

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: P624559

Luminaire Tested: **IFLD-S-SA3B-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

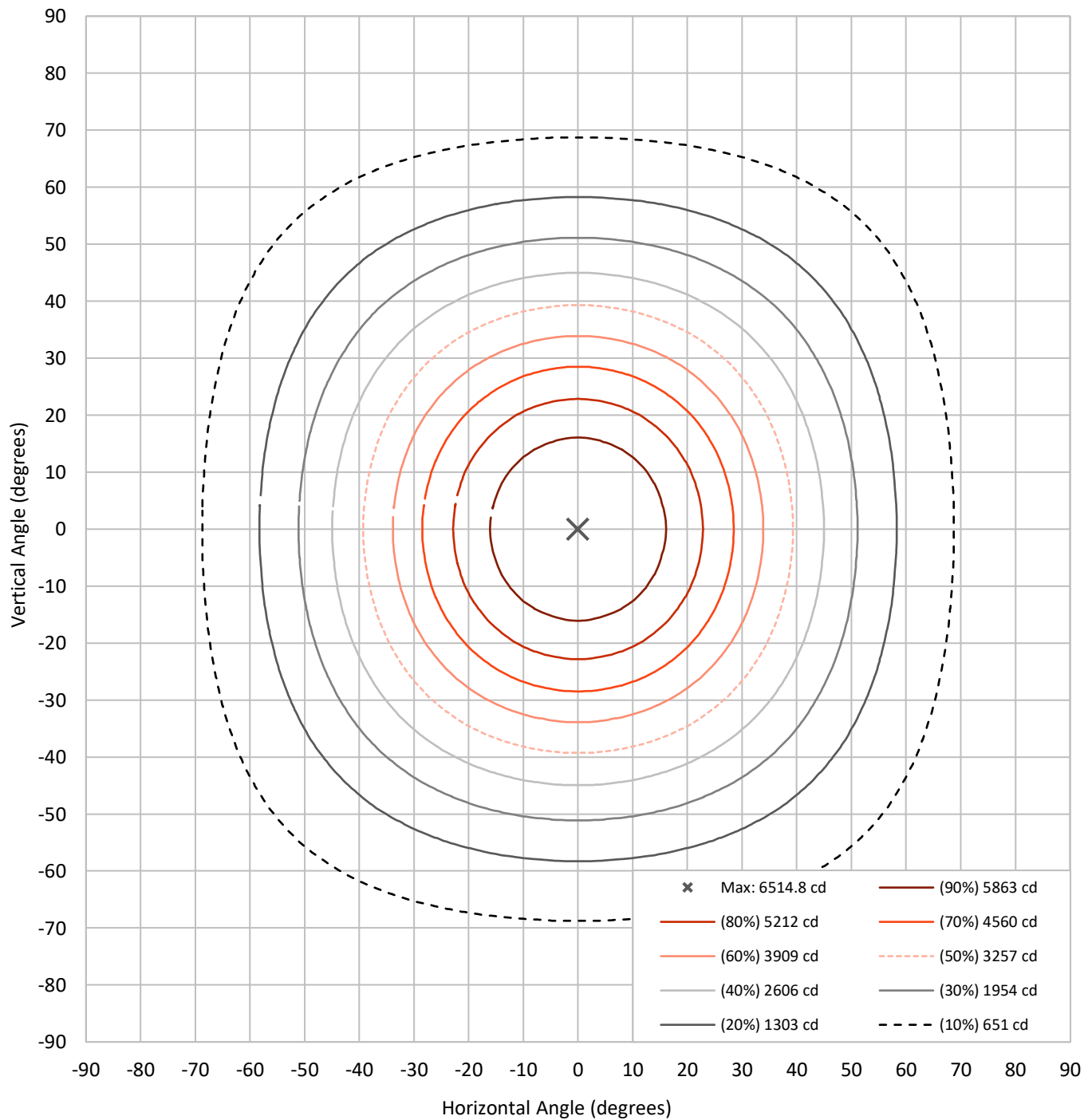
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11730 lumens	Max Intensity:	6514.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5075.5 lumens	Field Lumens:	8310.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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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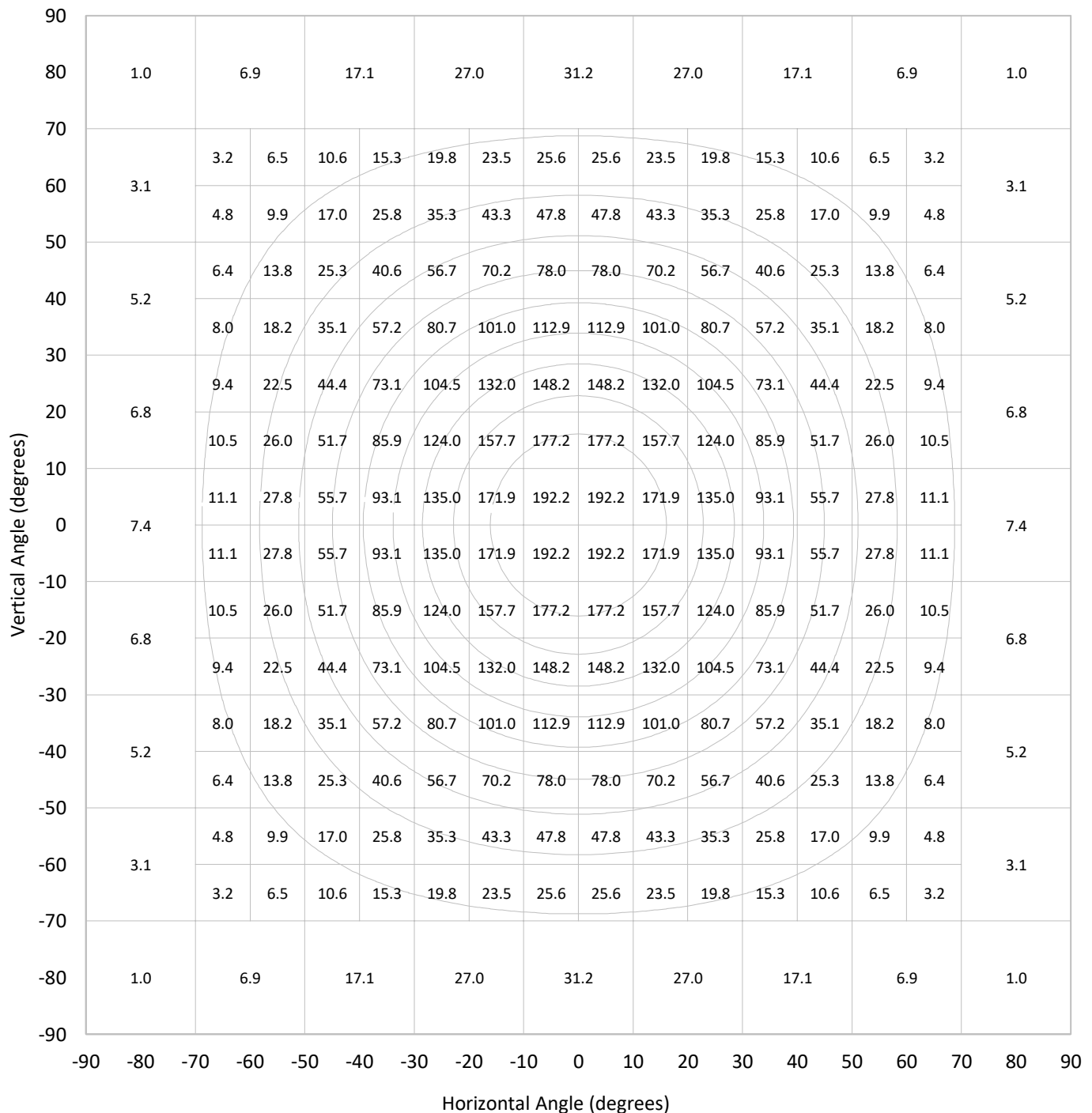
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Iso-Candela Plot



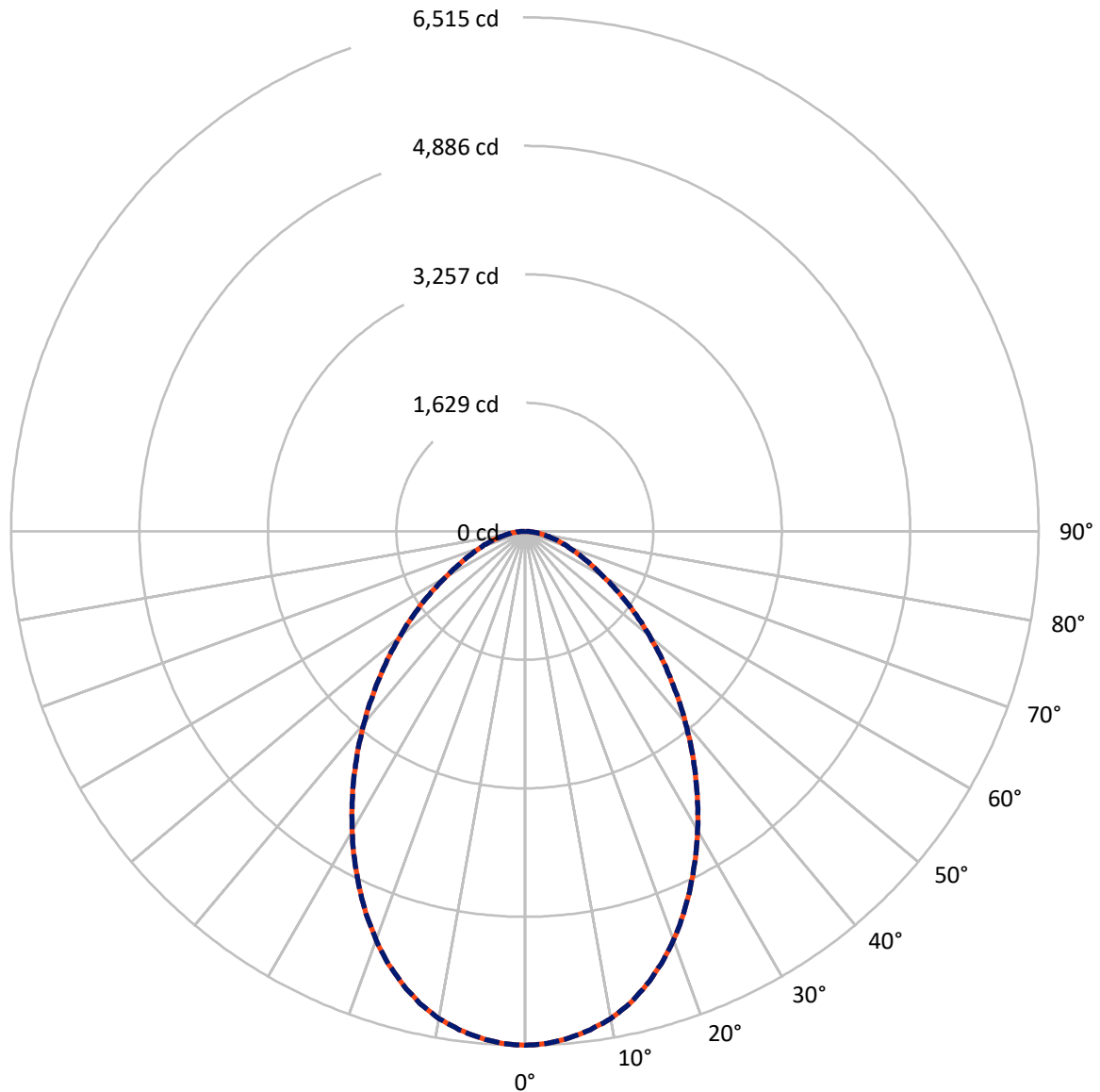
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Lumen Table



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Luminous Intensity Polar Plot

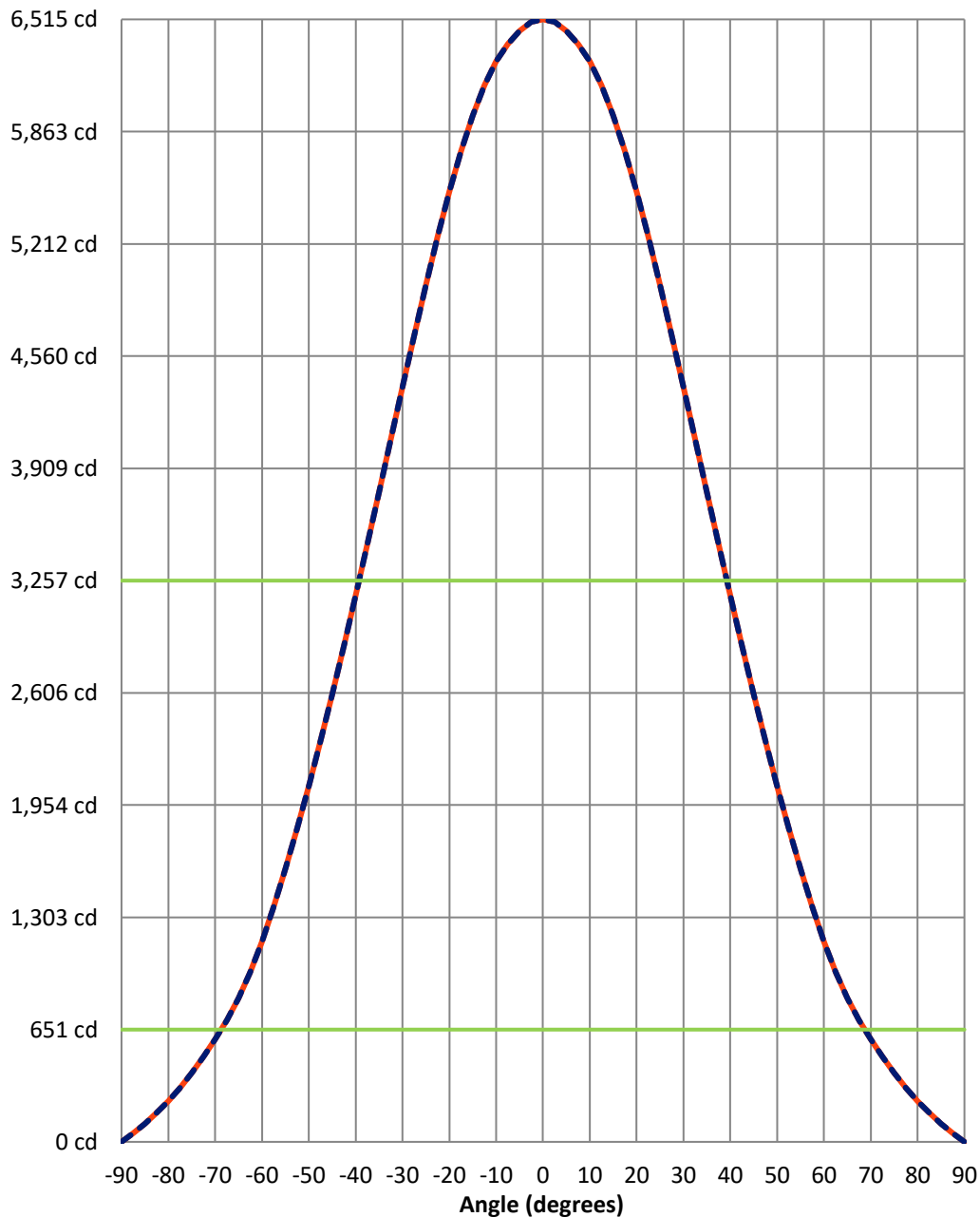


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5075.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8310.9
Efficiency: 70.9%

Spill:

Lumens: 3419.1
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°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	47.7	47.7	46.5	45.3
85°	105.2	105.2	105.2	105.2	105.2	102.7	101.5	100.3	99.1	96.6	95.4
82.5°	168.8	168.8	168.8	168.8	166.3	163.9	162.7	160.2	157.8	154.1	150.4
