

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: P623874

Luminaire Tested: **IFLD-S-SA3A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

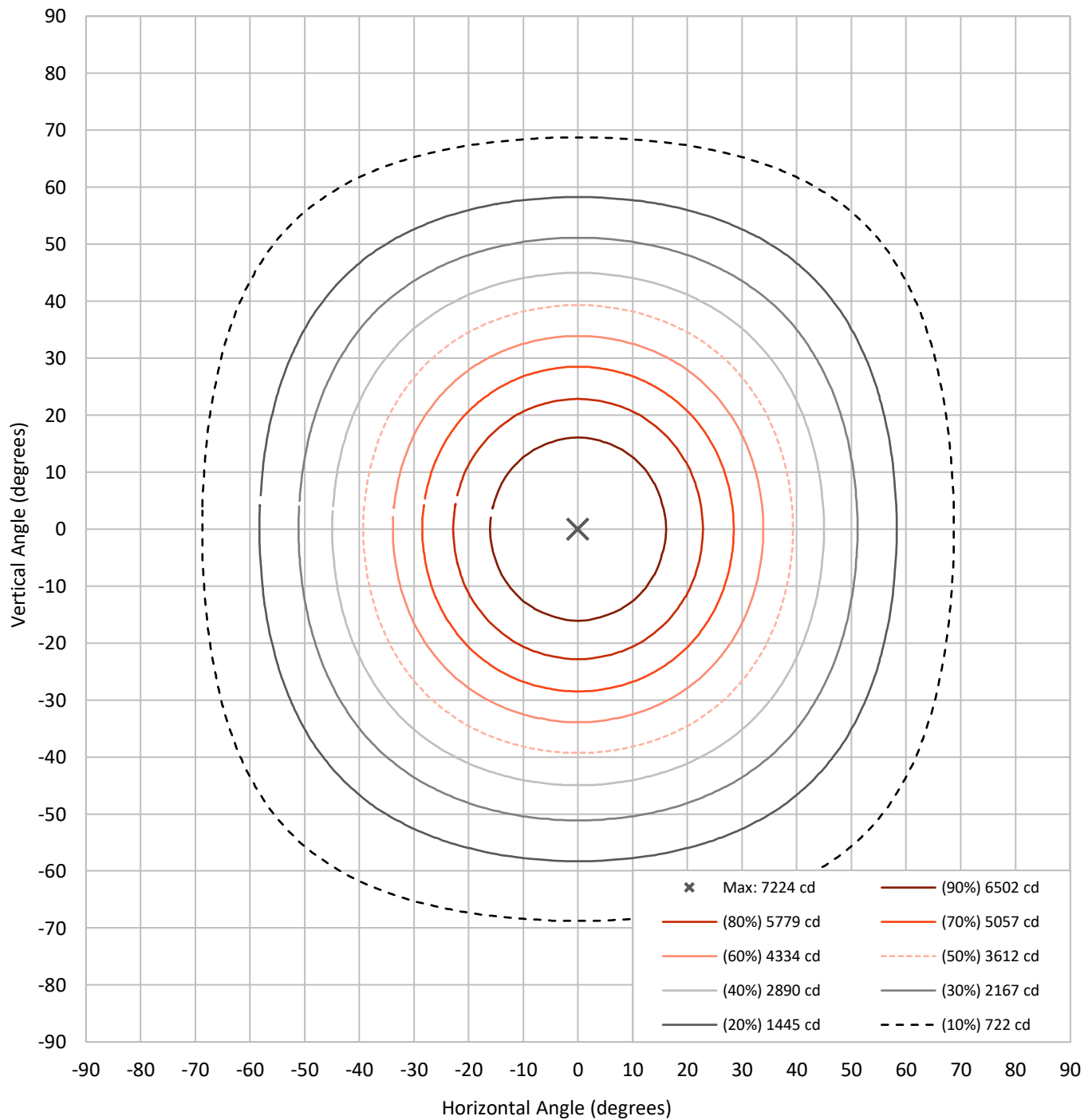
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13007 lumens	Max Intensity:	7224 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5628 lumens	Field Lumens:	9215.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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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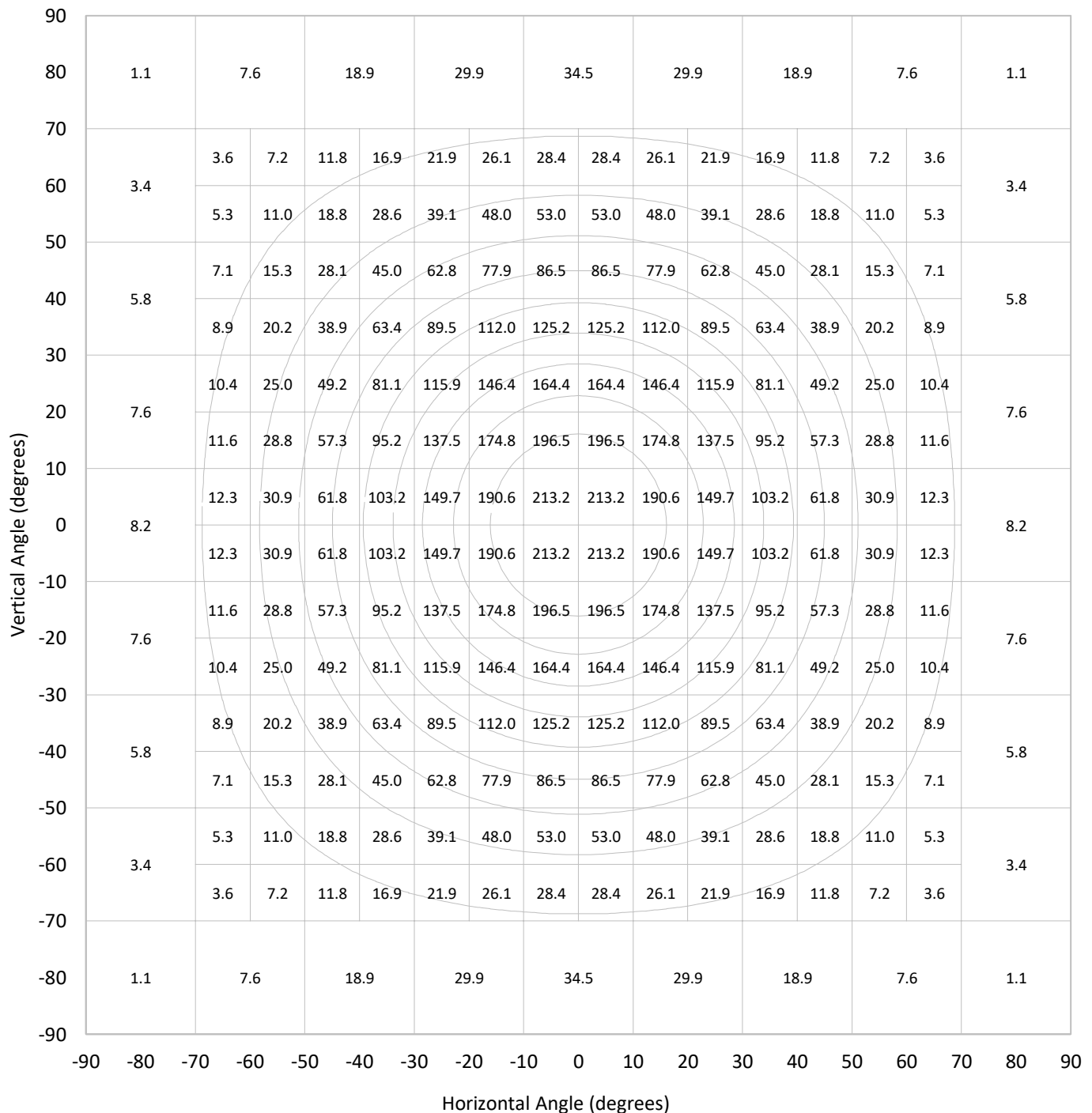
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Iso-Candela Plot



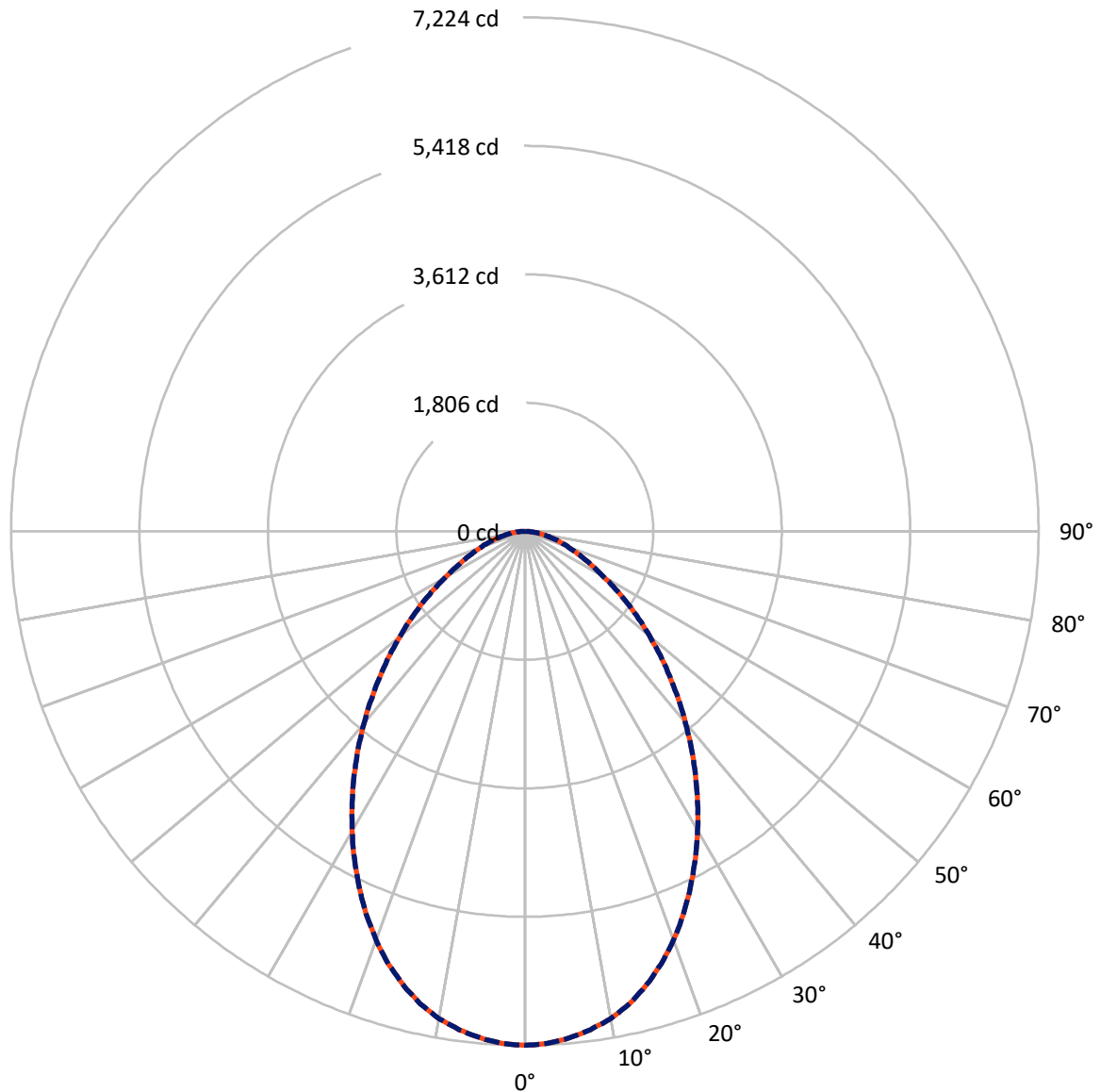
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Lumen Table



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Luminous Intensity Polar Plot

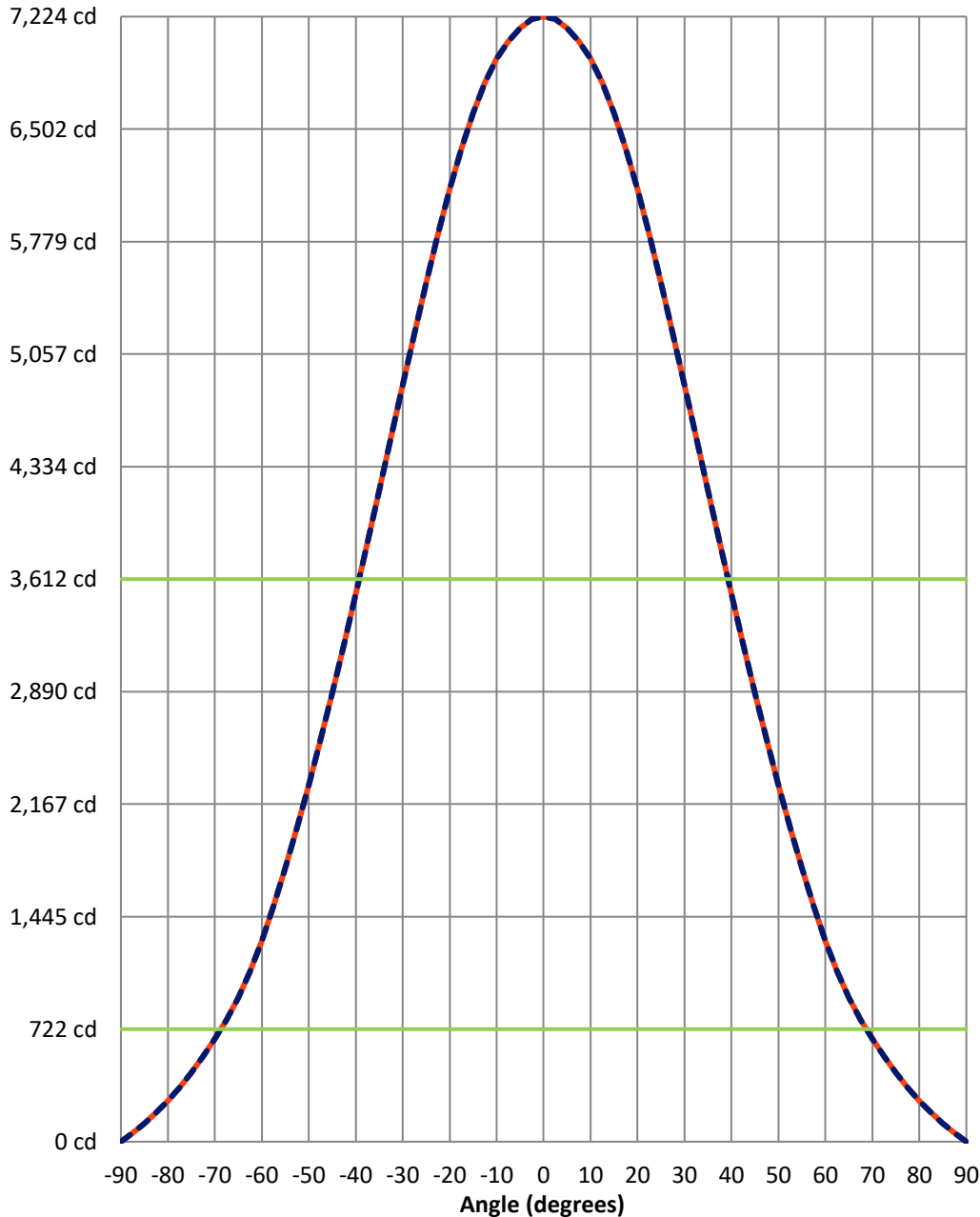


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 5628
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 9215.6
Efficiency: 70.9%

Spill:
Lumens: 3791.3
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°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	52.9	52.9	51.5	50.2
85°	116.6	116.6	116.6	116.6	116.6	113.9	112.6	111.2	109.8	107.1	105.8
82.5°	187.1	187.1	187.1	187.1	184.4	181.7	180.4	177.7	174.9	170.9	166.8
