

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: P624554

Luminaire Tested: **IFLD-S-SA2B-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

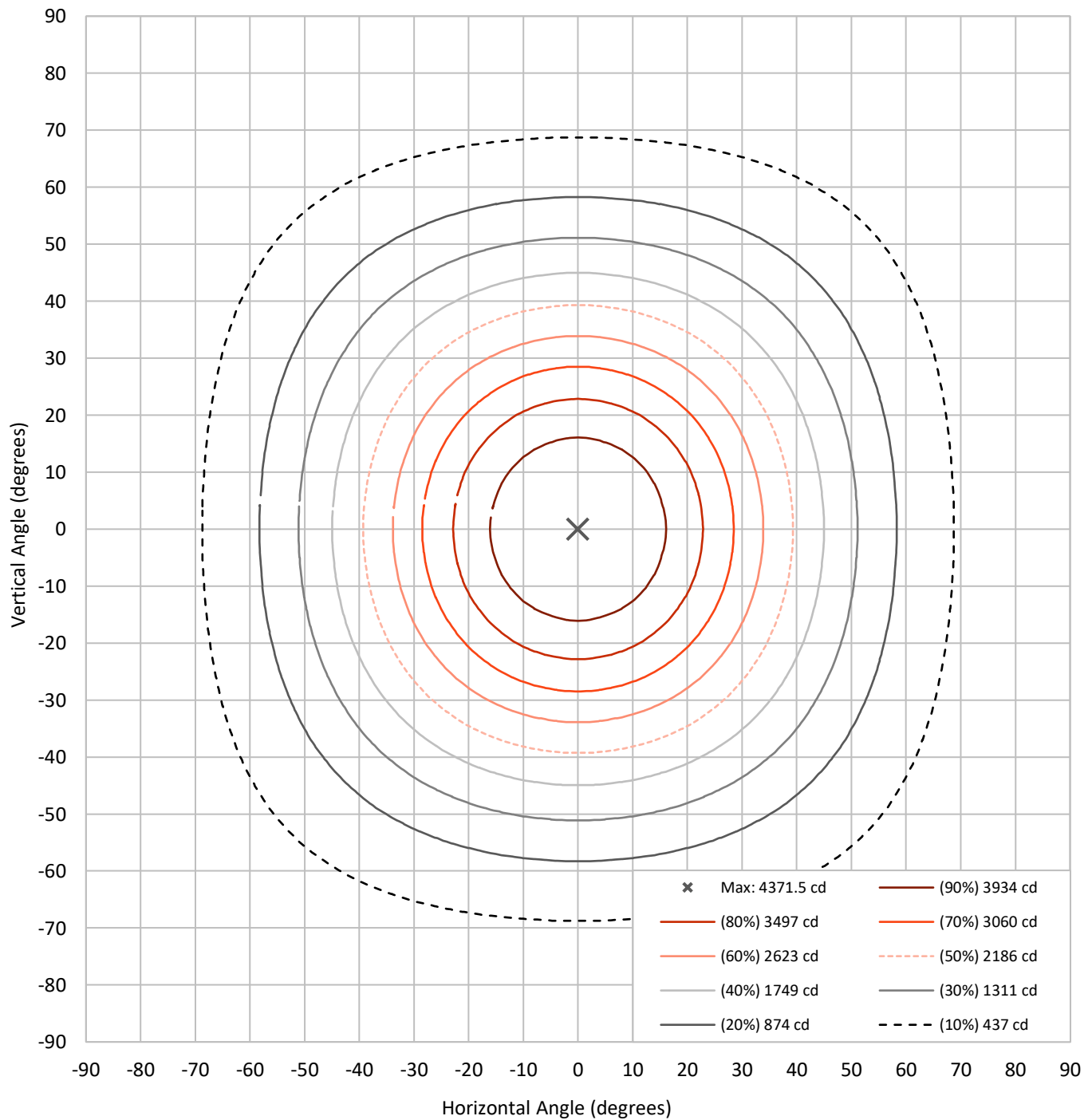
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7870.9 lumens	Max Intensity:	4371.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3405.7 lumens	Field Lumens:	5576.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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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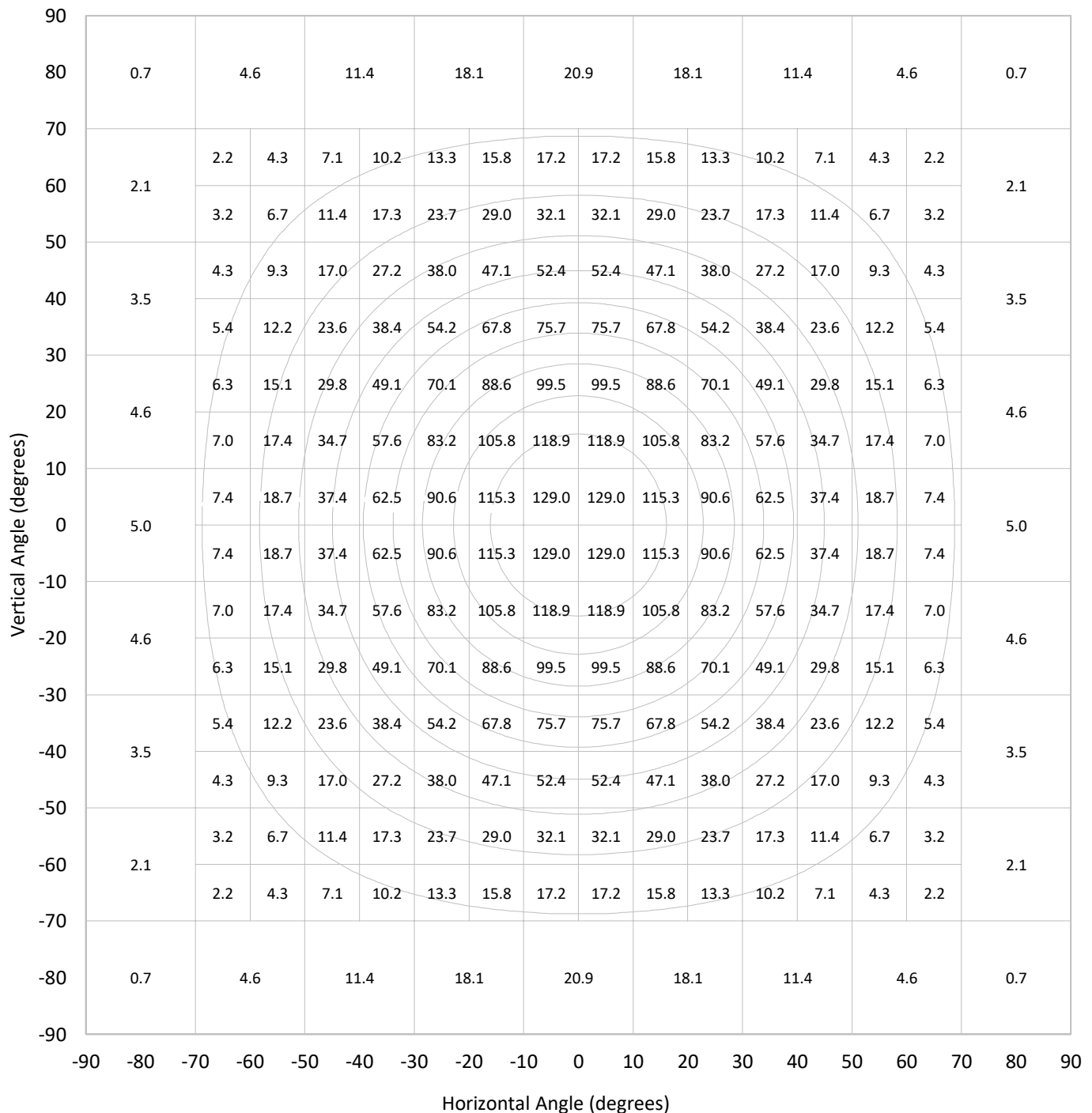
Iso-Candela Plot



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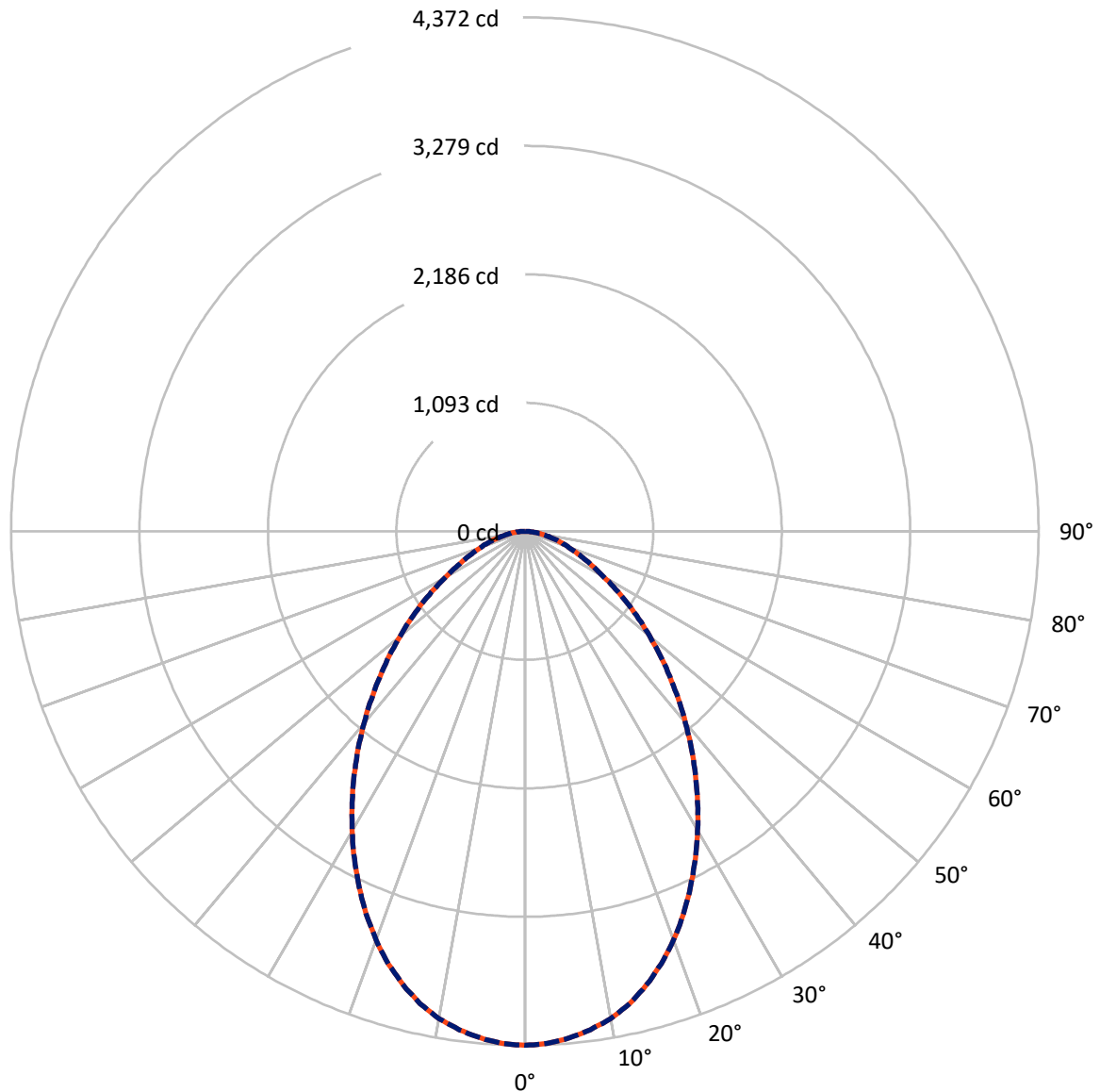
Lumen Table



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Luminous Intensity Polar Plot



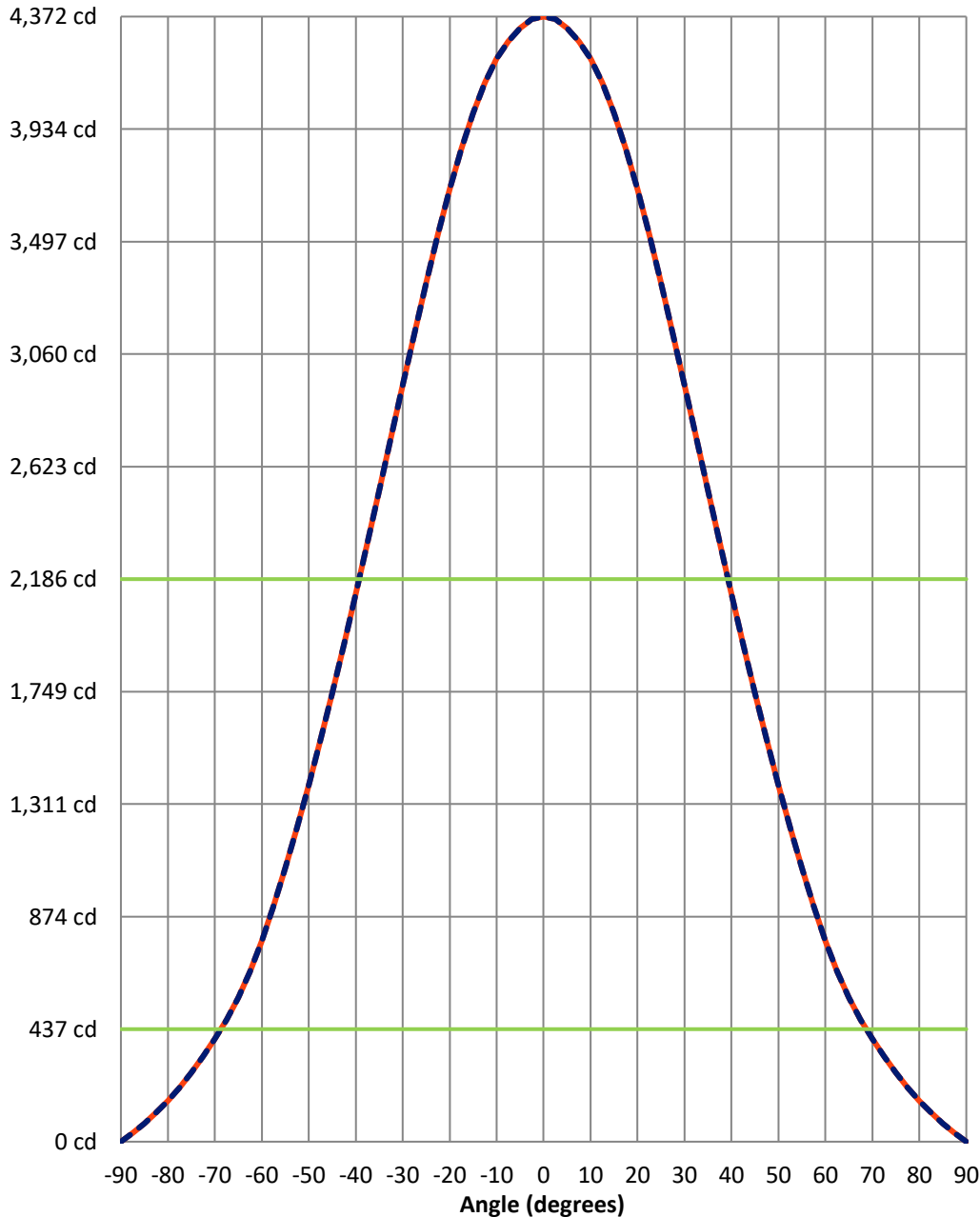
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 3405.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 5576.7
Efficiency: 70.9%

Spill:
Lumens: 2294.3
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°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	32.0	32.0	31.2	30.4
85°	70.6	70.6	70.6	70.6	70.6	68.9	68.1	67.3	66.5	64.8	64.0
82.5°	113.2	113.2	113.2	113.2	111.6	110.0	109.1	107.5	105.9	103.4	100.9
