

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: P624536

Luminaire Tested: **IFLD-S-SA6C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

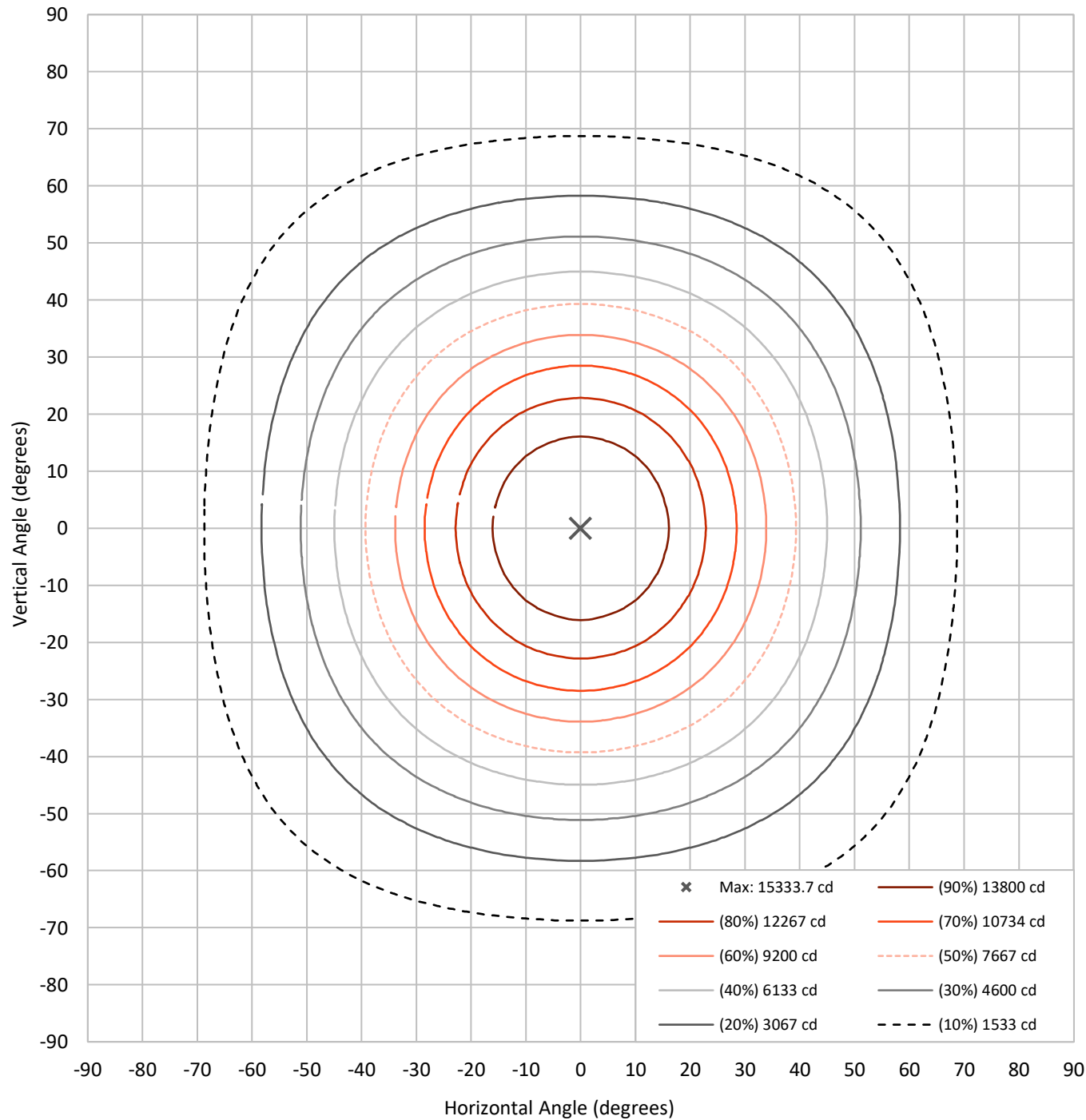
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27608.8 lumens	Max Intensity:	15333.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11946 lumens	Field Lumens:	19561.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	321.5		
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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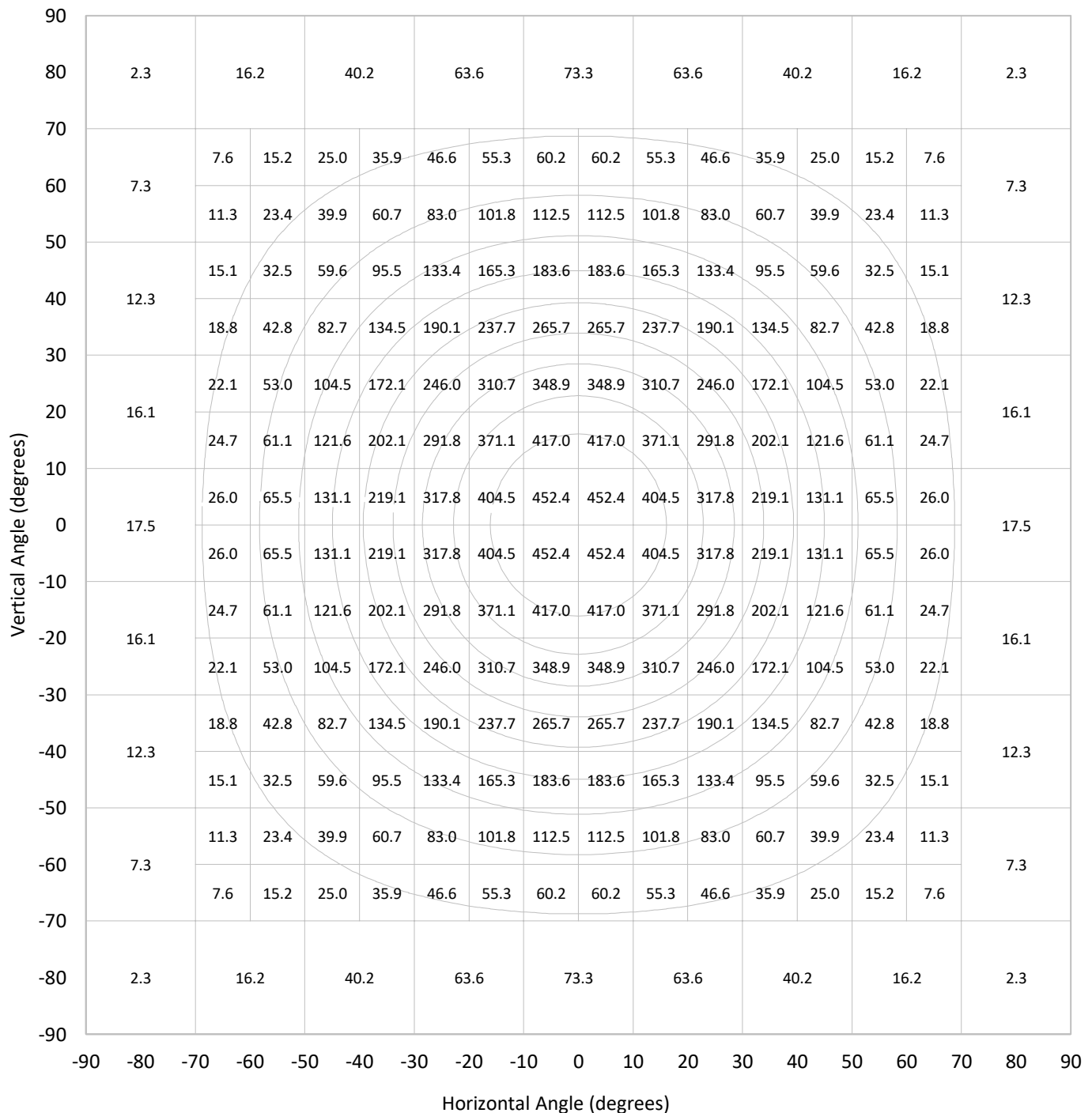
Iso-Candela Plot



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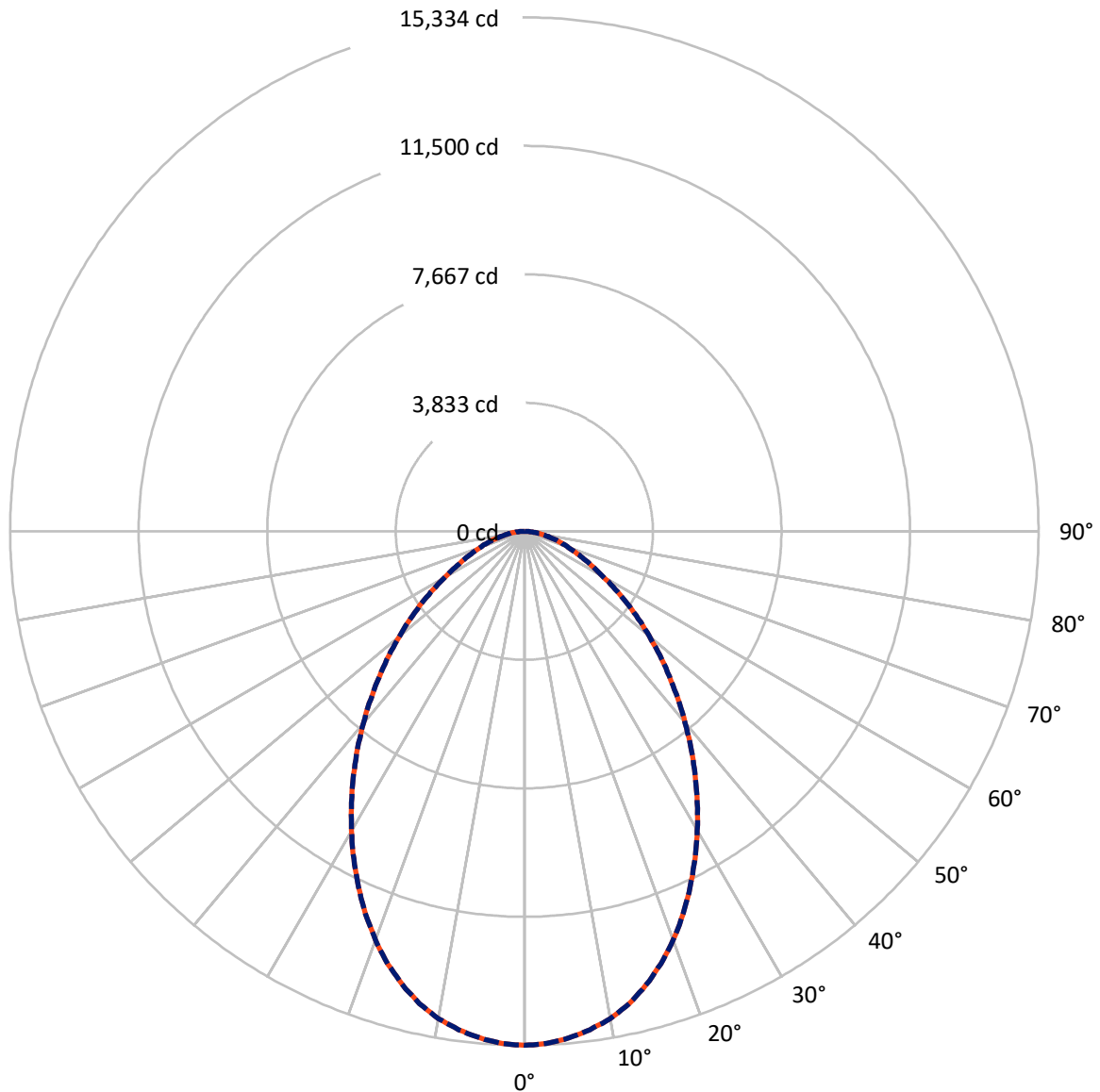
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Lumen Table



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Luminous Intensity Polar Plot

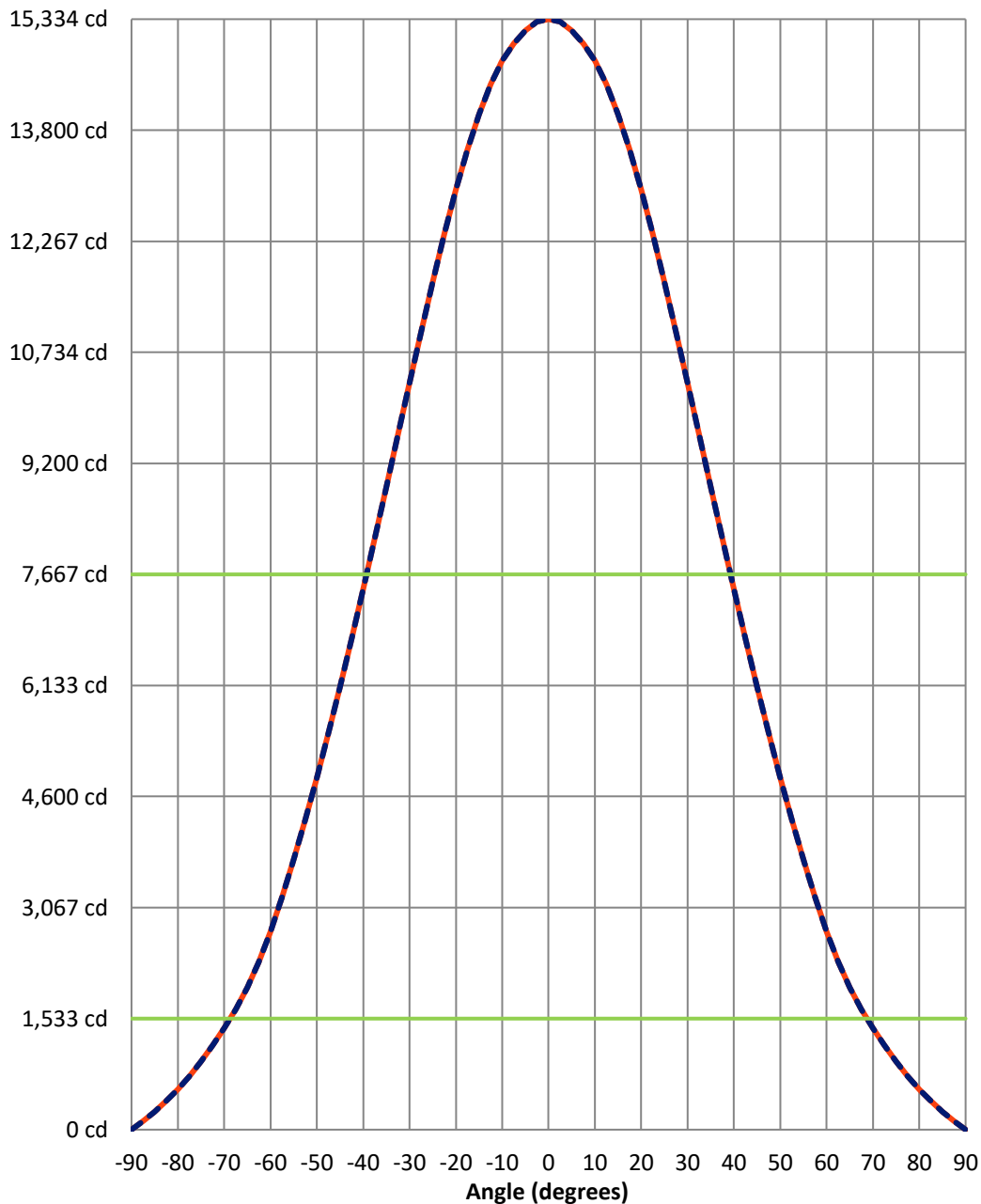


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11946
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 19561.2
Efficiency: 70.9%

Spill:

Lumens: 8047.5
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°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	112.3	112.3	109.4	106.5
85°	247.6	247.6	247.6	247.6	247.6	241.8	238.9	236.0	233.2	227.4	224.5
82.5°	397.2	397.2	397.2	397.2	391.5	385.7	382.8	377.1	371.3	362.7	354.1
80°	555.5	555.5	555.5	555.5	546.9	541.2	532.5	526.8	518.1	506.6	495.1
