

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: P623900

Luminaire Tested: **IFLD-S-SA2C-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

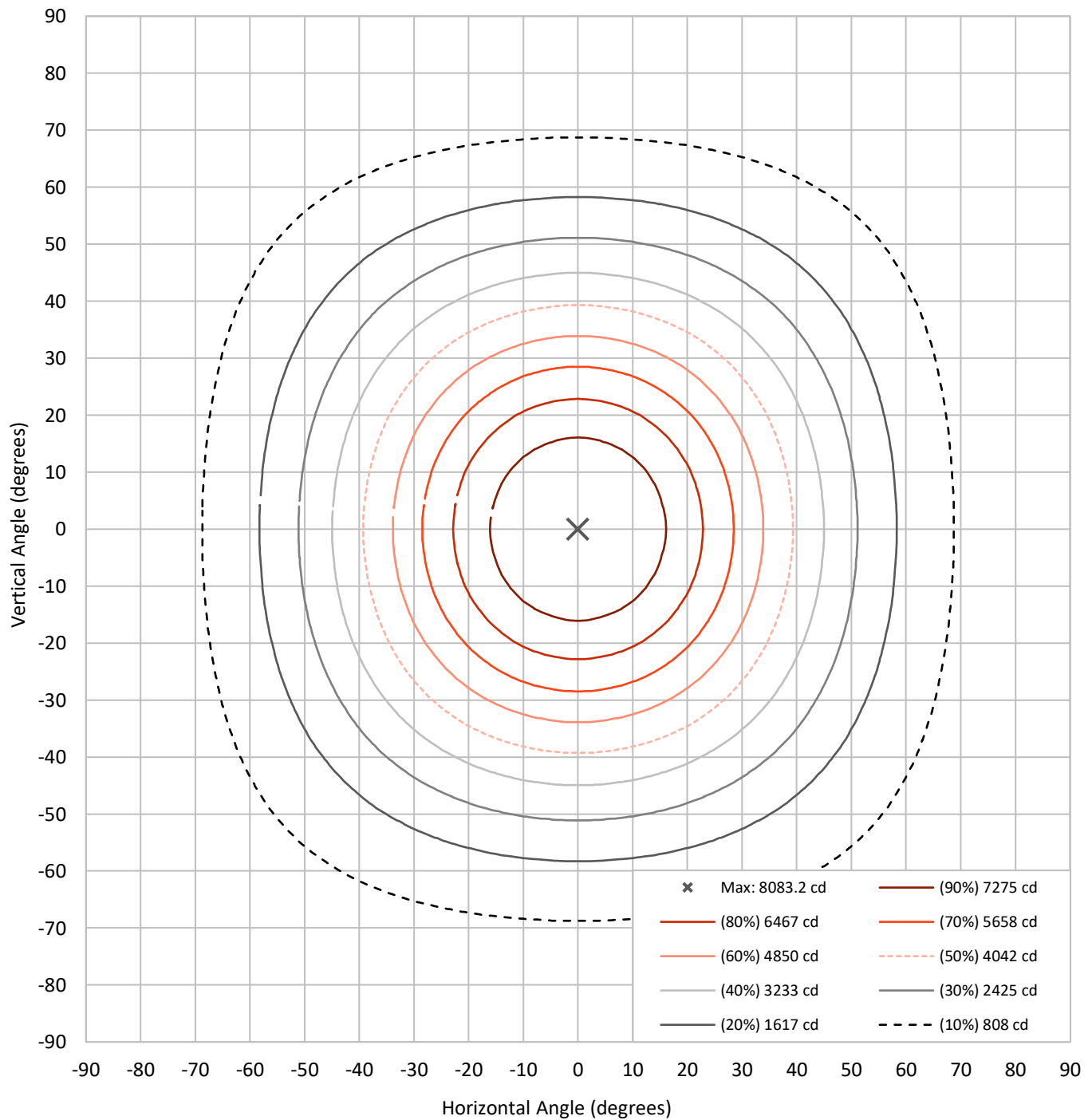
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14554 lumens	Max Intensity:	8083.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.5 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:	6297.4 lumens	Field Lumens:	10311.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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		



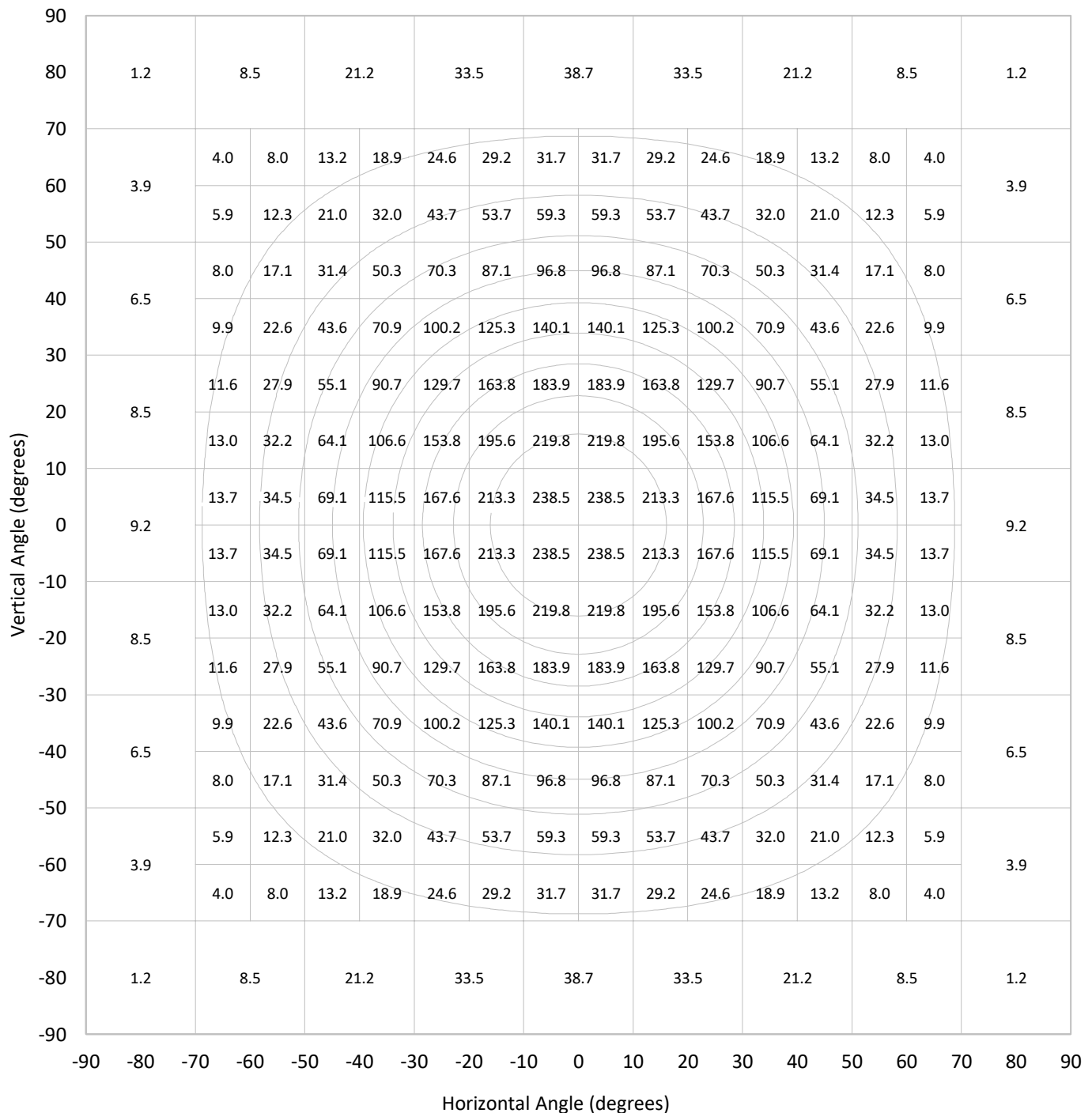
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Iso-Candela Plot



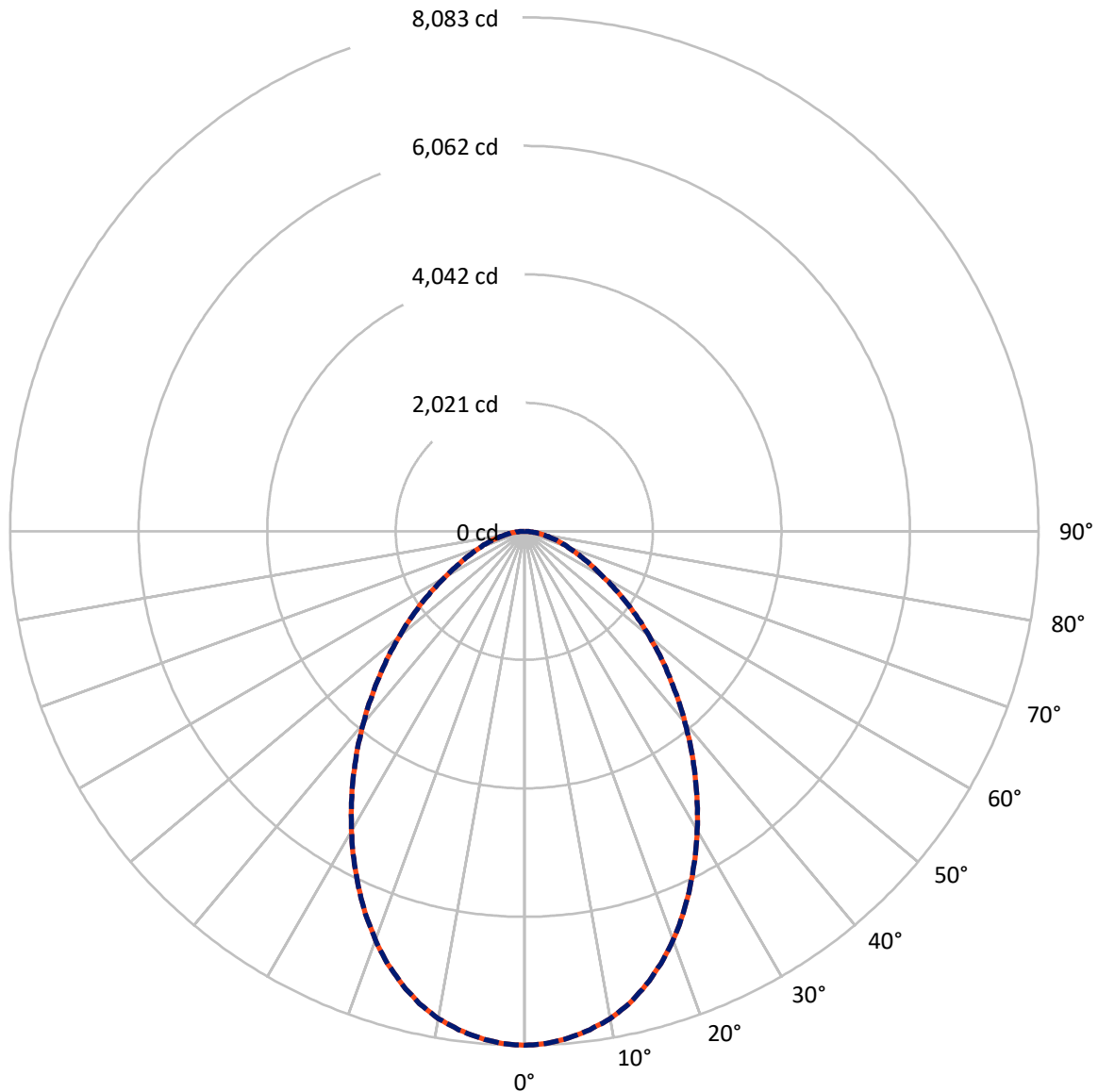
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Lumen Table



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Luminous Intensity Polar Plot

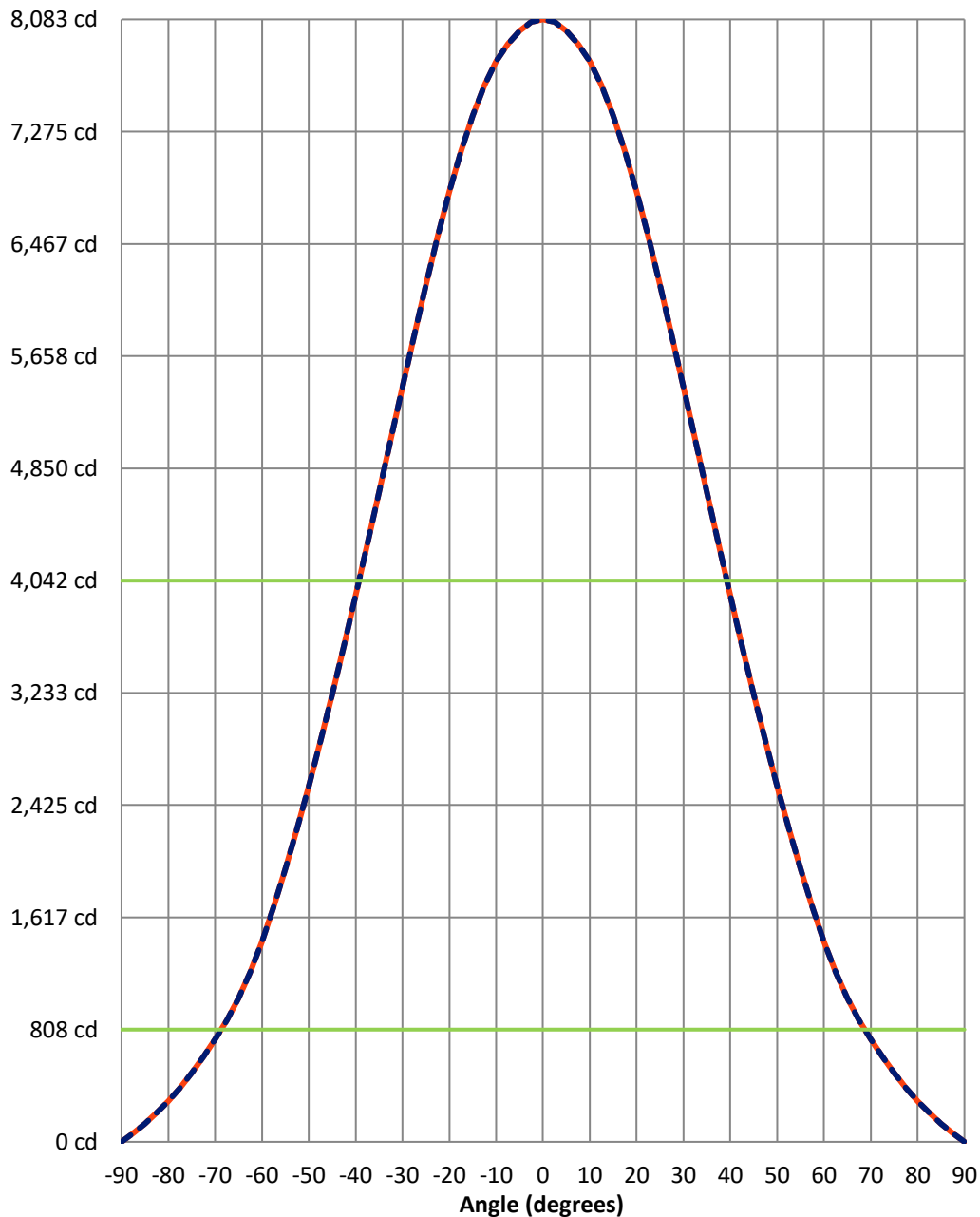


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6297.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10311.8
Efficiency: 70.9%

Spill:

Lumens: 4242.3
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-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°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	59.2	59.2	57.7	56.1
85°	130.5	130.5	130.5	130.5	130.5	127.5	125.9	124.4	122.9	119.9	118.4