80°	158.4	158.4	158.4	158.4	155.9	154.3	151.8	150.2	147.7	144.4	141.1
77.5°	210.1	210.1	210.1	207.6	206.0	203.5	201.1	197.8	194.5	190.4	185.5
75°	268.3	268.3	268.3	265.1	262.6	260.1	256.0	251.9	247.0	241.3	234.7
72.5°	331.5	331.5	331.5	327.4	325.0	320.9	315.9	310.2	304.5	297.1	288.9
70°	399.6	399.6	399.6	394.7	390.6	386.5	379.9	373.4	365.2	357.0	347.1
67.5°	473.5	473.5	473.5	467.8	462.8	457.1	449.7	441.5	431.6	420.2	408.7
65°	559.7	559.7	556.4	551.5	545.7	537.5	528.5	517.0	504.7	489.9	474.3
62.5°	661.4	661.4	656.5	650.8	643.4	632.7	620.4	605.6	588.4	569.5	550.6
60°	779.6	779.6	773.8	766.5	755.8	742.7	726.3	707.4	686.0	662.2	639.3
57.5°	915.8	915.8	908.4	898.6	885.5	869.0	848.5	824.7	797.6	768.1	739.4
55°	1063.5	1063.5	1054.5	1043.0	1027.4	1007.7	983.1	955.2	922.4	888.7	851.8
52.5°	1220.3	1220.3	1209.6	1196.5	1178.4	1155.4	1127.5	1094.7	1057.0	1017.6	974.1
50°	1385.2	1385.2	1372.9	1358.1	1337.6	1310.5	1278.5	1240.8	1198.9	1153.0	1102.9
47.5°	1561.7	1561.7	1547.7	1530.5	1505.8	1474.7	1436.9	1393.4	1345.8	1294.1	1237.5
45°	1743.0	1743.0	1727.4	1707.7	1680.6	1645.4	1603.5	1561.7	1500.9	1441.0	1375.4
42.5°	1931.8	1931.8	1913.7	1891.5	1860.4	1821.8	1774.2	1720.0	1660.1	1592.8	1521.4
40°	2127.9	2127.9	2107.4	2081.9	2047.5	2003.1	1949.8	1889.1	1821.8	1747.1	1668.3