77.5°	736.9	736.9	736.9	728.3	722.5	713.9	705.2	693.7	682.2	667.8	650.5
75°	941.3	941.3	941.3	929.8	921.1	912.5	898.1	883.7	866.4	846.3	823.2
72.5°	1162.9	1162.9	1162.9	1148.5	1139.9	1125.5	1108.2	1088.1	1067.9	1042.0	1013.2
70°	1401.8	1401.8	1401.8	1384.6	1370.2	1355.8	1332.7	1309.7	1280.9	1252.1	1217.6
67.5°	1660.9	1660.9	1660.9	1640.7	1623.5	1603.3	1577.4	1548.6	1514.1	1473.8	1433.5
65°	1963.1	1963.1	1951.6	1934.3	1914.2	1885.4	1853.8	1813.5	1770.3	1718.5	1663.8
62.5°	2320.1	2320.1	2302.8	2282.6	2256.7	2219.3	2176.1	2124.3	2063.9	1997.7	1931.5
60°	2734.6	2734.6	2714.4	2688.5	2651.1	2605.0	2547.5	2481.3	2406.4	2322.9	2242.3
57.5°	3212.4	3212.4	3186.5	3152.0	3105.9	3048.3	2976.4	2892.9	2797.9	2694.3	2593.5
55°	3730.5	3730.5	3698.9	3658.6	3603.9	3534.8	3448.4	3350.6	3235.4	3117.4	2987.9
52.5°	4280.3	4280.3	4242.9	4196.8	4133.5	4052.9	3955.1	3839.9	3707.5	3569.3	3416.8
50°	4858.9	4858.9	4815.7	4763.9	4691.9	4597.0	4484.7	4352.3	4205.5	4044.3	3868.7
47.5°	5477.8	5477.8	5428.8	5368.4	5282.0	5172.7	5040.2	4887.7	4720.7	4539.4	4340.8
45°	6113.9	6113.9	6059.2	5990.2	5895.2	5771.4	5624.6	5477.8	5264.8	5054.6	4824.4
42.5°	6776.0	6776.0	6712.7	6634.9	6525.6	6390.3	6223.3	6033.3	5823.2	5587.2	5336.7
40°	7463.9	7463.9	7392.0	7302.7	7181.8	7026.4	6839.3	6626.3	6390.3	6128.3	5852.0
