

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: P623896

Luminaire Tested: **IFLD-L-SA8C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623896
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

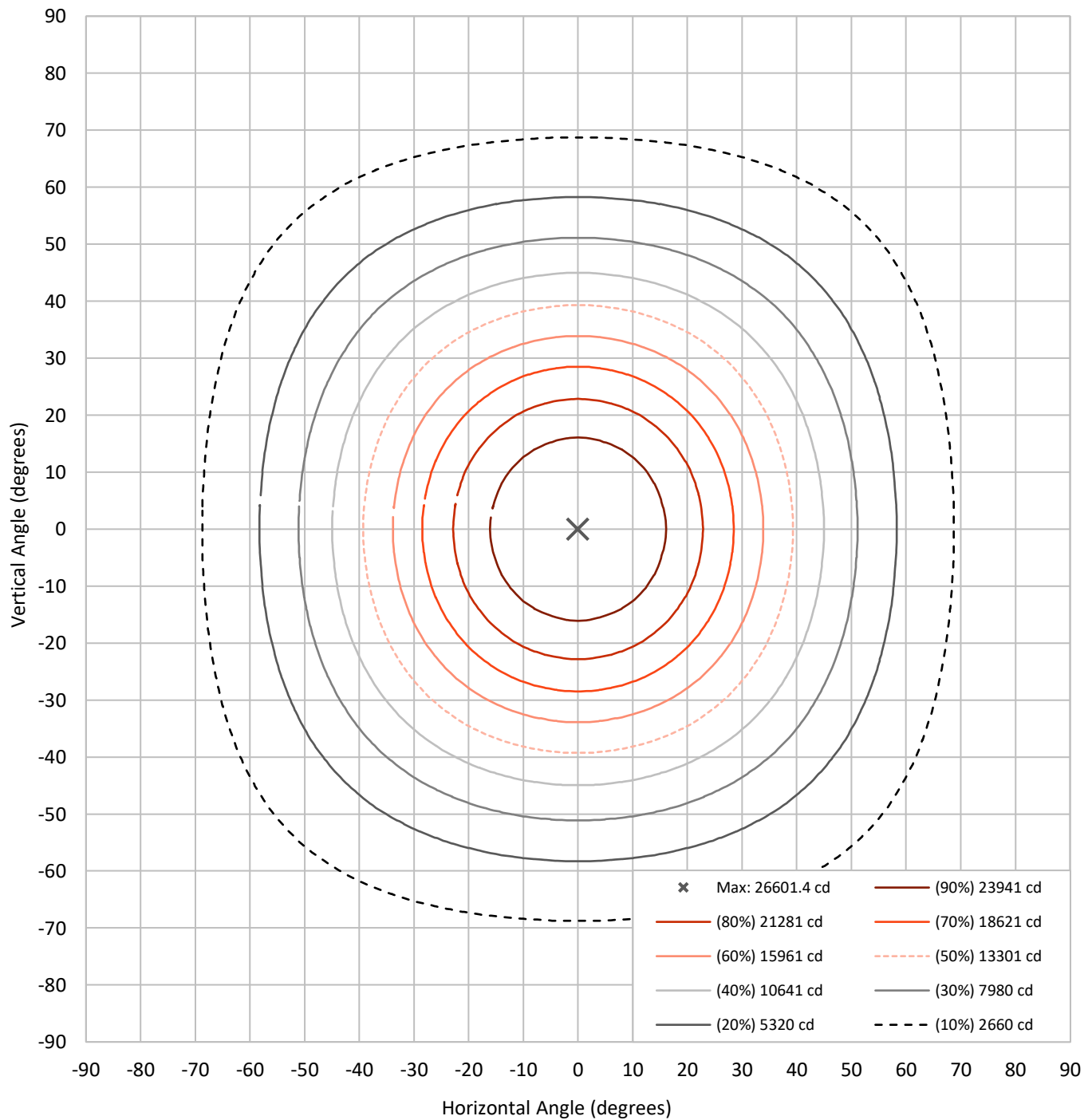
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	47896.5 lumens	Max Intensity:	26601.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	20724.4 lumens	Field Lumens:	33935.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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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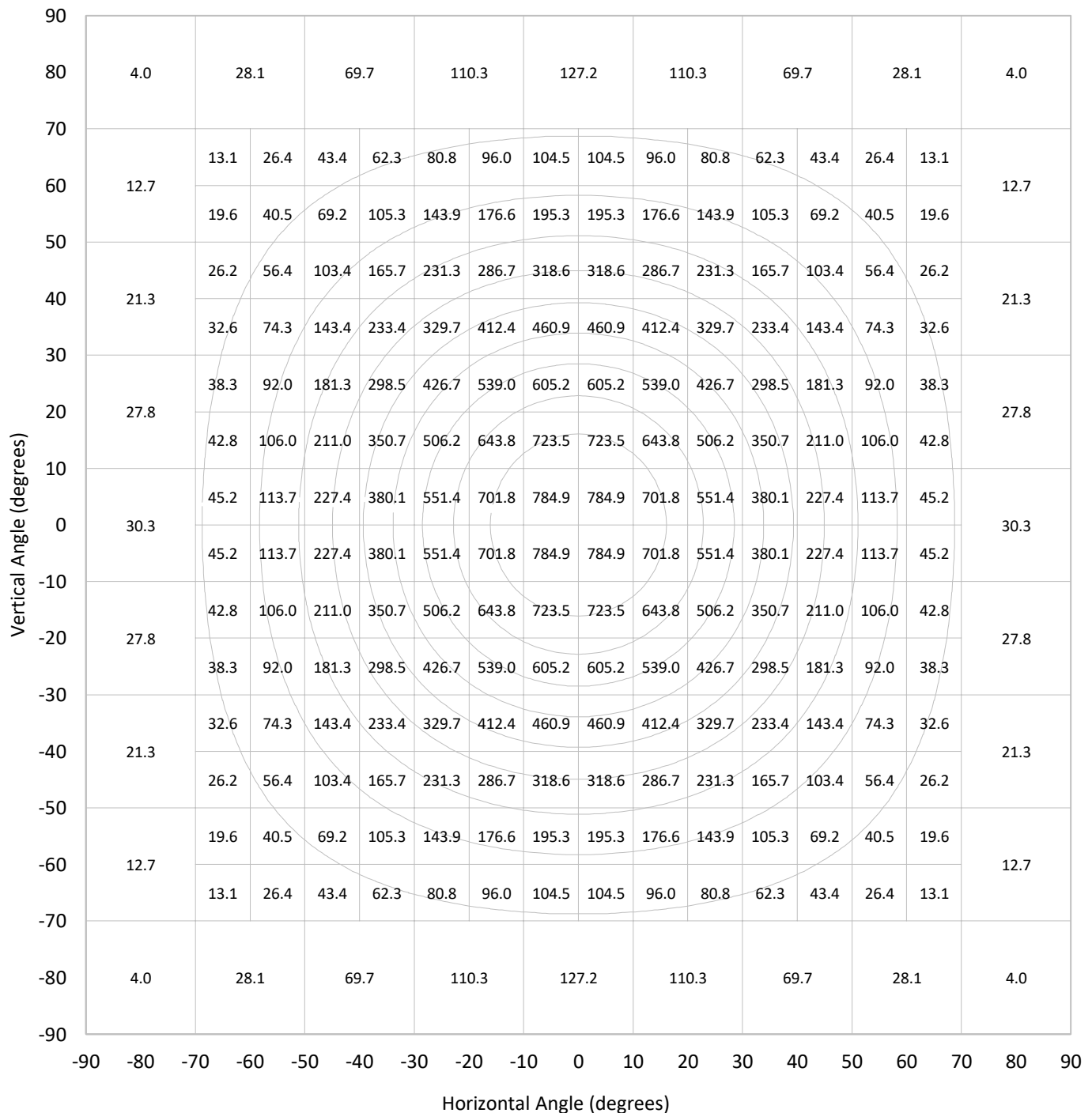
CATALOG NUMBER: IFLD-L-SA8C-730-U-77

Iso-Candela Plot



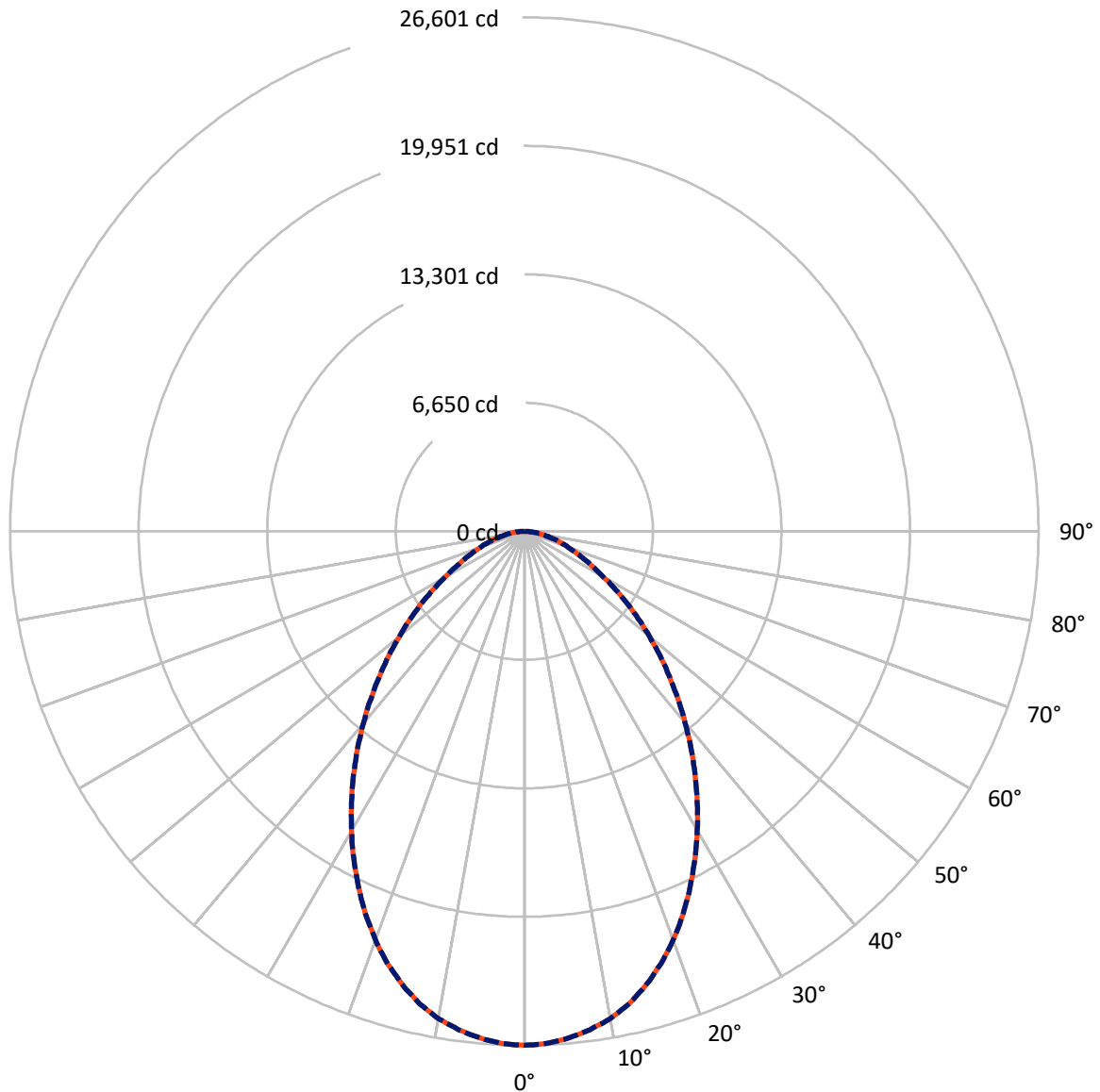
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Lumen Table



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Luminous Intensity Polar Plot

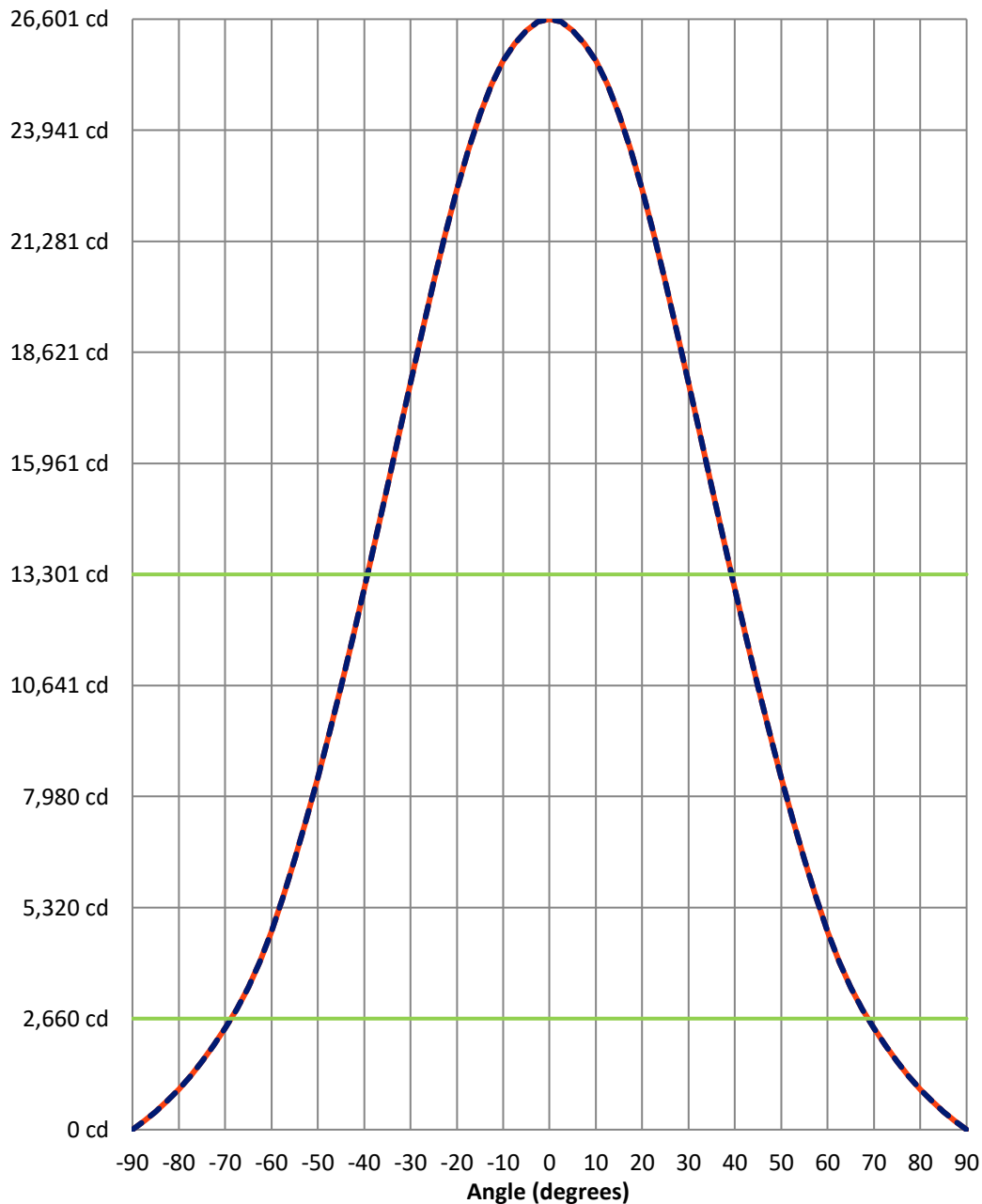


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 20724.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 33935.4
Efficiency: 70.9%

Spill:

Lumens: 13961.1
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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	194.8	194.8	189.8	184.8
85°	429.5	429.5	429.5	429.5	429.5	419.5	414.5	409.5	404.5	394.5	389.5
82.5°	689.1	689.1	689.1	689.1	679.1	669.2	664.2	654.2	644.2	629.2	614.2
80°	963.8	963.8	963.8	963.8	948.8	938.8	923.8	913.8	898.9	878.9	858.9
