

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: P624045

Luminaire Tested: **IFLD-S-SA2C-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

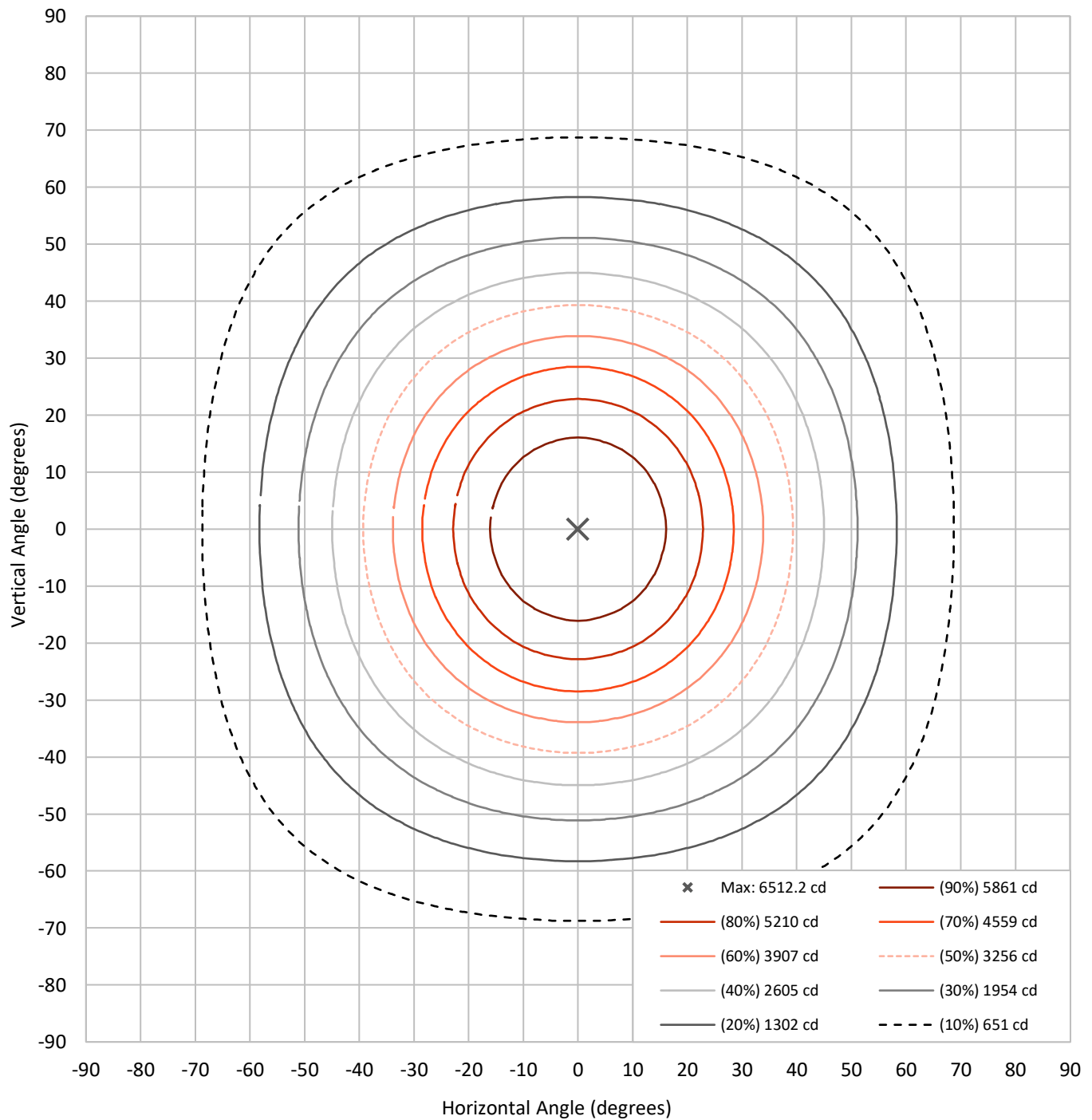
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11725.3 lumens	Max Intensity:	6512.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.4 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:	5073.4 lumens	Field Lumens:	8307.5 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		



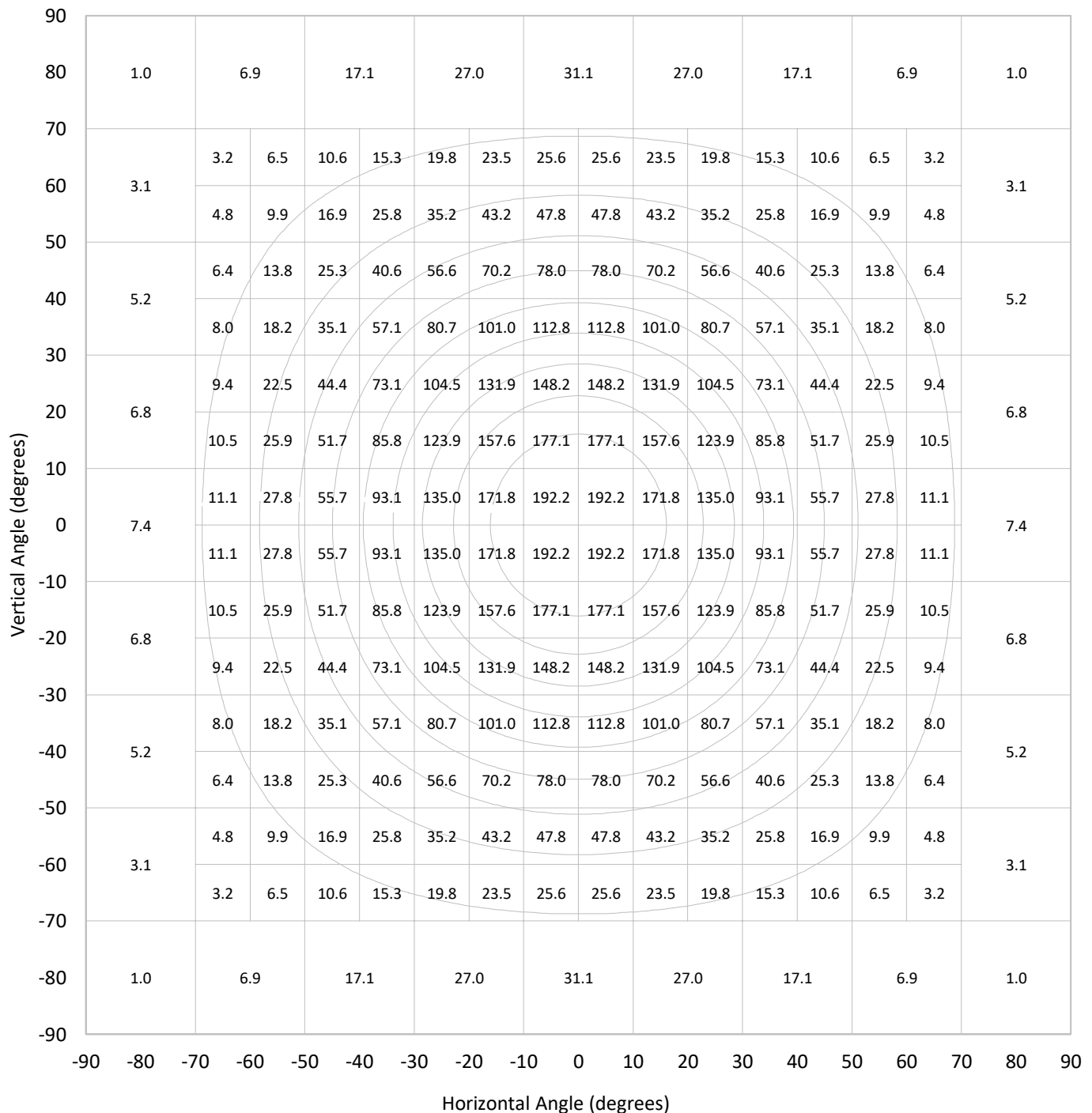
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Iso-Candela Plot



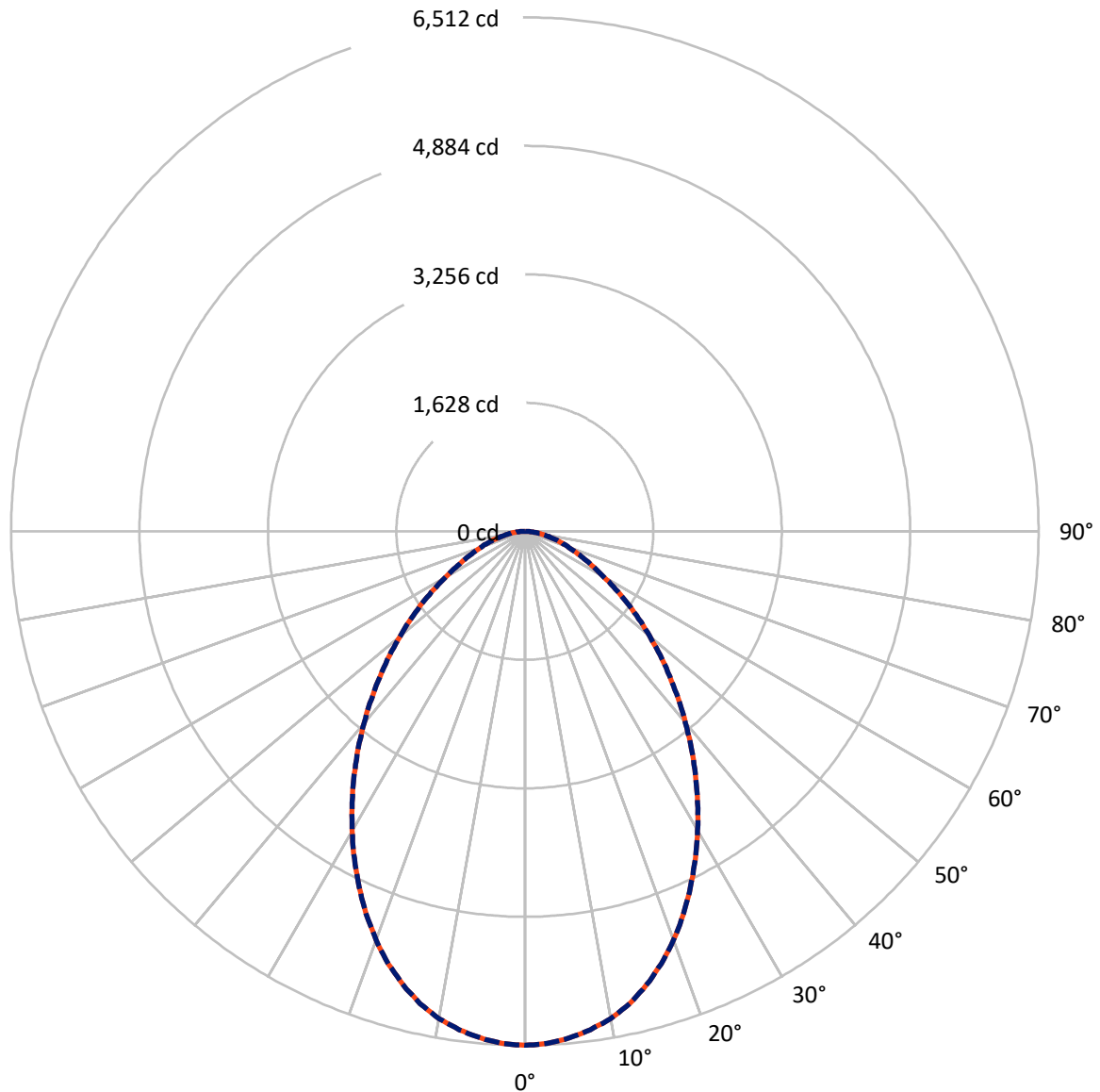
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Lumen Table



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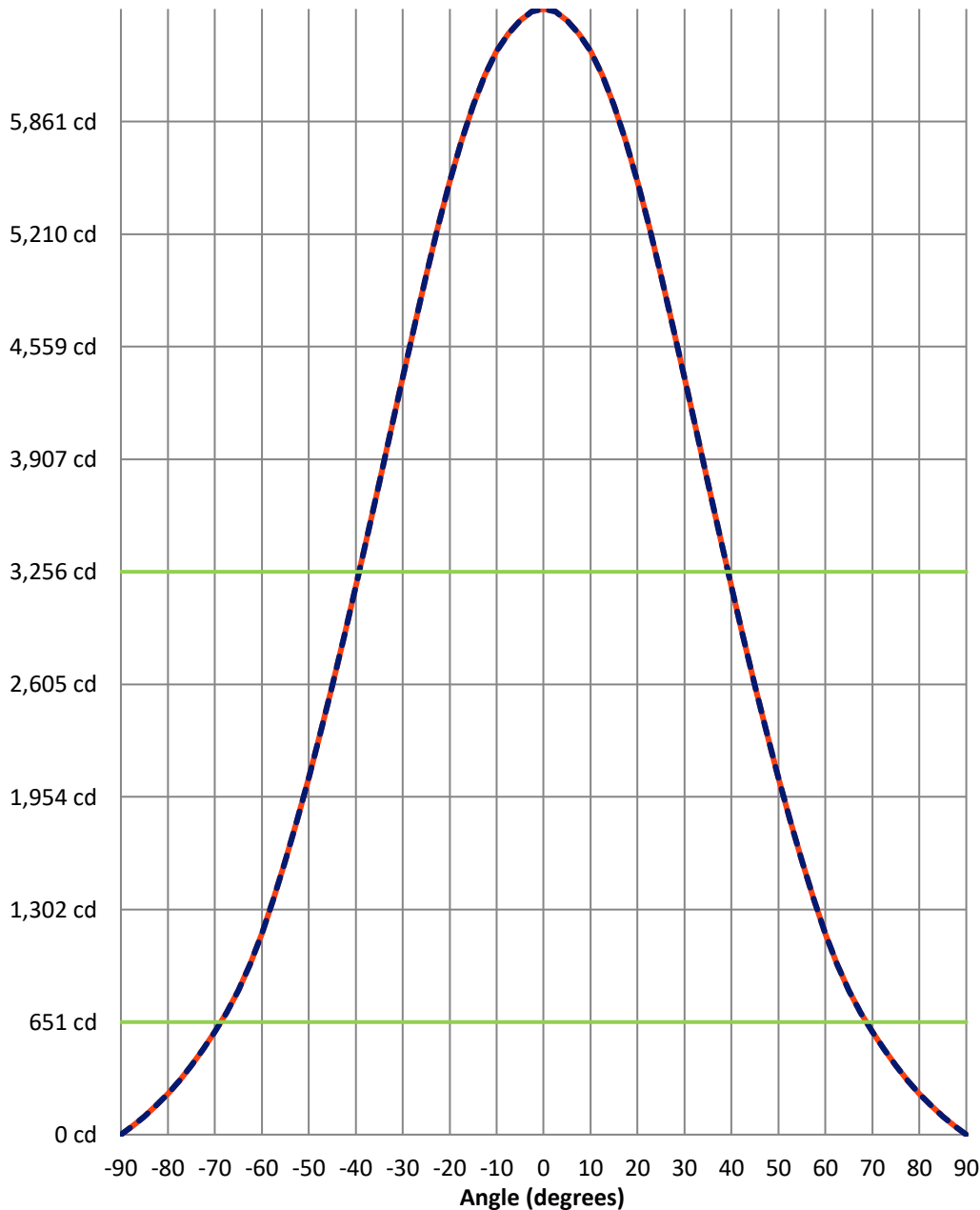
Luminous Intensity Polar Plot



— 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: 5073.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8307.5
Efficiency: 70.9%

Spill:

Lumens: 3417.7
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	45.2
85°	105.1	105.1	105.1	105.1	105.1	102.7	101.5	100.2	99.0	96.6	95.4
82.5°	168.7	168.7	168.7	168.7	166.3	163.8	162.6	160.1	157.7	154.0	150.4
80°	235.9	235.9	235.9	235.9	232.3	229.8	226.2	223.7	220.0	215.2	210.3
