

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: P624043

Luminaire Tested: **IFLD-S-SA2A-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

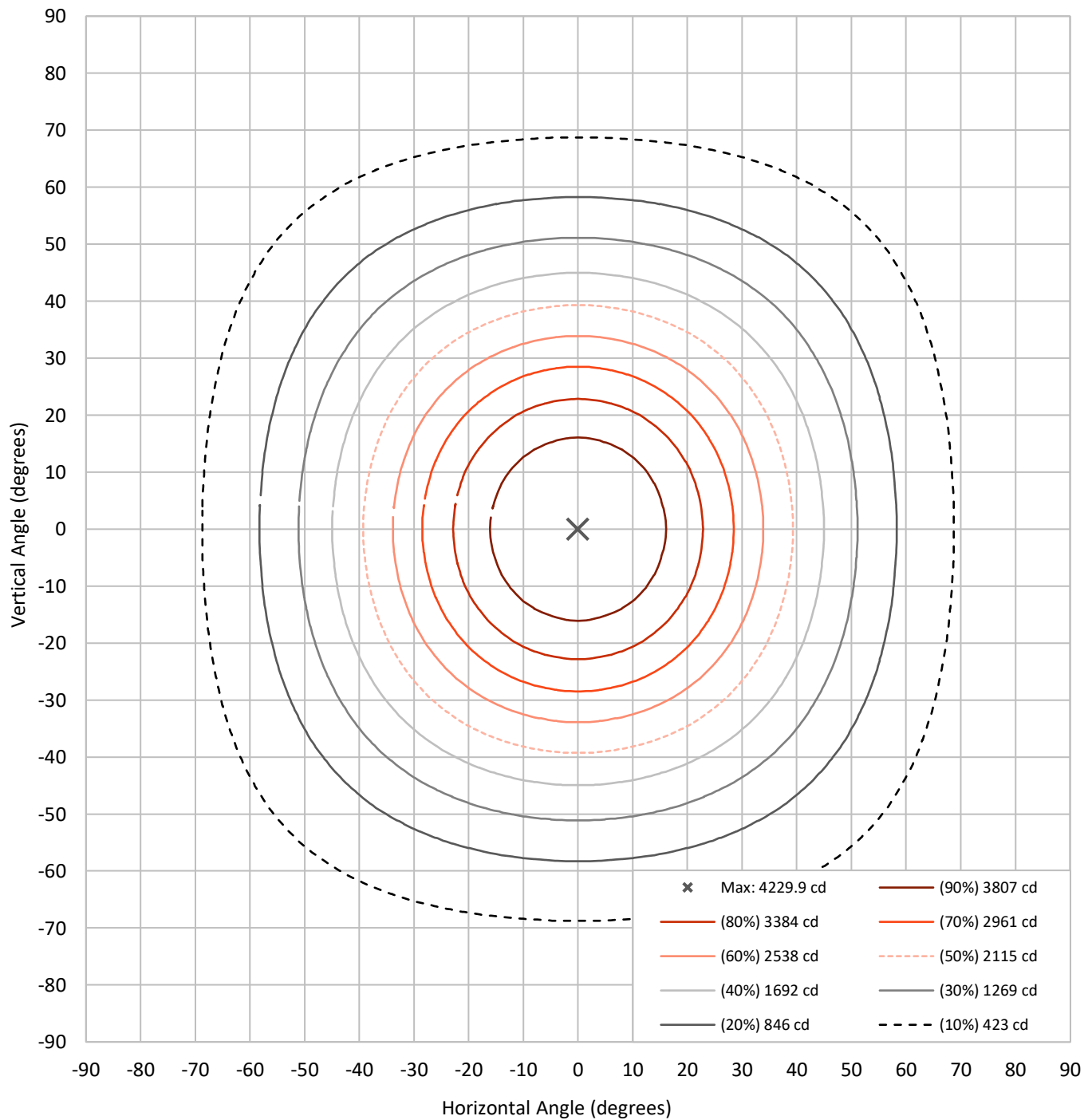
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7616.1 lumens	Max Intensity:	4229.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3295.4 lumens	Field Lumens:	5396.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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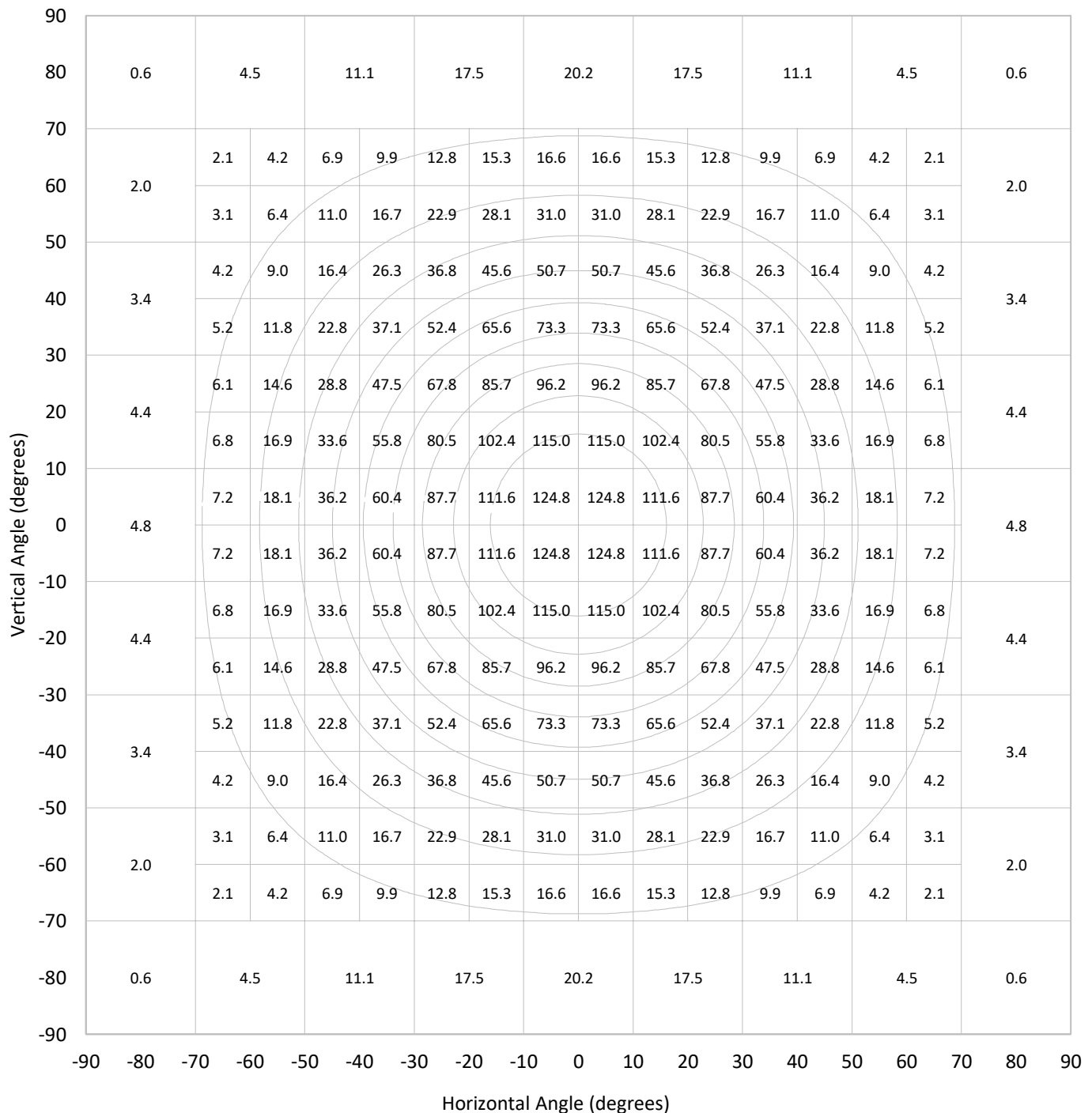
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Iso-Candela Plot



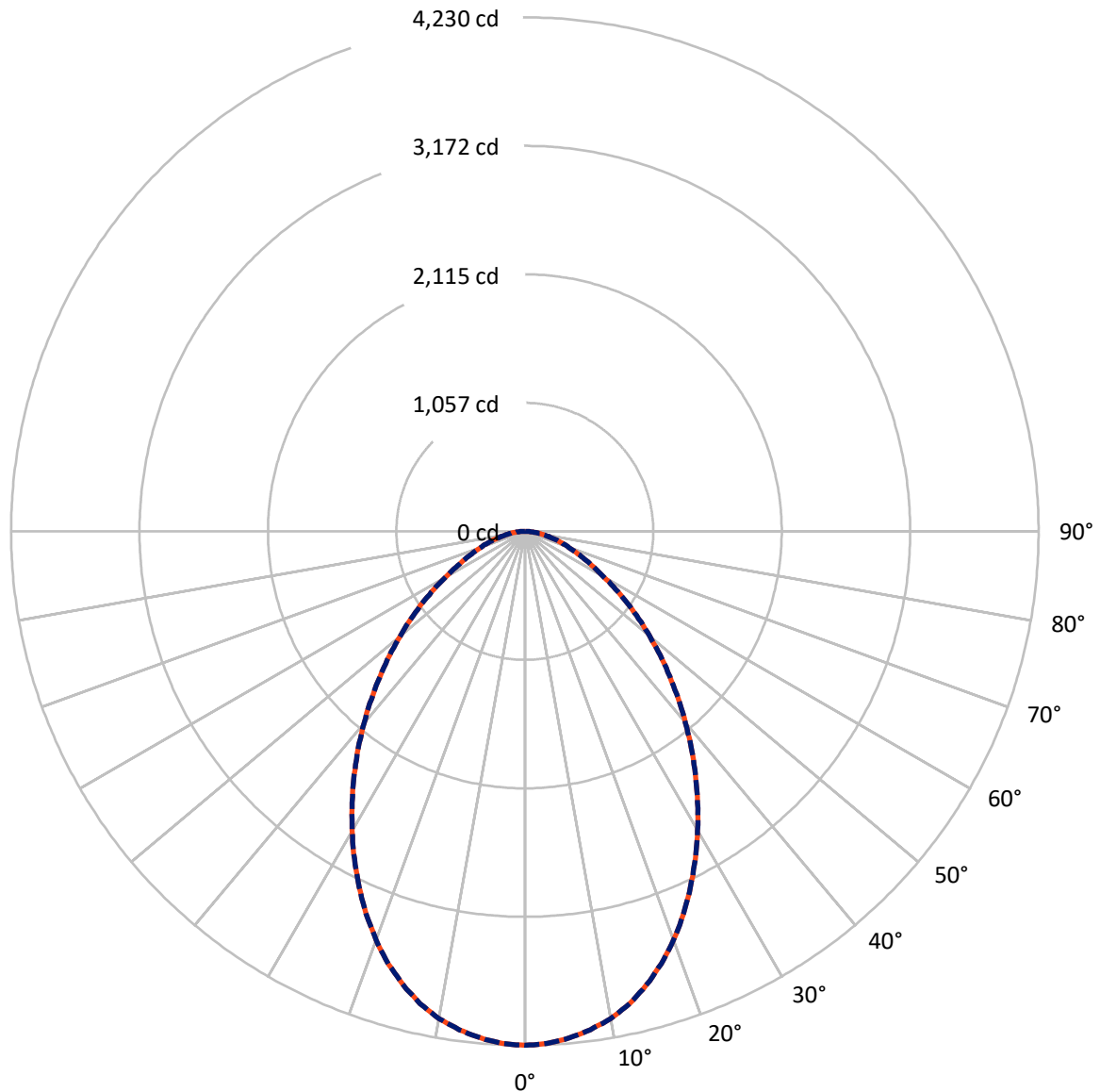
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Lumen Table



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Luminous Intensity Polar Plot

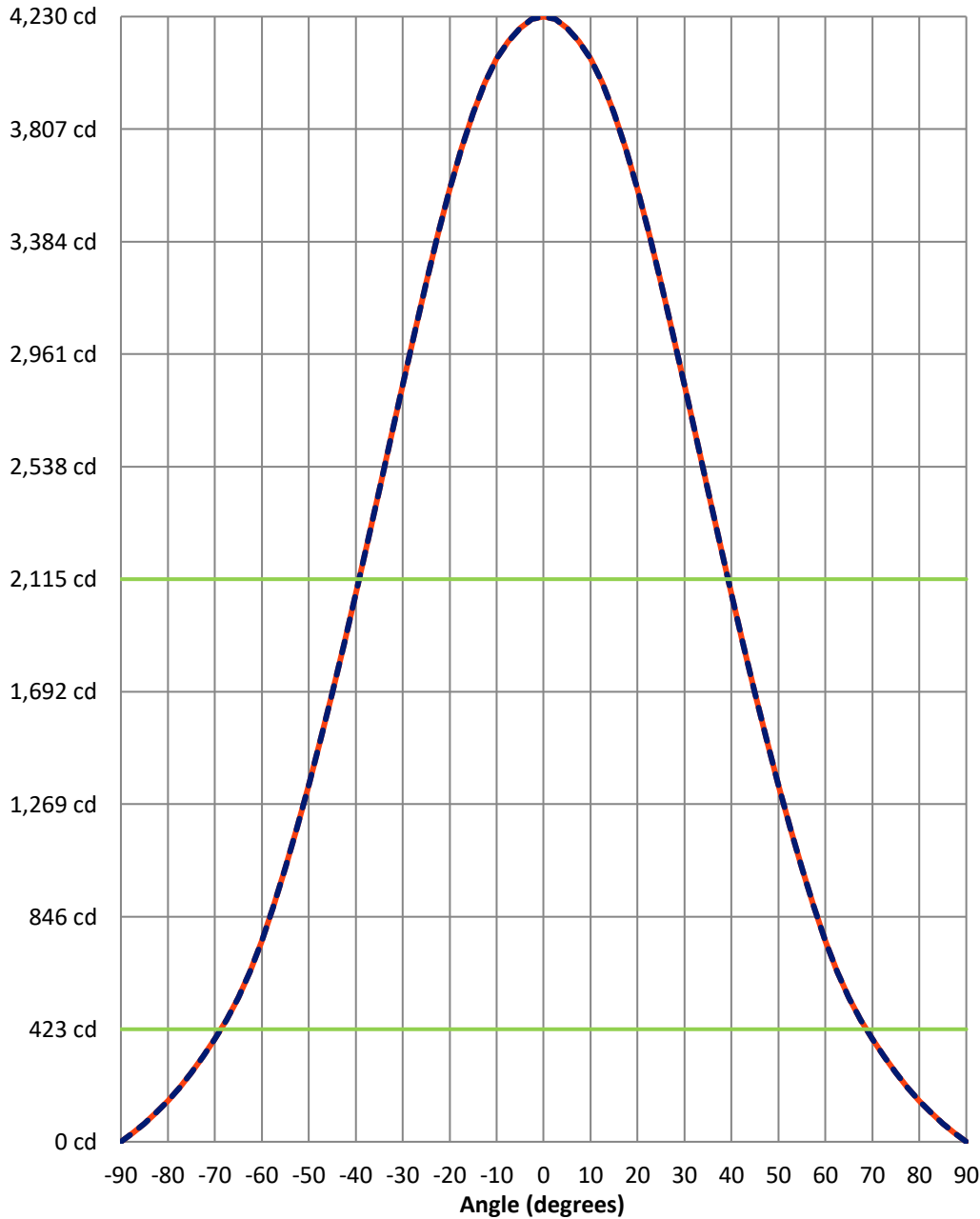


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 3295.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 5396.1
Efficiency: 70.9%

Spill:
Lumens: 2220
Efficiency: 29.1%

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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°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	31.0	31.0	30.2	29.4
85°	68.3	68.3	68.3	68.3	68.3	66.7	65.9	65.1	64.3	62.7	61.9