80°	261.7	261.7	261.7	261.7	257.7	254.9	250.9	248.2	244.1	238.7	233.3
77.5°	347.2	347.2	347.2	343.1	340.4	336.3	332.2	326.8	321.4	314.6	306.5
75°	443.4	443.4	443.4	438.0	434.0	429.9	423.1	416.3	408.2	398.7	387.8
72.5°	547.9	547.9	547.9	541.1	537.0	530.2	522.1	512.6	503.1	490.9	477.4
70°	660.4	660.4	660.4	652.3	645.5	638.7	627.9	617.0	603.5	589.9	573.6
67.5°	782.5	782.5	782.5	773.0	764.8	755.4	743.1	729.6	713.3	694.3	675.3
65°	924.9	924.9	919.4	911.3	901.8	888.3	873.3	854.3	834.0	809.6	783.8
62.5°	1093.0	1093.0	1084.9	1075.4	1063.2	1045.6	1025.2	1000.8	972.3	941.1	910.0
60°	1288.3	1288.3	1278.8	1266.6	1249.0	1227.3	1200.2	1169.0	1133.7	1094.4	1056.4
57.5°	1513.4	1513.4	1501.2	1484.9	1463.2	1436.1	1402.2	1362.9	1318.1	1269.3	1221.9
55°	1757.5	1757.5	1742.6	1723.6	1697.9	1665.3	1624.6	1578.5	1524.3	1468.7	1407.6
52.5°	2016.5	2016.5	1998.9	1977.2	1947.4	1909.4	1863.3	1809.1	1746.7	1681.6	1609.7
50°	2289.1	2289.1	2268.8	2244.4	2210.5	2165.7	2112.8	2050.4	1981.3	1905.3	1822.6
47.5°	2580.7	2580.7	2557.6	2529.1	2488.5	2436.9	2374.6	2302.7	2224.0	2138.6	2045.0
45°	2880.4	2880.4	2854.6	2822.1	2777.3	2719.0	2649.8	2580.7	2480.3	2381.3	2272.8
42.5°	3192.3	3192.3	3162.5	3125.8	3074.3	3010.6	2931.9	2842.4	2743.4	2632.2	2514.2
40°	3516.4	3516.4	3482.5	3440.5	3383.5	3310.3	3222.1	3121.8	3010.6	2887.2	2757.0