37.5°	8166.3	8166.3	8085.7	7987.8	7852.5	7679.8	7469.7	7233.7	6968.8	6678.1	6373.0
35°	8874.4	8874.4	8785.2	8678.7	8529.0	8339.0	8111.6	7849.7	7556.1	7239.4	6896.9
32.5°	9596.9	9596.9	9499.0	9378.1	9208.3	8998.2	8747.8	8462.8	8166.3	7797.8	7423.6
30°	10310.8	10310.8	10204.3	10071.9	9890.5	9660.2	9386.8	9073.0	8724.7	8347.6	7944.6
27.5°	11013.1	10984.3	10895.1	10754.1	10555.4	10310.8	10014.3	9674.6	9297.5	8883.0	8451.3
25°	11704.0	11672.3	11574.4	11419.0	11206.0	10938.3	10618.8	10256.1	9850.2	9412.7	8940.6
22.5°	12366.0	12331.5	12227.9	12060.9	11833.5	11542.8	11200.2	10811.6	10379.9	9910.7	9412.7
20°	12979.1	12941.7	12835.2	12659.6	12423.6	12115.6	11752.9	11335.5	10875.0	10379.9	9850.2
17.5°	13531.8	13494.4	13382.1	13200.8	12979.1	12636.6	12262.4	11822.0	11335.5	10811.6	10256.1
15°	14018.3	13978.0	13862.8	13681.5	13428.2	13105.8	12711.4	12262.4	11752.9	11200.2	10618.8
12.5°	14432.8	14392.5	14274.5	14093.1	13831.2	13508.8	13105.8	12636.6	12115.6	11542.8	10938.3
10°	14760.9	14720.6	14608.4	14435.7	14165.1	13831.2	13428.2	12979.1	12423.6	11833.5	11206.0
7.5°	14997.0	14959.5	14855.9	14683.2	14435.7	14093.1	13681.5	13200.8	12659.6	12060.9	11419.0
5°	15175.4	15132.3	15028.6	14855.9	14608.4	14274.5	13862.8	13382.1	12835.2	12227.9	11574.4
2.5°	15299.2	15247.4	15132.3	14959.5	14720.6	14392.5	13978.0	13494.4	12941.7	12331.5	11672.3
0°	15333.7	15299.2	15175.4	14997.0	14760.9	14432.8	14018.3	13531.8	12979.1	12366.0	11704.0