82.5°	109.6	109.6	109.6	109.6	108.0	106.4	105.6	104.0	102.4	100.1	97.7
80°	153.3	153.3	153.3	153.3	150.9	149.3	146.9	145.3	142.9	139.8	136.6
77.5°	203.3	203.3	203.3	200.9	199.3	196.9	194.5	191.4	188.2	184.2	179.5
75°	259.7	259.7	259.7	256.5	254.1	251.7	247.7	243.8	239.0	233.5	227.1
72.5°	320.8	320.8	320.8	316.8	314.4	310.5	305.7	300.2	294.6	287.4	279.5
70°	386.7	386.7	386.7	381.9	378.0	374.0	367.6	361.3	353.4	345.4	335.9
67.5°	458.2	458.2	458.2	452.6	447.8	442.3	435.1	427.2	417.7	406.6	395.4
65°	541.5	541.5	538.4	533.6	528.0	520.1	511.4	500.3	488.3	474.1	459.0
62.5°	640.0	640.0	635.2	629.7	622.5	612.2	600.3	586.0	569.3	551.1	532.8
60°	754.4	754.4	748.8	741.6	731.3	718.6	702.7	684.5	663.8	640.8	618.6
57.5°	886.2	886.2	879.0	869.5	856.8	840.9	821.1	798.0	771.8	743.2	715.4
55°	1029.1	1029.1	1020.4	1009.2	994.2	975.1	951.3	924.3	892.5	860.0	824.2
52.5°	1180.8	1180.8	1170.4	1157.7	1140.3	1118.0	1091.0	1059.3	1022.7	984.6	942.5
50°	1340.4	1340.4	1328.5	1314.2	1294.3	1268.1	1237.1	1200.6	1160.1	1115.6	1067.2
47.5°	1511.1	1511.1	1497.6	1480.9	1457.1	1426.9	1390.4	1348.3	1302.2	1252.2	1197.4
45°	1686.6	1686.6	1671.5	1652.4	1626.2	1592.1	1551.6	1511.1	1452.3	1394.4	1330.8
42.5°	1869.2	1869.2	1851.7	1830.3	1800.1	1762.8	1716.7	1664.3	1606.4	1541.3	1472.2
