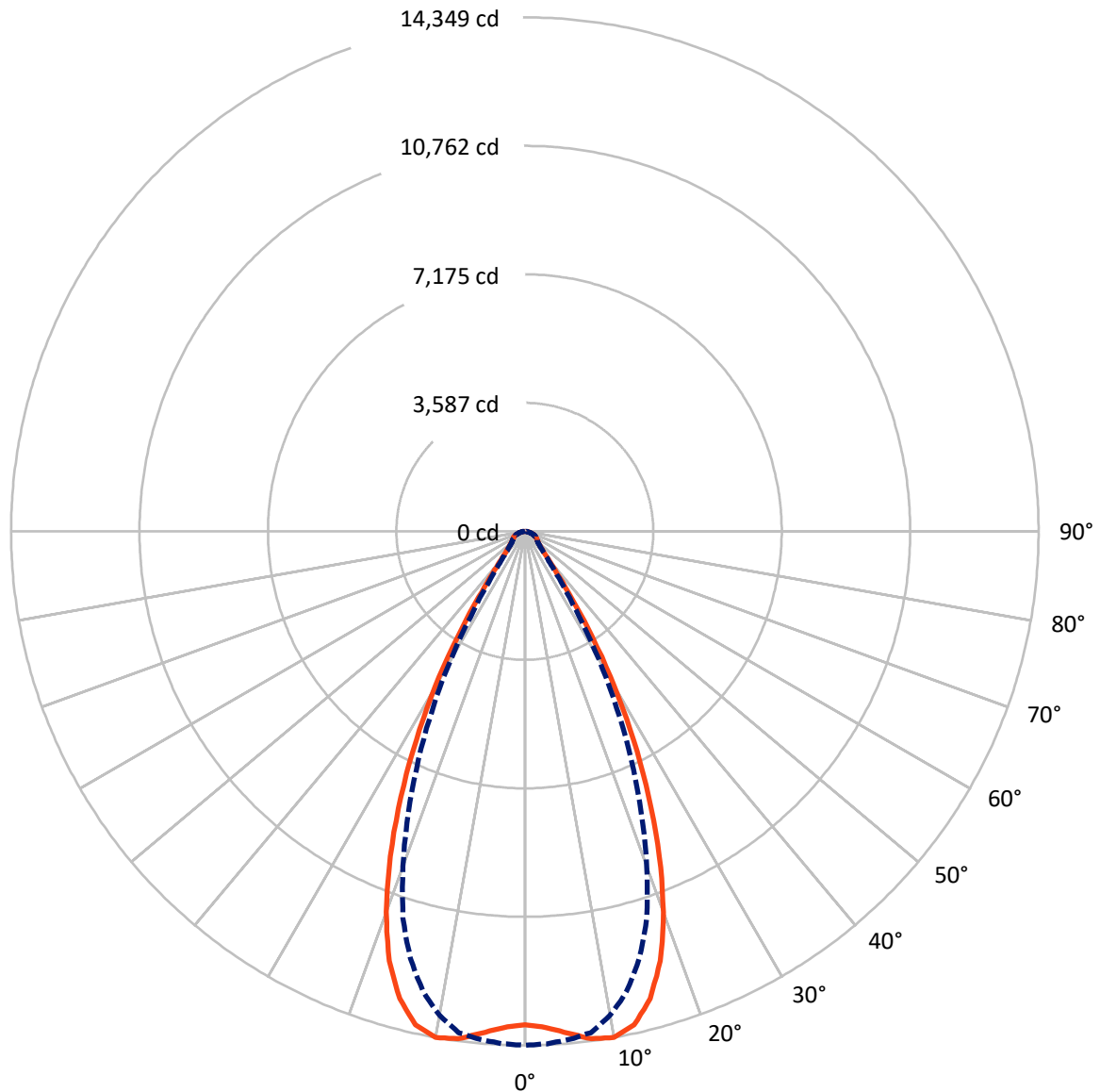
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Lumen Table



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Luminous Intensity Polar Plot

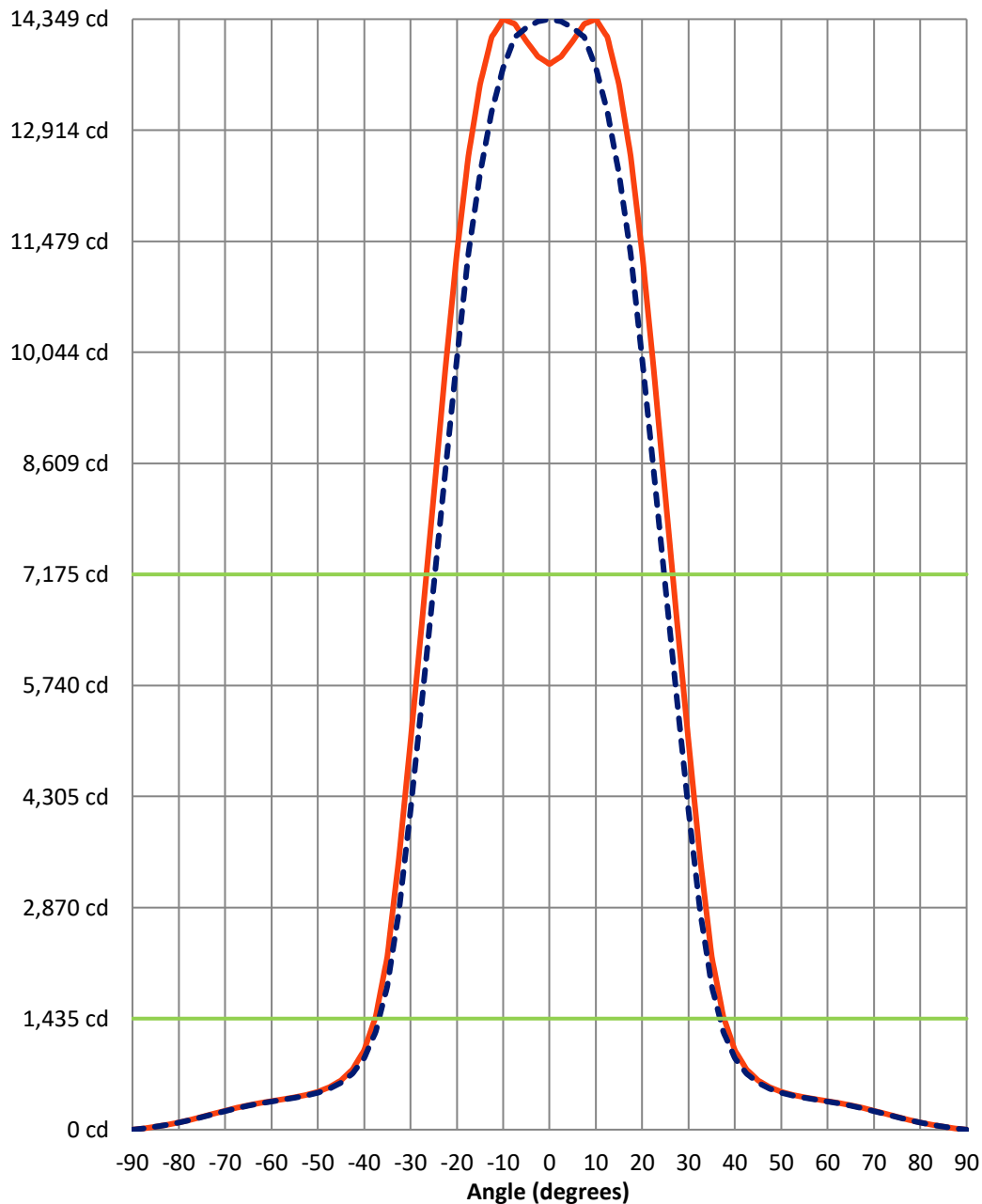


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 5836
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 7589.9
Efficiency: 64.6%

Spill:

Lumens: 4152
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°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	14.6	14.6	14.6	14.6
85°	39.0	39.0	39.0	39.0	39.0	37.8	37.8	36.6	36.6	35.4	34.2
82.5°	63.4	63.4	63.4	63.4	62.2	62.2	61.0	59.8	58.5	57.3	56.1
80°	92.7	92.7	92.7	92.7	91.5	90.3	89.0	87.8	85.4	84.2	81.7
77.5°	126.9	126.9	126.9	125.6	124.4	123.2	120.8	118.3	115.9	113.4	111.0
75°	165.9	165.9	165.9	163.4	162.2	159.8	157.3	154.9	151.2	147.6	143.9
72.5°	206.1	206.1	206.1	203.7	201.3	198.8	196.4	192.7	189.1	184.2	179.3
70°	243.9	243.9	243.9	241.5	239.1	236.6	233.0	229.3	224.4	219.6	214.7
67.5°	283.0	283.0	283.0	279.3	276.9	274.4	270.8	265.9	261.0	254.9	248.8
65°	314.7	314.7	313.5	312.3	309.8	306.2	303.7	298.8	294.0	289.1	283.0
62.5°	344.0	344.0	342.7	341.5	339.1	335.4	331.8	328.1	323.2	317.1	311.0
60°	368.4	368.4	367.1	365.9	363.5	361.0	357.4	353.7	348.8	344.0	337.9
57.5°	392.8	392.8	391.5	390.3	387.9	384.2	380.6	376.9	372.0	365.9	359.8
55°	418.4	418.4	417.2	414.7	412.3	408.6	405.0	400.1	394.0	387.9	381.8
52.5°	448.9	448.9	446.4	444.0	440.3	436.7	430.6	424.5	417.2	409.8	402.5
50°	489.1	489.1	486.7	483.0	476.9	470.8	463.5	453.7	445.2	435.5	425.7
