

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: P623578

Luminaire Tested: **IFLD-L-SA8D-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	42816.2 lumens	Max Intensity:	52323.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	87.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

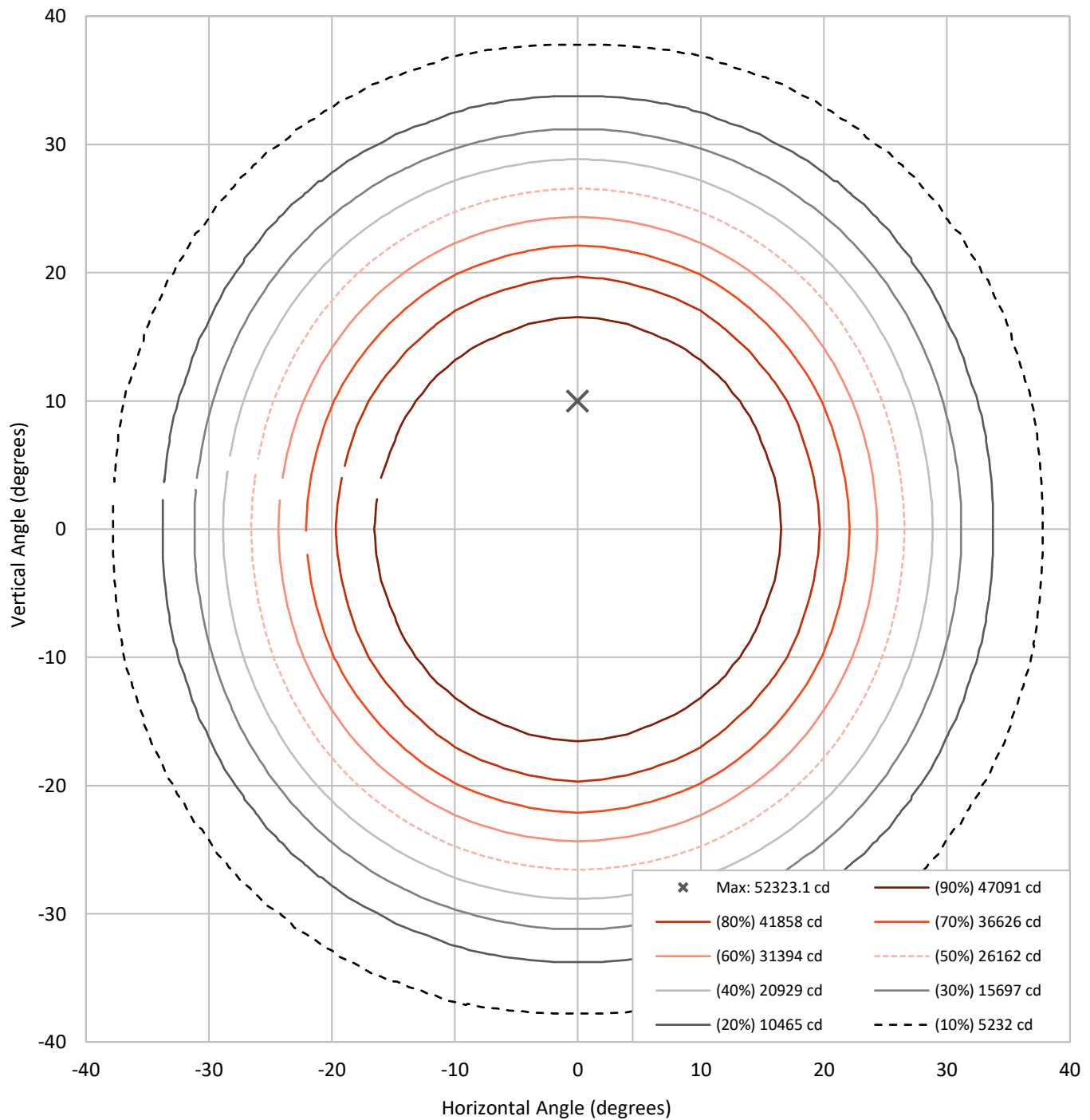
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	21280.7 lumens	Field Lumens:	27676.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 488.3
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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Iso-Candela Plot



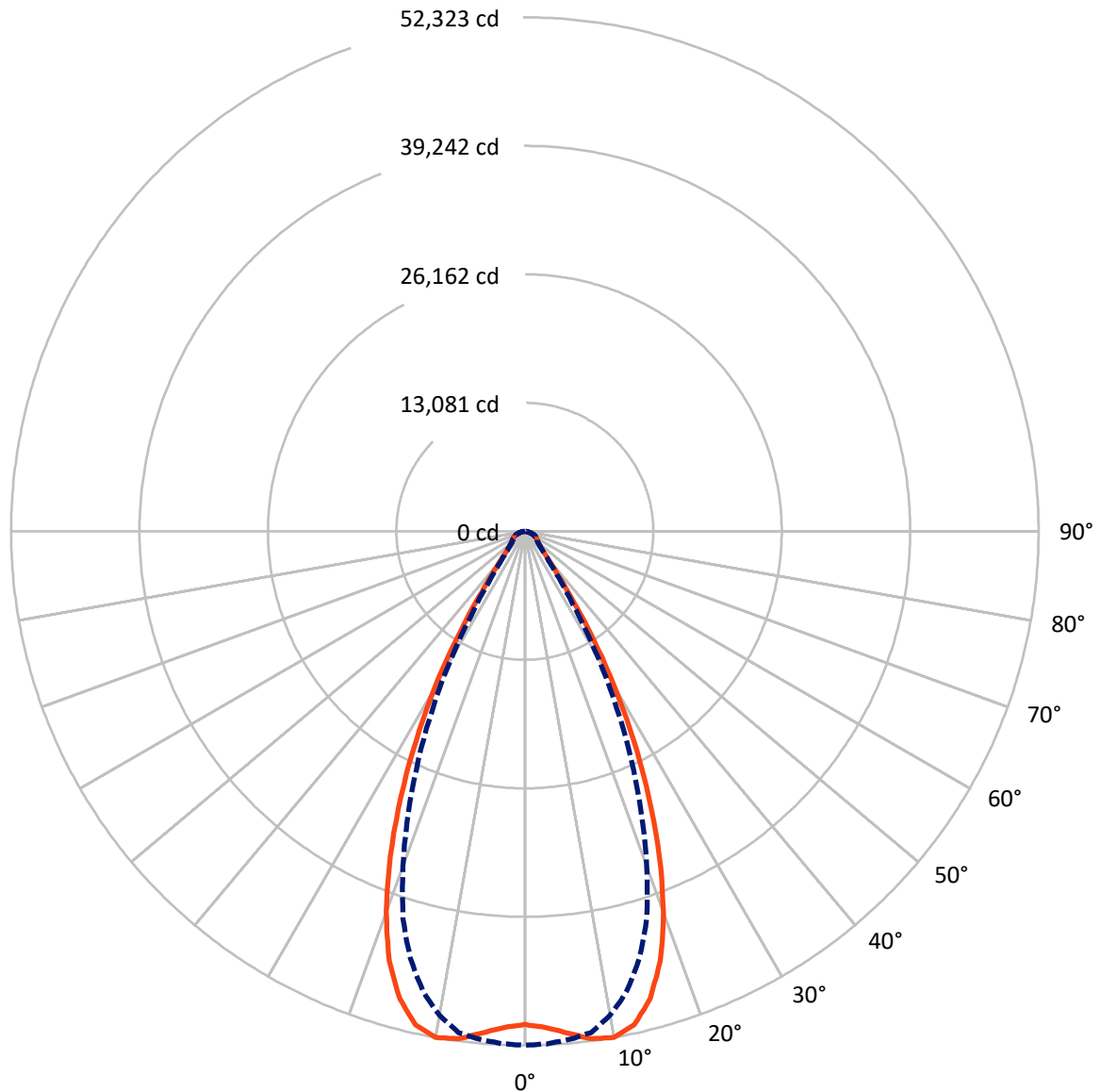
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Lumen Table

90																			
80	1.2		9.4		24.5		39.5		45.8		39.5		24.5		9.4		1.2		
70																			
60	4.3	4.6	9.7	16.0	22.4	28.1	32.1	34.3	34.3	32.1	28.1	22.4	16.0	9.7	4.6	4.3			
50		7.2	14.8	23.5	31.5	38.3	43.5	46.4	46.4	43.5	38.3	31.5	23.5	14.8	7.2				
40	7.6	9.7	19.1	28.9	38.8	50.2	63.5	73.8	73.8	63.5	50.2	38.8	28.9	19.1	9.7	7.6			
30		11.7	22.2	33.5	50.8	90.5	176.8	266.6	266.6	176.8	90.5	50.8	33.5	22.2	11.7				
20	10.1	13.3	24.4	39.3	82.1	261.6	606.2	860.4	860.4	606.2	261.6	82.1	39.3	24.4	13.3	10.1			
10		14.2	26.0	46.8	151.5	571.0	1117.1	1424.1	1424.1	1117.1	571.0	151.5	46.8	26.0	14.2				
0	11.1	14.7	26.9	52.9	222.4	786.5	1382.0	1567.3	1567.3	1382.0	786.5	222.4	52.9	26.9	14.7	11.1			
-10		14.7	26.9	52.9	222.4	786.5	1382.0	1567.3	1567.3	1382.0	786.5	222.4	52.9	26.9	14.7				
