

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: P624515

Luminaire Tested: **IFLD-L-SA7A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

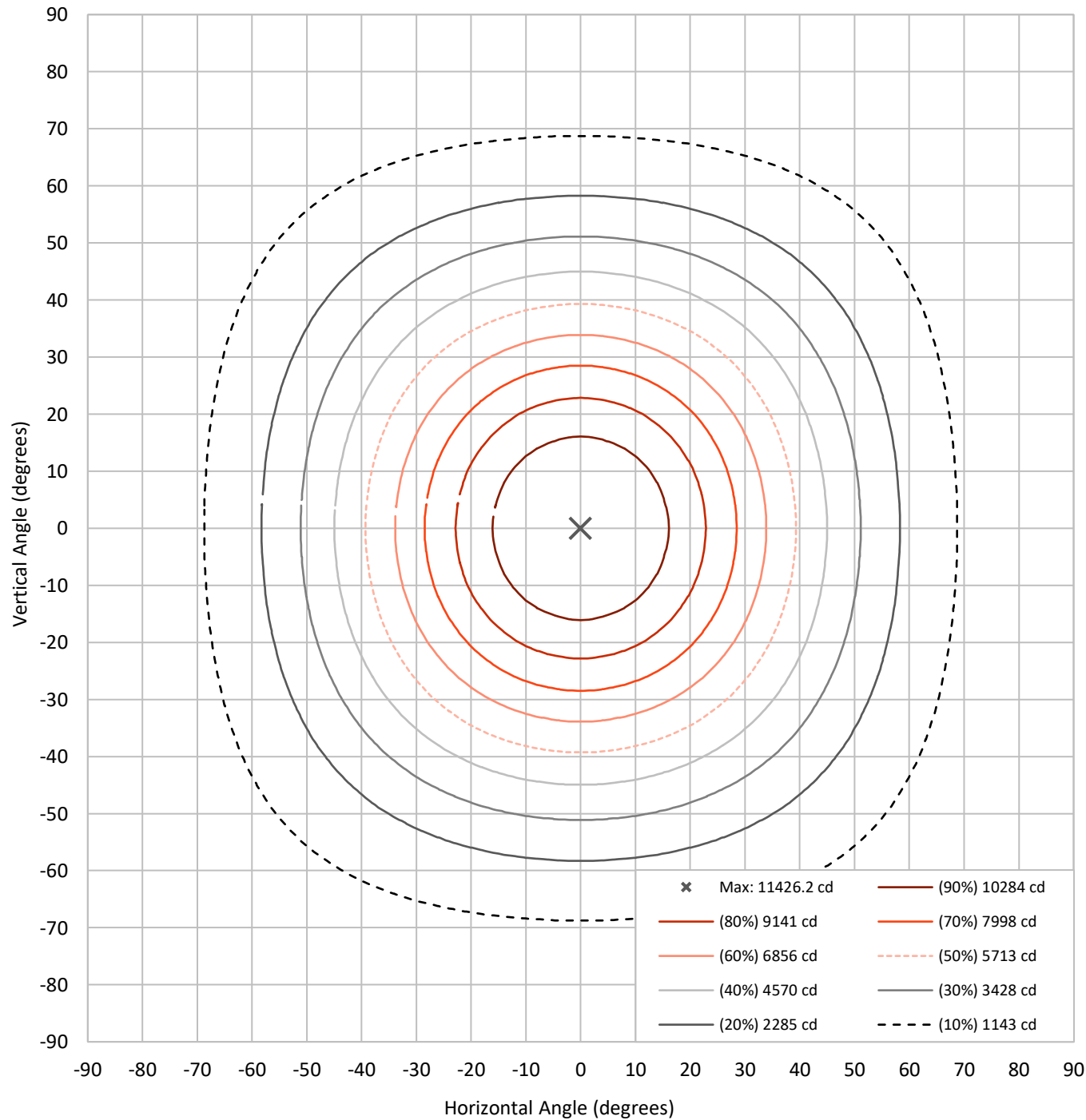
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20573.2 lumens	Max Intensity:	11426.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8901.8 lumens	Field Lumens:	14576.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
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		





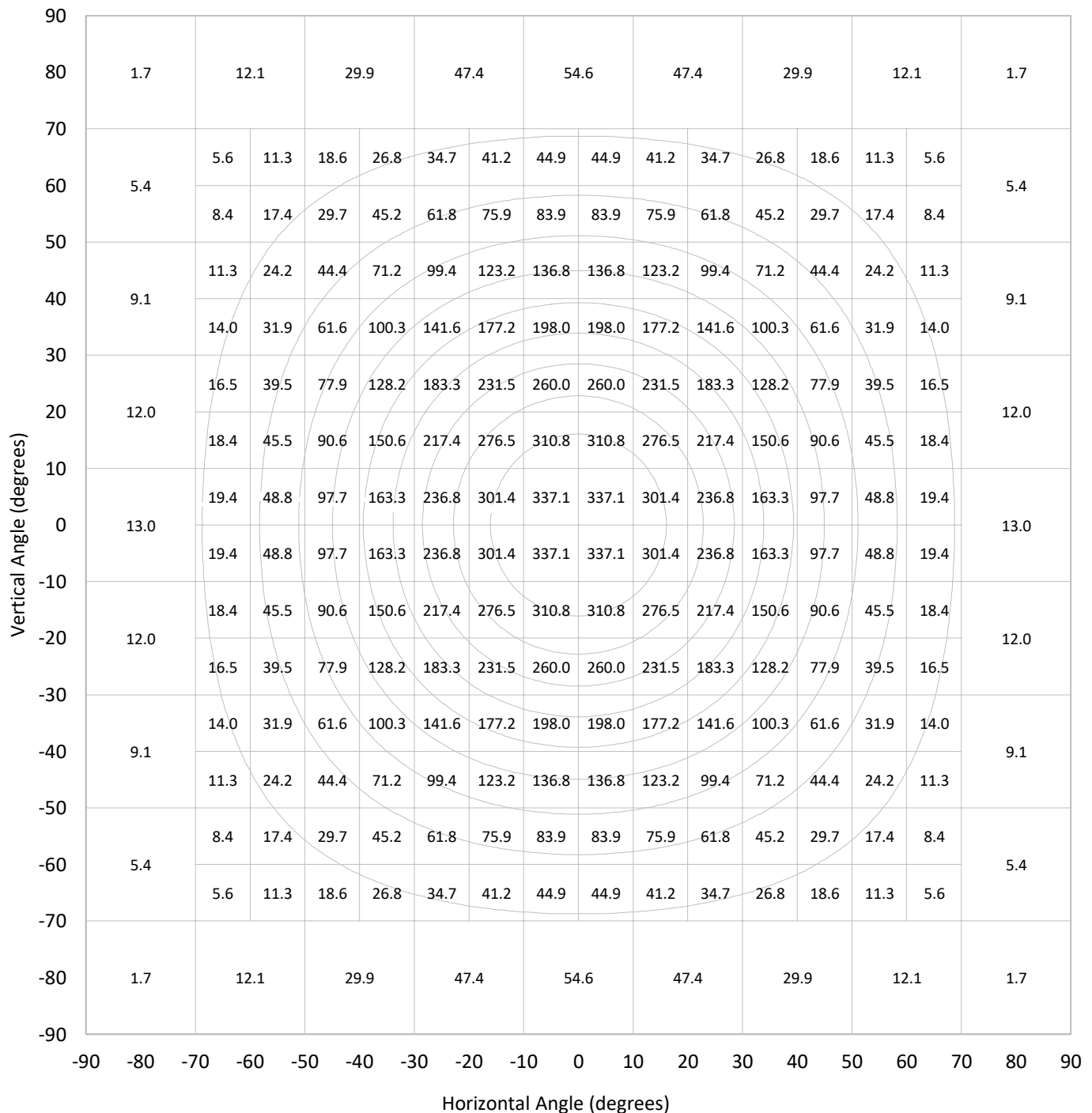
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Iso-Candela Plot



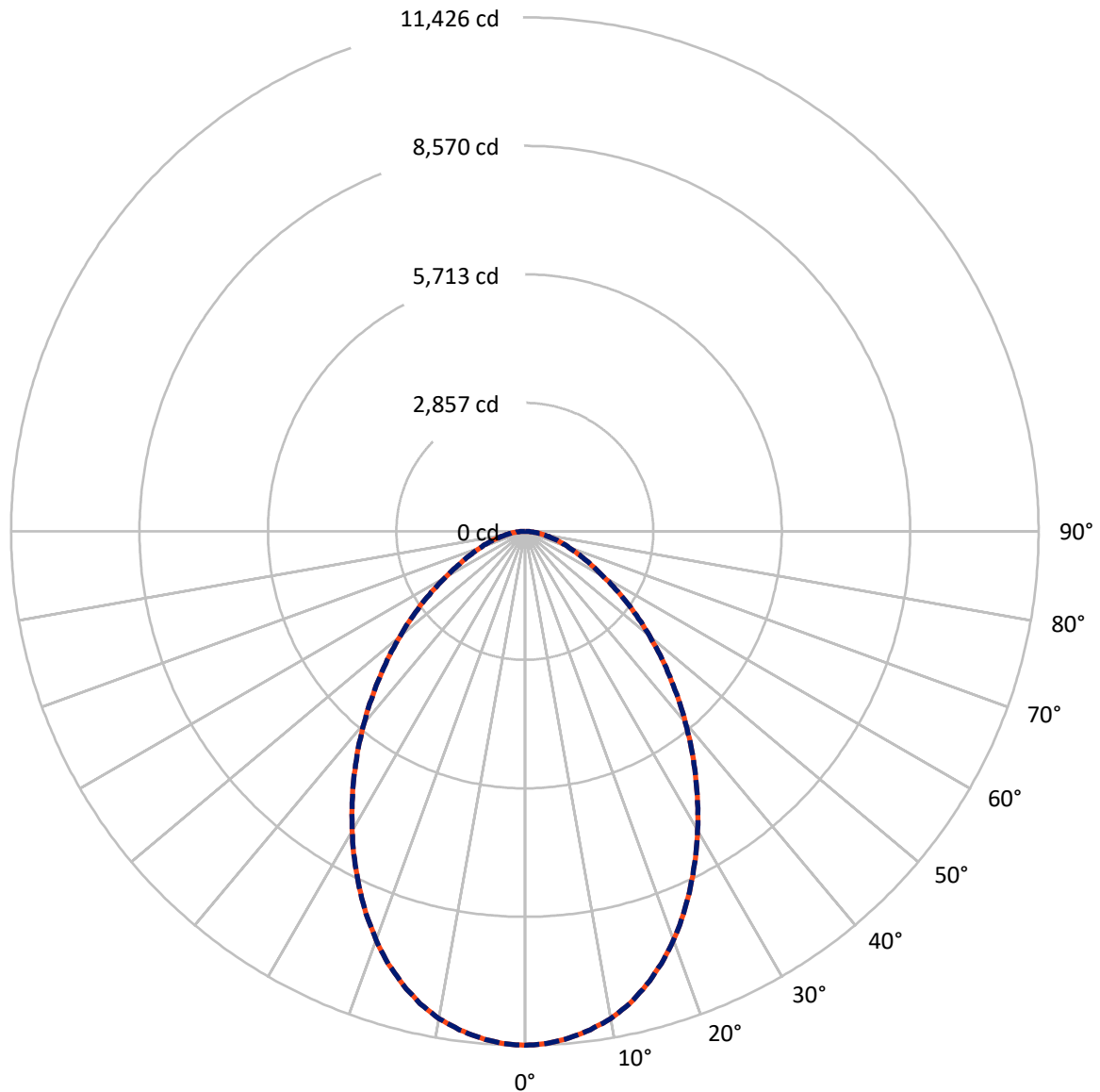
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Lumen Table



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Luminous Intensity Polar Plot

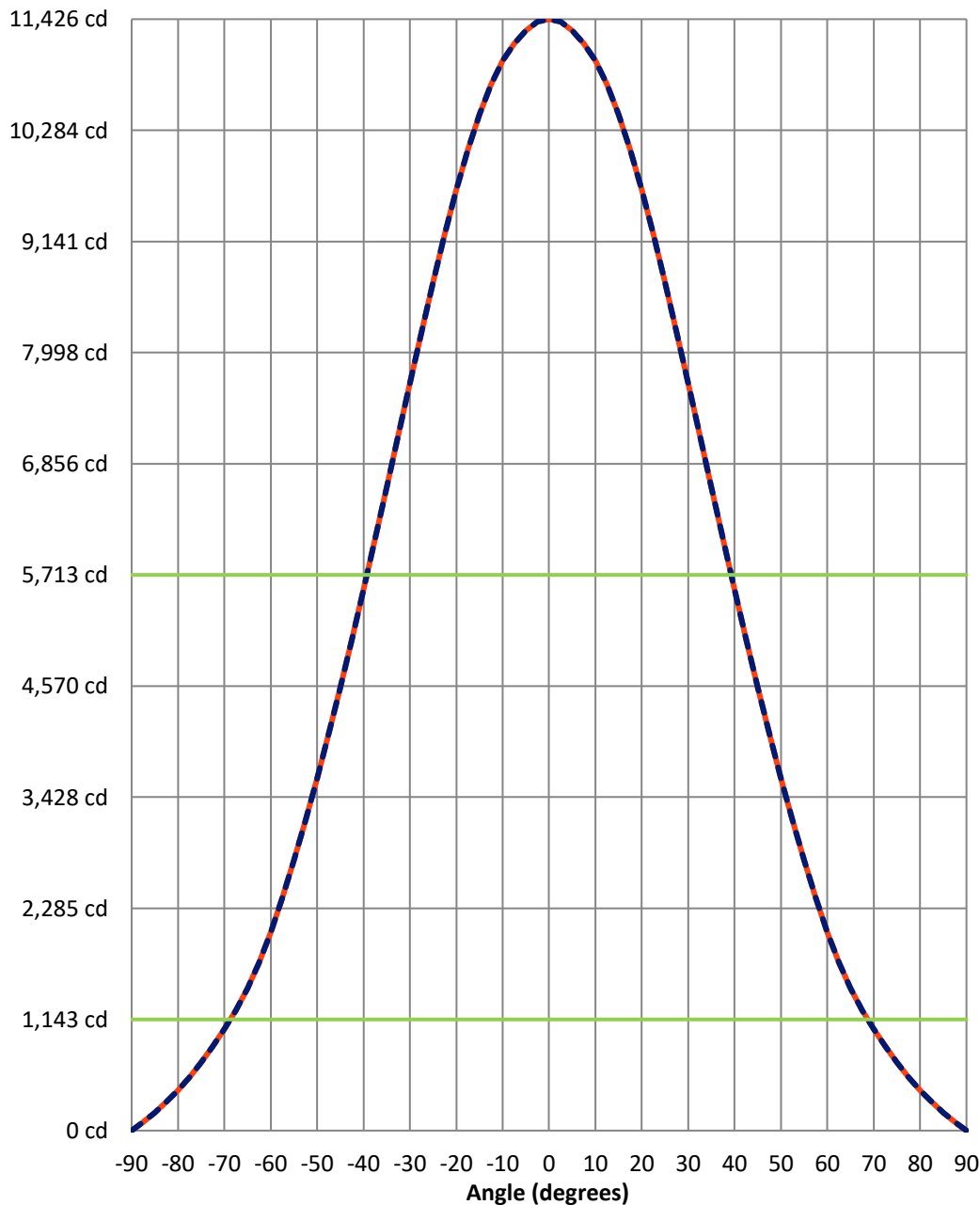


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8901.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 14576.4
Efficiency: 70.9%

Spill:

Lumens: 5996.8
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°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	83.7	83.7	81.5	79.4
85°	184.5	184.5	184.5	184.5	184.5	180.2	178.0	175.9	173.7	169.5	167.3
82.5°	296.0	296.0	296.0	296.0	291.7	287.4	285.3	281.0	276.7	270.3	263.8
80°	414.0	414.0	414.0	414.0	407.5	403.3	396.8	392.5	386.1	377.5	368.9