82.5°	209.4	209.4	209.4	209.4	206.4	203.3	201.8	198.8	195.7	191.2	186.6
80°	292.9	292.9	292.9	292.9	288.3	285.3	280.7	277.7	273.1	267.1	261.0
77.5°	388.5	388.5	388.5	383.9	380.9	376.3	371.8	365.7	359.6	352.0	342.9
75°	496.2	496.2	496.2	490.1	485.6	481.0	473.4	465.8	456.7	446.1	434.0
72.5°	613.0	613.0	613.0	605.4	600.9	593.3	584.2	573.6	563.0	549.3	534.1
70°	739.0	739.0	739.0	729.9	722.3	714.7	702.6	690.4	675.2	660.1	641.9
67.5°	875.5	875.5	875.5	864.9	855.8	845.2	831.5	816.4	798.2	776.9	755.7
65°	1034.9	1034.9	1028.8	1019.7	1009.1	993.9	977.2	956.0	933.2	905.9	877.1
62.5°	1223.0	1223.0	1213.9	1203.3	1189.6	1169.9	1147.2	1119.8	1088.0	1053.1	1018.2
60°	1441.5	1441.5	1430.9	1417.3	1397.5	1373.3	1342.9	1308.0	1268.6	1224.5	1182.1
57.5°	1693.4	1693.4	1679.8	1661.6	1637.3	1606.9	1569.0	1525.0	1474.9	1420.3	1367.2
55°	1966.6	1966.6	1949.9	1928.6	1899.8	1863.4	1817.9	1766.3	1705.6	1643.4	1575.1
52.5°	2256.4	2256.4	2236.7	2212.4	2179.0	2136.5	2084.9	2024.2	1954.4	1881.6	1801.2
50°	2561.4	2561.4	2538.6	2511.3	2473.4	2423.3	2364.1	2294.3	2216.9	2132.0	2039.4
47.5°	2887.6	2887.6	2861.8	2830.0	2784.4	2726.8	2657.0	2576.6	2488.6	2393.0	2288.3
45°	3223.0	3223.0	3194.1	3157.7	3107.7	3042.4	2965.0	2887.6	2775.3	2664.6	2543.2
42.5°	3572.0	3572.0	3538.6	3497.6	3440.0	3368.6	3280.6	3180.5	3069.7	2945.3	2813.3