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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°	103.6	103.6	100.7	97.9	95.0	89.2	86.4	83.5	80.6	74.8	72.0
85°	218.8	213.0	207.3	201.5	192.9	187.1	178.5	172.7	164.1	155.4	146.8
82.5°	345.4	336.8	325.3	316.6	305.1	290.7	279.2	264.8	250.4	238.9	224.5
80°	483.6	469.2	454.8	440.4	423.1	405.9	388.6	371.3	351.2	331.0	310.9
77.5°	633.3	613.1	593.0	569.9	549.8	526.8	503.7	480.7	454.8	428.9	403.0
75°	800.2	774.3	745.5	716.7	690.8	659.2	627.5	595.8	561.3	529.6	495.1
72.5°	981.6	949.9	915.4	880.8	843.4	803.1	762.8	719.6	679.3	639.0	595.8
70°	1177.3	1139.9	1096.7	1053.5	1007.5	958.5	909.6	857.8	806.0	754.2	702.4
67.5°	1387.4	1341.4	1289.6	1237.8	1180.2	1122.6	1065.0	1004.6	941.3	877.9	817.5
65°	1612.0	1554.4	1493.9	1427.7	1361.5	1295.3	1226.2	1154.3	1082.3	1007.5	941.3
62.5°	1862.4	1790.4	1712.7	1632.1	1557.3	1476.7	1401.8	1312.6	1226.2	1142.8	1059.3
60°	2153.1	2058.1	1963.1	1862.4	1767.4	1663.8	1571.7	1473.8	1375.9	1280.9	1183.1
57.5°	2478.4	2357.5	2242.3	2121.5	1994.8	1879.7	1761.6	1643.6	1534.2	1422.0	1315.5
55°	2846.8	2700.0	2556.1	2406.4	2259.6	2115.7	1966.0	1833.6	1698.3	1571.7	1447.9
52.5°	3249.8	3082.9	2904.4	2734.6	2547.5	2369.0	2202.0	2035.1	1876.8	1724.2	1583.2
50°	3681.6	3485.9	3281.5	3074.2	2861.2	2651.1	2449.6	2253.9	2069.6	1891.2	1724.2
