

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: P623832

Luminaire Tested: **IFLD-L-SA7B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623832
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

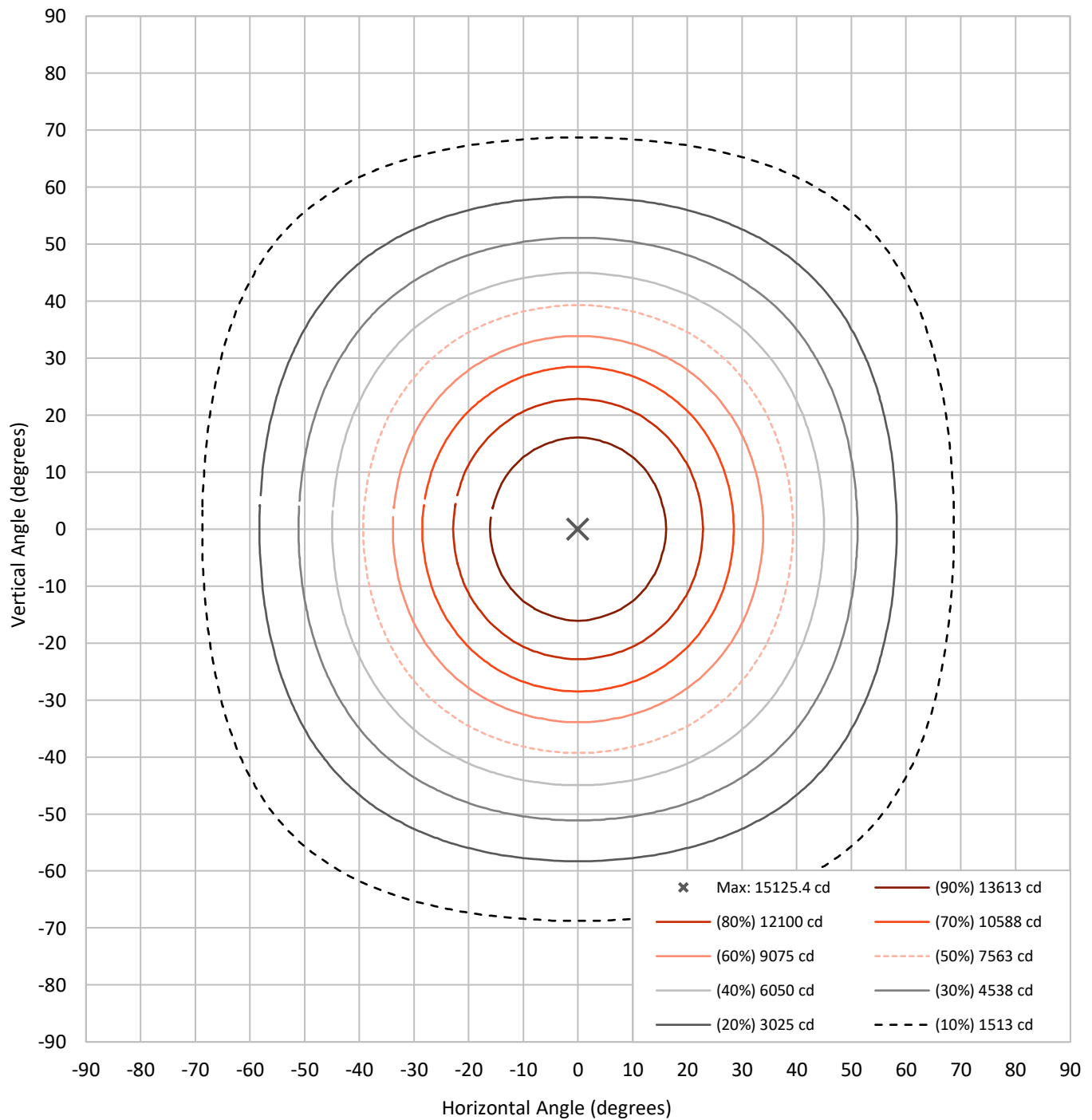
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27233.7 lumens	Max Intensity:	15125.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11783.7 lumens	Field Lumens:	19295.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	281		
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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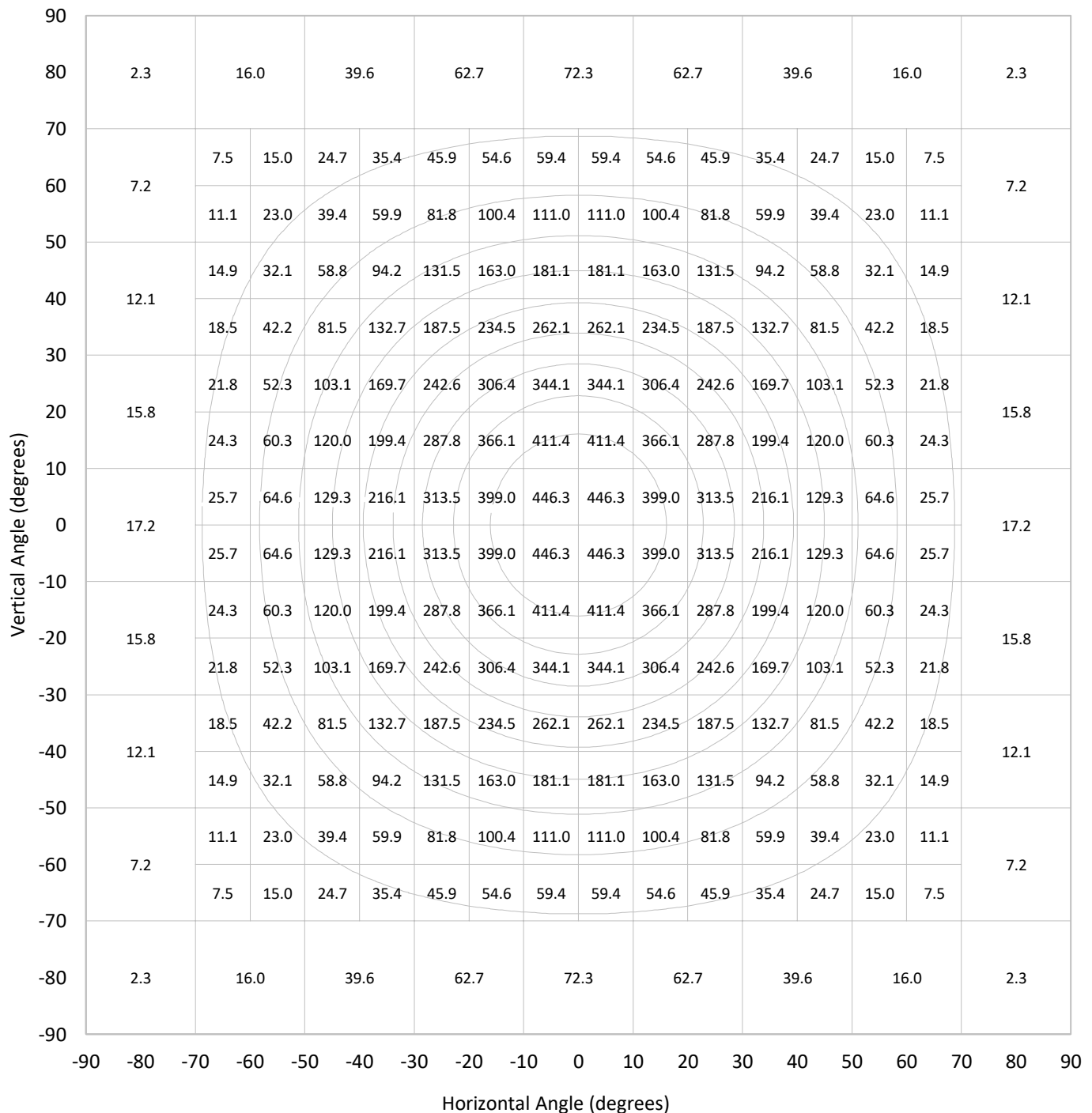
CATALOG NUMBER: IFLD-L-SA7B-722-U-77

Iso-Candela Plot



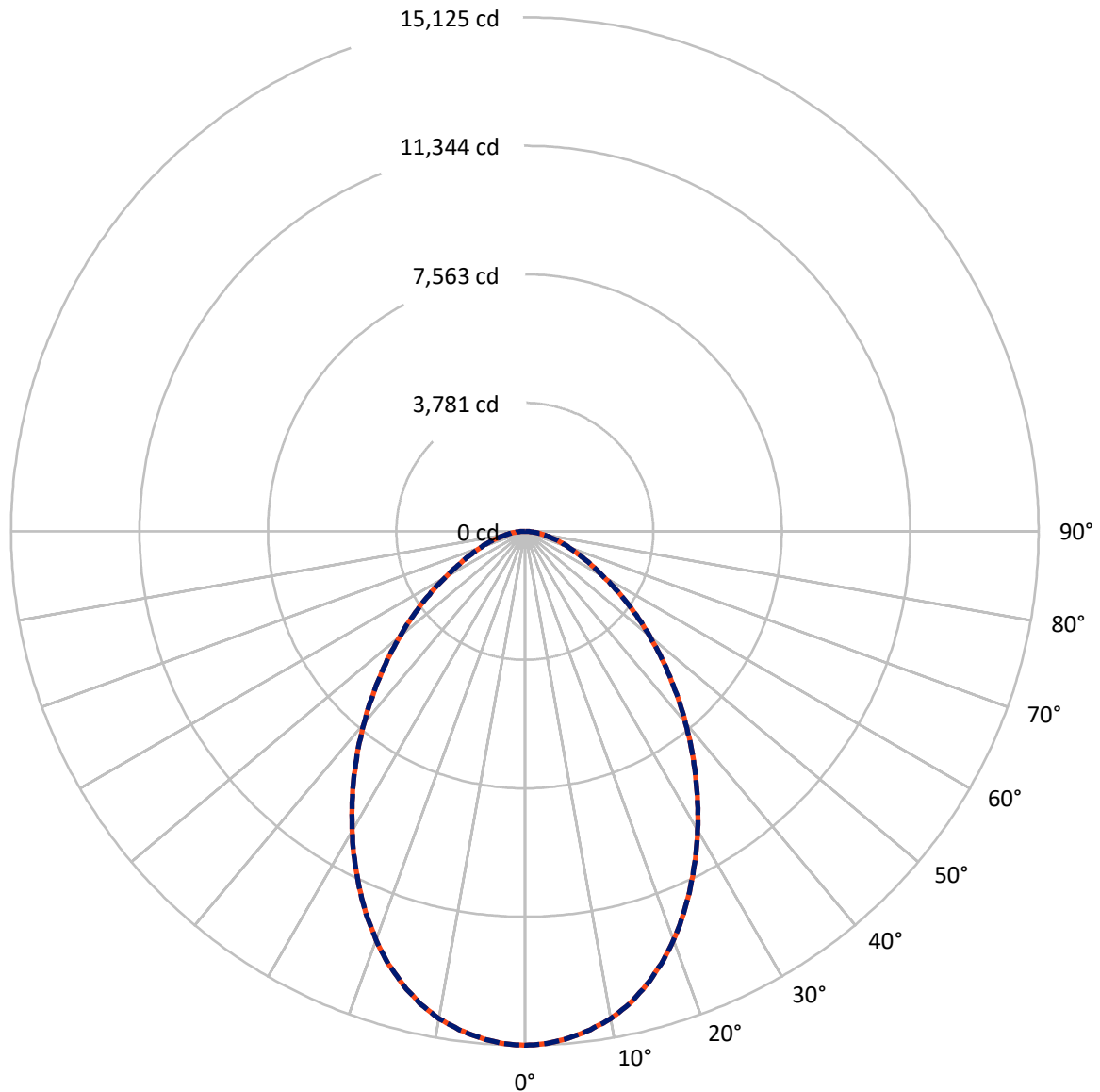
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Lumen Table



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Luminous Intensity Polar Plot

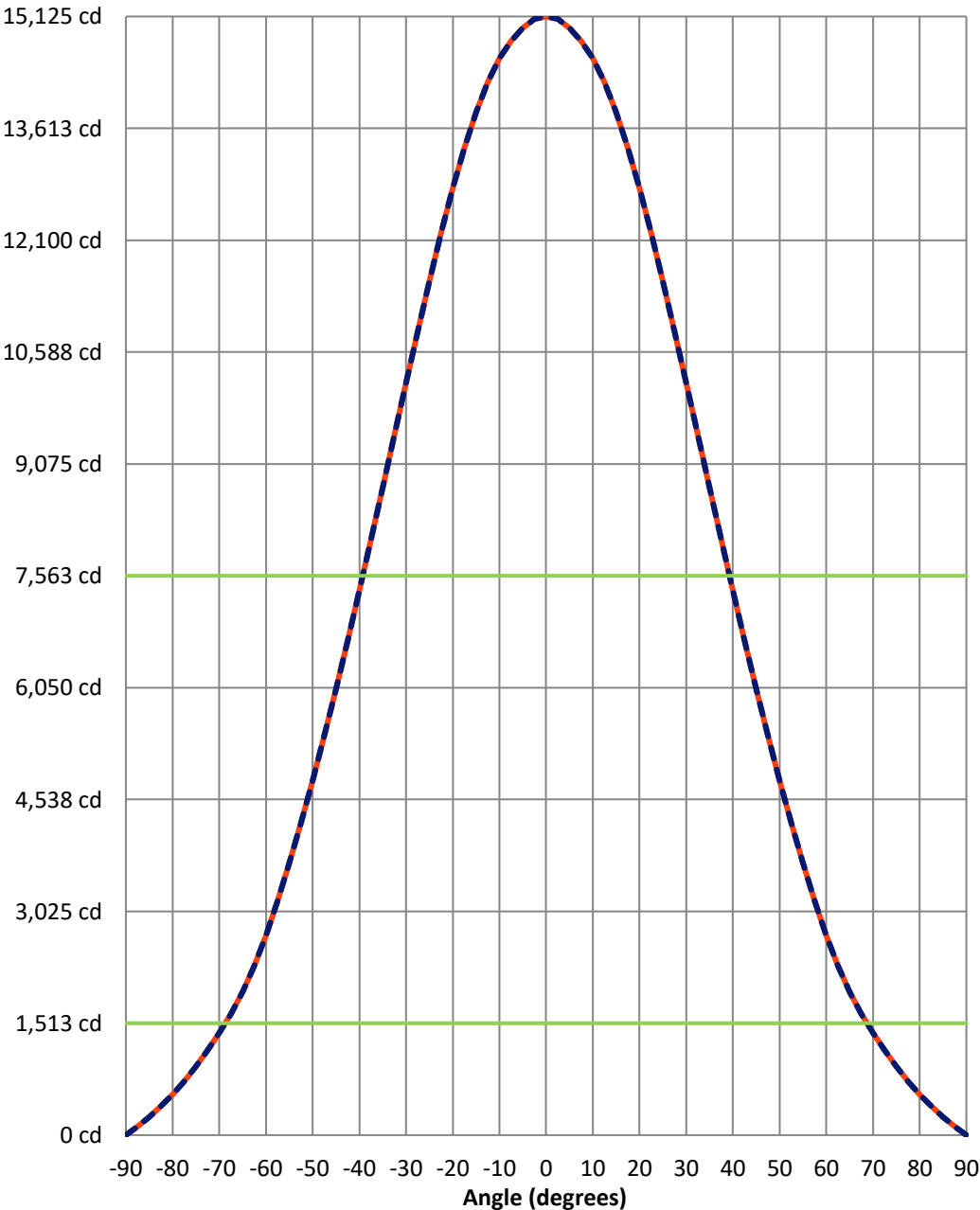


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 11783.7
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 19295.5
Efficiency: 70.9%

Spill:
Lumens: 7938.2
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°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	110.7	110.7	107.9	105.1
85°	244.2	244.2	244.2	244.2	244.2	238.5	235.7	232.8	230.0	224.3	221.5
82.5°	391.8	391.8	391.8	391.8	386.2	380.5	377.6	372.0	366.3	357.8	349.2