40°	2059.0	2059.0	2039.1	2014.5	1981.2	1938.3	1886.7	1827.9	1762.8	1690.5	1614.3
37.5°	2252.7	2252.7	2230.5	2203.5	2166.2	2118.5	2060.6	1995.5	1922.4	1842.2	1758.0
35°	2448.1	2448.1	2423.5	2394.1	2352.8	2300.4	2237.6	2165.4	2084.4	1997.0	1902.6
32.5°	2647.4	2647.4	2620.4	2587.0	2540.2	2482.2	2413.1	2334.5	2252.7	2151.1	2047.9
30°	2844.3	2844.3	2814.9	2778.4	2728.4	2664.8	2589.4	2502.9	2406.8	2302.8	2191.6
27.5°	3038.1	3030.1	3005.5	2966.6	2911.8	2844.3	2762.5	2668.8	2564.8	2450.5	2331.3
25°	3228.6	3219.9	3192.9	3150.0	3091.3	3017.4	2929.3	2829.2	2717.3	2596.6	2466.3
22.5°	3411.3	3401.7	3373.1	3327.1	3264.4	3184.2	3089.7	2982.5	2863.4	2733.9	2596.6
20°	3580.4	3570.1	3540.7	3492.3	3427.1	3342.2	3242.1	3127.0	2999.9	2863.4	2717.3
17.5°	3732.9	3722.5	3691.6	3641.5	3580.4	3485.9	3382.7	3261.2	3127.0	2982.5	2829.2
15°	3867.0	3855.9	3824.2	3774.1	3704.3	3615.3	3506.5	3382.7	3242.1	3089.7	2929.3
12.5°	3981.4	3970.3	3937.7	3887.7	3815.4	3726.5	3615.3	3485.9	3342.2	3184.2	3017.4
10°	4071.9	4060.8	4029.8	3982.2	3907.5	3815.4	3704.3	3580.4	3427.1	3264.4	3091.3
7.5°	4137.0	4126.7	4098.1	4050.5	3982.2	3887.7	3774.1	3641.5	3492.3	3327.1	3150.0
5°	4186.3	4174.3	4145.8	4098.1	4029.8	3937.7	3824.2	3691.6	3540.7	3373.1	3192.9
2.5°	4220.4	4206.1	4174.3	4126.7	4060.8	3970.3	3855.9	3722.5	3570.1	3401.7	3219.9