77.5°	1278.4	1278.4	1278.4	1263.4	1253.4	1238.4	1223.5	1203.5	1183.5	1158.5	1128.6
75°	1632.9	1632.9	1632.9	1613.0	1598.0	1583.0	1558.0	1533.1	1503.1	1468.1	1428.2
72.5°	2017.5	2017.5	2017.5	1992.5	1977.5	1952.5	1922.6	1887.6	1852.7	1807.7	1757.8
70°	2431.9	2431.9	2431.9	2402.0	2377.0	2352.0	2312.1	2272.1	2222.2	2172.3	2112.3
67.5°	2881.4	2881.4	2881.4	2846.4	2816.4	2781.5	2736.5	2686.6	2626.7	2556.8	2486.9
65°	3405.7	3405.7	3385.7	3355.8	3320.8	3270.9	3215.9	3146.0	3071.1	2981.2	2886.4
62.5°	4024.9	4024.9	3995.0	3960.0	3915.1	3850.1	3775.2	3685.4	3580.5	3465.6	3350.8
60°	4744.0	4744.0	4709.1	4664.1	4599.2	4519.3	4419.4	4304.6	4174.7	4029.9	3890.1
57.5°	5573.0	5573.0	5528.0	5468.1	5388.2	5288.3	5163.5	5018.7	4853.9	4674.1	4499.3
55°	6471.8	6471.8	6416.9	6347.0	6252.1	6132.3	5982.5	5812.7	5612.9	5408.2	5183.5
52.5°	7425.6	7425.6	7360.7	7280.8	7171.0	7031.1	6861.3	6661.6	6431.9	6192.2	5927.5
50°	8429.4	8429.4	8354.5	8264.6	8139.7	7974.9	7780.2	7550.5	7295.8	7016.2	6711.5
47.5°	9503.0	9503.0	9418.1	9313.3	9163.4	8973.7	8744.0	8479.3	8189.7	7875.1	7530.5
45°	10606.6	10606.6	10511.7	10391.9	10227.1	10012.4	9757.7	9503.0	9133.5	8768.9	8369.4
42.5°	11755.2	11755.2	11645.3	11510.5	11320.7	11086.0	10796.4	10466.8	10102.3	9692.8	9258.3
40°	12948.7	12948.7	12823.8	12669.0	12459.3	12189.6	11865.0	11495.5	11086.0	10631.6	10152.2
37.5°	14167.1	14167.1	14027.3	13857.5	13622.8	13323.2	12958.7	12549.2	12089.8	11585.4	11056.1