77.5°	313.0	313.0	313.0	309.3	306.8	303.2	299.5	294.6	289.7	283.6	276.3
75°	399.8	399.8	399.8	394.9	391.2	387.5	381.4	375.3	368.0	359.4	349.6
72.5°	493.9	493.9	493.9	487.8	484.1	478.0	470.7	462.1	453.5	442.5	430.3
70°	595.3	595.3	595.3	588.0	581.9	575.8	566.0	556.2	544.0	531.8	517.1
67.5°	705.4	705.4	705.4	696.8	689.5	680.9	669.9	657.7	643.0	625.9	608.8
65°	833.7	833.7	828.8	821.5	813.0	800.7	787.3	770.2	751.8	729.8	706.6
62.5°	985.3	985.3	978.0	969.4	958.4	942.5	924.2	902.2	876.5	848.4	820.3
60°	1161.4	1161.4	1152.8	1141.8	1125.9	1106.3	1081.9	1053.8	1022.0	986.5	952.3
57.5°	1364.3	1364.3	1353.3	1338.6	1319.1	1294.6	1264.0	1228.6	1188.3	1144.2	1101.5
55°	1584.3	1584.3	1570.9	1553.8	1530.5	1501.2	1464.5	1423.0	1374.1	1323.9	1268.9
52.5°	1817.8	1817.8	1801.9	1782.4	1755.5	1721.3	1679.7	1630.8	1574.6	1515.9	1451.1
50°	2063.5	2063.5	2045.2	2023.2	1992.6	1952.3	1904.6	1848.4	1786.0	1717.6	1643.0
47.5°	2326.4	2326.4	2305.6	2279.9	2243.3	2196.8	2140.6	2075.8	2004.9	1927.9	1843.5
45°	2596.6	2596.6	2573.3	2544.0	2503.6	2451.1	2388.7	2326.4	2235.9	2146.7	2048.9
42.5°	2877.7	2877.7	2850.8	2817.8	2771.4	2713.9	2643.0	2562.3	2473.1	2372.8	2266.5
40°	3169.9	3169.9	3139.3	3101.4	3050.1	2984.1	2904.6	2814.2	2713.9	2602.7	2485.3