0°	4229.9	4220.4	4186.3	4137.0	4071.9	3981.4	3867.0	3732.9	3580.4	3411.3	3228.6

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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°	28.6	28.6	27.8	27.0	26.2	24.6	23.8	23.0	22.2	20.6	19.9
85°	60.3	58.8	57.2	55.6	53.2	51.6	49.2	47.6	45.3	42.9	40.5
82.5°	95.3	92.9	89.7	87.3	84.2	80.2	77.0	73.1	69.1	65.9	61.9
80°	133.4	129.4	125.5	121.5	116.7	112.0	107.2	102.4	96.9	91.3	85.8
77.5°	174.7	169.1	163.6	157.2	151.7	145.3	139.0	132.6	125.5	118.3	111.2
75°	220.7	213.6	205.7	197.7	190.6	181.8	173.1	164.4	154.8	146.1	136.6
72.5°	270.8	262.0	252.5	243.0	232.7	221.5	210.4	198.5	187.4	176.3	164.4
70°	324.8	314.4	302.5	290.6	277.9	264.4	250.9	236.6	222.3	208.0	193.7
67.5°	382.7	370.0	355.7	341.4	325.6	309.7	293.8	277.1	259.7	242.2	225.5
65°	444.7	428.8	412.1	393.9	375.6	357.3	338.3	318.4	298.6	277.9	259.7
62.5°	513.8	493.9	472.5	450.2	429.6	407.3	386.7	362.1	338.3	315.2	292.2
60°	594.0	567.7	541.5	513.8	487.5	459.0	433.6	406.6	379.6	353.4	326.4
57.5°	683.7	650.3	618.6	585.2	550.3	518.5	486.0	453.4	423.2	392.3	362.9
55°	785.3	744.8	705.1	663.8	623.3	583.6	542.3	505.8	468.5	433.6	399.4
52.5°	896.5	850.4	801.2	754.4	702.7	653.5	607.5	561.4	517.7	475.6	436.7
50°	1015.6	961.6	905.2	848.1	789.3	731.3	675.7	621.7	570.9	521.7	475.6