47.5°	548.9	548.9	544.0	537.9	529.4	519.6	506.2	491.6	479.4	467.2	452.5
45°	636.7	636.7	629.4	619.6	606.2	589.1	569.6	548.9	528.2	507.4	486.7
42.5°	779.4	779.4	766.0	748.9	725.8	696.5	659.9	625.7	596.5	563.5	535.5
40°	1025.8	1025.8	1000.2	968.5	924.6	868.5	801.4	747.7	696.5	639.1	600.1
37.5°	1463.7	1463.7	1413.7	1352.7	1267.3	1160.0	1030.7	944.1	848.9	758.7	692.8
35°	2237.0	2237.0	2140.7	2022.3	1857.7	1650.3	1429.5	1266.1	1084.4	945.3	822.1
32.5°	3505.6	3505.6	3332.4	3118.9	2824.9	2452.9	2099.2	1788.2	1463.7	1233.2	1011.2
30°	5013.2	5013.2	4786.3	4507.0	4124.0	3641.0	3137.2	2584.7	2072.4	1661.3	1325.9
27.5°	6572.0	6507.4	6312.2	5993.9	5557.2	5013.2	4385.0	3671.4	2978.6	2254.1	1774.7
25°	8184.5	8108.9	7885.7	7519.8	7019.7	6403.7	5696.2	4898.5	4043.5	3179.9	2350.5
22.5°	9814.1	9728.7	9475.0	9061.5	8500.4	7810.1	7008.7	6121.9	5166.9	4169.1	3179.9
20°	11320.5	11230.2	10964.3	10533.8	9953.2	9195.7	8305.3	7322.2	6265.9	5166.9	4043.5
17.5°	12581.7	12495.1	12239.0	11827.9	11320.5	10482.5	9556.7	8476.0	7322.2	6121.9	4898.5
15°	13502.6	13428.2	13209.9	12864.7	12347.5	11605.9	10663.1	9556.7	8305.3	7008.7	5696.2
12.5°	14113.7	14054.0	13882.0	13613.6	13150.1	12528.1	11605.9	10482.5	9195.7	7810.1	6403.7
10°	14349.1	14319.9	14239.4	14116.2	13721.0	13150.1	12347.5	11320.5	9953.2	8500.4	7019.7
7.5°	14286.9	14296.7	14324.7	14293.0	14116.2	13613.6	12864.7	11827.9	10533.8	9061.5	7519.8
5°	14064.9	14117.4	14247.9	14324.7	14239.4	13882.0	13209.9	12239.0	10964.3	9475.0	7885.7