40°	3934.6	3934.6	3896.7	3849.7	3785.9	3704.0	3605.4	3493.1	3368.6	3230.6	3084.9
37.5°	4304.9	4304.9	4262.4	4210.8	4139.5	4048.4	3937.7	3813.2	3673.6	3520.4	3359.5
35°	4678.2	4678.2	4631.1	4575.0	4496.1	4395.9	4276.1	4138.0	3983.2	3816.3	3635.7
32.5°	5059.0	5059.0	5007.5	4943.7	4854.2	4743.4	4611.4	4461.2	4304.9	4110.7	3913.4
30°	5435.4	5435.4	5379.2	5309.4	5213.8	5092.4	4948.3	4782.9	4599.3	4400.5	4188.0
27.5°	5805.6	5790.4	5743.4	5669.0	5564.3	5435.4	5279.1	5100.0	4901.2	4682.7	4455.1
25°	6169.8	6153.1	6101.5	6019.6	5907.3	5766.2	5597.7	5406.5	5192.6	4961.9	4713.1
22.5°	6518.8	6500.6	6446.0	6357.9	6238.1	6084.8	5904.2	5699.4	5471.8	5224.4	4961.9
20°	6842.0	6822.3	6766.1	6673.6	6549.1	6386.8	6195.6	5975.6	5732.8	5471.8	5192.6
17.5°	7133.3	7113.6	7054.4	6958.8	6842.0	6661.4	6464.2	6232.0	5975.6	5699.4	5406.5
15°	7389.8	7368.5	7307.8	7212.2	7078.7	6908.8	6700.9	6464.2	6195.6	5904.2	5597.7
12.5°	7608.3	7587.0	7524.8	7429.2	7291.2	7121.2	6908.8	6661.4	6386.8	6084.8	5766.2
10°	7781.3	7760.0	7700.9	7609.8	7467.2	7291.2	7078.7	6842.0	6549.1	6238.1	5907.3
7.5°	7905.7	7886.0	7831.3	7740.3	7609.8	7429.2	7212.2	6958.8	6673.6	6357.9	6019.6
5°	7999.8	7977.0	7922.4	7831.3	7700.9	7524.8	7307.8	7054.4	6766.1	6446.0	6101.5
2.5°	8065.0	8037.7	7977.0	7886.0	7760.0	7587.0	7368.5	7113.6	6822.3	6500.6	6153.1
