

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: P623568

Luminaire Tested: **IFLD-M-SA4D-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	24027.2 lumens	Max Intensity:	29362.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	96.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

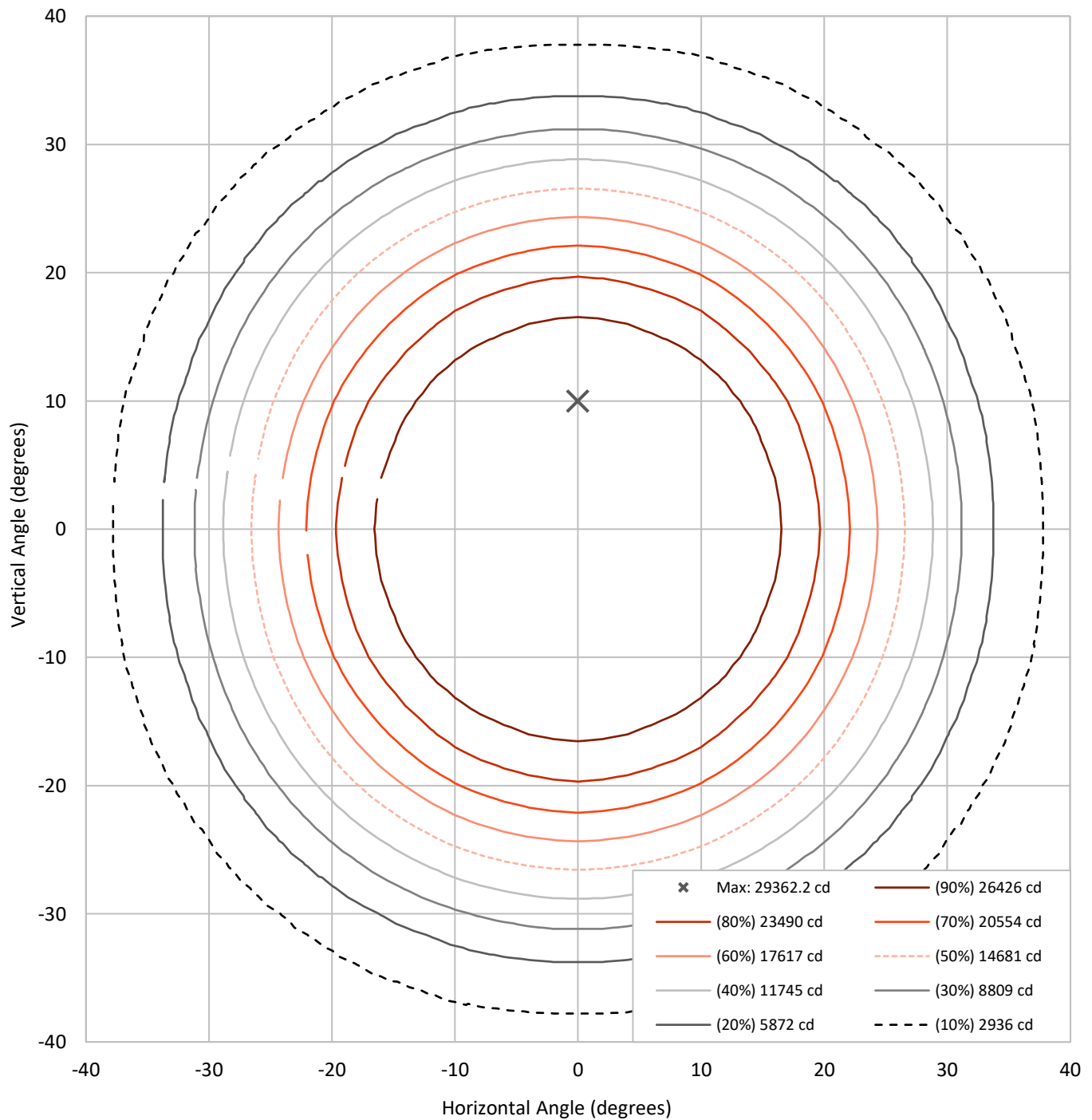
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	11942.1 lumens	Field Lumens:	15531.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 249.7
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



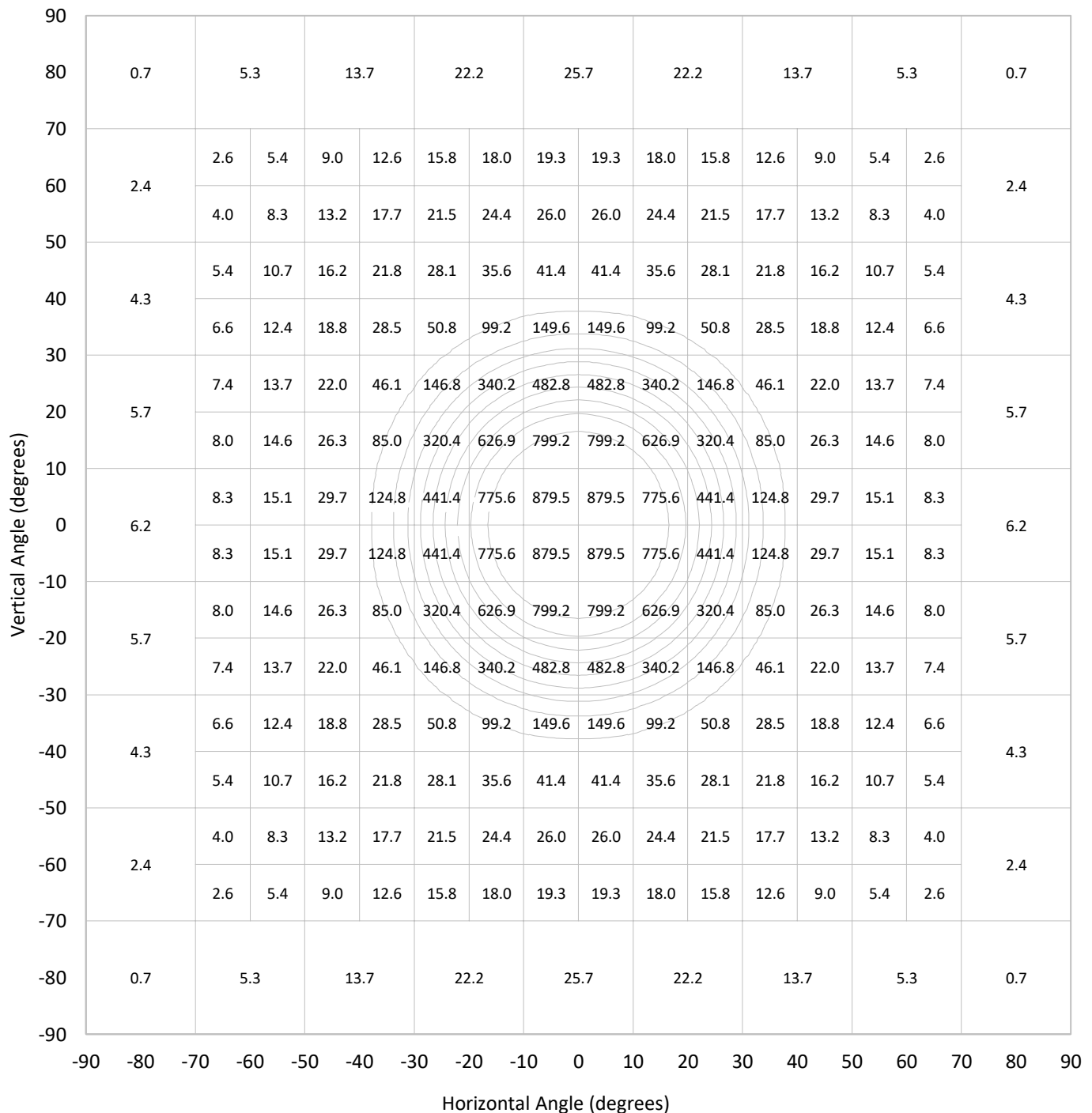
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Iso-Candela Plot



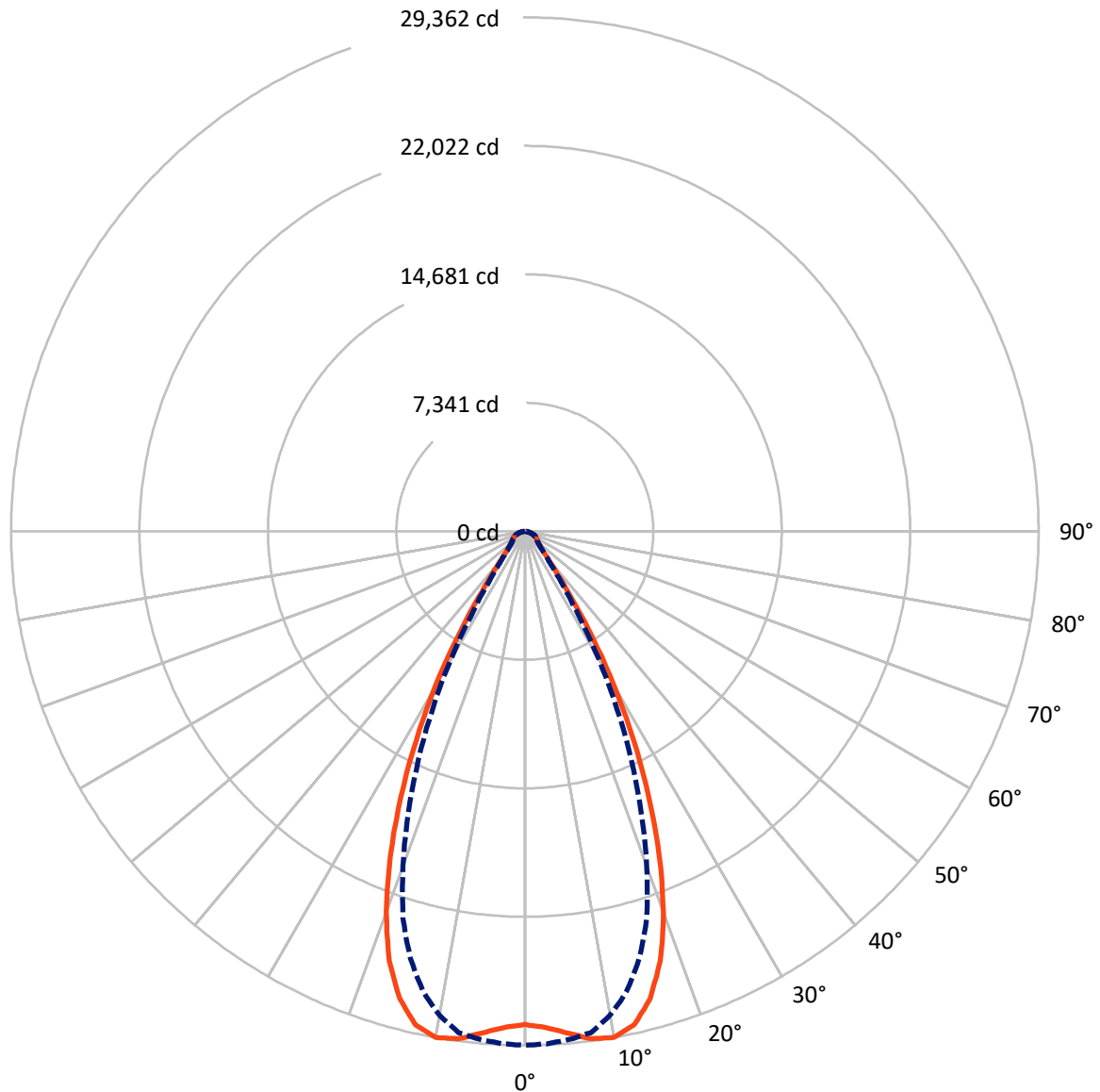
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Lumen Table



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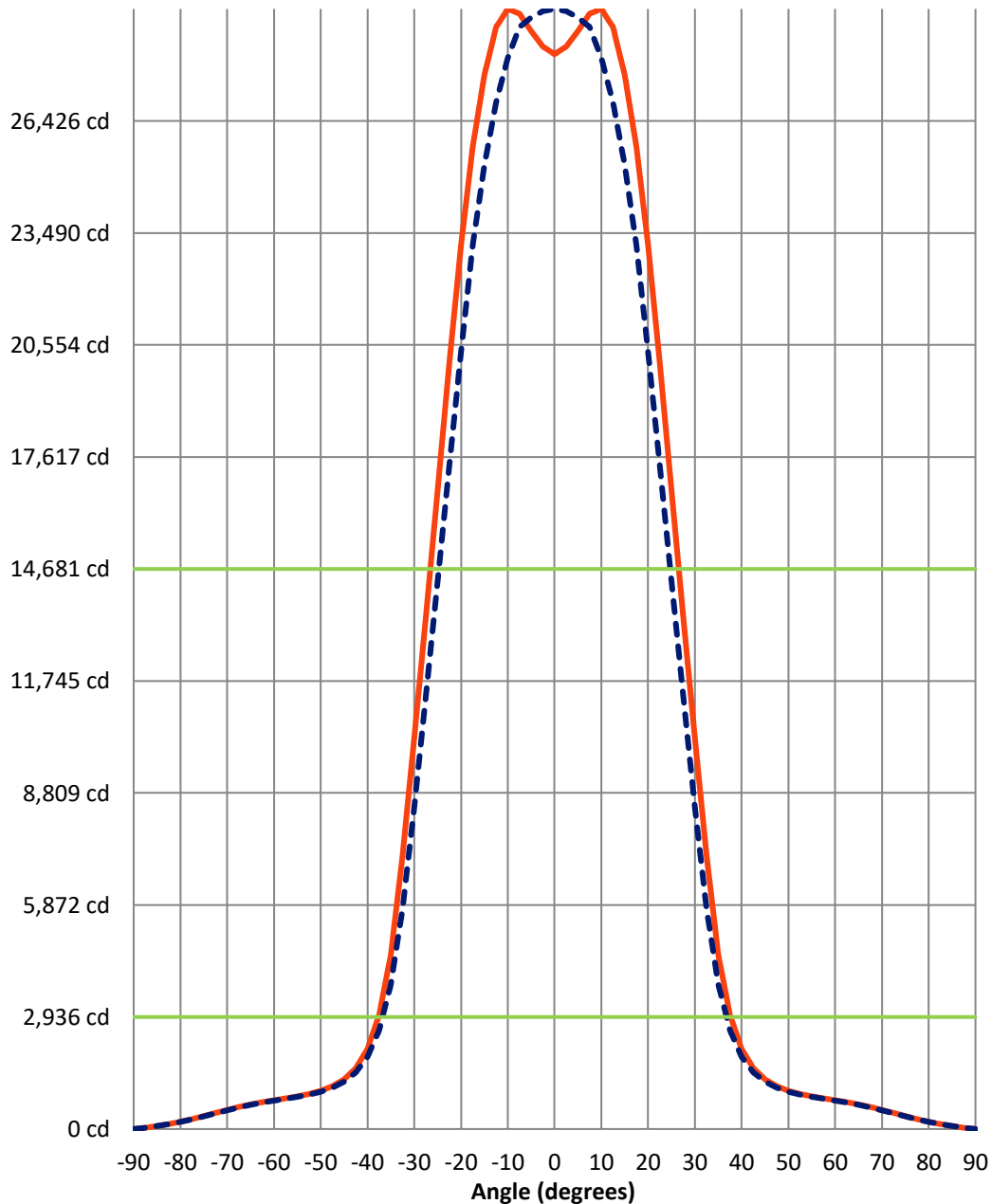
Luminous Intensity Polar Plot



— 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: 11942.1
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 15531.1
Efficiency: 64.6%

Spill:

Lumens: 8496.1
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°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	30.0	30.0	30.0	30.0
85°	79.9	79.9	79.9	79.9	79.9	77.4	77.4	74.9	74.9	72.4	69.9