80°	548.0	548.0	548.0	548.0	539.5	533.8	525.3	519.6	511.1	499.7	488.4
77.5°	726.9	726.9	726.9	718.4	712.7	704.2	695.7	684.3	672.9	658.7	641.7
75°	928.5	928.5	928.5	917.1	908.6	900.1	885.9	871.7	854.7	834.8	812.1
72.5°	1147.1	1147.1	1147.1	1132.9	1124.4	1110.2	1093.2	1073.3	1053.4	1027.9	999.5
70°	1382.8	1382.8	1382.8	1365.7	1351.5	1337.4	1314.6	1291.9	1263.5	1235.1	1201.1
67.5°	1638.3	1638.3	1638.3	1618.5	1601.4	1581.5	1556.0	1527.6	1493.5	1453.8	1414.0
65°	1936.5	1936.5	1925.1	1908.1	1888.2	1859.8	1828.6	1788.8	1746.2	1695.1	1641.2
62.5°	2288.5	2288.5	2271.5	2251.6	2226.1	2189.2	2146.6	2095.5	2035.8	1970.5	1905.2
60°	2697.4	2697.4	2677.5	2652.0	2615.1	2569.6	2512.9	2447.6	2373.7	2291.4	2211.9
57.5°	3168.8	3168.8	3143.2	3109.1	3063.7	3006.9	2935.9	2853.6	2759.9	2657.7	2558.3
55°	3679.8	3679.8	3648.6	3608.9	3554.9	3486.8	3401.6	3305.0	3191.5	3075.1	2947.3
52.5°	4222.2	4222.2	4185.3	4139.8	4077.4	3997.9	3901.3	3787.7	3657.1	3520.8	3370.4
50°	4792.9	4792.9	4750.3	4699.2	4628.2	4534.5	4423.8	4293.2	4148.3	3989.3	3816.1
47.5°	5403.4	5403.4	5355.1	5295.5	5210.3	5102.4	4971.8	4821.3	4656.6	4477.7	4281.8
45°	6030.9	6030.9	5976.9	5908.8	5815.1	5693.0	5548.2	5403.4	5193.2	4986.0	4758.8
42.5°	6683.9	6683.9	6621.5	6544.8	6436.9	6303.4	6138.8	5951.4	5744.1	5511.3	5264.2
40°	7362.5	7362.5	7291.5	7203.5	7084.3	6930.9	6746.4	6536.3	6303.4	6045.1	5772.5