37.5°	3468.2	3468.2	3433.9	3392.4	3334.9	3261.6	3172.3	3072.1	2959.6	2836.2	2706.6
35°	3768.9	3768.9	3731.0	3685.8	3622.2	3541.5	3445.0	3333.7	3209.0	3074.5	2929.1
32.5°	4075.8	4075.8	4034.2	3982.8	3910.7	3821.5	3715.1	3594.1	3468.2	3311.7	3152.8
30°	4378.9	4378.9	4333.7	4277.5	4200.4	4102.6	3986.5	3853.3	3705.3	3545.2	3374.0
27.5°	4677.2	4665.0	4627.1	4567.2	4482.8	4378.9	4253.0	4108.8	3948.6	3772.6	3589.2
25°	4970.6	4957.2	4915.6	4849.6	4759.1	4645.4	4509.7	4355.7	4183.3	3997.5	3797.0
22.5°	5251.8	5237.1	5193.1	5122.2	5025.6	4902.1	4756.7	4591.6	4408.3	4209.0	3997.5
20°	5512.2	5496.3	5451.0	5376.5	5276.2	5145.4	4991.4	4814.1	4618.5	4408.3	4183.3
17.5°	5746.9	5731.0	5683.3	5606.3	5512.2	5366.7	5207.8	5020.7	4814.1	4591.6	4355.7
15°	5953.5	5936.4	5887.5	5810.5	5702.9	5566.0	5398.5	5207.8	4991.4	4756.7	4509.7
12.5°	6129.5	6112.4	6062.3	5985.3	5874.0	5737.1	5566.0	5366.7	5145.4	4902.1	4645.4
10°	6268.9	6251.8	6204.1	6130.7	6015.8	5874.0	5702.9	5512.2	5276.2	5025.6	4759.1
7.5°	6369.1	6353.2	6309.2	6235.9	6130.7	5985.3	5810.5	5606.3	5376.5	5122.2	4849.6
5°	6444.9	6426.6	6382.6	6309.2	6204.1	6062.3	5887.5	5683.3	5451.0	5193.1	4915.6
2.5°	6497.5	6475.5	6426.6	6353.2	6251.8	6112.4	5936.4	5731.0	5496.3	5237.1	4957.2
0°	6512.2	6497.5	6444.9	6369.1	6268.9	6129.5	5953.5	5746.9	5512.2	5251.8	4970.6