82.5°	129.8	129.8	129.8	129.8	127.3	127.3	124.8	122.3	119.8	117.3	114.8
80°	189.7	189.7	189.7	189.7	187.2	184.7	182.2	179.7	174.7	172.2	167.2
77.5°	259.6	259.6	259.6	257.1	254.6	252.1	247.1	242.1	237.1	232.1	227.1
75°	339.4	339.4	339.4	334.5	332.0	327.0	322.0	317.0	309.5	302.0	294.5
72.5°	421.8	421.8	421.8	416.8	411.8	406.8	401.8	394.4	386.9	376.9	366.9
70°	499.2	499.2	499.2	494.2	489.2	484.2	476.7	469.2	459.3	449.3	439.3
67.5°	579.1	579.1	579.1	571.6	566.6	561.6	554.1	544.1	534.1	521.7	509.2
65°	644.0	644.0	641.5	639.0	634.0	626.5	621.5	611.5	601.5	591.5	579.1
62.5°	703.9	703.9	701.4	698.9	693.9	686.4	678.9	671.4	661.4	648.9	636.5
60°	753.8	753.8	751.3	748.8	743.8	738.8	731.3	723.8	713.8	703.9	691.4
57.5°	803.7	803.7	801.2	798.7	793.7	786.2	778.7	771.2	761.3	748.8	736.3
55°	856.1	856.1	853.6	848.6	843.6	836.1	828.7	818.7	806.2	793.7	781.2
52.5°	918.5	918.5	913.5	908.5	901.0	893.5	881.1	868.6	853.6	838.6	823.7
50°	1000.9	1000.9	995.9	988.4	975.9	963.4	948.5	928.5	911.0	891.0	871.1
47.5°	1123.2	1123.2	1113.2	1100.7	1083.2	1063.3	1035.8	1005.9	980.9	955.9	926.0
45°	1302.9	1302.9	1287.9	1267.9	1240.5	1205.5	1165.6	1123.2	1080.7	1038.3	995.9
42.5°	1594.9	1594.9	1567.4	1532.5	1485.1	1425.2	1350.3	1280.4	1220.5	1153.1	1095.7
40°	2099.1	2099.1	2046.7	1981.8	1891.9	1777.1	1639.8	1530.0	1425.2	1307.9	1228.0