37.5°	8055.3	8055.3	7975.8	7879.3	7745.9	7575.5	7368.2	7135.4	6874.2	6587.4	6286.4
35°	8753.8	8753.8	8665.8	8560.8	8413.1	8225.7	8001.4	7743.0	7453.4	7141.1	6803.2
32.5°	9466.5	9466.5	9370.0	9250.7	9083.2	8875.9	8628.9	8347.8	8055.3	7691.9	7322.8
30°	10170.7	10170.7	10065.6	9935.0	9756.1	9529.0	9259.2	8949.8	8606.2	8234.2	7836.7
27.5°	10863.5	10835.1	10747.1	10608.0	10412.0	10170.7	9878.2	9543.2	9171.2	8762.4	8336.4
25°	11545.0	11513.7	11417.2	11263.9	11053.7	10789.7	10474.5	10116.7	9716.4	9284.8	8819.1
22.5°	12198.0	12163.9	12061.7	11897.0	11672.7	11385.9	11048.1	10664.7	10238.8	9776.0	9284.8
20°	12802.8	12765.9	12660.8	12487.6	12254.8	11951.0	11593.2	11181.5	10727.2	10238.8	9716.4
17.5°	13348.0	13311.1	13200.3	13021.4	12802.8	12464.9	12095.8	11661.4	11181.5	10664.7	10116.7
15°	13827.8	13788.1	13674.5	13495.6	13245.7	12927.7	12538.7	12095.8	11593.2	11048.1	10474.5
12.5°	14236.7	14196.9	14080.5	13901.6	13643.3	13325.2	12927.7	12464.9	11951.0	11385.9	10789.7
10°	14560.4	14520.6	14409.9	14239.5	13972.6	13643.3	13245.7	12802.8	12254.8	11672.7	11053.7
7.5°	14793.2	14756.3	14654.1	14483.7	14239.5	13901.6	13495.6	13021.4	12487.6	11897.0	11263.9
5°	14969.3	14926.7	14824.4	14654.1	14409.9	14080.5	13674.5	13200.3	12660.8	12061.7	11417.2
2.5°	15091.3	15040.2	14926.7	14756.3	14520.6	14196.9	13788.1	13311.1	12765.9	12163.9	11513.7