-20	10.1	14.2	26.0	46.8	151.5	571.0	1117.1	1424.1	1424.1	1117.1	571.0	151.5	46.8	26.0	14.2	10.1			
-30		13.3	24.4	39.3	82.1	261.6	606.2	860.4	860.4	606.2	261.6	82.1	39.3	24.4	13.3				
-40	7.6	11.7	22.2	33.5	50.8	90.5	176.8	266.6	266.6	176.8	90.5	50.8	33.5	22.2	11.7	7.6			
-50		9.7	19.1	28.9	38.8	50.2	63.5	73.8	73.8	63.5	50.2	38.8	28.9	19.1	9.7				
-60	4.3	7.2	14.8	23.5	31.5	38.3	43.5	46.4	46.4	43.5	38.3	31.5	23.5	14.8	7.2	4.3			
-70		4.6	9.7	16.0	22.4	28.1	32.1	34.3	34.3	32.1	28.1	22.4	16.0	9.7	4.6				
-80	1.2		9.4		24.5		39.5		45.8		39.5		24.5		9.4		1.2		
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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Luminous Intensity Polar Plot

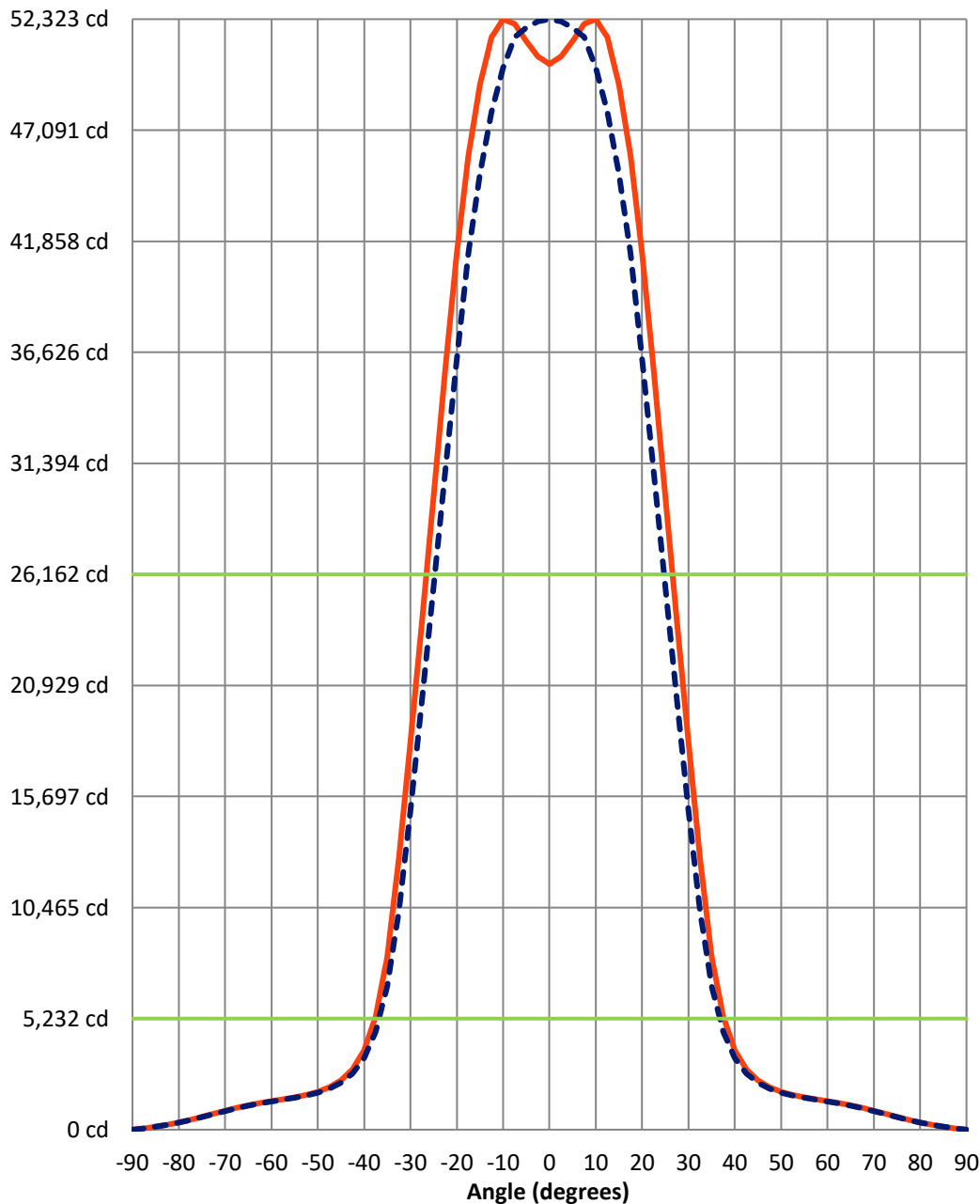


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 21280.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 27676.2
Efficiency: 64.6%

Spill:

Lumens: 15140
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	53.4	53.4	53.4	53.4
85°	142.3	142.3	142.3	142.3	142.3	137.9	137.9	133.4	133.4	129.0	124.5
82.5°	231.3	231.3	231.3	231.3	226.8	226.8	222.4	217.9	213.5	209.0	204.6
80°	338.0	338.0	338.0	338.0	333.6	329.1	324.7	320.2	311.3	306.9	298.0
77.5°	462.6	462.6	462.6	458.1	453.7	449.2	440.3	431.4	422.5	413.6	404.7
75°	604.9	604.9	604.9	596.0	591.5	582.7	573.8	564.9	551.5	538.2	524.8
72.5°	751.7	751.7	751.7	742.8	733.9	725.0	716.1	702.7	689.4	671.6	653.8
70°	889.5	889.5	889.5	880.7	871.8	862.9	849.5	836.2	818.4	800.6	782.8