35°	15395.6	15395.6	15240.8	15056.0	14796.3	14466.8	14072.3	13617.8	13108.5	12559.2	11964.9
32.5°	16649.0	16649.0	16479.2	16269.5	15974.9	15610.3	15175.9	14681.5	14167.1	13527.9	12878.8
30°	17887.4	17887.4	17702.7	17473.0	17158.4	16758.9	16284.5	15740.1	15135.9	14481.7	13782.6
27.5°	19105.9	19056.0	18901.2	18656.5	18311.9	17887.4	17373.1	16783.8	16129.7	15410.6	14661.5
25°	20304.4	20249.5	20079.7	19810.0	19440.5	18976.1	18421.8	17792.6	17088.4	16329.4	15510.4
22.5°	21452.9	21393.0	21213.2	20923.6	20529.1	20024.7	19430.5	18756.3	18007.3	17193.3	16329.4
20°	22516.6	22451.7	22266.9	21962.3	21552.8	21018.5	20389.3	19665.2	18866.2	18007.3	17088.4
17.5°	23475.4	23410.5	23215.7	22901.1	22516.6	21922.3	21273.2	20509.1	19665.2	18756.3	17792.6
15°	24319.3	24249.4	24049.7	23735.1	23295.6	22736.3	22052.2	21273.2	20389.3	19430.5	18421.8
12.5°	25038.4	24968.5	24763.8	24449.2	23994.7	23435.4	22736.3	21922.3	21018.5	20024.7	18976.1
10°	25607.7	25537.8	25343.0	25043.4	24574.0	23994.7	23295.6	22516.6	21552.8	20529.1	19440.5
7.5°	26017.2	25952.3	25772.5	25472.9	25043.4	24449.2	23735.1	22901.1	21962.3	20923.6	19810.0
5°	26326.8	26251.9	26072.1	25772.5	25343.0	24763.8	24049.7	23215.7	22266.9	21213.2	20079.7
2.5°	26541.5	26451.6	26251.9	25952.3	25537.8	24968.5	24249.4	23410.5	22451.7	21393.0	20249.5
0°	26601.4	26541.5	26326.8	26017.2	25607.7	25038.4	24319.3	23475.4	22516.6	21452.9	20304.4