80°	236.0	236.0	236.0	236.0	232.4	229.9	226.3	223.8	220.1	215.2	210.4
77.5°	313.1	313.1	313.1	309.4	307.0	303.3	299.6	294.7	289.8	283.7	276.4
75°	399.9	399.9	399.9	395.0	391.4	387.7	381.6	375.5	368.1	359.6	349.8
72.5°	494.1	494.1	494.1	488.0	484.3	478.2	470.8	462.3	453.7	442.7	430.5
70°	595.6	595.6	595.6	588.3	582.1	576.0	566.2	556.5	544.2	532.0	517.3
67.5°	705.7	705.7	705.7	697.1	689.8	681.2	670.2	658.0	643.3	626.2	609.0
65°	834.1	834.1	829.2	821.8	813.3	801.0	787.6	770.5	752.1	730.1	706.9
62.5°	985.7	985.7	978.4	969.8	958.8	942.9	924.6	902.6	876.9	848.7	820.6
60°	1161.8	1161.8	1153.3	1142.3	1126.4	1106.8	1082.3	1054.2	1022.4	986.9	952.7
57.5°	1364.8	1364.8	1353.8	1339.2	1319.6	1295.1	1264.6	1229.1	1188.7	1144.7	1101.9
55°	1585.0	1585.0	1571.5	1554.4	1531.2	1501.8	1465.1	1423.5	1374.6	1324.5	1269.4
52.5°	1818.6	1818.6	1802.7	1783.1	1756.2	1721.9	1680.4	1631.4	1575.2	1516.5	1451.7
50°	2064.4	2064.4	2046.0	2024.0	1993.5	1953.1	1905.4	1849.1	1786.8	1718.3	1643.7
47.5°	2327.3	2327.3	2306.5	2280.8	2244.2	2197.7	2141.4	2076.6	2005.7	1928.6	1844.2
45°	2597.6	2597.6	2574.4	2545.0	2504.7	2452.1	2389.7	2327.3	2236.8	2147.5	2049.7
42.5°	2878.9	2878.9	2852.0	2819.0	2772.5	2715.0	2644.1	2563.4	2474.1	2373.8	2267.4
40°	3171.2	3171.2	3140.6	3102.7	3051.3	2985.3	2905.8	2815.3	2715.0	2603.7	2486.3