77.5°	549.1	549.1	549.1	542.7	538.4	532.0	525.5	516.9	508.4	497.6	484.8
75°	701.4	701.4	701.4	692.8	686.4	680.0	669.2	658.5	645.6	630.6	613.5
72.5°	866.6	866.6	866.6	855.8	849.4	838.7	825.8	810.8	795.8	776.5	755.0
70°	1044.6	1044.6	1044.6	1031.7	1021.0	1010.3	993.1	976.0	954.5	933.1	907.3
67.5°	1237.6	1237.6	1237.6	1222.6	1209.8	1194.7	1175.4	1154.0	1128.2	1098.2	1068.2
65°	1462.9	1462.9	1454.3	1441.4	1426.4	1404.9	1381.4	1351.3	1319.2	1280.5	1239.8
62.5°	1728.8	1728.8	1716.0	1701.0	1681.7	1653.8	1621.6	1583.0	1537.9	1488.6	1439.3
60°	2037.7	2037.7	2022.7	2003.4	1975.5	1941.2	1898.3	1849.0	1793.2	1731.0	1670.9
57.5°	2393.8	2393.8	2374.5	2348.7	2314.4	2271.5	2217.9	2155.7	2084.9	2007.7	1932.6
55°	2779.9	2779.9	2756.3	2726.2	2685.5	2634.0	2569.7	2496.7	2410.9	2323.0	2226.5
52.5°	3189.6	3189.6	3161.7	3127.4	3080.2	3020.1	2947.2	2861.4	2762.7	2659.8	2546.1
50°	3620.7	3620.7	3588.5	3549.9	3496.3	3425.5	3341.9	3243.2	3133.8	3013.7	2882.8
47.5°	4081.9	4081.9	4045.4	4000.4	3936.0	3854.5	3755.8	3642.1	3517.7	3382.6	3234.6
45°	4555.9	4555.9	4515.1	4463.7	4392.9	4300.6	4191.3	4081.9	3923.1	3766.6	3595.0
42.5°	5049.2	5049.2	5002.1	4944.1	4862.6	4761.8	4637.4	4495.8	4339.3	4163.4	3976.8
40°	5561.9	5561.9	5508.3	5441.8	5351.7	5235.9	5096.4	4937.7	4761.8	4566.6	4360.7