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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°	179.8	179.8	174.8	169.8	164.8	154.8	149.8	144.8	139.8	129.8	124.8
85°	379.5	369.5	359.5	349.6	334.6	324.6	309.6	299.6	284.6	269.7	254.7
82.5°	599.2	584.3	564.3	549.3	529.3	504.4	484.4	459.4	434.5	414.5	389.5
80°	838.9	814.0	789.0	764.0	734.1	704.1	674.1	644.2	609.2	574.3	539.3
77.5°	1098.6	1063.7	1028.7	988.8	953.8	913.8	873.9	833.9	789.0	744.1	699.1
75°	1388.2	1343.3	1293.4	1243.4	1198.5	1143.6	1088.6	1033.7	973.8	918.8	858.9
72.5°	1702.9	1647.9	1588.0	1528.1	1463.2	1393.2	1323.3	1248.4	1178.5	1108.6	1033.7
70°	2042.4	1977.5	1902.6	1827.7	1747.8	1662.9	1578.0	1488.1	1398.2	1308.3	1218.5
67.5°	2407.0	2327.1	2237.2	2147.3	2047.4	1947.5	1847.7	1742.8	1632.9	1523.1	1418.2
65°	2796.5	2696.6	2591.7	2476.9	2362.0	2247.2	2127.3	2002.5	1877.6	1747.8	1632.9
62.5°	3230.9	3106.1	2971.3	2831.4	2701.6	2561.8	2431.9	2277.1	2127.3	1982.5	1837.7
60°	3735.3	3570.5	3405.7	3230.9	3066.1	2886.4	2726.6	2556.8	2387.0	2222.2	2052.4
57.5°	4299.6	4089.8	3890.1	3680.4	3460.6	3260.9	3056.1	2851.4	2661.6	2466.9	2282.1
55°	4938.8	4684.1	4434.4	4174.7	3920.1	3670.4	3410.7	3181.0	2946.3	2726.6	2511.8
52.5°	5637.9	5348.3	5038.6	4744.0	4419.4	4109.8	3820.2	3530.5	3255.9	2991.2	2746.5
50°	6386.9	6047.4	5692.8	5333.3	4963.7	4599.2	4249.6	3910.1	3590.5	3280.9	2991.2