37.5°	3469.6	3469.6	3435.3	3393.8	3336.3	3262.9	3173.6	3073.3	2960.8	2837.3	2707.7
35°	3770.4	3770.4	3732.5	3687.3	3623.7	3543.0	3446.3	3335.1	3210.3	3075.8	2930.2
32.5°	4077.4	4077.4	4035.8	3984.5	3912.3	3823.0	3716.6	3595.5	3469.6	3313.0	3154.1
30°	4380.7	4380.7	4335.4	4279.2	4202.1	4104.3	3988.1	3854.8	3706.8	3546.6	3375.4
27.5°	4679.1	4666.9	4629.0	4569.0	4484.7	4380.7	4254.7	4110.4	3950.2	3774.1	3590.7
25°	4972.6	4959.2	4917.6	4851.5	4761.0	4647.3	4511.6	4357.5	4185.0	3999.1	3798.6
22.5°	5253.9	5239.2	5195.2	5124.3	5027.7	4904.1	4758.6	4593.5	4410.0	4210.7	3999.1
20°	5514.4	5498.5	5453.2	5378.6	5278.4	5147.5	4993.4	4816.1	4620.4	4410.0	4185.0
17.5°	5749.2	5733.3	5685.6	5608.6	5514.4	5368.9	5209.9	5022.8	4816.1	4593.5	4357.5
15°	5955.9	5938.8	5889.9	5812.8	5705.2	5568.2	5400.7	5209.9	4993.4	4758.6	4511.6
12.5°	6132.0	6114.9	6064.7	5987.7	5876.4	5739.4	5568.2	5368.9	5147.5	4904.1	4647.3
10°	6271.4	6254.3	6206.6	6133.2	6018.3	5876.4	5705.2	5514.4	5278.4	5027.7	4761.0
7.5°	6371.7	6355.8	6311.8	6238.4	6133.2	5987.7	5812.8	5608.6	5378.6	5124.3	4851.5
5°	6447.5	6429.2	6385.2	6311.8	6206.6	6064.7	5889.9	5685.6	5453.2	5195.2	4917.6
2.5°	6500.1	6478.1	6429.2	6355.8	6254.3	6114.9	5938.8	5733.3	5498.5	5239.2	4959.2
0°	6514.8	6500.1	6447.5	6371.7	6271.4	6132.0	5955.9	5749.2	5514.4	5253.9	4972.6

