

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: P640042

Luminaire Tested: **IFLD-S-SA3A-AMB-U-66**

Issue Date: 02/09/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640042  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-AMB-U-66  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens  
Light Source: (48) 1620K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

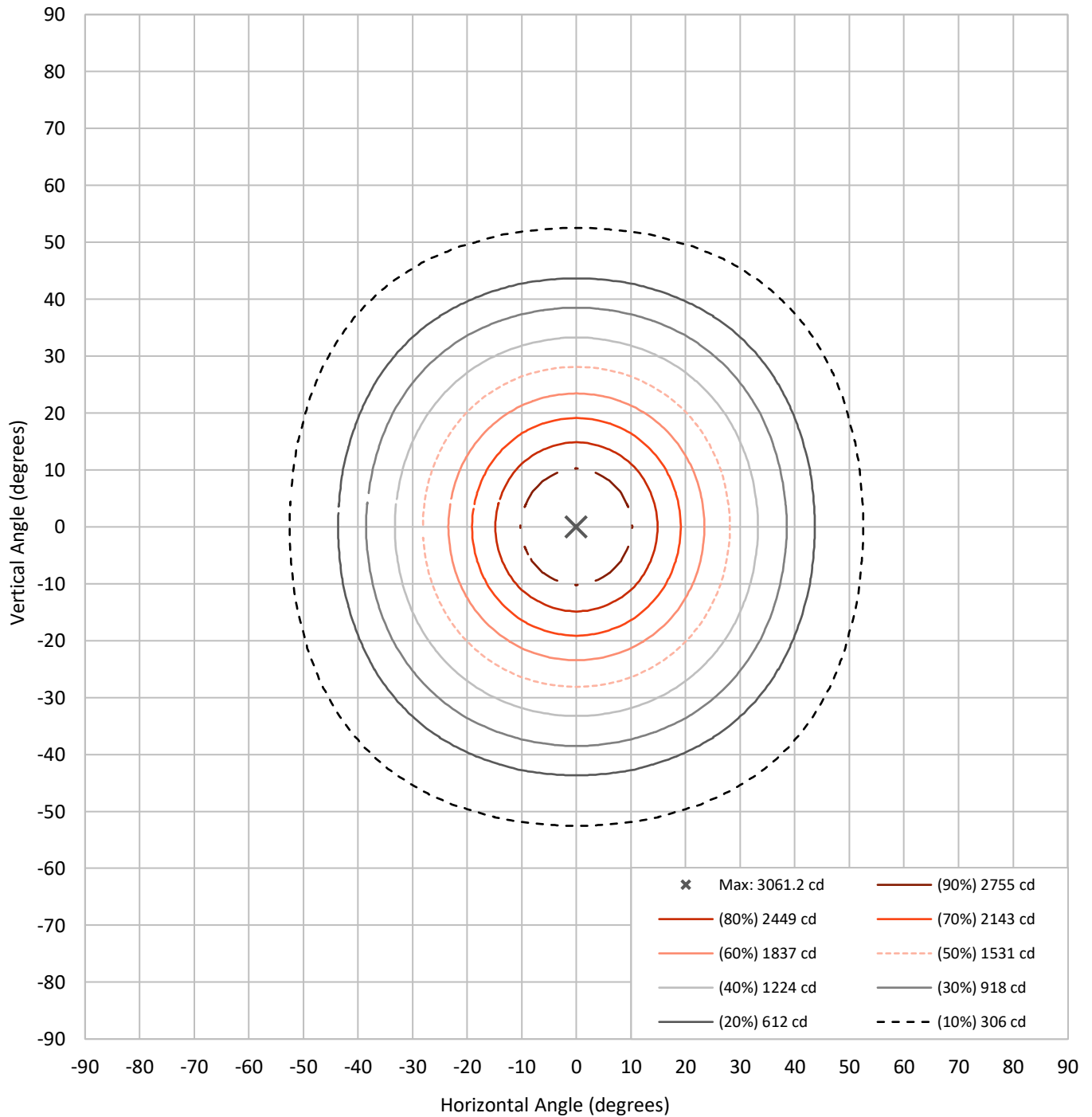
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	3350.2 lumens	Max Intensity:	3061.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	104.8°H x 104.8°V
Beam Lumens:	1198.7 lumens	Field Lumens:	2214.1 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%