47.5°	1139.5	1078.3	1014.0	948.9	886.2	815.5	748.8	687.7	626.5	570.9	517.7
45°	1266.5	1197.4	1126.8	1052.9	979.1	902.8	829.0	754.4	687.7	621.7	561.4
42.5°	1397.5	1319.7	1241.1	1159.3	1077.5	994.2	910.8	829.0	748.8	675.7	607.5
40°	1532.5	1446.8	1357.0	1268.1	1180.8	1085.5	994.2	902.8	815.5	731.3	653.5
37.5°	1667.5	1573.8	1476.9	1376.9	1276.8	1180.8	1077.5	979.1	886.2	789.3	702.7
35°	1803.3	1700.1	1595.3	1486.5	1376.9	1268.1	1159.3	1052.9	948.9	848.1	754.4
32.5°	1939.9	1827.1	1711.2	1595.3	1476.9	1357.0	1241.1	1126.8	1014.0	905.2	801.2
30°	2074.1	1951.8	1827.1	1700.1	1573.8	1446.8	1319.7	1197.4	1078.3	961.6	850.4
27.5°	2205.1	2074.1	1939.9	1803.3	1667.5	1532.5	1397.5	1266.5	1139.5	1015.6	896.5
25°	2331.3	2191.6	2047.9	1902.6	1758.0	1614.3	1472.2	1330.8	1197.4	1067.2	942.5
22.5°	2450.5	2302.8	2151.1	1997.0	1842.2	1690.5	1541.3	1394.4	1252.2	1115.6	984.6
20°	2564.8	2406.8	2252.7	2084.4	1922.4	1762.8	1606.4	1452.3	1302.2	1160.1	1022.7
17.5°	2668.8	2502.9	2334.5	2165.4	1995.5	1827.9	1664.3	1511.1	1348.3	1200.6	1059.3
15°	2762.5	2589.4	2413.1	2237.6	2060.6	1886.7	1716.7	1551.6	1390.4	1237.1	1091.0
12.5°	2844.3	2664.8	2482.2	2300.4	2118.5	1938.3	1762.8	1592.1	1426.9	1268.1	1118.0
10°	2911.8	2728.4	2540.2	2352.8	2166.2	1981.2	1800.1	1626.2	1457.1	1294.3	1140.3