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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°	44.0	44.0	42.8	41.6	40.4	37.9	36.7	35.5	34.2	31.8	30.6
85°	92.9	90.5	88.1	85.6	81.9	79.5	75.8	73.4	69.7	66.0	62.4
82.5°	146.8	143.1	138.2	134.5	129.6	123.5	118.6	112.5	106.4	101.5	95.4
80°	205.5	199.3	193.2	187.1	179.8	172.4	165.1	157.8	149.2	140.6	132.1
77.5°	269.1	260.5	251.9	242.1	233.6	223.8	214.0	204.2	193.2	182.2	171.2
75°	340.0	329.0	316.8	304.5	293.5	280.1	266.6	253.2	238.5	225.0	210.4
72.5°	417.0	403.6	388.9	374.2	358.3	341.2	324.1	305.7	288.6	271.5	253.2
70°	500.2	484.3	466.0	447.6	428.0	407.3	386.5	364.4	342.4	320.4	298.4
67.5°	589.5	569.9	547.9	525.9	501.4	477.0	452.5	426.8	399.9	373.0	347.3
65°	684.9	660.4	634.7	606.6	578.5	550.3	521.0	490.4	459.8	428.0	399.9
62.5°	791.3	760.7	727.7	693.4	661.6	627.4	595.6	557.7	521.0	485.5	450.1
60°	914.8	874.4	834.1	791.3	750.9	706.9	667.7	626.2	584.6	544.2	502.6
57.5°	1053.0	1001.6	952.7	901.3	847.5	798.6	748.5	698.3	651.8	604.1	558.9
55°	1209.5	1147.2	1086.0	1022.4	960.0	898.9	835.3	779.0	721.6	667.7	615.2
52.5°	1380.7	1309.8	1234.0	1161.8	1082.3	1006.5	935.6	864.6	797.4	732.6	672.6
50°	1564.2	1481.0	1394.2	1306.1	1215.6	1126.4	1040.8	957.6	879.3	803.5	732.6