0°	15125.4	15091.3	14969.3	14793.2	14560.4	14236.7	13827.8	13348.0	12802.8	12198.0	11545.0

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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°	102.2	102.2	99.4	96.5	93.7	88.0	85.2	82.3	79.5	73.8	71.0
85°	215.8	210.1	204.4	198.8	190.2	184.6	176.0	170.4	161.8	153.3	144.8
82.5°	340.7	332.2	320.9	312.3	301.0	286.8	275.4	261.2	247.0	235.7	221.5
80°	477.0	462.8	448.6	434.4	417.4	400.4	383.3	366.3	346.4	326.5	306.7
77.5°	624.7	604.8	584.9	562.2	542.3	519.6	496.9	474.2	448.6	423.1	397.5
75°	789.3	763.8	735.4	707.0	681.5	650.2	619.0	587.8	553.7	522.4	488.4
72.5°	968.2	937.0	902.9	868.9	831.9	792.2	752.4	709.8	670.1	630.3	587.8
70°	1161.3	1124.4	1081.8	1039.2	993.8	945.5	897.2	846.1	795.0	743.9	692.8
67.5°	1368.6	1323.2	1272.0	1220.9	1164.1	1107.4	1050.6	990.9	928.5	866.0	806.4
65°	1590.1	1533.3	1473.6	1408.3	1343.0	1277.7	1209.6	1138.6	1067.6	993.8	928.5
62.5°	1837.1	1766.1	1689.4	1609.9	1536.1	1456.6	1382.8	1294.8	1209.6	1127.2	1044.9
60°	2123.9	2030.2	1936.5	1837.1	1743.4	1641.2	1550.3	1453.8	1357.2	1263.5	1167.0
57.5°	2444.7	2325.5	2211.9	2092.6	1967.7	1854.1	1737.7	1621.3	1513.4	1402.7	1297.6
55°	2808.2	2663.3	2521.4	2373.7	2228.9	2087.0	1939.3	1808.7	1675.2	1550.3	1428.2
52.5°	3205.7	3041.0	2864.9	2697.4	2512.9	2336.8	2172.1	2007.4	1851.3	1700.8	1561.7
50°	3631.6	3438.5	3236.9	3032.5	2822.4	2615.1	2416.3	2223.2	2041.5	1865.5	1700.8