0°	8083.2	8065.0	7999.8	7905.7	7781.3	7608.3	7389.8	7133.3	6842.0	6518.8	6169.8

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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°	54.6	54.6	53.1	51.6	50.1	47.0	45.5	44.0	42.5	39.5	37.9
85°	115.3	112.3	109.3	106.2	101.7	98.6	94.1	91.0	86.5	81.9	77.4
82.5°	182.1	177.5	171.5	166.9	160.8	153.3	147.2	139.6	132.0	125.9	118.4
80°	254.9	247.3	239.8	232.2	223.1	214.0	204.9	195.7	185.1	174.5	163.9
77.5°	333.8	323.2	312.6	300.4	289.8	277.7	265.5	253.4	239.8	226.1	212.4
75°	421.8	408.2	393.0	377.8	364.2	347.5	330.8	314.1	295.9	279.2	261.0
72.5°	517.4	500.7	482.5	464.3	444.6	423.4	402.1	379.4	358.1	336.9	314.1
70°	620.6	600.9	578.1	555.4	531.1	505.3	479.5	452.2	424.9	397.6	370.2
67.5°	731.4	707.1	679.8	652.5	622.1	591.8	561.4	529.6	496.2	462.8	430.9
65°	849.7	819.4	787.5	752.6	717.7	682.8	646.4	608.5	570.5	531.1	496.2
62.5°	981.8	943.8	902.9	860.4	820.9	778.4	739.0	691.9	646.4	602.4	558.4
60°	1135.0	1084.9	1034.9	981.8	931.7	877.1	828.5	776.9	725.3	675.2	623.7
57.5°	1306.5	1242.8	1182.1	1118.3	1051.6	990.9	928.7	866.4	808.8	749.6	693.5
55°	1500.7	1423.3	1347.5	1268.6	1191.2	1115.3	1036.4	966.6	895.3	828.5	763.3
52.5°	1713.2	1625.1	1531.1	1441.5	1342.9	1248.8	1160.8	1072.8	989.4	908.9	834.6
50°	1940.8	1837.6	1729.8	1620.6	1508.3	1397.5	1291.3	1188.1	1091.0	996.9	908.9