37.5°	2995.1	2995.1	2892.8	2768.0	2593.3	2373.6	2109.1	1931.9	1737.2	1552.5	1417.7
35°	4577.5	4577.5	4380.4	4138.3	3801.3	3377.0	2925.2	2590.8	2218.9	1934.4	1682.3
32.5°	7173.3	7173.3	6818.9	6382.1	5780.6	5019.3	4295.5	3659.0	2995.1	2523.4	2069.1
30°	10258.3	10258.3	9794.1	9222.5	8438.8	7450.4	6419.5	5288.9	4240.6	3399.5	2713.1
27.5°	13448.1	13315.8	12916.5	12265.0	11371.5	10258.3	8972.9	7512.8	6095.1	4612.5	3631.6
25°	16747.7	16593.0	16136.2	15387.4	14364.1	13103.7	11656.0	10023.7	8274.0	6506.9	4809.7
22.5°	20082.3	19907.6	19388.4	18542.3	17394.2	15981.5	14341.6	12527.1	10572.8	8531.1	6506.9
20°	23164.8	22980.1	22436.0	21554.9	20366.8	18816.9	16994.8	14983.1	12821.6	10572.8	8274.0
17.5°	25745.6	25568.4	25044.2	24203.1	23164.8	21450.1	19555.7	17344.3	14983.1	12527.1	10023.7
15°	27630.0	27477.8	27031.0	26324.6	25266.4	23748.8	21819.5	19555.7	16994.8	14341.6	11656.0
12.5°	28880.5	28758.2	28406.2	27857.1	26908.7	25635.8	23748.8	21450.1	18816.9	15981.5	13103.7
10°	29362.2	29302.3	29137.6	28885.5	28076.8	26908.7	25266.4	23164.8	20366.8	17394.2	14364.1
7.5°	29234.9	29254.9	29312.3	29247.4	28885.5	27857.1	26324.6	24203.1	21554.9	18542.3	15387.4
5°	28780.6	28888.0	29155.0	29312.3	29137.6	28406.2	27031.0	25044.2	22436.0	19388.4	16136.2