37.5°	6085.3	6085.3	6025.2	5952.3	5851.5	5722.8	5566.2	5390.3	5193.0	4976.3	4748.9
35°	6612.9	6612.9	6546.4	6467.1	6355.5	6214.0	6044.5	5849.3	5630.5	5394.6	5139.3
32.5°	7151.3	7151.3	7078.4	6988.3	6861.7	6705.2	6518.5	6306.2	6085.3	5810.7	5531.9
30°	7683.3	7683.3	7603.9	7505.2	7370.1	7198.5	6994.7	6760.9	6501.4	6220.4	5920.1
27.5°	8206.6	8185.2	8118.7	8013.6	7865.6	7683.3	7462.3	7209.2	6928.2	6619.4	6297.6
25°	8721.4	8697.8	8624.9	8509.1	8350.3	8150.9	7912.8	7642.5	7340.1	7014.0	6662.3
22.5°	9214.8	9189.0	9111.8	8987.4	8817.9	8601.3	8346.0	8056.5	7734.7	7385.1	7014.0
20°	9671.6	9643.7	9564.4	9433.5	9257.7	9028.1	8757.9	8446.9	8103.7	7734.7	7340.1
17.5°	10083.5	10055.6	9971.9	9836.8	9671.6	9416.4	9137.5	8809.4	8446.9	8056.5	7642.5
15°	10446.0	10415.9	10330.1	10195.0	10006.2	9766.0	9472.2	9137.5	8757.9	8346.0	7912.8
12.5°	10754.8	10724.8	10636.9	10501.7	10306.5	10066.3	9766.0	9416.4	9028.1	8601.3	8150.9
10°	10999.4	10969.3	10885.7	10757.0	10555.4	10306.5	10006.2	9671.6	9257.7	8817.9	8350.3
7.5°	11175.3	11147.4	11070.1	10941.5	10757.0	10501.7	10195.0	9836.8	9433.5	8987.4	8509.1
5°	11308.2	11276.1	11198.8	11070.1	10885.7	10636.9	10330.1	9971.9	9564.4	9111.8	8624.9
2.5°	11400.5	11361.9	11276.1	11147.4	10969.3	10724.8	10415.9	10055.6	9643.7	9189.0	8697.8
0°	11426.2	11400.5	11308.2	11175.3	10999.4	10754.8	10446.0	10083.5	9671.6	9214.8	8721.4