37.5°	2328.1	2328.1	2305.1	2277.2	2238.7	2189.4	2129.5	2062.2	1986.7	1903.9	1816.9
35°	2530.0	2530.0	2504.5	2474.2	2431.5	2377.4	2312.5	2237.8	2154.1	2063.9	1966.2
32.5°	2736.0	2736.0	2708.1	2673.6	2625.2	2565.3	2493.9	2412.6	2328.1	2223.1	2116.4
30°	2939.5	2939.5	2909.1	2871.4	2819.7	2754.0	2676.1	2586.6	2487.3	2379.8	2264.9
27.5°	3139.7	3131.5	3106.1	3065.9	3009.2	2939.5	2855.0	2758.1	2650.6	2532.5	2409.4
25°	3336.7	3327.6	3299.7	3255.4	3194.7	3118.4	3027.3	2923.9	2808.2	2683.4	2548.9
22.5°	3525.4	3515.6	3486.0	3438.4	3373.6	3290.7	3193.1	3082.3	2959.2	2825.4	2683.4
20°	3700.2	3689.5	3659.2	3609.1	3541.8	3454.0	3350.6	3231.6	3100.3	2959.2	2808.2
17.5°	3857.8	3847.1	3815.1	3763.4	3700.2	3602.5	3495.9	3370.3	3231.6	3082.3	2923.9
15°	3996.4	3985.0	3952.1	3900.4	3828.2	3736.3	3623.9	3495.9	3350.6	3193.1	3027.3
12.5°	4114.6	4103.1	4069.5	4017.8	3943.1	3851.2	3736.3	3602.5	3454.0	3290.7	3118.4
10°	4208.2	4196.7	4164.7	4115.4	4038.3	3943.1	3828.2	3700.2	3541.8	3373.6	3194.7
7.5°	4275.5	4264.8	4235.2	4186.0	4115.4	4017.8	3900.4	3763.4	3609.1	3438.4	3255.4
5°	4326.3	4314.0	4284.5	4235.2	4164.7	4069.5	3952.1	3815.1	3659.2	3486.0	3299.7
2.5°	4361.6	4346.9	4314.0	4264.8	4196.7	4103.1	3985.0	3847.1	3689.5	3515.6	3327.6
0°	4371.5	4361.6	4326.3	4275.5	4208.2	4114.6	3996.4	3857.8	3700.2	3525.4	3336.7