2.5°	28376.3	28543.5	28888.0	29254.9	29302.3	28758.2	27477.8	25568.4	22980.1	19907.6	16593.0
0°	28176.6	28376.3	28780.6	29234.9	29362.2	28880.5	27630.0	25745.6	23164.8	20082.3	16747.7

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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°	30.0	27.5	27.5	27.5	25.0	25.0	25.0	22.5	22.5	20.0	20.0
85°	69.9	67.4	64.9	62.4	59.9	57.4	54.9	52.4	49.9	44.9	42.4
82.5°	112.3	109.8	107.3	102.3	99.8	94.8	89.9	84.9	79.9	77.4	72.4
80°	162.2	157.2	152.3	147.3	139.8	132.3	127.3	119.8	114.8	107.3	102.3
77.5°	219.6	212.2	204.7	194.7	187.2	179.7	169.7	162.2	152.3	142.3	132.3
75°	284.5	274.6	262.1	252.1	242.1	229.6	217.1	204.7	192.2	179.7	167.2
72.5°	354.4	341.9	329.5	317.0	302.0	284.5	269.6	252.1	237.1	222.1	204.7
70°	426.8	411.8	396.9	381.9	364.4	344.4	327.0	307.0	287.0	267.1	247.1
67.5°	494.2	479.2	461.7	446.8	426.8	406.8	384.4	361.9	339.4	314.5	289.5
65°	564.1	546.6	526.6	506.7	486.7	464.2	441.8	419.3	391.9	364.4	339.4
62.5°	621.5	606.5	589.0	569.1	546.6	521.7	499.2	469.2	441.8	414.3	381.9
60°	676.4	658.9	644.0	621.5	601.5	579.1	551.6	521.7	491.7	459.3	429.3
57.5°	723.8	708.8	691.4	671.4	648.9	626.5	601.5	574.1	539.1	506.7	471.7
55°	766.3	748.8	731.3	713.8	693.9	668.9	644.0	616.5	586.5	551.6	514.2
52.5°	808.7	791.2	771.2	753.8	731.3	708.8	683.9	656.4	626.5	594.0	554.1