47.5°	4074.5	3855.9	3625.9	3393.1	3168.8	2916.1	2677.5	2458.9	2240.3	2041.5	1851.3
45°	4528.8	4281.8	4029.1	3765.0	3501.0	3228.4	2964.3	2697.4	2458.9	2223.2	2007.4
42.5°	4997.3	4719.1	4438.0	4145.5	3853.0	3554.9	3256.8	2964.3	2677.5	2416.3	2172.1
40°	5480.0	5173.4	4852.5	4534.5	4222.2	3881.4	3554.9	3228.4	2916.1	2615.1	2336.8
37.5°	5962.7	5627.7	5281.3	4923.5	4565.7	4222.2	3853.0	3501.0	3168.8	2822.4	2512.9
35°	6448.2	6079.1	5704.3	5315.3	4923.5	4534.5	4145.5	3765.0	3393.1	3032.5	2697.4
32.5°	6936.6	6533.4	6118.9	5704.3	5281.3	4852.5	4438.0	4029.1	3625.9	3236.9	2864.9
30°	7416.5	6979.2	6533.4	6079.1	5627.7	5173.4	4719.1	4281.8	3855.9	3438.5	3041.0
27.5°	7885.0	7416.5	6936.6	6448.2	5962.7	5480.0	4997.3	4528.8	4074.5	3631.6	3205.7
25°	8336.4	7836.7	7322.8	6803.2	6286.4	5772.5	5264.2	4758.8	4281.8	3816.1	3370.4
22.5°	8762.4	8234.2	7691.9	7141.1	6587.4	6045.1	5511.3	4986.0	4477.7	3989.3	3520.8
20°	9171.2	8606.2	8055.3	7453.4	6874.2	6303.4	5744.1	5193.2	4656.6	4148.3	3657.1
17.5°	9543.2	8949.8	8347.8	7743.0	7135.4	6536.3	5951.4	5403.4	4821.3	4293.2	3787.7
15°	9878.2	9259.2	8628.9	8001.4	7368.2	6746.4	6138.8	5548.2	4971.8	4423.8	3901.3
12.5°	10170.7	9529.0	8875.9	8225.7	7575.5	6930.9	6303.4	5693.0	5102.4	4534.5	3997.9
10°	10412.0	9756.1	9083.2	8413.1	7745.9	7084.3	6436.9	5815.1	5210.3	4628.2	4077.4
7.5°	10608.0	9935.0	9250.7	8560.8	7879.3	7203.5	6544.8	5908.8	5295.5	4699.2	4139.8