67.5°	1031.9	1031.9	1031.9	1018.5	1009.6	1000.7	987.4	969.6	951.8	929.6	907.3
65°	1147.5	1147.5	1143.1	1138.6	1129.7	1116.4	1107.5	1089.7	1071.9	1054.1	1031.9
62.5°	1254.3	1254.3	1249.8	1245.4	1236.5	1223.1	1209.8	1196.4	1178.6	1156.4	1134.2
60°	1343.2	1343.2	1338.8	1334.3	1325.4	1316.5	1303.2	1289.8	1272.1	1254.3	1232.0
57.5°	1432.2	1432.2	1427.7	1423.3	1414.4	1401.0	1387.7	1374.3	1356.6	1334.3	1312.1
55°	1525.6	1525.6	1521.1	1512.2	1503.3	1490.0	1476.6	1458.9	1436.6	1414.4	1392.1
52.5°	1636.8	1636.8	1627.9	1619.0	1605.6	1592.3	1570.0	1547.8	1521.1	1494.4	1467.8
50°	1783.5	1783.5	1774.6	1761.3	1739.1	1716.8	1690.1	1654.6	1623.4	1587.8	1552.3
47.5°	2001.5	2001.5	1983.7	1961.5	1930.3	1894.7	1845.8	1792.4	1748.0	1703.5	1650.1
45°	2321.7	2321.7	2295.0	2259.4	2210.5	2148.3	2077.1	2001.5	1925.9	1850.3	1774.6
42.5°	2842.1	2842.1	2793.2	2730.9	2646.4	2539.7	2406.2	2281.7	2174.9	2054.9	1952.6
40°	3740.5	3740.5	3647.1	3531.5	3371.4	3166.8	2922.2	2726.5	2539.7	2330.6	2188.3
37.5°	5337.3	5337.3	5154.9	4932.5	4621.2	4229.8	3758.3	3442.5	3095.6	2766.5	2526.3
35°	8157.1	8157.1	7805.8	7374.3	6773.9	6017.8	5212.7	4616.7	3954.0	3447.0	2997.8
32.5°	12782.8	12782.8	12151.2	11372.9	10301.0	8944.4	7654.5	6520.4	5337.3	4496.7	3687.2
30°	18280.2	18280.2	17452.9	16434.4	15037.8	13276.5	11439.6	9424.7	7556.7	6057.8	4834.7
27.5°	23964.4	23728.7	23017.0	21856.2	20263.9	18280.2	15989.6	13387.7	10861.4	8219.4	6471.5
25°	29844.3	29568.5	28754.6	27420.3	25596.7	23350.6	20770.9	17862.1	14744.2	11595.2	8570.8