2.5°	13867.3	13949.1	14117.4	14296.7	14319.9	14054.0	13428.2	12495.1	11230.2	9728.7	8108.9
0°	13769.8	13867.3	14064.9	14286.9	14349.1	14113.7	13502.6	12581.7	11320.5	9814.1	8184.5

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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°	14.6	13.4	13.4	13.4	12.2	12.2	12.2	11.0	11.0	9.8	9.8
85°	34.2	32.9	31.7	30.5	29.3	28.1	26.8	25.6	24.4	22.0	20.7
82.5°	54.9	53.7	52.4	50.0	48.8	46.4	43.9	41.5	39.0	37.8	35.4
80°	79.3	76.8	74.4	72.0	68.3	64.6	62.2	58.5	56.1	52.4	50.0
77.5°	107.3	103.7	100.0	95.1	91.5	87.8	82.9	79.3	74.4	69.5	64.6
75°	139.1	134.2	128.1	123.2	118.3	112.2	106.1	100.0	93.9	87.8	81.7
72.5°	173.2	167.1	161.0	154.9	147.6	139.1	131.7	123.2	115.9	108.6	100.0
70°	208.6	201.3	193.9	186.6	178.1	168.3	159.8	150.0	140.3	130.5	120.8
67.5°	241.5	234.2	225.7	218.3	208.6	198.8	187.8	176.9	165.9	153.7	141.5
65°	275.7	267.1	257.4	247.6	237.9	226.9	215.9	204.9	191.5	178.1	165.9
62.5°	303.7	296.4	287.9	278.1	267.1	254.9	243.9	229.3	215.9	202.5	186.6
60°	330.6	322.0	314.7	303.7	294.0	283.0	269.6	254.9	240.3	224.4	209.8
57.5°	353.7	346.4	337.9	328.1	317.1	306.2	294.0	280.5	263.5	247.6	230.5
55°	374.5	365.9	357.4	348.8	339.1	326.9	314.7	301.3	286.6	269.6	251.3
52.5°	395.2	386.7	376.9	368.4	357.4	346.4	334.2	320.8	306.2	290.3	270.8
50°	415.9	406.2	396.4	385.4	374.5	363.5	351.3	339.1	323.2	307.4	290.3
47.5°	440.3	428.1	415.9	403.7	392.8	379.3	367.1	353.7	340.3	323.2	306.2
45°	470.8	452.5	437.9	423.3	409.8	396.4	381.8	368.4	353.7	339.1	320.8
42.5°	508.6	484.2	464.7	445.2	428.1	412.3	397.6	381.8	367.1	351.3	334.2