5°	10747.1	10065.6	9370.0	8665.8	7975.8	7291.5	6621.5	5976.9	5355.1	4750.3	4185.3
2.5°	10835.1	10170.7	9466.5	8753.8	8055.3	7362.5	6683.9	6030.9	5403.4	4792.9	4222.2
0°	10863.5	10170.7	9466.5	8753.8	8055.3	7362.5	6683.9	6030.9	5403.4	4792.9	4222.2

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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°	68.1	62.5	56.8	53.9	48.3	45.4	39.8	34.1	31.2	25.6	19.9
85°	136.3	124.9	116.4	107.9	99.4	88.0	79.5	71.0	59.6	51.1	39.8
82.5°	207.3	193.1	178.9	164.7	150.5	136.3	119.3	105.1	90.9	76.7	59.6
80°	286.8	264.1	244.2	224.3	204.4	184.6	161.8	142.0	119.3	99.4	79.5
77.5°	369.1	343.6	315.2	286.8	258.4	232.8	204.4	178.9	153.3	124.9	99.4
75°	457.1	423.1	391.8	354.9	320.9	283.9	249.9	215.8	184.6	153.3	119.3
72.5°	548.0	505.4	462.8	423.1	380.5	337.9	298.1	255.5	215.8	178.9	142.0
70°	641.7	590.6	539.5	491.2	442.9	391.8	346.4	298.1	249.9	204.4	161.8
67.5°	741.1	681.5	621.8	559.4	505.4	448.6	391.8	337.9	283.9	232.8	184.6
65°	849.0	778.0	704.2	638.9	567.9	505.4	442.9	380.5	320.9	258.4	204.4
62.5°	959.7	877.4	795.0	712.7	638.9	559.4	491.2	423.1	354.9	286.8	224.3
60°	1073.3	979.6	885.9	795.0	704.2	621.8	539.5	462.8	391.8	315.2	244.2
57.5°	1189.7	1084.6	979.6	877.4	778.0	681.5	590.6	505.4	423.1	343.6	264.1
55°	1309.0	1189.7	1073.3	959.7	849.0	741.1	641.7	548.0	457.1	369.1	286.8