47.5°	7166.0	6781.4	6377.0	5967.5	5573.0	5128.5	4709.1	4324.5	3940.0	3590.5	3255.9
45°	7965.0	7530.5	7086.1	6621.6	6157.2	5677.8	5213.4	4744.0	4324.5	3910.1	3530.5
42.5°	8788.9	8299.5	7805.2	7290.8	6776.5	6252.1	5727.8	5213.4	4709.1	4249.6	3820.2
40°	9637.8	9098.5	8534.2	7974.9	7425.6	6826.4	6252.1	5677.8	5128.5	4599.2	4109.8
37.5°	10486.8	9897.5	9288.3	8659.1	8029.9	7425.6	6776.5	6157.2	5573.0	4963.7	4419.4
35°	11340.7	10691.5	10032.3	9348.2	8659.1	7974.9	7290.8	6621.6	5967.5	5333.3	4744.0
32.5°	12199.6	11490.5	10761.4	10032.3	9288.3	8534.2	7805.2	7086.1	6377.0	5692.8	5038.6
30°	13043.5	12274.5	11490.5	10691.5	9897.5	9098.5	8299.5	7530.5	6781.4	6047.4	5348.3
27.5°	13867.5	13043.5	12199.6	11340.7	10486.8	9637.8	8788.9	7965.0	7166.0	6386.9	5637.9
25°	14661.5	13782.6	12878.8	11964.9	11056.1	10152.2	9258.3	8369.4	7530.5	6711.5	5927.5
22.5°	15410.6	14481.7	13527.9	12559.2	11585.4	10631.6	9692.8	8768.9	7875.1	7016.2	6192.2
20°	16129.7	15135.9	14167.1	13108.5	12089.8	11086.0	10102.3	9133.5	8189.7	7295.8	6431.9
17.5°	16783.8	15740.1	14681.5	13617.8	12549.2	11495.5	10466.8	9503.0	8479.3	7550.5	6661.6
15°	17373.1	16284.5	15175.9	14072.3	12958.7	11865.0	10796.4	9757.7	8744.0	7780.2	6861.3
12.5°	17887.4	16758.9	15610.3	14466.8	13323.2	12189.6	11086.0	10012.4	8973.7	7974.9	7031.1
10°	18311.9	17158.4	15974.9	14796.3	13622.8	12459.3	11320.7	10227.1	9163.4	8139.7	7171.0
7.5°	18656.5	17473.0	16269.5	15056.0	13857.5	12669.0	11510.5	10391.9	9313.3	8264.6	7280.8