47.5°	1755.0	1660.8	1561.7	1461.5	1364.8	1256.0	1153.3	1059.1	964.9	879.3	797.4
45°	1950.6	1844.2	1735.4	1621.7	1507.9	1390.5	1276.8	1161.8	1059.1	957.6	864.6
42.5°	2152.4	2032.6	1911.5	1785.5	1659.6	1531.2	1402.8	1276.8	1153.3	1040.8	935.6
40°	2360.3	2228.3	2090.1	1953.1	1818.6	1671.8	1531.2	1390.5	1256.0	1126.4	1006.5
37.5°	2568.2	2423.9	2274.7	2120.6	1966.5	1818.6	1659.6	1507.9	1364.8	1215.6	1082.3
35°	2777.4	2618.4	2457.0	2289.4	2120.6	1953.1	1785.5	1621.7	1461.5	1306.1	1161.8
32.5°	2987.7	2814.1	2635.5	2457.0	2274.7	2090.1	1911.5	1735.4	1561.7	1394.2	1234.0
30°	3194.4	3006.1	2814.1	2618.4	2423.9	2228.3	2032.6	1844.2	1660.8	1481.0	1309.8
27.5°	3396.2	3194.4	2987.7	2777.4	2568.2	2360.3	2152.4	1950.6	1755.0	1564.2	1380.7
25°	3590.7	3375.4	3154.1	2930.2	2707.7	2486.3	2267.4	2049.7	1844.2	1643.7	1451.7
22.5°	3774.1	3546.6	3313.0	3075.8	2837.3	2603.7	2373.8	2147.5	1928.6	1718.3	1516.5
20°	3950.2	3706.8	3469.6	3210.3	2960.8	2715.0	2474.1	2236.8	2005.7	1786.8	1575.2
17.5°	4110.4	3854.8	3595.5	3335.1	3073.3	2815.3	2563.4	2327.3	2076.6	1849.1	1631.4
15°	4254.7	3988.1	3716.6	3446.3	3173.6	2905.8	2644.1	2389.7	2141.4	1905.4	1680.4
12.5°	4380.7	4104.3	3823.0	3543.0	3262.9	2985.3	2715.0	2452.1	2197.7	1953.1	1721.9
10°	4484.7	4202.1	3912.3	3623.7	3336.3	3051.3	2772.5	2504.7	2244.2	1993.5	1756.2