50°	851.1	831.1	811.2	788.7	766.3	743.8	718.8	693.9	661.4	629.0	594.0
47.5°	901.0	876.1	851.1	826.2	803.7	776.2	751.3	723.8	696.4	661.4	626.5
45°	963.4	926.0	896.0	866.1	838.6	811.2	781.2	753.8	723.8	693.9	656.4
42.5°	1040.8	990.9	951.0	911.0	876.1	843.6	813.7	781.2	751.3	718.8	683.9
40°	1145.6	1078.2	1013.4	963.4	918.5	878.6	843.6	811.2	776.2	743.8	708.8
37.5°	1282.9	1188.1	1098.2	1025.8	968.4	918.5	876.1	838.6	803.7	766.3	731.3
35°	1490.1	1325.3	1210.5	1105.7	1025.8	963.4	911.0	866.1	826.2	788.7	753.8
32.5°	1782.1	1527.5	1342.8	1210.5	1098.2	1013.4	951.0	896.0	851.1	811.2	771.2
30°	2166.5	1814.5	1527.5	1325.3	1188.1	1078.2	990.9	926.0	876.1	831.1	791.2
27.5°	2775.5	2166.5	1782.1	1490.1	1282.9	1145.6	1040.8	963.4	901.0	851.1	808.7
25°	3631.6	2713.1	2069.1	1682.3	1417.7	1228.0	1095.7	995.9	926.0	871.1	823.7
22.5°	4612.5	3399.5	2523.4	1934.4	1552.5	1307.9	1153.1	1038.3	955.9	891.0	838.6
20°	6095.1	4240.6	2995.1	2218.9	1737.2	1425.2	1220.5	1080.7	980.9	911.0	853.6
17.5°	7512.8	5288.9	3659.0	2590.8	1931.9	1530.0	1280.4	1123.2	1005.9	928.5	868.6
15°	8972.9	6419.5	4295.5	2925.2	2109.1	1639.8	1350.3	1165.6	1035.8	948.5	881.1
12.5°	10258.3	7450.4	5019.3	3377.0	2373.6	1777.1	1425.2	1205.5	1063.3	963.4	893.5
10°	11371.5	8438.8	5780.6	3801.3	2593.3	1891.9	1485.1	1240.5	1083.2	975.9	901.0