5°	18901.2	17702.7	16479.2	15240.8	14027.3	12823.8	11645.3	10511.7	9418.1	8354.5	7360.7
2.5°	19056.0	17887.4	16649.0	15395.6	14167.1	12948.7	11755.2	10606.6	9503.0	8429.4	7425.6
0°	19105.9	17887.4	16649.0	15395.6	14167.1	12948.7	11755.2	10606.6	9503.0	8429.4	7425.6

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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°	119.8	109.9	99.9	94.9	84.9	79.9	69.9	59.9	54.9	44.9	35.0
85°	239.7	219.7	204.7	189.8	174.8	154.8	139.8	124.8	104.9	89.9	69.9
82.5°	364.5	339.6	314.6	289.6	264.7	239.7	209.7	184.8	159.8	134.8	104.9
80°	504.4	464.4	429.5	394.5	359.5	324.6	284.6	249.7	209.7	174.8	139.8
77.5°	649.2	604.2	554.3	504.4	454.4	409.5	359.5	314.6	269.7	219.7	174.8
75°	804.0	744.1	689.1	624.2	564.3	499.4	439.4	379.5	324.6	269.7	209.7
72.5°	963.8	888.9	814.0	744.1	669.2	594.3	524.3	449.4	379.5	314.6	249.7
70°	1128.6	1038.7	948.8	863.9	779.0	689.1	609.2	524.3	439.4	359.5	284.6
67.5°	1303.4	1198.5	1093.6	983.8	888.9	789.0	689.1	594.3	499.4	409.5	324.6
65°	1493.1	1368.3	1238.4	1123.6	998.7	888.9	779.0	669.2	564.3	454.4	359.5
62.5°	1687.9	1543.1	1398.2	1253.4	1123.6	983.8	863.9	744.1	624.2	504.4	394.5
60°	1887.6	1722.8	1558.0	1398.2	1238.4	1093.6	948.8	814.0	689.1	554.3	429.5
57.5°	2092.4	1907.6	1722.8	1543.1	1368.3	1198.5	1038.7	888.9	744.1	604.2	464.4
55°	2302.1	2092.4	1887.6	1687.9	1493.1	1303.4	1128.6	963.8	804.0	649.2	504.4