7.5°	4569.0	4279.2	3984.5	3687.3	3393.8	3102.7	2819.0	2545.0	2280.8	2024.0	1783.1
5°	4629.0	4335.4	4035.8	3732.5	3435.3	3140.6	2852.0	2574.4	2306.5	2046.0	1802.7
2.5°	4666.9	4380.7	4077.4	3770.4	3469.6	3171.2	2878.9	2597.6	2327.3	2064.4	1818.6
0°	4679.1	4380.7	4077.4	3770.4	3469.6	3171.2	2878.9	2597.6	2327.3	2064.4	1818.6

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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°	29.4	26.9	24.5	23.2	20.8	19.6	17.1	14.7	13.5	11.0	8.6
85°	58.7	53.8	50.1	46.5	42.8	37.9	34.2	30.6	25.7	22.0	17.1
82.5°	89.3	83.2	77.0	70.9	64.8	58.7	51.4	45.3	39.1	33.0	25.7
80°	123.5	113.7	105.2	96.6	88.1	79.5	69.7	61.1	51.4	42.8	34.2
77.5°	159.0	148.0	135.8	123.5	111.3	100.3	88.1	77.0	66.0	53.8	42.8
75°	196.9	182.2	168.8	152.9	138.2	122.3	107.6	92.9	79.5	66.0	51.4
72.5°	236.0	217.7	199.3	182.2	163.9	145.5	128.4	110.1	92.9	77.0	61.1
70°	276.4	254.4	232.4	211.6	190.8	168.8	149.2	128.4	107.6	88.1	69.7
67.5°	319.2	293.5	267.8	240.9	217.7	193.2	168.8	145.5	122.3	100.3	79.5
65°	365.7	335.1	303.3	275.2	244.6	217.7	190.8	163.9	138.2	111.3	88.1
62.5°	413.4	377.9	342.4	307.0	275.2	240.9	211.6	182.2	152.9	123.5	96.6
60°	462.3	421.9	381.6	342.4	303.3	267.8	232.4	199.3	168.8	135.8	105.2
57.5°	512.4	467.2	421.9	377.9	335.1	293.5	254.4	217.7	182.2	148.0	113.7