37.5°	3847.3	3847.3	3809.3	3763.2	3699.5	3618.1	3519.1	3407.9	3283.1	3146.2	3002.4
35°	4180.9	4180.9	4138.9	4088.7	4018.2	3928.7	3821.5	3698.1	3559.8	3410.6	3249.2
32.5°	4521.3	4521.3	4475.2	4418.2	4338.2	4239.2	4121.2	3987.0	3847.3	3673.7	3497.4
30°	4857.6	4857.6	4807.4	4745.0	4659.6	4551.1	4422.3	4274.5	4110.4	3932.7	3742.9
27.5°	5188.5	5174.9	5132.9	5066.4	4972.9	4857.6	4717.9	4557.9	4380.2	4185.0	3981.5
25°	5513.9	5499.0	5452.9	5379.7	5279.3	5153.2	5002.7	4831.8	4640.6	4434.5	4212.1
22.5°	5825.9	5809.6	5760.8	5682.1	5575.0	5438.0	5276.6	5093.6	4890.1	4669.1	4434.5
20°	6114.7	6097.1	6046.9	5964.2	5853.0	5707.9	5537.0	5340.4	5123.4	4890.1	4640.6
17.5°	6375.1	6357.4	6304.6	6219.1	6114.7	5953.3	5777.0	5569.5	5340.4	5093.6	4831.8
15°	6604.3	6585.3	6531.0	6445.6	6326.3	6174.4	5988.6	5777.0	5537.0	5276.6	5002.7
12.5°	6799.5	6780.6	6725.0	6639.5	6516.1	6364.2	6174.4	5953.3	5707.9	5438.0	5153.2
10°	6954.1	6935.2	6882.3	6800.9	6673.4	6516.1	6326.3	6114.7	5853.0	5575.0	5279.3
7.5°	7065.3	7047.7	6998.9	6917.5	6800.9	6639.5	6445.6	6219.1	5964.2	5682.1	5379.7
5°	7149.4	7129.1	7080.3	6998.9	6882.3	6725.0	6531.0	6304.6	6046.9	5760.8	5452.9
2.5°	7207.7	7183.3	7129.1	7047.7	6935.2	6780.6	6585.3	6357.4	6097.1	5809.6	5499.0
0°	7224.0	7207.7	7149.4	7065.3	6954.1	6799.5	6604.3	6375.1	6114.7	5825.9	5513.9