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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	40.3	37.9	36.7	35.5	34.2	31.8	30.6
85°	92.9	90.5	88.0	85.6	81.9	79.5	75.8	73.3	69.7	66.0	62.3
82.5°	146.7	143.0	138.1	134.5	129.6	123.5	118.6	112.5	106.4	101.5	95.4
80°	205.4	199.3	193.2	187.0	179.7	172.4	165.0	157.7	149.1	140.6	132.0
77.5°	268.9	260.4	251.8	242.1	233.5	223.7	213.9	204.2	193.2	182.1	171.1
75°	339.8	328.8	316.6	304.4	293.4	279.9	266.5	253.1	238.4	224.9	210.3
72.5°	416.9	403.4	388.7	374.1	358.2	341.1	324.0	305.6	288.5	271.4	253.1
70°	500.0	484.1	465.8	447.4	427.9	407.1	386.3	364.3	342.3	320.3	298.3
67.5°	589.2	569.7	547.7	525.7	501.2	476.8	452.3	426.6	399.8	372.9	347.2
65°	684.6	660.1	634.5	606.4	578.2	550.1	520.8	490.2	459.7	427.9	399.8
62.5°	790.9	760.4	727.4	693.1	661.4	627.1	595.3	557.5	520.8	485.3	449.9
60°	914.4	874.1	833.7	790.9	750.6	706.6	667.5	625.9	584.3	544.0	502.4
57.5°	1052.6	1001.2	952.3	901.0	847.2	798.3	748.2	698.0	651.6	603.9	558.7
55°	1209.0	1146.7	1085.6	1022.0	959.6	898.5	835.0	778.7	721.3	667.5	614.9
52.5°	1380.2	1309.3	1233.5	1161.4	1081.9	1006.1	935.2	864.3	797.1	732.3	672.4
50°	1563.6	1480.4	1393.6	1305.6	1215.1	1125.9	1040.3	957.2	879.0	803.2	732.3