55°	563.8	512.4	462.3	413.4	365.7	319.2	276.4	236.0	196.9	159.0	123.5
52.5°	615.2	558.9	502.6	450.1	399.9	347.3	298.4	253.2	210.4	171.2	132.1
50°	667.7	604.1	544.2	485.5	428.0	373.0	320.4	271.5	225.0	182.2	140.6
47.5°	721.6	651.8	584.6	521.0	459.8	399.9	342.4	288.6	238.5	193.2	149.2
45°	779.0	698.3	626.2	557.7	490.4	426.8	364.4	305.7	253.2	204.2	157.8
42.5°	835.3	748.5	667.7	595.6	521.0	452.5	386.5	324.1	266.6	214.0	165.1
40°	898.9	798.6	706.9	627.4	550.3	477.0	407.3	341.2	280.1	223.8	172.4
37.5°	960.0	847.5	750.9	661.6	578.5	501.4	428.0	358.3	293.5	233.6	179.8
35°	1022.4	901.3	791.3	693.4	606.6	525.9	447.6	374.2	304.5	242.1	187.1
32.5°	1086.0	952.7	834.1	727.7	634.7	547.9	466.0	388.9	316.8	251.9	193.2
30°	1147.2	1001.6	874.4	760.7	660.4	569.9	484.3	403.6	329.0	260.5	199.3
27.5°	1209.5	1053.0	914.8	791.3	684.9	589.5	500.2	417.0	340.0	269.1	205.5
25°	1269.4	1101.9	952.7	820.6	706.9	609.0	517.3	430.5	349.8	276.4	210.4
22.5°	1324.5	1144.7	986.9	848.7	730.1	626.2	532.0	442.7	359.6	283.7	215.2
20°	1374.6	1188.7	1022.4	876.9	752.1	643.3	544.2	453.7	368.1	289.8	220.1
17.5°	1423.5	1229.1	1054.2	902.6	770.5	658.0	556.5	462.3	375.5	294.7	223.8
15°	1465.1	1264.6	1082.3	924.6	787.6	670.2	566.2	470.8	381.6	299.6	226.3
12.5°	1501.8	1295.1	1106.8	942.9	801.0	681.2	576.0	478.2	387.7	303.3	229.9