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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°	48.8	48.8	47.5	46.1	44.8	42.0	40.7	39.3	38.0	35.3	33.9
85°	103.1	100.4	97.6	94.9	90.9	88.1	84.1	81.4	77.3	73.2	69.2
82.5°	162.7	158.7	153.2	149.2	143.7	137.0	131.5	124.8	118.0	112.6	105.8
80°	227.8	221.0	214.3	207.5	199.3	191.2	183.1	174.9	165.4	156.0	146.5
77.5°	298.3	288.9	279.4	268.5	259.0	248.2	237.3	226.5	214.3	202.1	189.9
75°	377.0	364.8	351.2	337.7	325.5	310.5	295.6	280.7	264.4	249.5	233.3
72.5°	462.4	447.5	431.2	415.0	397.3	378.4	359.4	339.0	320.0	301.1	280.7
70°	554.6	537.0	516.7	496.3	474.6	451.6	428.5	404.1	379.7	355.3	330.9
67.5°	653.6	631.9	607.5	583.1	556.0	528.9	501.8	473.3	443.4	413.6	385.1
65°	759.4	732.3	703.8	672.6	641.4	610.2	577.7	543.8	509.9	474.6	443.4
62.5°	877.4	843.5	806.9	768.9	733.7	695.7	660.4	618.4	577.7	538.4	499.0
60°	1014.4	969.6	924.9	877.4	832.7	783.8	740.4	694.3	648.2	603.5	557.4
57.5°	1167.6	1110.7	1056.4	999.5	939.8	885.5	829.9	774.3	722.8	669.9	619.7
55°	1341.2	1272.0	1204.2	1133.7	1064.5	996.7	926.2	863.8	800.1	740.4	682.1
52.5°	1531.0	1452.4	1368.3	1288.3	1200.2	1116.1	1037.4	958.8	884.2	812.3	745.9
50°	1734.5	1642.3	1546.0	1448.3	1348.0	1249.0	1154.1	1061.8	975.0	891.0	812.3