47.5°	1754.3	1660.1	1561.1	1460.9	1364.3	1255.5	1152.8	1058.7	964.5	879.0	797.1
45°	1949.9	1843.5	1734.7	1621.0	1507.3	1390.0	1276.3	1161.4	1058.7	957.2	864.3
42.5°	2151.6	2031.8	1910.7	1784.8	1658.9	1530.5	1402.2	1276.3	1152.8	1040.3	935.2
40°	2359.4	2227.4	2089.2	1952.3	1817.8	1671.1	1530.5	1390.0	1255.5	1125.9	1006.1
37.5°	2567.2	2423.0	2273.8	2119.8	1965.7	1817.8	1658.9	1507.3	1364.3	1215.1	1081.9
35°	2776.3	2617.3	2456.0	2288.5	2119.8	1952.3	1784.8	1621.0	1460.9	1305.6	1161.4
32.5°	2986.5	2812.9	2634.4	2456.0	2273.8	2089.2	1910.7	1734.7	1561.1	1393.6	1233.5
30°	3193.1	3004.9	2812.9	2617.3	2423.0	2227.4	2031.8	1843.5	1660.1	1480.4	1309.3
27.5°	3394.8	3193.1	2986.5	2776.3	2567.2	2359.4	2151.6	1949.9	1754.3	1563.6	1380.2
25°	3589.2	3374.0	3152.8	2929.1	2706.6	2485.3	2266.5	2048.9	1843.5	1643.0	1451.1
22.5°	3772.6	3545.2	3311.7	3074.5	2836.2	2602.7	2372.8	2146.7	1927.9	1717.6	1515.9
20°	3948.6	3705.3	3468.2	3209.0	2959.6	2713.9	2473.1	2235.9	2004.9	1786.0	1574.6
17.5°	4108.8	3853.3	3594.1	3333.7	3072.1	2814.2	2562.3	2326.4	2075.8	1848.4	1630.8
15°	4253.0	3986.5	3715.1	3445.0	3172.3	2904.6	2643.0	2388.7	2140.6	1904.6	1679.7
12.5°	4378.9	4102.6	3821.5	3541.5	3261.6	2984.1	2713.9	2451.1	2196.8	1952.3	1721.3
10°	4482.8	4200.4	3910.7	3622.2	3334.9	3050.1	2771.4	2503.6	2243.3	1992.6	1755.5