40°	559.9	526.9	495.2	470.8	448.9	429.4	412.3	396.4	379.3	363.5	346.4
37.5°	627.0	580.6	536.7	501.3	473.3	448.9	428.1	409.8	392.8	374.5	357.4
35°	728.2	647.7	591.6	540.3	501.3	470.8	445.2	423.3	403.7	385.4	368.4
32.5°	870.9	746.5	656.2	591.6	536.7	495.2	464.7	437.9	415.9	396.4	376.9
30°	1058.7	886.8	746.5	647.7	580.6	526.9	484.2	452.5	428.1	406.2	386.7
27.5°	1356.4	1058.7	870.9	728.2	627.0	559.9	508.6	470.8	440.3	415.9	395.2
25°	1774.7	1325.9	1011.2	822.1	692.8	600.1	535.5	486.7	452.5	425.7	402.5
22.5°	2254.1	1661.3	1233.2	945.3	758.7	639.1	563.5	507.4	467.2	435.5	409.8
20°	2978.6	2072.4	1463.7	1084.4	848.9	696.5	596.5	528.2	479.4	445.2	417.2
17.5°	3671.4	2584.7	1788.2	1266.1	944.1	747.7	625.7	548.9	491.6	453.7	424.5
15°	4385.0	3137.2	2099.2	1429.5	1030.7	801.4	659.9	569.6	506.2	463.5	430.6
12.5°	5013.2	3641.0	2452.9	1650.3	1160.0	868.5	696.5	589.1	519.6	470.8	436.7
10°	5557.2	4124.0	2824.9	1857.7	1267.3	924.6	725.8	606.2	529.4	476.9	440.3
7.5°	5993.9	4507.0	3118.9	2022.3	1352.7	968.5	748.9	619.6	537.9	483.0	444.0
5°	6312.2	4786.3	3332.4	2140.7	1413.7	1000.2	766.0	629.4	544.0	486.7	446.4
2.5°	6507.4	5013.2	3505.6	2237.0	1463.7	1025.8	779.4	636.7	548.9	489.1	448.9
0°	6572.0	5013.2	3505.6	2237.0	1463.7	1025.8	779.4	636.7	548.9	489.1	448.9

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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°	8.5	8.5	7.3	7.3	6.1	6.1	4.9	4.9	3.7	3.7	2.4
85°	19.5	17.1	15.9	14.6	13.4	12.2	11.0	9.8	8.5	7.3	6.1
82.5°	32.9	30.5	26.8	24.4	22.0	19.5	15.9	14.6	12.2	9.8	8.5