22.5°	35786.5	35475.1	34550.0	33042.2	30996.3	28478.8	25556.7	22323.2	18840.6	15202.4	11595.2
20°	41279.4	40950.3	39980.7	38410.6	36293.5	33531.5	30284.6	26699.7	22848.0	18840.6	14744.2
17.5°	45878.4	45562.6	44628.6	43129.7	41279.4	38223.8	34848.0	30907.3	26699.7	22323.2	17862.1
15°	49236.4	48965.1	48169.0	46910.2	45024.4	42320.2	38882.1	34848.0	30284.6	25556.7	20770.9
12.5°	51464.7	51246.8	50619.7	49641.2	47951.0	45682.7	42320.2	38223.8	33531.5	28478.8	23350.6
10°	52323.1	52216.4	51922.8	51473.6	50032.6	47951.0	45024.4	41279.4	36293.5	30996.3	25596.7
7.5°	52096.3	52131.9	52234.2	52118.5	51473.6	49641.2	46910.2	43129.7	38410.6	33042.2	27420.3
5°	51286.8	51478.1	51954.0	52234.2	51922.8	50619.7	48169.0	44628.6	39980.7	34550.0	28754.6
2.5°	50566.3	50864.3	51478.1	52131.9	52216.4	51246.8	48965.1	45562.6	40950.3	35475.1	29568.5
0°	50210.5	50566.3	51286.8	52096.3	52323.1	51464.7	49236.4	45878.4	41279.4	35786.5	29844.3

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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°	53.4	48.9	48.9	48.9	44.5	44.5	44.5	40.0	40.0	35.6	35.6
85°	124.5	120.1	115.6	111.2	106.7	102.3	97.9	93.4	89.0	80.1	75.6
82.5°	200.1	195.7	191.3	182.4	177.9	169.0	160.1	151.2	142.3	137.9	129.0
80°	289.1	280.2	271.3	262.4	249.1	235.7	226.8	213.5	204.6	191.3	182.4
77.5°	391.4	378.1	364.7	346.9	333.6	320.2	302.4	289.1	271.3	253.5	235.7
75°	507.0	489.3	467.0	449.2	431.4	409.2	387.0	364.7	342.5	320.2	298.0
72.5°	631.6	609.3	587.1	564.9	538.2	507.0	480.4	449.2	422.5	395.8	364.7