52.5°	1428.2	1297.6	1167.0	1044.9	928.5	806.4	692.8	587.8	488.4	397.5	306.7
50°	1550.3	1402.7	1263.5	1127.2	993.8	866.0	743.9	630.3	522.4	423.1	326.5
47.5°	1675.2	1513.4	1357.2	1209.6	1067.6	928.5	795.0	670.1	553.7	448.6	346.4
45°	1808.7	1621.3	1453.8	1294.8	1138.6	990.9	846.1	709.8	587.8	474.2	366.3
42.5°	1939.3	1737.7	1550.3	1382.8	1209.6	1050.6	897.2	752.4	619.0	496.9	383.3
40°	2087.0	1854.1	1641.2	1456.6	1277.7	1107.4	945.5	792.2	650.2	519.6	400.4
37.5°	2228.9	1967.7	1743.4	1536.1	1343.0	1164.1	993.8	831.9	681.5	542.3	417.4
35°	2373.7	2092.6	1837.1	1609.9	1408.3	1220.9	1039.2	868.9	707.0	562.2	434.4
32.5°	2521.4	2211.9	1936.5	1689.4	1473.6	1272.0	1081.8	902.9	735.4	584.9	448.6
30°	2663.3	2325.5	2030.2	1766.1	1533.3	1323.2	1124.4	937.0	763.8	604.8	462.8
27.5°	2808.2	2444.7	2123.9	1837.1	1590.1	1368.6	1161.3	968.2	789.3	624.7	477.0
25°	2947.3	2558.3	2211.9	1905.2	1641.2	1414.0	1201.1	999.5	812.1	641.7	488.4
22.5°	3075.1	2657.7	2291.4	1970.5	1695.1	1453.8	1235.1	1027.9	834.8	658.7	499.7
20°	3191.5	2759.9	2373.7	2035.8	1746.2	1493.5	1263.5	1053.4	854.7	672.9	511.1
17.5°	3305.0	2853.6	2447.6	2095.5	1788.8	1527.6	1291.9	1073.3	871.7	684.3	519.6
15°	3401.6	2935.9	2512.9	2146.6	1828.6	1556.0	1314.6	1093.2	885.9	695.7	525.3
12.5°	3486.8	3006.9	2569.6	2189.2	1859.8	1581.5	1337.4	1110.2	900.1	704.2	533.8
10°	3554.9	3063.7	2615.1	2226.1	1888.2	1601.4	1351.5	1124.4	908.6	712.7	539.5