7.5°	12265.0	9222.5	6382.1	4138.3	2768.0	1981.8	1532.5	1267.9	1100.7	988.4	908.5
5°	12916.5	9794.1	6818.9	4380.4	2892.8	2046.7	1567.4	1287.9	1113.2	995.9	913.5
2.5°	13315.8	10258.3	7173.3	4577.5	2995.1	2099.1	1594.9	1302.9	1123.2	1000.9	918.5
0°	13448.1	10258.3	7173.3	4577.5	2995.1	2099.1	1594.9	1302.9	1123.2	1000.9	918.5

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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°	17.5	17.5	15.0	15.0	12.5	12.5	10.0	10.0	7.5	7.5	5.0
85°	39.9	34.9	32.4	30.0	27.5	25.0	22.5	20.0	17.5	15.0	12.5
82.5°	67.4	62.4	54.9	49.9	44.9	39.9	32.4	30.0	25.0	20.0	17.5
80°	94.8	87.4	79.9	72.4	64.9	57.4	49.9	42.4	34.9	27.5	22.5
77.5°	122.3	112.3	104.8	94.8	84.9	74.9	64.9	54.9	44.9	34.9	27.5
75°	154.7	142.3	129.8	117.3	104.8	92.3	82.4	69.9	57.4	44.9	34.9
72.5°	189.7	172.2	157.2	142.3	124.8	112.3	97.3	84.9	69.9	54.9	42.4
70°	227.1	207.2	187.2	167.2	149.8	129.8	114.8	97.3	82.4	64.9	49.9
67.5°	264.6	242.1	219.6	194.7	172.2	152.3	129.8	112.3	92.3	74.9	57.4
65°	309.5	279.5	252.1	224.6	197.2	172.2	149.8	124.8	104.8	84.9	64.9
62.5°	351.9	319.5	287.0	254.6	224.6	194.7	167.2	142.3	117.3	94.8	72.4
60°	394.4	359.4	322.0	287.0	252.1	219.6	187.2	157.2	129.8	104.8	79.9
57.5°	436.8	396.9	359.4	319.5	279.5	242.1	207.2	172.2	142.3	112.3	87.4