10°	1531.2	1319.6	1126.4	958.8	813.3	689.8	582.1	484.3	391.4	307.0	232.4
7.5°	1554.4	1339.2	1142.3	969.8	821.8	697.1	588.3	488.0	395.0	309.4	236.0
5°	1571.5	1353.8	1153.3	978.4	829.2	705.7	595.6	494.1	399.9	313.1	236.0
2.5°	1585.0	1364.8	1161.8	985.7	834.1	705.7	595.6	494.1	399.9	313.1	236.0
0°	1585.0	1364.8	1161.8	985.7	834.1	705.7	595.6	494.1	399.9	313.1	236.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.1	4.9	2.4	0.0
85°	13.5	8.6	4.9	0.0
82.5°	19.6	13.5	6.1	0.0
80°	25.7	17.1	8.6	0.0
77.5°	33.0	22.0	11.0	0.0
75°	39.1	25.7	13.5	0.0
72.5°	45.3	30.6	14.7	0.0
70°	51.4	34.2	17.1	0.0
67.5°	58.7	37.9	19.6	0.0
65°	64.8	42.8	20.8	0.0
62.5°	70.9	46.5	23.2	0.0
60°	77.0	50.1	24.5	0.0
57.5°	83.2	53.8	26.9	0.0
55°	89.3	58.7	29.4	0.0
52.5°	95.4	62.4	30.6	0.0
50°	101.5	66.0	31.8	0.0
47.5°	106.4	69.7	34.2	0.0
45°	112.5	73.4	35.5	0.0
42.5°	118.6	75.8	36.7	0.0
40°	123.5	79.5	37.9	0.0
37.5°	129.6	81.9	40.4	0.0
35°	134.5	85.6	41.6	0.0
32.5°	138.2	88.1	42.8	0.0
30°	143.1	90.5	44.0	0.0
27.5°	146.8	92.9	44.0	0.0
25°	150.4	95.4	45.3	0.0
22.5°	154.1	96.6	46.5	0.0
20°	157.8	99.1	47.7	0.0
17.5°	160.2	100.3	47.7	0.0
15°	162.7	101.5	50.1	0.0
12.5°	163.9	102.7	50.1	0.0
10°	166.3	105.2	50.1	0.0
7.5°	168.8	105.2	50.1	0.0
5°	168.8	105.2	50.1	0.0
2.5°	168.8	105.2	50.1	0.0
0°	168.8	105.2	50.1	0.0

(END OF REPORT)