7.5°	2966.6	2778.4	2587.0	2394.1	2203.5	2014.5	1830.3	1652.4	1480.9	1314.2	1157.7
5°	3005.5	2814.9	2620.4	2423.5	2230.5	2039.1	1851.7	1671.5	1497.6	1328.5	1170.4
2.5°	3030.1	2844.3	2647.4	2448.1	2252.7	2059.0	1869.2	1686.6	1511.1	1340.4	1180.8
0°	3038.1	2844.3	2647.4	2448.1	2252.7	2059.0	1869.2	1686.6	1511.1	1340.4	1180.8

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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°	19.1	17.5	15.9	15.1	13.5	12.7	11.1	9.5	8.7	7.1	5.6
85°	38.1	34.9	32.6	30.2	27.8	24.6	22.2	19.9	16.7	14.3	11.1
82.5°	58.0	54.0	50.0	46.1	42.1	38.1	33.4	29.4	25.4	21.4	16.7
80°	80.2	73.8	68.3	62.7	57.2	51.6	45.3	39.7	33.4	27.8	22.2
77.5°	103.2	96.1	88.1	80.2	72.3	65.1	57.2	50.0	42.9	34.9	27.8
75°	127.8	118.3	109.6	99.3	89.7	79.4	69.9	60.3	51.6	42.9	33.4
72.5°	153.3	141.3	129.4	118.3	106.4	94.5	83.4	71.5	60.3	50.0	39.7
70°	179.5	165.2	150.9	137.4	123.9	109.6	96.9	83.4	69.9	57.2	45.3
67.5°	207.2	190.6	173.9	156.4	141.3	125.5	109.6	94.5	79.4	65.1	51.6
65°	237.4	217.6	196.9	178.7	158.8	141.3	123.9	106.4	89.7	72.3	57.2
62.5°	268.4	245.4	222.3	199.3	178.7	156.4	137.4	118.3	99.3	80.2	62.7
60°	300.2	273.9	247.7	222.3	196.9	173.9	150.9	129.4	109.6	88.1	68.3
57.5°	332.7	303.3	273.9	245.4	217.6	190.6	165.2	141.3	118.3	96.1	73.8