55°	474.2	436.8	394.4	351.9	309.5	264.6	227.1	189.7	154.7	122.3	94.8
52.5°	514.2	471.7	429.3	381.9	339.4	289.5	247.1	204.7	167.2	132.3	102.3
50°	551.6	506.7	459.3	414.3	364.4	314.5	267.1	222.1	179.7	142.3	107.3
47.5°	586.5	539.1	491.7	441.8	391.9	339.4	287.0	237.1	192.2	152.3	114.8
45°	616.5	574.1	521.7	469.2	419.3	361.9	307.0	252.1	204.7	162.2	119.8
42.5°	644.0	601.5	551.6	499.2	441.8	384.4	327.0	269.6	217.1	169.7	127.3
40°	668.9	626.5	579.1	521.7	464.2	406.8	344.4	284.5	229.6	179.7	132.3
37.5°	693.9	648.9	601.5	546.6	486.7	426.8	364.4	302.0	242.1	187.2	139.8
35°	713.8	671.4	621.5	569.1	506.7	446.8	381.9	317.0	252.1	194.7	147.3
32.5°	731.3	691.4	644.0	589.0	526.6	461.7	396.9	329.5	262.1	204.7	152.3
30°	748.8	708.8	658.9	606.5	546.6	479.2	411.8	341.9	274.6	212.2	157.2
27.5°	766.3	723.8	676.4	621.5	564.1	494.2	426.8	354.4	284.5	219.6	162.2
25°	781.2	736.3	691.4	636.5	579.1	509.2	439.3	366.9	294.5	227.1	167.2
22.5°	793.7	748.8	703.9	648.9	591.5	521.7	449.3	376.9	302.0	232.1	172.2
20°	806.2	761.3	713.8	661.4	601.5	534.1	459.3	386.9	309.5	237.1	174.7
17.5°	818.7	771.2	723.8	671.4	611.5	544.1	469.2	394.4	317.0	242.1	179.7
15°	828.7	778.7	731.3	678.9	621.5	554.1	476.7	401.8	322.0	247.1	182.2
12.5°	836.1	786.2	738.8	686.4	626.5	561.6	484.2	406.8	327.0	252.1	184.7