47.5°	2177.5	2060.6	1937.7	1813.3	1693.4	1558.4	1430.9	1314.1	1197.2	1091.0	989.4
45°	2420.3	2288.3	2153.2	2012.1	1871.0	1725.3	1584.2	1441.5	1314.1	1188.1	1072.8
42.5°	2670.6	2521.9	2371.7	2215.4	2059.1	1899.8	1740.5	1584.2	1430.9	1291.3	1160.8
40°	2928.6	2764.7	2593.3	2423.3	2256.4	2074.3	1899.8	1725.3	1558.4	1397.5	1248.8
37.5°	3186.6	3007.5	2822.4	2631.2	2440.0	2256.4	2059.1	1871.0	1693.4	1508.3	1342.9
35°	3446.0	3248.8	3048.5	2840.6	2631.2	2423.3	2215.4	2012.1	1813.3	1620.6	1441.5
32.5°	3707.0	3491.6	3270.0	3048.5	2822.4	2593.3	2371.7	2153.2	1937.7	1729.8	1531.1
30°	3963.5	3729.8	3491.6	3248.8	3007.5	2764.7	2521.9	2288.3	2060.6	1837.6	1625.1
27.5°	4213.8	3963.5	3707.0	3446.0	3186.6	2928.6	2670.6	2420.3	2177.5	1940.8	1713.2
25°	4455.1	4188.0	3913.4	3635.7	3359.5	3084.9	2813.3	2543.2	2288.3	2039.4	1801.2
22.5°	4682.7	4400.5	4110.7	3816.3	3520.4	3230.6	2945.3	2664.6	2393.0	2132.0	1881.6
20°	4901.2	4599.3	4304.9	3983.2	3673.6	3368.6	3069.7	2775.3	2488.6	2216.9	1954.4
17.5°	5100.0	4782.9	4461.2	4138.0	3813.2	3493.1	3180.5	2887.6	2576.6	2294.3	2024.2
15°	5279.1	4948.3	4611.4	4276.1	3937.7	3605.4	3280.6	2965.0	2657.0	2364.1	2084.9
12.5°	5435.4	5092.4	4743.4	4395.9	4048.4	3704.0	3368.6	3042.4	2726.8	2423.3	2136.5
10°	5564.3	5213.8	4854.2	4496.1	4139.5	3785.9	3440.0	3107.7	2784.4	2473.4	2179.0