47.5°	1946.0	1841.6	1731.8	1620.6	1513.4	1392.7	1278.8	1174.4	1070.0	975.0	884.2
45°	2163.0	2045.0	1924.3	1798.2	1672.1	1541.9	1415.8	1288.3	1174.4	1061.8	958.8
42.5°	2386.8	2253.9	2119.6	1979.9	1840.2	1697.9	1555.5	1415.8	1278.8	1154.1	1037.4
40°	2617.3	2470.8	2317.6	2165.7	2016.5	1853.8	1697.9	1541.9	1392.7	1249.0	1116.1
37.5°	2847.8	2687.8	2522.4	2351.5	2180.6	2016.5	1840.2	1672.1	1513.4	1348.0	1200.2
35°	3079.7	2903.4	2724.4	2538.6	2351.5	2165.7	1979.9	1798.2	1620.6	1448.3	1288.3
32.5°	3313.0	3120.4	2922.4	2724.4	2522.4	2317.6	2119.6	1924.3	1731.8	1546.0	1368.3
30°	3542.2	3333.3	3120.4	2903.4	2687.8	2470.8	2253.9	2045.0	1841.6	1642.3	1452.4
27.5°	3765.9	3542.2	3313.0	3079.7	2847.8	2617.3	2386.8	2163.0	1946.0	1734.5	1531.0
25°	3981.5	3742.9	3497.4	3249.2	3002.4	2757.0	2514.2	2272.8	2045.0	1822.6	1609.7
22.5°	4185.0	3932.7	3673.7	3410.6	3146.2	2887.2	2632.2	2381.3	2138.6	1905.3	1681.6
20°	4380.2	4110.4	3847.3	3559.8	3283.1	3010.6	2743.4	2480.3	2224.0	1981.3	1746.7
17.5°	4557.9	4274.5	3987.0	3698.1	3407.9	3121.8	2842.4	2580.7	2302.7	2050.4	1809.1
15°	4717.9	4422.3	4121.2	3821.5	3519.1	3222.1	2931.9	2649.8	2374.6	2112.8	1863.3
12.5°	4857.6	4551.1	4239.2	3928.7	3618.1	3310.3	3010.6	2719.0	2436.9	2165.7	1909.4
10°	4972.9	4659.6	4338.2	4018.2	3699.5	3383.5	3074.3	2777.3	2488.5	2210.5	1947.4