7.5°	4567.2	4277.5	3982.8	3685.8	3392.4	3101.4	2817.8	2544.0	2279.9	2023.2	1782.4
5°	4627.1	4333.7	4034.2	3731.0	3433.9	3139.3	2850.8	2573.3	2305.6	2045.2	1801.9
2.5°	4665.0	4378.9	4075.8	3768.9	3468.2	3169.9	2877.7	2596.6	2326.4	2063.5	1817.8
0°	4677.2	4378.9	4075.8	3768.9	3468.2	3169.9	2877.7	2596.6	2326.4	2063.5	1817.8

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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°	29.3	26.9	24.4	23.2	20.8	19.6	17.1	14.7	13.4	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°	89.2	83.1	77.0	70.9	64.8	58.7	51.3	45.2	39.1	33.0	25.7
80°	123.5	113.7	105.1	96.6	88.0	79.5	69.7	61.1	51.3	42.8	34.2
77.5°	158.9	147.9	135.7	123.5	111.2	100.2	88.0	77.0	66.0	53.8	42.8
75°	196.8	182.1	168.7	152.8	138.1	122.2	107.6	92.9	79.5	66.0	51.3
72.5°	235.9	217.6	199.3	182.1	163.8	145.5	128.4	110.0	92.9	77.0	61.1
70°	276.3	254.3	232.3	211.5	190.7	168.7	149.1	128.4	107.6	88.0	69.7
67.5°	319.1	293.4	267.7	240.8	217.6	193.2	168.7	145.5	122.2	100.2	79.5
65°	365.5	335.0	303.2	275.1	244.5	217.6	190.7	163.8	138.1	111.2	88.0
62.5°	413.2	377.7	342.3	306.8	275.1	240.8	211.5	182.1	152.8	123.5	96.6
60°	462.1	421.8	381.4	342.3	303.2	267.7	232.3	199.3	168.7	135.7	105.1
57.5°	512.2	467.0	421.8	377.7	335.0	293.4	254.3	217.6	182.1	147.9	113.7