47.5°	4130.6	3909.0	3675.8	3439.8	3212.4	2956.2	2714.4	2492.8	2271.1	2069.6	1876.8
45°	4591.2	4340.8	4084.6	3816.9	3549.2	3272.9	3005.2	2734.6	2492.8	2253.9	2035.1
42.5°	5066.2	4784.1	4499.1	4202.6	3906.1	3603.9	3301.6	3005.2	2714.4	2449.6	2202.0
40°	5555.5	5244.6	4919.4	4597.0	4280.3	3934.9	3603.9	3272.9	2956.2	2651.1	2369.0
37.5°	6044.8	5705.2	5354.0	4991.3	4628.6	4280.3	3906.1	3549.2	3212.4	2861.2	2547.5
35°	6537.1	6162.9	5782.9	5388.5	4991.3	4597.0	4202.6	3816.9	3439.8	3074.2	2734.6
32.5°	7032.2	6623.4	6203.2	5782.9	5354.0	4919.4	4499.1	4084.6	3675.8	3281.5	2904.4
30°	7518.6	7075.3	6623.4	6162.9	5705.2	5244.6	4784.1	4340.8	3909.0	3485.9	3082.9
27.5°	7993.6	7518.6	7032.2	6537.1	6044.8	5555.5	5066.2	4591.2	4130.6	3681.6	3249.8
25°	8451.3	7944.6	7423.6	6896.9	6373.0	5852.0	5336.7	4824.4	4340.8	3868.7	3416.8
22.5°	8883.0	8347.6	7797.8	7239.4	6678.1	6128.3	5587.2	5054.6	4539.4	4044.3	3569.3
20°	9297.5	8724.7	8166.3	7556.1	6968.8	6390.3	5823.2	5264.8	4720.7	4205.5	3707.5
17.5°	9674.6	9073.0	8462.8	7849.7	7233.7	6626.3	6033.3	5477.8	4887.7	4352.3	3839.9
15°	10014.3	9386.8	8747.8	8111.6	7469.7	6839.3	6223.3	5624.6	5040.2	4484.7	3955.1
12.5°	10310.8	9660.2	8998.2	8339.0	7679.8	7026.4	6390.3	5771.4	5172.7	4597.0	4052.9
10°	10555.4	9890.5	9208.3	8529.0	7852.5	7181.8	6525.6	5895.2	5282.0	4691.9	4133.5