70°	760.6	733.9	707.2	680.5	649.4	613.8	582.7	547.1	511.5	475.9	440.3
67.5°	880.7	854.0	822.8	796.1	760.6	725.0	685.0	644.9	604.9	560.4	515.9
65°	1005.2	974.1	938.5	902.9	867.3	827.3	787.2	747.2	698.3	649.4	604.9
62.5°	1107.5	1080.8	1049.7	1014.1	974.1	929.6	889.5	836.2	787.2	738.3	680.5
60°	1205.3	1174.2	1147.5	1107.5	1071.9	1031.9	982.9	929.6	876.2	818.4	765.0
57.5°	1289.8	1263.2	1232.0	1196.4	1156.4	1116.4	1071.9	1023.0	960.7	902.9	840.6
55°	1365.5	1334.3	1303.2	1272.1	1236.5	1192.0	1147.5	1098.6	1045.2	982.9	916.2
52.5°	1441.1	1409.9	1374.3	1343.2	1303.2	1263.2	1218.7	1169.8	1116.4	1058.6	987.4
50°	1516.7	1481.1	1445.5	1405.5	1365.5	1325.4	1280.9	1236.5	1178.6	1120.8	1058.6
47.5°	1605.6	1561.2	1516.7	1472.2	1432.2	1383.2	1338.8	1289.8	1240.9	1178.6	1116.4
45°	1716.8	1650.1	1596.7	1543.4	1494.4	1445.5	1392.1	1343.2	1289.8	1236.5	1169.8
42.5°	1854.7	1765.8	1694.6	1623.4	1561.2	1503.3	1450.0	1392.1	1338.8	1280.9	1218.7
40°	2041.5	1921.4	1805.8	1716.8	1636.8	1565.6	1503.3	1445.5	1383.2	1325.4	1263.2
37.5°	2286.1	2117.1	1957.0	1828.0	1725.7	1636.8	1561.2	1494.4	1432.2	1365.5	1303.2
35°	2655.3	2361.7	2157.2	1970.3	1828.0	1716.8	1623.4	1543.4	1472.2	1405.5	1343.2
32.5°	3175.7	2722.0	2392.9	2157.2	1957.0	1805.8	1694.6	1596.7	1516.7	1445.5	1374.3
30°	3860.6	3233.5	2722.0	2361.7	2117.1	1921.4	1765.8	1650.1	1561.2	1481.1	1409.9
27.5°	4945.9	3860.6	3175.7	2655.3	2286.1	2041.5	1854.7	1716.8	1605.6	1516.7	1441.1
25°	6471.5	4834.7	3687.2	2997.8	2526.3	2188.3	1952.6	1774.6	1650.1	1552.3	1467.8