7.5°	5669.0	5309.4	4943.7	4575.0	4210.8	3849.7	3497.6	3157.7	2830.0	2511.3	2212.4
5°	5743.4	5379.2	5007.5	4631.1	4262.4	3896.7	3538.6	3194.1	2861.8	2538.6	2236.7
2.5°	5790.4	5435.4	5059.0	4678.2	4304.9	3934.6	3572.0	3223.0	2887.6	2561.4	2256.4
0°	5805.6	5435.4	5059.0	4678.2	4304.9	3934.6	3572.0	3223.0	2887.6	2561.4	2256.4

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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°	36.4	33.4	30.3	28.8	25.8	24.3	21.2	18.2	16.7	13.7	10.6
85°	72.8	66.8	62.2	57.7	53.1	47.0	42.5	37.9	31.9	27.3	21.2
82.5°	110.8	103.2	95.6	88.0	80.4	72.8	63.7	56.1	48.6	41.0	31.9
80°	153.3	141.1	130.5	119.9	109.3	98.6	86.5	75.9	63.7	53.1	42.5
77.5°	197.3	183.6	168.4	153.3	138.1	124.4	109.3	95.6	81.9	66.8	53.1
75°	244.3	226.1	209.4	189.7	171.5	151.7	133.5	115.3	98.6	81.9	63.7
72.5°	292.9	270.1	247.3	226.1	203.3	180.6	159.3	136.6	115.3	95.6	75.9
70°	342.9	315.6	288.3	262.5	236.7	209.4	185.1	159.3	133.5	109.3	86.5
67.5°	396.0	364.2	332.3	298.9	270.1	239.8	209.4	180.6	151.7	124.4	98.6
65°	453.7	415.8	376.3	341.4	303.5	270.1	236.7	203.3	171.5	138.1	109.3
62.5°	512.9	468.9	424.9	380.9	341.4	298.9	262.5	226.1	189.7	153.3	119.9
60°	573.6	523.5	473.4	424.9	376.3	332.3	288.3	247.3	209.4	168.4	130.5
57.5°	635.8	579.7	523.5	468.9	415.8	364.2	315.6	270.1	226.1	183.6	141.1