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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°	77.2	77.2	75.1	72.9	70.8	66.5	64.3	62.2	60.1	55.8	53.6
85°	163.0	158.7	154.4	150.1	143.7	139.4	133.0	128.7	122.3	115.8	109.4
82.5°	257.4	251.0	242.4	235.9	227.4	216.6	208.1	197.3	186.6	178.0	167.3
80°	360.4	349.6	338.9	328.2	315.3	302.4	289.6	276.7	261.7	246.7	231.7
77.5°	471.9	456.9	441.9	424.7	409.7	392.5	375.4	358.2	338.9	319.6	300.3
75°	596.3	577.0	555.5	534.1	514.8	491.2	467.6	444.0	418.3	394.7	368.9
72.5°	731.4	707.8	682.1	656.4	628.5	598.4	568.4	536.2	506.2	476.2	444.0
70°	877.3	849.4	817.2	785.1	750.7	714.3	677.8	639.2	600.6	562.0	523.4
67.5°	1033.9	999.6	960.9	922.3	879.4	836.5	793.6	748.6	701.4	654.2	609.2
65°	1201.2	1158.3	1113.2	1063.9	1014.6	965.2	913.8	860.1	806.5	750.7	701.4
62.5°	1387.8	1334.2	1276.3	1216.2	1160.4	1100.4	1044.6	978.1	913.8	851.5	789.3
60°	1604.4	1533.6	1462.9	1387.8	1317.0	1239.8	1171.1	1098.2	1025.3	954.5	881.6
57.5°	1846.8	1756.7	1670.9	1580.8	1486.5	1400.7	1312.7	1224.8	1143.3	1059.6	980.2
55°	2121.4	2012.0	1904.7	1793.2	1683.8	1576.5	1465.0	1366.3	1265.5	1171.1	1078.9
52.5°	2421.7	2297.3	2164.3	2037.7	1898.3	1765.3	1640.9	1516.5	1398.5	1284.8	1179.7
50°	2743.4	2597.5	2445.3	2290.8	2132.1	1975.5	1825.4	1679.5	1542.2	1409.2	1284.8