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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°	29.5	29.5	28.7	27.9	27.1	25.4	24.6	23.8	23.0	21.3	20.5
85°	62.4	60.7	59.1	57.4	55.0	53.3	50.9	49.2	46.8	44.3	41.9
82.5°	98.5	96.0	92.7	90.3	87.0	82.9	79.6	75.5	71.4	68.1	64.0
80°	137.9	133.8	129.7	125.6	120.6	115.7	110.8	105.9	100.1	94.4	88.6
77.5°	180.5	174.8	169.0	162.5	156.7	150.2	143.6	137.0	129.7	122.3	114.9
75°	228.1	220.7	212.5	204.3	197.0	187.9	178.9	169.9	160.0	151.0	141.1
72.5°	279.8	270.8	261.0	251.1	240.4	229.0	217.5	205.2	193.7	182.2	169.9
70°	335.6	325.0	312.7	300.3	287.2	273.3	259.3	244.5	229.8	215.0	200.2
67.5°	395.5	382.4	367.6	352.9	336.5	320.0	303.6	286.4	268.3	250.3	233.1
65°	459.6	443.1	425.9	407.0	388.2	369.3	349.6	329.1	308.6	287.2	268.3
62.5°	530.9	510.4	488.3	465.3	444.0	421.0	399.6	374.2	349.6	325.8	302.0
60°	613.8	586.7	559.7	530.9	503.9	474.3	448.1	420.2	392.3	365.2	337.3
57.5°	706.6	672.1	639.3	604.8	568.7	535.9	502.2	468.6	437.4	405.4	375.0
55°	811.6	769.7	728.7	686.0	644.2	603.2	560.5	522.7	484.2	448.1	412.8
52.5°	926.5	878.9	828.0	779.6	726.3	675.4	627.8	580.2	535.0	491.6	451.3
50°	1049.6	993.8	935.5	876.4	815.7	755.8	698.4	642.5	590.0	539.2	491.6