55°	699.5	635.8	573.6	512.9	453.7	396.0	342.9	292.9	244.3	197.3	153.3
52.5°	763.3	693.5	623.7	558.4	496.2	430.9	370.2	314.1	261.0	212.4	163.9
50°	828.5	749.6	675.2	602.4	531.1	462.8	397.6	336.9	279.2	226.1	174.5
47.5°	895.3	808.8	725.3	646.4	570.5	496.2	424.9	358.1	295.9	239.8	185.1
45°	966.6	866.4	776.9	691.9	608.5	529.6	452.2	379.4	314.1	253.4	195.7
42.5°	1036.4	928.7	828.5	739.0	646.4	561.4	479.5	402.1	330.8	265.5	204.9
40°	1115.3	990.9	877.1	778.4	682.8	591.8	505.3	423.4	347.5	277.7	214.0
37.5°	1191.2	1051.6	931.7	820.9	717.7	622.1	531.1	444.6	364.2	289.8	223.1
35°	1268.6	1118.3	981.8	860.4	752.6	652.5	555.4	464.3	377.8	300.4	232.2
32.5°	1347.5	1182.1	1034.9	902.9	787.5	679.8	578.1	482.5	393.0	312.6	239.8
30°	1423.3	1242.8	1084.9	943.8	819.4	707.1	600.9	500.7	408.2	323.2	247.3
27.5°	1500.7	1306.5	1135.0	981.8	849.7	731.4	620.6	517.4	421.8	333.8	254.9
25°	1575.1	1367.2	1182.1	1018.2	877.1	755.7	641.9	534.1	434.0	342.9	261.0
22.5°	1643.4	1420.3	1224.5	1053.1	905.9	776.9	660.1	549.3	446.1	352.0	267.1
20°	1705.6	1474.9	1268.6	1088.0	933.2	798.2	675.2	563.0	456.7	359.6	273.1
17.5°	1766.3	1525.0	1308.0	1119.8	956.0	816.4	690.4	573.6	465.8	365.7	277.7
15°	1817.9	1569.0	1342.9	1147.2	977.2	831.5	702.6	584.2	473.4	371.8	280.7
12.5°	1863.4	1606.9	1373.3	1169.9	993.9	845.2	714.7	593.3	481.0	376.3	285.3