47.5°	3078.0	2912.9	2739.1	2563.2	2393.8	2202.9	2022.7	1857.5	1692.4	1542.2	1398.5
45°	3421.2	3234.6	3043.7	2844.2	2644.7	2438.8	2239.3	2037.7	1857.5	1679.5	1516.5
42.5°	3775.1	3564.9	3352.6	3131.6	2910.7	2685.5	2460.3	2239.3	2022.7	1825.4	1640.9
40°	4139.8	3908.1	3665.7	3425.5	3189.6	2932.2	2685.5	2438.8	2202.9	1975.5	1765.3
37.5°	4504.4	4251.3	3989.6	3719.4	3449.1	3189.6	2910.7	2644.7	2393.8	2132.1	1898.3
35°	4871.2	4592.4	4309.2	4015.4	3719.4	3425.5	3131.6	2844.2	2563.2	2290.8	2037.7
32.5°	5240.1	4935.6	4622.4	4309.2	3989.6	3665.7	3352.6	3043.7	2739.1	2445.3	2164.3
30°	5602.6	5272.3	4935.6	4592.4	4251.3	3908.1	3564.9	3234.6	2912.9	2597.5	2297.3
27.5°	5956.6	5602.6	5240.1	4871.2	4504.4	4139.8	3775.1	3421.2	3078.0	2743.4	2421.7
25°	6297.6	5920.1	5531.9	5139.3	4748.9	4360.7	3976.8	3595.0	3234.6	2882.8	2546.1
22.5°	6619.4	6220.4	5810.7	5394.6	4976.3	4566.6	4163.4	3766.6	3382.6	3013.7	2659.8
20°	6928.2	6501.4	6085.3	5630.5	5193.0	4761.8	4339.3	3923.1	3517.7	3133.8	2762.7
17.5°	7209.2	6760.9	6306.2	5849.3	5390.3	4937.7	4495.8	4081.9	3642.1	3243.2	2861.4
15°	7462.3	6994.7	6518.5	6044.5	5566.2	5096.4	4637.4	4191.3	3755.8	3341.9	2947.2
12.5°	7683.3	7198.5	6705.2	6214.0	5722.8	5235.9	4761.8	4300.6	3854.5	3425.5	3020.1
10°	7865.6	7370.1	6861.7	6355.5	5851.5	5351.7	4862.6	4392.9	3936.0	3496.3	3080.2
7.5°	8013.6	7505.2	6988.3	6467.1	5952.3	5441.8	4944.1	4463.7	4000.4	3549.9	3127.4