10°	843.6	793.7	743.8	693.9	634.0	566.6	489.2	411.8	332.0	254.6	187.2
7.5°	848.6	798.7	748.8	698.9	639.0	571.6	494.2	416.8	334.5	257.1	189.7
5°	853.6	801.2	751.3	701.4	641.5	579.1	499.2	421.8	339.4	259.6	189.7
2.5°	856.1	803.7	753.8	703.9	644.0	579.1	499.2	421.8	339.4	259.6	189.7
0°	856.1	803.7	753.8	703.9	644.0	579.1	499.2	421.8	339.4	259.6	189.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	0.0
85°	7.5	5.0	2.5	0.0
82.5°	12.5	7.5	5.0	0.0
80°	17.5	12.5	5.0	0.0
77.5°	20.0	15.0	7.5	0.0
75°	25.0	17.5	7.5	0.0
72.5°	30.0	20.0	10.0	0.0
70°	32.4	22.5	10.0	0.0
67.5°	39.9	25.0	12.5	0.0
65°	44.9	27.5	12.5	0.0
62.5°	49.9	30.0	15.0	0.0
60°	54.9	32.4	15.0	0.0
57.5°	62.4	34.9	17.5	0.0
55°	67.4	39.9	17.5	0.0
52.5°	72.4	42.4	20.0	0.0
50°	77.4	44.9	20.0	0.0
47.5°	79.9	49.9	22.5	0.0
45°	84.9	52.4	22.5	0.0
42.5°	89.9	54.9	25.0	0.0
40°	94.8	57.4	25.0	0.0
37.5°	99.8	59.9	25.0	0.0
35°	102.3	62.4	27.5	0.0
32.5°	107.3	64.9	27.5	0.0
30°	109.8	67.4	27.5	0.0
27.5°	112.3	69.9	30.0	0.0
25°	114.8	69.9	30.0	0.0
22.5°	117.3	72.4	30.0	0.0
20°	119.8	74.9	30.0	0.0
17.5°	122.3	74.9	30.0	0.0
15°	124.8	77.4	32.4	0.0
12.5°	127.3	77.4	32.4	0.0
10°	127.3	79.9	32.4	0.0
7.5°	129.8	79.9	32.4	0.0
5°	129.8	79.9	32.4	0.0
2.5°	129.8	79.9	32.4	0.0
0°	129.8	79.9	32.4	0.0

(END OF REPORT)