47.5°	1177.6	1114.4	1047.9	980.6	915.8	842.8	773.8	710.7	647.5	590.0	535.0
45°	1308.9	1237.5	1164.5	1088.1	1011.8	933.1	856.7	779.6	710.7	642.5	580.2
42.5°	1444.3	1363.9	1282.6	1198.1	1113.6	1027.4	941.3	856.7	773.8	698.4	627.8
40°	1583.8	1495.2	1402.4	1310.5	1220.3	1121.8	1027.4	933.1	842.8	755.8	675.4
37.5°	1723.3	1626.5	1526.4	1423.0	1319.6	1220.3	1113.6	1011.8	915.8	815.7	726.3
35°	1863.6	1757.0	1648.6	1536.2	1423.0	1310.5	1198.1	1088.1	980.6	876.4	779.6
32.5°	2004.8	1888.3	1768.4	1648.6	1526.4	1402.4	1282.6	1164.5	1047.9	935.5	828.0
30°	2143.5	2017.1	1888.3	1757.0	1626.5	1495.2	1363.9	1237.5	1114.4	993.8	878.9
27.5°	2278.9	2143.5	2004.8	1863.6	1723.3	1583.8	1444.3	1308.9	1177.6	1049.6	926.5
25°	2409.4	2264.9	2116.4	1966.2	1816.9	1668.3	1521.4	1375.4	1237.5	1102.9	974.1
22.5°	2532.5	2379.8	2223.1	2063.9	1903.9	1747.1	1592.8	1441.0	1294.1	1153.0	1017.6
20°	2650.6	2487.3	2328.1	2154.1	1986.7	1821.8	1660.1	1500.9	1345.8	1198.9	1057.0
17.5°	2758.1	2586.6	2412.6	2237.8	2062.2	1889.1	1720.0	1561.7	1393.4	1240.8	1094.7
15°	2855.0	2676.1	2493.9	2312.5	2129.5	1949.8	1774.2	1603.5	1436.9	1278.5	1127.5
12.5°	2939.5	2754.0	2565.3	2377.4	2189.4	2003.1	1821.8	1645.4	1474.7	1310.5	1155.4
10°	3009.2	2819.7	2625.2	2431.5	2238.7	2047.5	1860.4	1680.6	1505.8	1337.6	1178.4