5°	8118.7	7603.9	7078.4	6546.4	6025.2	5508.3	5002.1	4515.1	4045.4	3588.5	3161.7
2.5°	8185.2	7683.3	7151.3	6612.9	6085.3	5561.9	5049.2	4555.9	4081.9	3620.7	3189.6
0°	8206.6	7683.3	7151.3	6612.9	6085.3	5561.9	5049.2	4555.9	4081.9	3620.7	3189.6

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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°	51.5	47.2	42.9	40.8	36.5	34.3	30.0	25.7	23.6	19.3	15.0
85°	103.0	94.4	87.9	81.5	75.1	66.5	60.1	53.6	45.0	38.6	30.0
82.5°	156.6	145.9	135.1	124.4	113.7	103.0	90.1	79.4	68.6	57.9	45.0
80°	216.6	199.5	184.5	169.5	154.4	139.4	122.3	107.2	90.1	75.1	60.1
77.5°	278.8	259.5	238.1	216.6	195.2	175.9	154.4	135.1	115.8	94.4	75.1
75°	345.3	319.6	296.0	268.1	242.4	214.5	188.8	163.0	139.4	115.8	90.1
72.5°	414.0	381.8	349.6	319.6	287.4	255.3	225.2	193.0	163.0	135.1	107.2
70°	484.8	446.2	407.5	371.1	334.6	296.0	261.7	225.2	188.8	154.4	122.3
67.5°	559.8	514.8	469.7	422.6	381.8	338.9	296.0	255.3	214.5	175.9	139.4
65°	641.3	587.7	532.0	482.6	429.0	381.8	334.6	287.4	242.4	195.2	154.4
62.5°	725.0	662.8	600.6	538.4	482.6	422.6	371.1	319.6	268.1	216.6	169.5
60°	810.8	740.0	669.2	600.6	532.0	469.7	407.5	349.6	296.0	238.1	184.5
57.5°	898.7	819.4	740.0	662.8	587.7	514.8	446.2	381.8	319.6	259.5	199.5
55°	988.8	898.7	810.8	725.0	641.3	559.8	484.8	414.0	345.3	278.8	216.6