7.5°	10754.1	10071.9	9378.1	8678.7	7987.8	7302.7	6634.9	5990.2	5368.4	4763.9	4196.8
5°	10895.1	10204.3	9499.0	8785.2	8085.7	7392.0	6712.7	6059.2	5428.8	4815.7	4242.9
2.5°	10984.3	10310.8	9596.9	8874.4	8166.3	7463.9	6776.0	6113.9	5477.8	4858.9	4280.3
0°	11013.1	10310.8	9596.9	8874.4	8166.3	7463.9	6776.0	6113.9	5477.8	4858.9	4280.3

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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°	69.1	63.3	57.6	54.7	48.9	46.1	40.3	34.5	31.7	25.9	20.1
85°	138.2	126.7	118.0	109.4	100.7	89.2	80.6	72.0	60.4	51.8	40.3
82.5°	210.1	195.7	181.3	167.0	152.6	138.2	120.9	106.5	92.1	77.7	60.4
80°	290.7	267.7	247.6	227.4	207.3	187.1	164.1	143.9	120.9	100.7	80.6
77.5°	374.2	348.3	319.5	290.7	261.9	236.0	207.3	181.3	155.4	126.7	100.7
75°	463.4	428.9	397.2	359.8	325.3	287.8	253.3	218.8	187.1	155.4	120.9
72.5°	555.5	512.4	469.2	428.9	385.7	342.5	302.2	259.1	218.8	181.3	143.9
70°	650.5	598.7	546.9	498.0	449.0	397.2	351.2	302.2	253.3	207.3	164.1
67.5°	751.3	690.8	630.4	567.1	512.4	454.8	397.2	342.5	287.8	236.0	187.1
65°	860.7	788.7	713.9	647.7	575.7	512.4	449.0	385.7	325.3	261.9	207.3
62.5°	972.9	889.5	806.0	722.5	647.7	567.1	498.0	428.9	359.8	290.7	227.4
60°	1088.1	993.1	898.1	806.0	713.9	630.4	546.9	469.2	397.2	319.5	247.6
57.5°	1206.1	1099.6	993.1	889.5	788.7	690.8	598.7	512.4	428.9	348.3	267.7
55°	1327.0	1206.1	1088.1	972.9	860.7	751.3	650.5	555.5	463.4	374.2	290.7