7.5°	3065.9	2871.4	2673.6	2474.2	2277.2	2081.9	1891.5	1707.7	1530.5	1358.1	1196.5
5°	3106.1	2909.1	2708.1	2504.5	2305.1	2107.4	1913.7	1727.4	1547.7	1372.9	1209.6
2.5°	3131.5	2939.5	2736.0	2530.0	2328.1	2127.9	1931.8	1743.0	1561.7	1385.2	1220.3
0°	3139.7	2939.5	2736.0	2530.0	2328.1	2127.9	1931.8	1743.0	1561.7	1385.2	1220.3

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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°	19.7	18.1	16.4	15.6	14.0	13.1	11.5	9.8	9.0	7.4	5.7
85°	39.4	36.1	33.6	31.2	28.7	25.4	23.0	20.5	17.2	14.8	11.5
82.5°	59.9	55.8	51.7	47.6	43.5	39.4	34.5	30.4	26.3	22.2	17.2
80°	82.9	76.3	70.6	64.8	59.1	53.3	46.8	41.0	34.5	28.7	23.0
77.5°	106.7	99.3	91.1	82.9	74.7	67.3	59.1	51.7	44.3	36.1	28.7
75°	132.1	122.3	113.2	102.6	92.7	82.1	72.2	62.4	53.3	44.3	34.5
72.5°	158.4	146.1	133.8	122.3	110.0	97.7	86.2	73.9	62.4	51.7	41.0
70°	185.5	170.7	155.9	142.0	128.0	113.2	100.1	86.2	72.2	59.1	46.8
67.5°	214.2	197.0	179.7	161.7	146.1	129.7	113.2	97.7	82.1	67.3	53.3
65°	245.4	224.9	203.5	184.6	164.1	146.1	128.0	110.0	92.7	74.7	59.1
62.5°	277.4	253.6	229.8	206.0	184.6	161.7	142.0	122.3	102.6	82.9	64.8
60°	310.2	283.1	256.0	229.8	203.5	179.7	155.9	133.8	113.2	91.1	70.6
57.5°	343.8	313.5	283.1	253.6	224.9	197.0	170.7	146.1	122.3	99.3	76.3