55°	366.1	332.7	300.2	268.4	237.4	207.2	179.5	153.3	127.8	103.2	80.2
52.5°	399.4	362.9	326.4	292.2	259.7	225.5	193.7	164.4	136.6	111.2	85.8
50°	433.6	392.3	353.4	315.2	277.9	242.2	208.0	176.3	146.1	118.3	91.3
47.5°	468.5	423.2	379.6	338.3	298.6	259.7	222.3	187.4	154.8	125.5	96.9
45°	505.8	453.4	406.6	362.1	318.4	277.1	236.6	198.5	164.4	132.6	102.4
42.5°	542.3	486.0	433.6	386.7	338.3	293.8	250.9	210.4	173.1	139.0	107.2
40°	583.6	518.5	459.0	407.3	357.3	309.7	264.4	221.5	181.8	145.3	112.0
37.5°	623.3	550.3	487.5	429.6	375.6	325.6	277.9	232.7	190.6	151.7	116.7
35°	663.8	585.2	513.8	450.2	393.9	341.4	290.6	243.0	197.7	157.2	121.5
32.5°	705.1	618.6	541.5	472.5	412.1	355.7	302.5	252.5	205.7	163.6	125.5
30°	744.8	650.3	567.7	493.9	428.8	370.0	314.4	262.0	213.6	169.1	129.4
27.5°	785.3	683.7	594.0	513.8	444.7	382.7	324.8	270.8	220.7	174.7	133.4
25°	824.2	715.4	618.6	532.8	459.0	395.4	335.9	279.5	227.1	179.5	136.6
22.5°	860.0	743.2	640.8	551.1	474.1	406.6	345.4	287.4	233.5	184.2	139.8
20°	892.5	771.8	663.8	569.3	488.3	417.7	353.4	294.6	239.0	188.2	142.9
17.5°	924.3	798.0	684.5	586.0	500.3	427.2	361.3	300.2	243.8	191.4	145.3
15°	951.3	821.1	702.7	600.3	511.4	435.1	367.6	305.7	247.7	194.5	146.9
12.5°	975.1	840.9	718.6	612.2	520.1	442.3	374.0	310.5	251.7	196.9	149.3