52.5°	1447.9	1315.5	1183.1	1059.3	941.3	817.5	702.4	595.8	495.1	403.0	310.9
50°	1571.7	1422.0	1280.9	1142.8	1007.5	877.9	754.2	639.0	529.6	428.9	331.0
47.5°	1698.3	1534.2	1375.9	1226.2	1082.3	941.3	806.0	679.3	561.3	454.8	351.2
45°	1833.6	1643.6	1473.8	1312.6	1154.3	1004.6	857.8	719.6	595.8	480.7	371.3
42.5°	1966.0	1761.6	1571.7	1401.8	1226.2	1065.0	909.6	762.8	627.5	503.7	388.6
40°	2115.7	1879.7	1663.8	1476.7	1295.3	1122.6	958.5	803.1	659.2	526.8	405.9
37.5°	2259.6	1994.8	1767.4	1557.3	1361.5	1180.2	1007.5	843.4	690.8	549.8	423.1
35°	2406.4	2121.5	1862.4	1632.1	1427.7	1237.8	1053.5	880.8	716.7	569.9	440.4
32.5°	2556.1	2242.3	1963.1	1712.7	1493.9	1289.6	1096.7	915.4	745.5	593.0	454.8
30°	2700.0	2357.5	2058.1	1790.4	1554.4	1341.4	1139.9	949.9	774.3	613.1	469.2
27.5°	2846.8	2478.4	2153.1	1862.4	1612.0	1387.4	1177.3	981.6	800.2	633.3	483.6
25°	2987.9	2593.5	2242.3	1931.5	1663.8	1433.5	1217.6	1013.2	823.2	650.5	495.1
22.5°	3117.4	2694.3	2322.9	1997.7	1718.5	1473.8	1252.1	1042.0	846.3	667.8	506.6
20°	3235.4	2797.9	2406.4	2063.9	1770.3	1514.1	1280.9	1067.9	866.4	682.2	518.1
17.5°	3350.6	2892.9	2481.3	2124.3	1813.5	1548.6	1309.7	1088.1	883.7	693.7	526.8
15°	3448.4	2976.4	2547.5	2176.1	1853.8	1577.4	1332.7	1108.2	898.1	705.2	532.5
12.5°	3534.8	3048.3	2605.0	2219.3	1885.4	1603.3	1355.8	1125.5	912.5	713.9	541.2