10°	1899.8	1637.3	1397.5	1189.6	1009.1	855.8	722.3	600.9	485.6	380.9	288.3
7.5°	1928.6	1661.6	1417.3	1203.3	1019.7	864.9	729.9	605.4	490.1	383.9	292.9
5°	1949.9	1679.8	1430.9	1213.9	1028.8	875.5	739.0	613.0	496.2	388.5	292.9
2.5°	1966.6	1693.4	1441.5	1223.0	1034.9	875.5	739.0	613.0	496.2	388.5	292.9
0°	1966.6	1693.4	1441.5	1223.0	1034.9	875.5	739.0	613.0	496.2	388.5	292.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	6.1	3.0	0.0
85°	16.7	10.6	6.1	0.0
82.5°	24.3	16.7	7.6	0.0
80°	31.9	21.2	10.6	0.0
77.5°	41.0	27.3	13.7	0.0
75°	48.6	31.9	16.7	0.0
72.5°	56.1	37.9	18.2	0.0
70°	63.7	42.5	21.2	0.0
67.5°	72.8	47.0	24.3	0.0
65°	80.4	53.1	25.8	0.0
62.5°	88.0	57.7	28.8	0.0
60°	95.6	62.2	30.3	0.0
57.5°	103.2	66.8	33.4	0.0
55°	110.8	72.8	36.4	0.0
52.5°	118.4	77.4	37.9	0.0
50°	125.9	81.9	39.5	0.0
47.5°	132.0	86.5	42.5	0.0
45°	139.6	91.0	44.0	0.0
42.5°	147.2	94.1	45.5	0.0
40°	153.3	98.6	47.0	0.0
37.5°	160.8	101.7	50.1	0.0
35°	166.9	106.2	51.6	0.0
32.5°	171.5	109.3	53.1	0.0
30°	177.5	112.3	54.6	0.0
27.5°	182.1	115.3	54.6	0.0
25°	186.6	118.4	56.1	0.0
22.5°	191.2	119.9	57.7	0.0
20°	195.7	122.9	59.2	0.0
17.5°	198.8	124.4	59.2	0.0
15°	201.8	125.9	62.2	0.0
12.5°	203.3	127.5	62.2	0.0
10°	206.4	130.5	62.2	0.0
7.5°	209.4	130.5	62.2	0.0
5°	209.4	130.5	62.2	0.0
2.5°	209.4	130.5	62.2	0.0
0°	209.4	130.5	62.2	0.0

(END OF REPORT)