52.5°	2511.8	2282.1	2052.4	1837.7	1632.9	1418.2	1218.5	1033.7	858.9	699.1	539.3
50°	2726.6	2466.9	2222.2	1982.5	1747.8	1523.1	1308.3	1108.6	918.8	744.1	574.3
47.5°	2946.3	2661.6	2387.0	2127.3	1877.6	1632.9	1398.2	1178.5	973.8	789.0	609.2
45°	3181.0	2851.4	2556.8	2277.1	2002.5	1742.8	1488.1	1248.4	1033.7	833.9	644.2
42.5°	3410.7	3056.1	2726.6	2431.9	2127.3	1847.7	1578.0	1323.3	1088.6	873.9	674.1
40°	3670.4	3260.9	2886.4	2561.8	2247.2	1947.5	1662.9	1393.2	1143.6	913.8	704.1
37.5°	3920.1	3460.6	3066.1	2701.6	2362.0	2047.4	1747.8	1463.2	1198.5	953.8	734.1
35°	4174.7	3680.4	3230.9	2831.4	2476.9	2147.3	1827.7	1528.1	1243.4	988.8	764.0
32.5°	4434.4	3890.1	3405.7	2971.3	2591.7	2237.2	1902.6	1588.0	1293.4	1028.7	789.0
30°	4684.1	4089.8	3570.5	3106.1	2696.6	2327.1	1977.5	1647.9	1343.3	1063.7	814.0
27.5°	4938.8	4299.6	3735.3	3230.9	2796.5	2407.0	2042.4	1702.9	1388.2	1098.6	838.9
25°	5183.5	4499.3	3890.1	3350.8	2886.4	2486.9	2112.3	1757.8	1428.2	1128.6	858.9
22.5°	5408.2	4674.1	4029.9	3465.6	2981.2	2556.8	2172.3	1807.7	1468.1	1158.5	878.9
20°	5612.9	4853.9	4174.7	3580.5	3071.1	2626.7	2222.2	1852.7	1503.1	1183.5	898.9
17.5°	5812.7	5018.7	4304.6	3685.4	3146.0	2686.6	2272.1	1887.6	1533.1	1203.5	913.8
15°	5982.5	5163.5	4419.4	3775.2	3215.9	2736.5	2312.1	1922.6	1558.0	1223.5	923.8
12.5°	6132.3	5288.3	4519.3	3850.1	3270.9	2781.5	2352.0	1952.5	1583.0	1238.4	938.8