80°	46.4	42.7	39.0	35.4	31.7	28.1	24.4	20.7	17.1	13.4	11.0
77.5°	59.8	54.9	51.2	46.4	41.5	36.6	31.7	26.8	22.0	17.1	13.4
75°	75.6	69.5	63.4	57.3	51.2	45.1	40.3	34.2	28.1	22.0	17.1
72.5°	92.7	84.2	76.8	69.5	61.0	54.9	47.6	41.5	34.2	26.8	20.7
70°	111.0	101.2	91.5	81.7	73.2	63.4	56.1	47.6	40.3	31.7	24.4
67.5°	129.3	118.3	107.3	95.1	84.2	74.4	63.4	54.9	45.1	36.6	28.1
65°	151.2	136.6	123.2	109.8	96.4	84.2	73.2	61.0	51.2	41.5	31.7
62.5°	172.0	156.1	140.3	124.4	109.8	95.1	81.7	69.5	57.3	46.4	35.4
60°	192.7	175.6	157.3	140.3	123.2	107.3	91.5	76.8	63.4	51.2	39.0
57.5°	213.5	193.9	175.6	156.1	136.6	118.3	101.2	84.2	69.5	54.9	42.7
55°	231.8	213.5	192.7	172.0	151.2	129.3	111.0	92.7	75.6	59.8	46.4
52.5°	251.3	230.5	209.8	186.6	165.9	141.5	120.8	100.0	81.7	64.6	50.0
50°	269.6	247.6	224.4	202.5	178.1	153.7	130.5	108.6	87.8	69.5	52.4
47.5°	286.6	263.5	240.3	215.9	191.5	165.9	140.3	115.9	93.9	74.4	56.1
45°	301.3	280.5	254.9	229.3	204.9	176.9	150.0	123.2	100.0	79.3	58.5
42.5°	314.7	294.0	269.6	243.9	215.9	187.8	159.8	131.7	106.1	82.9	62.2
40°	326.9	306.2	283.0	254.9	226.9	198.8	168.3	139.1	112.2	87.8	64.6
37.5°	339.1	317.1	294.0	267.1	237.9	208.6	178.1	147.6	118.3	91.5	68.3
35°	348.8	328.1	303.7	278.1	247.6	218.3	186.6	154.9	123.2	95.1	72.0
32.5°	357.4	337.9	314.7	287.9	257.4	225.7	193.9	161.0	128.1	100.0	74.4
30°	365.9	346.4	322.0	296.4	267.1	234.2	201.3	167.1	134.2	103.7	76.8
27.5°	374.5	353.7	330.6	303.7	275.7	241.5	208.6	173.2	139.1	107.3	79.3
25°	381.8	359.8	337.9	311.0	283.0	248.8	214.7	179.3	143.9	111.0	81.7
22.5°	387.9	365.9	344.0	317.1	289.1	254.9	219.6	184.2	147.6	113.4	84.2