10°	3603.9	3105.9	2651.1	2256.7	1914.2	1623.5	1370.2	1139.9	921.1	722.5	546.9
7.5°	3658.6	3152.0	2688.5	2282.6	1934.3	1640.7	1384.6	1148.5	929.8	728.3	555.5
5°	3698.9	3186.5	2714.4	2302.8	1951.6	1660.9	1401.8	1162.9	941.3	736.9	555.5
2.5°	3730.5	3212.4	2734.6	2320.1	1963.1	1660.9	1401.8	1162.9	941.3	736.9	555.5
0°	3730.5	3212.4	2734.6	2320.1	1963.1	1660.9	1401.8	1162.9	941.3	736.9	555.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.4	11.5	5.8	0.0
85°	31.7	20.1	11.5	0.0
82.5°	46.1	31.7	14.4	0.0
80°	60.4	40.3	20.1	0.0
77.5°	77.7	51.8	25.9	0.0
75°	92.1	60.4	31.7	0.0
72.5°	106.5	72.0	34.5	0.0
70°	120.9	80.6	40.3	0.0
67.5°	138.2	89.2	46.1	0.0
65°	152.6	100.7	48.9	0.0
62.5°	167.0	109.4	54.7	0.0
60°	181.3	118.0	57.6	0.0
57.5°	195.7	126.7	63.3	0.0
55°	210.1	138.2	69.1	0.0
52.5°	224.5	146.8	72.0	0.0
50°	238.9	155.4	74.8	0.0
47.5°	250.4	164.1	80.6	0.0
45°	264.8	172.7	83.5	0.0
42.5°	279.2	178.5	86.4	0.0
40°	290.7	187.1	89.2	0.0
37.5°	305.1	192.9	95.0	0.0
35°	316.6	201.5	97.9	0.0
32.5°	325.3	207.3	100.7	0.0
30°	336.8	213.0	103.6	0.0
27.5°	345.4	218.8	103.6	0.0
25°	354.1	224.5	106.5	0.0
22.5°	362.7	227.4	109.4	0.0
20°	371.3	233.2	112.3	0.0
17.5°	377.1	236.0	112.3	0.0
15°	382.8	238.9	118.0	0.0
12.5°	385.7	241.8	118.0	0.0
10°	391.5	247.6	118.0	0.0
7.5°	397.2	247.6	118.0	0.0
5°	397.2	247.6	118.0	0.0
2.5°	397.2	247.6	118.0	0.0
0°	397.2	247.6	118.0	0.0

(END OF REPORT)