7.5°	5066.4	4745.0	4418.2	4088.7	3763.2	3440.5	3125.8	2822.1	2529.1	2244.4	1977.2
5°	5132.9	4807.4	4475.2	4138.9	3809.3	3482.5	3162.5	2854.6	2557.6	2268.8	1998.9
2.5°	5174.9	4857.6	4521.3	4180.9	3847.3	3516.4	3192.3	2880.4	2580.7	2289.1	2016.5
0°	5188.5	4857.6	4521.3	4180.9	3847.3	3516.4	3192.3	2880.4	2580.7	2289.1	2016.5

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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°	32.5	29.8	27.1	25.8	23.1	21.7	19.0	16.3	14.9	12.2	9.5
85°	65.1	59.7	55.6	51.5	47.5	42.0	38.0	33.9	28.5	24.4	19.0
82.5°	99.0	92.2	85.4	78.7	71.9	65.1	57.0	50.2	43.4	36.6	28.5
80°	137.0	126.1	116.6	107.1	97.6	88.1	77.3	67.8	57.0	47.5	38.0
77.5°	176.3	164.1	150.5	137.0	123.4	111.2	97.6	85.4	73.2	59.7	47.5
75°	218.3	202.1	187.1	169.5	153.2	135.6	119.3	103.1	88.1	73.2	57.0
72.5°	261.7	241.4	221.0	202.1	181.7	161.4	142.4	122.0	103.1	85.4	67.8
70°	306.5	282.1	257.7	234.6	211.6	187.1	165.4	142.4	119.3	97.6	77.3
67.5°	353.9	325.5	297.0	267.2	241.4	214.3	187.1	161.4	135.6	111.2	88.1
65°	405.5	371.6	336.3	305.1	271.2	241.4	211.6	181.7	153.2	123.4	97.6
62.5°	458.4	419.0	379.7	340.4	305.1	267.2	234.6	202.1	169.5	137.0	107.1
60°	512.6	467.9	423.1	379.7	336.3	297.0	257.7	221.0	187.1	150.5	116.6
57.5°	568.2	518.0	467.9	419.0	371.6	325.5	282.1	241.4	202.1	164.1	126.1