7.5°	3608.9	3109.1	2652.0	2251.6	1908.1	1618.5	1365.7	1132.9	917.1	718.4	548.0
5°	3648.6	3143.2	2677.5	2271.5	1925.1	1638.3	1382.8	1147.1	928.5	726.9	548.0
2.5°	3679.8	3168.8	2697.4	2288.5	1936.5	1638.3	1382.8	1147.1	928.5	726.9	548.0
0°	3679.8	3168.8	2697.4	2288.5	1936.5	1638.3	1382.8	1147.1	928.5	726.9	548.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.2	11.4	5.7	0.0
85°	31.2	19.9	11.4	0.0
82.5°	45.4	31.2	14.2	0.0
80°	59.6	39.8	19.9	0.0
77.5°	76.7	51.1	25.6	0.0
75°	90.9	59.6	31.2	0.0
72.5°	105.1	71.0	34.1	0.0
70°	119.3	79.5	39.8	0.0
67.5°	136.3	88.0	45.4	0.0
65°	150.5	99.4	48.3	0.0
62.5°	164.7	107.9	53.9	0.0
60°	178.9	116.4	56.8	0.0
57.5°	193.1	124.9	62.5	0.0
55°	207.3	136.3	68.1	0.0
52.5°	221.5	144.8	71.0	0.0
50°	235.7	153.3	73.8	0.0
47.5°	247.0	161.8	79.5	0.0
45°	261.2	170.4	82.3	0.0
42.5°	275.4	176.0	85.2	0.0
40°	286.8	184.6	88.0	0.0
37.5°	301.0	190.2	93.7	0.0
35°	312.3	198.8	96.5	0.0
32.5°	320.9	204.4	99.4	0.0
30°	332.2	210.1	102.2	0.0
27.5°	340.7	215.8	102.2	0.0
25°	349.2	221.5	105.1	0.0
22.5°	357.8	224.3	107.9	0.0
20°	366.3	230.0	110.7	0.0
17.5°	372.0	232.8	110.7	0.0
15°	377.6	235.7	116.4	0.0
12.5°	380.5	238.5	116.4	0.0
10°	386.2	244.2	116.4	0.0
7.5°	391.8	244.2	116.4	0.0
5°	391.8	244.2	116.4	0.0
2.5°	391.8	244.2	116.4	0.0
0°	391.8	244.2	116.4	0.0

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