22.5°	8219.4	6057.8	4496.7	3447.0	2766.5	2330.6	2054.9	1850.3	1703.5	1587.8	1494.4
20°	10861.4	7556.7	5337.3	3954.0	3095.6	2539.7	2174.9	1925.9	1748.0	1623.4	1521.1
17.5°	13387.7	9424.7	6520.4	4616.7	3442.5	2726.5	2281.7	2001.5	1792.4	1654.6	1547.8
15°	15989.6	11439.6	7654.5	5212.7	3758.3	2922.2	2406.2	2077.1	1845.8	1690.1	1570.0
12.5°	18280.2	13276.5	8944.4	6017.8	4229.8	3166.8	2539.7	2148.3	1894.7	1716.8	1592.3
10°	20263.9	15037.8	10301.0	6773.9	4621.2	3371.4	2646.4	2210.5	1930.3	1739.1	1605.6
7.5°	21856.2	16434.4	11372.9	7374.3	4932.5	3531.5	2730.9	2259.4	1961.5	1761.3	1619.0
5°	23017.0	17452.9	12151.2	7805.8	5154.9	3647.1	2793.2	2295.0	1983.7	1774.6	1627.9
2.5°	23728.7	18280.2	12782.8	8157.1	5337.3	3740.5	2842.1	2321.7	2001.5	1783.5	1636.8
0°	23964.4	18280.2	12782.8	8157.1	5337.3	3740.5	2842.1	2321.7	2001.5	1783.5	1636.8

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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°	31.1	31.1	26.7	26.7	22.2	22.2	17.8	17.8	13.3	13.3	8.9
85°	71.2	62.3	57.8	53.4	48.9	44.5	40.0	35.6	31.1	26.7	22.2
82.5°	120.1	111.2	97.9	89.0	80.1	71.2	57.8	53.4	44.5	35.6	31.1
80°	169.0	155.7	142.3	129.0	115.6	102.3	89.0	75.6	62.3	48.9	40.0
77.5°	217.9	200.1	186.8	169.0	151.2	133.4	115.6	97.9	80.1	62.3	48.9
75°	275.8	253.5	231.3	209.0	186.8	164.6	146.8	124.5	102.3	80.1	62.3
72.5°	338.0	306.9	280.2	253.5	222.4	200.1	173.5	151.2	124.5	97.9	75.6
70°	404.7	369.2	333.6	298.0	266.9	231.3	204.6	173.5	146.8	115.6	89.0
67.5°	471.5	431.4	391.4	346.9	306.9	271.3	231.3	200.1	164.6	133.4	102.3