55°	625.2	568.2	512.6	458.4	405.5	353.9	306.5	261.7	218.3	176.3	137.0
52.5°	682.1	619.7	557.4	499.0	443.4	385.1	330.9	280.7	233.3	189.9	146.5
50°	740.4	669.9	603.5	538.4	474.6	413.6	355.3	301.1	249.5	202.1	156.0
47.5°	800.1	722.8	648.2	577.7	509.9	443.4	379.7	320.0	264.4	214.3	165.4
45°	863.8	774.3	694.3	618.4	543.8	473.3	404.1	339.0	280.7	226.5	174.9
42.5°	926.2	829.9	740.4	660.4	577.7	501.8	428.5	359.4	295.6	237.3	183.1
40°	996.7	885.5	783.8	695.7	610.2	528.9	451.6	378.4	310.5	248.2	191.2
37.5°	1064.5	939.8	832.7	733.7	641.4	556.0	474.6	397.3	325.5	259.0	199.3
35°	1133.7	999.5	877.4	768.9	672.6	583.1	496.3	415.0	337.7	268.5	207.5
32.5°	1204.2	1056.4	924.9	806.9	703.8	607.5	516.7	431.2	351.2	279.4	214.3
30°	1272.0	1110.7	969.6	843.5	732.3	631.9	537.0	447.5	364.8	288.9	221.0
27.5°	1341.2	1167.6	1014.4	877.4	759.4	653.6	554.6	462.4	377.0	298.3	227.8
25°	1407.6	1221.9	1056.4	910.0	783.8	675.3	573.6	477.4	387.8	306.5	233.3
22.5°	1468.7	1269.3	1094.4	941.1	809.6	694.3	589.9	490.9	398.7	314.6	238.7
20°	1524.3	1318.1	1133.7	972.3	834.0	713.3	603.5	503.1	408.2	321.4	244.1
17.5°	1578.5	1362.9	1169.0	1000.8	854.3	729.6	617.0	512.6	416.3	326.8	248.2
15°	1624.6	1402.2	1200.2	1025.2	873.3	743.1	627.9	522.1	423.1	332.2	250.9
12.5°	1665.3	1436.1	1227.3	1045.6	888.3	755.4	638.7	530.2	429.9	336.3	254.9