52.5°	1078.9	980.2	881.6	789.3	701.4	609.2	523.4	444.0	368.9	300.3	231.7
50°	1171.1	1059.6	954.5	851.5	750.7	654.2	562.0	476.2	394.7	319.6	246.7
47.5°	1265.5	1143.3	1025.3	913.8	806.5	701.4	600.6	506.2	418.3	338.9	261.7
45°	1366.3	1224.8	1098.2	978.1	860.1	748.6	639.2	536.2	444.0	358.2	276.7
42.5°	1465.0	1312.7	1171.1	1044.6	913.8	793.6	677.8	568.4	467.6	375.4	289.6
40°	1576.5	1400.7	1239.8	1100.4	965.2	836.5	714.3	598.4	491.2	392.5	302.4
37.5°	1683.8	1486.5	1317.0	1160.4	1014.6	879.4	750.7	628.5	514.8	409.7	315.3
35°	1793.2	1580.8	1387.8	1216.2	1063.9	922.3	785.1	656.4	534.1	424.7	328.2
32.5°	1904.7	1670.9	1462.9	1276.3	1113.2	960.9	817.2	682.1	555.5	441.9	338.9
30°	2012.0	1756.7	1533.6	1334.2	1158.3	999.6	849.4	707.8	577.0	456.9	349.6
27.5°	2121.4	1846.8	1604.4	1387.8	1201.2	1033.9	877.3	731.4	596.3	471.9	360.4
25°	2226.5	1932.6	1670.9	1439.3	1239.8	1068.2	907.3	755.0	613.5	484.8	368.9
22.5°	2323.0	2007.7	1731.0	1488.6	1280.5	1098.2	933.1	776.5	630.6	497.6	377.5
20°	2410.9	2084.9	1793.2	1537.9	1319.2	1128.2	954.5	795.8	645.6	508.4	386.1
17.5°	2496.7	2155.7	1849.0	1583.0	1351.3	1154.0	976.0	810.8	658.5	516.9	392.5
15°	2569.7	2217.9	1898.3	1621.6	1381.4	1175.4	993.1	825.8	669.2	525.5	396.8
12.5°	2634.0	2271.5	1941.2	1653.8	1404.9	1194.7	1010.3	838.7	680.0	532.0	403.3