65°	551.5	498.1	449.2	400.3	351.4	306.9	266.9	222.4	186.8	151.2	115.6
62.5°	627.1	569.3	511.5	453.7	400.3	346.9	298.0	253.5	209.0	169.0	129.0
60°	702.7	640.5	573.8	511.5	449.2	391.4	333.6	280.2	231.3	186.8	142.3
57.5°	778.4	707.2	640.5	569.3	498.1	431.4	369.2	306.9	253.5	200.1	155.7
55°	845.1	778.4	702.7	627.1	551.5	471.5	404.7	338.0	275.8	217.9	169.0
52.5°	916.2	840.6	765.0	680.5	604.9	515.9	440.3	364.7	298.0	235.7	182.4
50°	982.9	902.9	818.4	738.3	649.4	560.4	475.9	395.8	320.2	253.5	191.3
47.5°	1045.2	960.7	876.2	787.2	698.3	604.9	511.5	422.5	342.5	271.3	204.6
45°	1098.6	1023.0	929.6	836.2	747.2	644.9	547.1	449.2	364.7	289.1	213.5
42.5°	1147.5	1071.9	982.9	889.5	787.2	685.0	582.7	480.4	387.0	302.4	226.8
40°	1192.0	1116.4	1031.9	929.6	827.3	725.0	613.8	507.0	409.2	320.2	235.7
37.5°	1236.5	1156.4	1071.9	974.1	867.3	760.6	649.4	538.2	431.4	333.6	249.1
35°	1272.1	1196.4	1107.5	1014.1	902.9	796.1	680.5	564.9	449.2	346.9	262.4
32.5°	1303.2	1232.0	1147.5	1049.7	938.5	822.8	707.2	587.1	467.0	364.7	271.3
30°	1334.3	1263.2	1174.2	1080.8	974.1	854.0	733.9	609.3	489.3	378.1	280.2
27.5°	1365.5	1289.8	1205.3	1107.5	1005.2	880.7	760.6	631.6	507.0	391.4	289.1
25°	1392.1	1312.1	1232.0	1134.2	1031.9	907.3	782.8	653.8	524.8	404.7	298.0
22.5°	1414.4	1334.3	1254.3	1156.4	1054.1	929.6	800.6	671.6	538.2	413.6	306.9
20°	1436.6	1356.6	1272.1	1178.6	1071.9	951.8	818.4	689.4	551.5	422.5	311.3
17.5°	1458.9	1374.3	1289.8	1196.4	1089.7	969.6	836.2	702.7	564.9	431.4	320.2