10°	994.2	856.8	731.3	622.5	528.0	447.8	378.0	314.4	254.1	199.3	150.9
7.5°	1009.2	869.5	741.6	629.7	533.6	452.6	381.9	316.8	256.5	200.9	153.3
5°	1020.4	879.0	748.8	635.2	538.4	458.2	386.7	320.8	259.7	203.3	153.3
2.5°	1029.1	886.2	754.4	640.0	541.5	458.2	386.7	320.8	259.7	203.3	153.3
0°	1029.1	886.2	754.4	640.0	541.5	458.2	386.7	320.8	259.7	203.3	153.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.0	3.2	1.6	0.0
85°	8.7	5.6	3.2	0.0
82.5°	12.7	8.7	4.0	0.0
80°	16.7	11.1	5.6	0.0
77.5°	21.4	14.3	7.1	0.0
75°	25.4	16.7	8.7	0.0
72.5°	29.4	19.9	9.5	0.0
70°	33.4	22.2	11.1	0.0
67.5°	38.1	24.6	12.7	0.0
65°	42.1	27.8	13.5	0.0
62.5°	46.1	30.2	15.1	0.0
60°	50.0	32.6	15.9	0.0
57.5°	54.0	34.9	17.5	0.0
55°	58.0	38.1	19.1	0.0
52.5°	61.9	40.5	19.9	0.0
50°	65.9	42.9	20.6	0.0
47.5°	69.1	45.3	22.2	0.0
45°	73.1	47.6	23.0	0.0
42.5°	77.0	49.2	23.8	0.0
40°	80.2	51.6	24.6	0.0
37.5°	84.2	53.2	26.2	0.0
35°	87.3	55.6	27.0	0.0
32.5°	89.7	57.2	27.8	0.0
30°	92.9	58.8	28.6	0.0
27.5°	95.3	60.3	28.6	0.0
25°	97.7	61.9	29.4	0.0
22.5°	100.1	62.7	30.2	0.0
20°	102.4	64.3	31.0	0.0
17.5°	104.0	65.1	31.0	0.0
15°	105.6	65.9	32.6	0.0
12.5°	106.4	66.7	32.6	0.0
10°	108.0	68.3	32.6	0.0
7.5°	109.6	68.3	32.6	0.0
5°	109.6	68.3	32.6	0.0
2.5°	109.6	68.3	32.6	0.0
0°	109.6	68.3	32.6	0.0

(END OF REPORT)