Input Watts (W): 94.8  
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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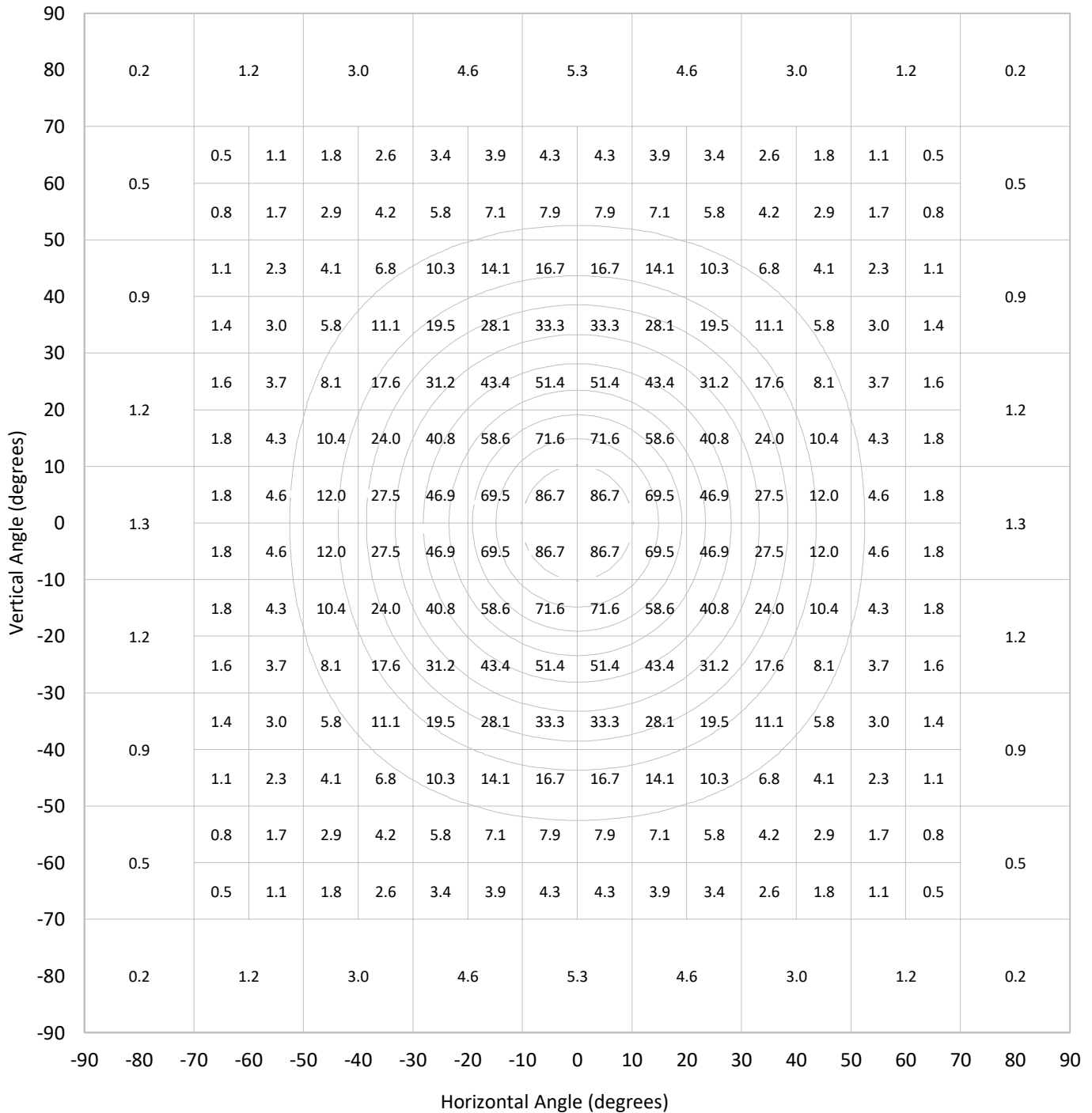
### Iso-Candela Plot