10°	2685.5	2314.4	1975.5	1681.7	1426.4	1209.8	1021.0	849.4	686.4	538.4	407.5
7.5°	2726.2	2348.7	2003.4	1701.0	1441.4	1222.6	1031.7	855.8	692.8	542.7	414.0
5°	2756.3	2374.5	2022.7	1716.0	1454.3	1237.6	1044.6	866.6	701.4	549.1	414.0
2.5°	2779.9	2393.8	2037.7	1728.8	1462.9	1237.6	1044.6	866.6	701.4	549.1	414.0
0°	2779.9	2393.8	2037.7	1728.8	1462.9	1237.6	1044.6	866.6	701.4	549.1	414.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.7	8.6	4.3	0.0
85°	23.6	15.0	8.6	0.0
82.5°	34.3	23.6	10.7	0.0
80°	45.0	30.0	15.0	0.0
77.5°	57.9	38.6	19.3	0.0
75°	68.6	45.0	23.6	0.0
72.5°	79.4	53.6	25.7	0.0
70°	90.1	60.1	30.0	0.0
67.5°	103.0	66.5	34.3	0.0
65°	113.7	75.1	36.5	0.0
62.5°	124.4	81.5	40.8	0.0
60°	135.1	87.9	42.9	0.0
57.5°	145.9	94.4	47.2	0.0
55°	156.6	103.0	51.5	0.0
52.5°	167.3	109.4	53.6	0.0
50°	178.0	115.8	55.8	0.0
47.5°	186.6	122.3	60.1	0.0
45°	197.3	128.7	62.2	0.0
42.5°	208.1	133.0	64.3	0.0
40°	216.6	139.4	66.5	0.0
37.5°	227.4	143.7	70.8	0.0
35°	235.9	150.1	72.9	0.0
32.5°	242.4	154.4	75.1	0.0
30°	251.0	158.7	77.2	0.0
27.5°	257.4	163.0	77.2	0.0
25°	263.8	167.3	79.4	0.0
22.5°	270.3	169.5	81.5	0.0
20°	276.7	173.7	83.7	0.0
17.5°	281.0	175.9	83.7	0.0
15°	285.3	178.0	87.9	0.0
12.5°	287.4	180.2	87.9	0.0
10°	291.7	184.5	87.9	0.0
7.5°	296.0	184.5	87.9	0.0
5°	296.0	184.5	87.9	0.0
2.5°	296.0	184.5	87.9	0.0
0°	296.0	184.5	87.9	0.0

(END OF REPORT)