55°	378.3	343.8	310.2	277.4	245.4	214.2	185.5	158.4	132.1	106.7	82.9
52.5°	412.8	375.0	337.3	302.0	268.3	233.1	200.2	169.9	141.1	114.9	88.6
50°	448.1	405.4	365.2	325.8	287.2	250.3	215.0	182.2	151.0	122.3	94.4
47.5°	484.2	437.4	392.3	349.6	308.6	268.3	229.8	193.7	160.0	129.7	100.1
45°	522.7	468.6	420.2	374.2	329.1	286.4	244.5	205.2	169.9	137.0	105.9
42.5°	560.5	502.2	448.1	399.6	349.6	303.6	259.3	217.5	178.9	143.6	110.8
40°	603.2	535.9	474.3	421.0	369.3	320.0	273.3	229.0	187.9	150.2	115.7
37.5°	644.2	568.7	503.9	444.0	388.2	336.5	287.2	240.4	197.0	156.7	120.6
35°	686.0	604.8	530.9	465.3	407.0	352.9	300.3	251.1	204.3	162.5	125.6
32.5°	728.7	639.3	559.7	488.3	425.9	367.6	312.7	261.0	212.5	169.0	129.7
30°	769.7	672.1	586.7	510.4	443.1	382.4	325.0	270.8	220.7	174.8	133.8
27.5°	811.6	706.6	613.8	530.9	459.6	395.5	335.6	279.8	228.1	180.5	137.9
25°	851.8	739.4	639.3	550.6	474.3	408.7	347.1	288.9	234.7	185.5	141.1
22.5°	888.7	768.1	662.2	569.5	489.9	420.2	357.0	297.1	241.3	190.4	144.4
20°	922.4	797.6	686.0	588.4	504.7	431.6	365.2	304.5	247.0	194.5	147.7
17.5°	955.2	824.7	707.4	605.6	517.0	441.5	373.4	310.2	251.9	197.8	150.2
15°	983.1	848.5	726.3	620.4	528.5	449.7	379.9	315.9	256.0	201.1	151.8
12.5°	1007.7	869.0	742.7	632.7	537.5	457.1	386.5	320.9	260.1	203.5	154.3