55°	563.6	512.2	462.1	413.2	365.5	319.1	276.3	235.9	196.8	158.9	123.5
52.5°	614.9	558.7	502.4	449.9	399.8	347.2	298.3	253.1	210.3	171.1	132.0
50°	667.5	603.9	544.0	485.3	427.9	372.9	320.3	271.4	224.9	182.1	140.6
47.5°	721.3	651.6	584.3	520.8	459.7	399.8	342.3	288.5	238.4	193.2	149.1
45°	778.7	698.0	625.9	557.5	490.2	426.6	364.3	305.6	253.1	204.2	157.7
42.5°	835.0	748.2	667.5	595.3	520.8	452.3	386.3	324.0	266.5	213.9	165.0
40°	898.5	798.3	706.6	627.1	550.1	476.8	407.1	341.1	279.9	223.7	172.4
37.5°	959.6	847.2	750.6	661.4	578.2	501.2	427.9	358.2	293.4	233.5	179.7
35°	1022.0	901.0	790.9	693.1	606.4	525.7	447.4	374.1	304.4	242.1	187.0
32.5°	1085.6	952.3	833.7	727.4	634.5	547.7	465.8	388.7	316.6	251.8	193.2
30°	1146.7	1001.2	874.1	760.4	660.1	569.7	484.1	403.4	328.8	260.4	199.3
27.5°	1209.0	1052.6	914.4	790.9	684.6	589.2	500.0	416.9	339.8	268.9	205.4
25°	1268.9	1101.5	952.3	820.3	706.6	608.8	517.1	430.3	349.6	276.3	210.3
22.5°	1323.9	1144.2	986.5	848.4	729.8	625.9	531.8	442.5	359.4	283.6	215.2
20°	1374.1	1188.3	1022.0	876.5	751.8	643.0	544.0	453.5	368.0	289.7	220.0
17.5°	1423.0	1228.6	1053.8	902.2	770.2	657.7	556.2	462.1	375.3	294.6	223.7
15°	1464.5	1264.0	1081.9	924.2	787.3	669.9	566.0	470.7	381.4	299.5	226.2