20°	394.0	372.0	348.8	323.2	294.0	261.0	224.4	189.1	151.2	115.9	85.4
17.5°	400.1	376.9	353.7	328.1	298.8	265.9	229.3	192.7	154.9	118.3	87.8
15°	405.0	380.6	357.4	331.8	303.7	270.8	233.0	196.4	157.3	120.8	89.0
12.5°	408.6	384.2	361.0	335.4	306.2	274.4	236.6	198.8	159.8	123.2	90.3
10°	412.3	387.9	363.5	339.1	309.8	276.9	239.1	201.3	162.2	124.4	91.5
7.5°	414.7	390.3	365.9	341.5	312.3	279.3	241.5	203.7	163.4	125.6	92.7
5°	417.2	391.5	367.1	342.7	313.5	283.0	243.9	206.1	165.9	126.9	92.7
2.5°	418.4	392.8	368.4	344.0	314.7	283.0	243.9	206.1	165.9	126.9	92.7
0°	418.4	392.8	368.4	344.0	314.7	283.0	243.9	206.1	165.9	126.9	92.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	0.0
85°	3.7	2.4	1.2	0.0
82.5°	6.1	3.7	2.4	0.0
80°	8.5	6.1	2.4	0.0
77.5°	9.8	7.3	3.7	0.0
75°	12.2	8.5	3.7	0.0
72.5°	14.6	9.8	4.9	0.0
70°	15.9	11.0	4.9	0.0
67.5°	19.5	12.2	6.1	0.0
65°	22.0	13.4	6.1	0.0
62.5°	24.4	14.6	7.3	0.0
60°	26.8	15.9	7.3	0.0
57.5°	30.5	17.1	8.5	0.0
55°	32.9	19.5	8.5	0.0
52.5°	35.4	20.7	9.8	0.0
50°	37.8	22.0	9.8	0.0
47.5°	39.0	24.4	11.0	0.0
45°	41.5	25.6	11.0	0.0
42.5°	43.9	26.8	12.2	0.0
40°	46.4	28.1	12.2	0.0
37.5°	48.8	29.3	12.2	0.0
35°	50.0	30.5	13.4	0.0
32.5°	52.4	31.7	13.4	0.0
30°	53.7	32.9	13.4	0.0
27.5°	54.9	34.2	14.6	0.0
25°	56.1	34.2	14.6	0.0
22.5°	57.3	35.4	14.6	0.0
20°	58.5	36.6	14.6	0.0
17.5°	59.8	36.6	14.6	0.0
15°	61.0	37.8	15.9	0.0
12.5°	62.2	37.8	15.9	0.0
10°	62.2	39.0	15.9	0.0
7.5°	63.4	39.0	15.9	0.0
5°	63.4	39.0	15.9	0.0
2.5°	63.4	39.0	15.9	0.0
0°	63.4	39.0	15.9	0.0

(END OF REPORT)