15°	1476.6	1387.7	1303.2	1209.8	1107.5	987.4	849.5	716.1	573.8	440.3	324.7
12.5°	1490.0	1401.0	1316.5	1223.1	1116.4	1000.7	862.9	725.0	582.7	449.2	329.1
10°	1503.3	1414.4	1325.4	1236.5	1129.7	1009.6	871.8	733.9	591.5	453.7	333.6
7.5°	1512.2	1423.3	1334.3	1245.4	1138.6	1018.5	880.7	742.8	596.0	458.1	338.0
5°	1521.1	1427.7	1338.8	1249.8	1143.1	1031.9	889.5	751.7	604.9	462.6	338.0
2.5°	1525.6	1432.2	1343.2	1254.3	1147.5	1031.9	889.5	751.7	604.9	462.6	338.0
0°	1525.6	1432.2	1343.2	1254.3	1147.5	1031.9	889.5	751.7	604.9	462.6	338.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.9	4.4	4.4	0.0
85°	13.3	8.9	4.4	0.0
82.5°	22.2	13.3	8.9	0.0
80°	31.1	22.2	8.9	0.0
77.5°	35.6	26.7	13.3	0.0
75°	44.5	31.1	13.3	0.0
72.5°	53.4	35.6	17.8	0.0
70°	57.8	40.0	17.8	0.0
67.5°	71.2	44.5	22.2	0.0
65°	80.1	48.9	22.2	0.0
62.5°	89.0	53.4	26.7	0.0
60°	97.9	57.8	26.7	0.0
57.5°	111.2	62.3	31.1	0.0
55°	120.1	71.2	31.1	0.0
52.5°	129.0	75.6	35.6	0.0
50°	137.9	80.1	35.6	0.0
47.5°	142.3	89.0	40.0	0.0
45°	151.2	93.4	40.0	0.0
42.5°	160.1	97.9	44.5	0.0
40°	169.0	102.3	44.5	0.0
37.5°	177.9	106.7	44.5	0.0
35°	182.4	111.2	48.9	0.0
32.5°	191.3	115.6	48.9	0.0
30°	195.7	120.1	48.9	0.0
27.5°	200.1	124.5	53.4	0.0
25°	204.6	124.5	53.4	0.0
22.5°	209.0	129.0	53.4	0.0
20°	213.5	133.4	53.4	0.0
17.5°	217.9	133.4	53.4	0.0
15°	222.4	137.9	57.8	0.0
12.5°	226.8	137.9	57.8	0.0
10°	226.8	142.3	57.8	0.0
7.5°	231.3	142.3	57.8	0.0
5°	231.3	142.3	57.8	0.0
2.5°	231.3	142.3	57.8	0.0
0°	231.3	142.3	57.8	0.0

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