12.5°	1501.2	1294.6	1106.3	942.5	800.7	680.9	575.8	478.0	387.5	303.2	229.8
10°	1530.5	1319.1	1125.9	958.4	813.0	689.5	581.9	484.1	391.2	306.8	232.3
7.5°	1553.8	1338.6	1141.8	969.4	821.5	696.8	588.0	487.8	394.9	309.3	235.9
5°	1570.9	1353.3	1152.8	978.0	828.8	705.4	595.3	493.9	399.8	313.0	235.9
2.5°	1584.3	1364.3	1161.4	985.3	833.7	705.4	595.3	493.9	399.8	313.0	235.9
0°	1584.3	1364.3	1161.4	985.3	833.7	705.4	595.3	493.9	399.8	313.0	235.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.1	4.9	2.4	0.0
85°	13.4	8.6	4.9	0.0
82.5°	19.6	13.4	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	13.4	0.0
72.5°	45.2	30.6	14.7	0.0
70°	51.3	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	24.4	0.0
57.5°	83.1	53.8	26.9	0.0
55°	89.2	58.7	29.3	0.0
52.5°	95.4	62.3	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	73.3	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	40.3	0.0
35°	134.5	85.6	41.6	0.0
32.5°	138.1	88.0	42.8	0.0
30°	143.0	90.5	44.0	0.0
27.5°	146.7	92.9	44.0	0.0
25°	150.4	95.4	45.2	0.0
22.5°	154.0	96.6	46.5	0.0
20°	157.7	99.0	47.7	0.0
17.5°	160.1	100.2	47.7	0.0
15°	162.6	101.5	50.1	0.0
12.5°	163.8	102.7	50.1	0.0
10°	166.3	105.1	50.1	0.0
7.5°	168.7	105.1	50.1	0.0
5°	168.7	105.1	50.1	0.0
2.5°	168.7	105.1	50.1	0.0
0°	168.7	105.1	50.1	0.0

(END OF REPORT)