10°	1697.9	1463.2	1249.0	1063.2	901.8	764.8	645.5	537.0	434.0	340.4	257.7
7.5°	1723.6	1484.9	1266.6	1075.4	911.3	773.0	652.3	541.1	438.0	343.1	261.7
5°	1742.6	1501.2	1278.8	1084.9	919.4	782.5	660.4	547.9	443.4	347.2	261.7
2.5°	1757.5	1513.4	1288.3	1093.0	924.9	782.5	660.4	547.9	443.4	347.2	261.7
0°	1757.5	1513.4	1288.3	1093.0	924.9	782.5	660.4	547.9	443.4	347.2	261.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.8	5.4	2.7	0.0
85°	14.9	9.5	5.4	0.0
82.5°	21.7	14.9	6.8	0.0
80°	28.5	19.0	9.5	0.0
77.5°	36.6	24.4	12.2	0.0
75°	43.4	28.5	14.9	0.0
72.5°	50.2	33.9	16.3	0.0
70°	57.0	38.0	19.0	0.0
67.5°	65.1	42.0	21.7	0.0
65°	71.9	47.5	23.1	0.0
62.5°	78.7	51.5	25.8	0.0
60°	85.4	55.6	27.1	0.0
57.5°	92.2	59.7	29.8	0.0
55°	99.0	65.1	32.5	0.0
52.5°	105.8	69.2	33.9	0.0
50°	112.6	73.2	35.3	0.0
47.5°	118.0	77.3	38.0	0.0
45°	124.8	81.4	39.3	0.0
42.5°	131.5	84.1	40.7	0.0
40°	137.0	88.1	42.0	0.0
37.5°	143.7	90.9	44.8	0.0
35°	149.2	94.9	46.1	0.0
32.5°	153.2	97.6	47.5	0.0
30°	158.7	100.4	48.8	0.0
27.5°	162.7	103.1	48.8	0.0
25°	166.8	105.8	50.2	0.0
22.5°	170.9	107.1	51.5	0.0
20°	174.9	109.8	52.9	0.0
17.5°	177.7	111.2	52.9	0.0
15°	180.4	112.6	55.6	0.0
12.5°	181.7	113.9	55.6	0.0
10°	184.4	116.6	55.6	0.0
7.5°	187.1	116.6	55.6	0.0
5°	187.1	116.6	55.6	0.0
2.5°	187.1	116.6	55.6	0.0
0°	187.1	116.6	55.6	0.0

(END OF REPORT)