10°	6252.1	5388.2	4599.2	3915.1	3320.8	2816.4	2377.0	1977.5	1598.0	1253.4	948.8
7.5°	6347.0	5468.1	4664.1	3960.0	3355.8	2846.4	2402.0	1992.5	1613.0	1263.4	963.8
5°	6416.9	5528.0	4709.1	3995.0	3385.7	2881.4	2431.9	2017.5	1632.9	1278.4	963.8
2.5°	6471.8	5573.0	4744.0	4024.9	3405.7	2881.4	2431.9	2017.5	1632.9	1278.4	963.8
0°	6471.8	5573.0	4744.0	4024.9	3405.7	2881.4	2431.9	2017.5	1632.9	1278.4	963.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.0	20.0	10.0	0.0
85°	54.9	35.0	20.0	0.0
82.5°	79.9	54.9	25.0	0.0
80°	104.9	69.9	35.0	0.0
77.5°	134.8	89.9	44.9	0.0
75°	159.8	104.9	54.9	0.0
72.5°	184.8	124.8	59.9	0.0
70°	209.7	139.8	69.9	0.0
67.5°	239.7	154.8	79.9	0.0
65°	264.7	174.8	84.9	0.0
62.5°	289.6	189.8	94.9	0.0
60°	314.6	204.7	99.9	0.0
57.5°	339.6	219.7	109.9	0.0
55°	364.5	239.7	119.8	0.0
52.5°	389.5	254.7	124.8	0.0
50°	414.5	269.7	129.8	0.0
47.5°	434.5	284.6	139.8	0.0
45°	459.4	299.6	144.8	0.0
42.5°	484.4	309.6	149.8	0.0
40°	504.4	324.6	154.8	0.0
37.5°	529.3	334.6	164.8	0.0
35°	549.3	349.6	169.8	0.0
32.5°	564.3	359.5	174.8	0.0
30°	584.3	369.5	179.8	0.0
27.5°	599.2	379.5	179.8	0.0
25°	614.2	389.5	184.8	0.0
22.5°	629.2	394.5	189.8	0.0
20°	644.2	404.5	194.8	0.0
17.5°	654.2	409.5	194.8	0.0
15°	664.2	414.5	204.7	0.0
12.5°	669.2	419.5	204.7	0.0
10°	679.1	429.5	204.7	0.0
7.5°	689.1	429.5	204.7	0.0
5°	689.1	429.5	204.7	0.0
2.5°	689.1	429.5	204.7	0.0
0°	689.1	429.5	204.7	0.0

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