10°	1027.4	885.5	755.8	643.4	545.7	462.8	390.6	325.0	262.6	206.0	155.9
7.5°	1043.0	898.6	766.5	650.8	551.5	467.8	394.7	327.4	265.1	207.6	158.4
5°	1054.5	908.4	773.8	656.5	556.4	473.5	399.6	331.5	268.3	210.1	158.4
2.5°	1063.5	915.8	779.6	661.4	559.7	473.5	399.6	331.5	268.3	210.1	158.4
0°	1063.5	915.8	779.6	661.4	559.7	473.5	399.6	331.5	268.3	210.1	158.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	3.3	1.6	0.0
85°	9.0	5.7	3.3	0.0
82.5°	13.1	9.0	4.1	0.0
80°	17.2	11.5	5.7	0.0
77.5°	22.2	14.8	7.4	0.0
75°	26.3	17.2	9.0	0.0
72.5°	30.4	20.5	9.8	0.0
70°	34.5	23.0	11.5	0.0
67.5°	39.4	25.4	13.1	0.0
65°	43.5	28.7	14.0	0.0
62.5°	47.6	31.2	15.6	0.0
60°	51.7	33.6	16.4	0.0
57.5°	55.8	36.1	18.1	0.0
55°	59.9	39.4	19.7	0.0
52.5°	64.0	41.9	20.5	0.0
50°	68.1	44.3	21.3	0.0
47.5°	71.4	46.8	23.0	0.0
45°	75.5	49.2	23.8	0.0
42.5°	79.6	50.9	24.6	0.0
40°	82.9	53.3	25.4	0.0
37.5°	87.0	55.0	27.1	0.0
35°	90.3	57.4	27.9	0.0
32.5°	92.7	59.1	28.7	0.0
30°	96.0	60.7	29.5	0.0
27.5°	98.5	62.4	29.5	0.0
25°	100.9	64.0	30.4	0.0
22.5°	103.4	64.8	31.2	0.0
20°	105.9	66.5	32.0	0.0
17.5°	107.5	67.3	32.0	0.0
15°	109.1	68.1	33.6	0.0
12.5°	110.0	68.9	33.6	0.0
10°	111.6	70.6	33.6	0.0
7.5°	113.2	70.6	33.6	0.0
5°	113.2	70.6	33.6	0.0
2.5°	113.2	70.6	33.6	0.0
0°	113.2	70.6	33.6	0.0

(END OF REPORT)