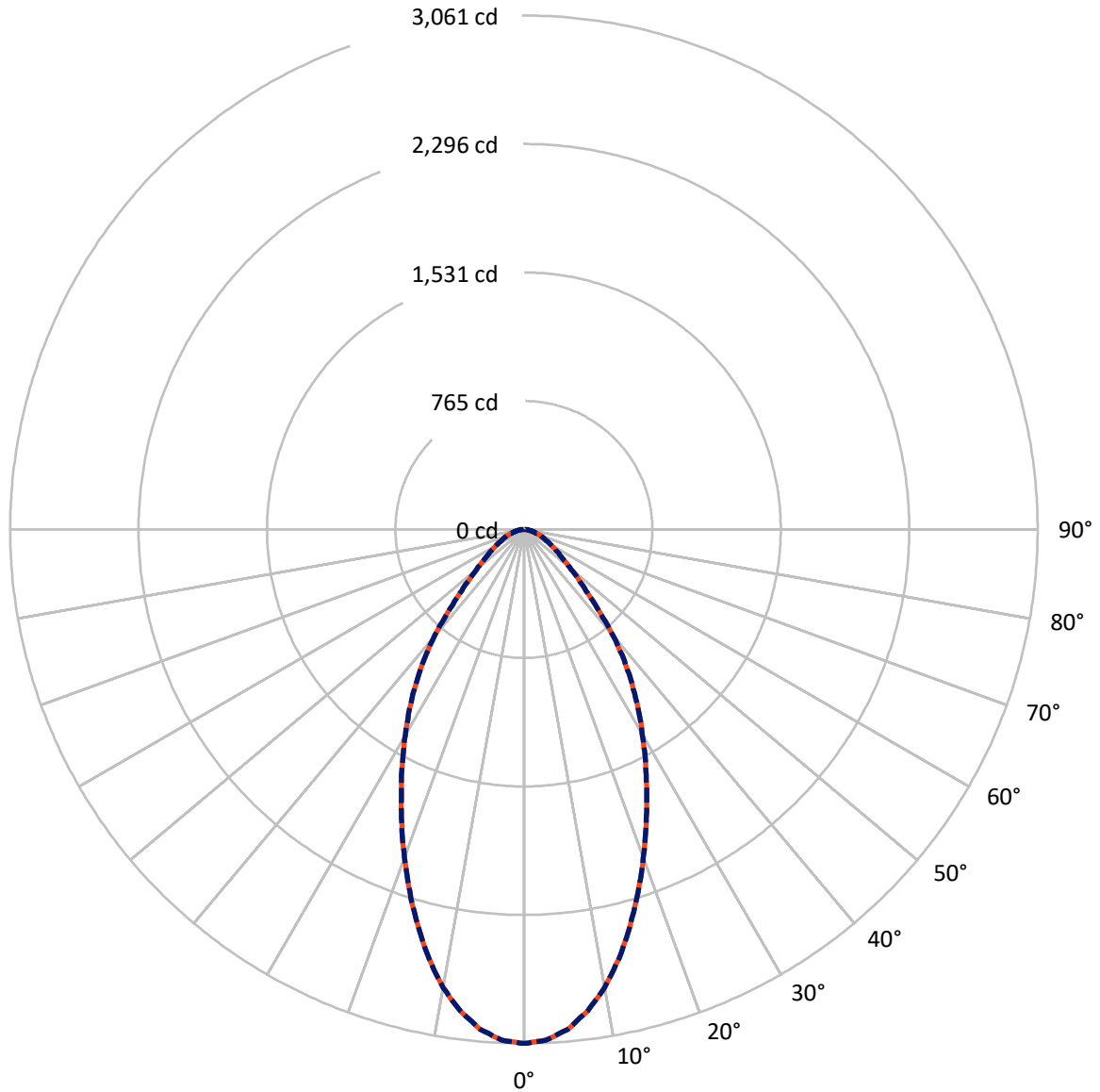
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### Lumen Table



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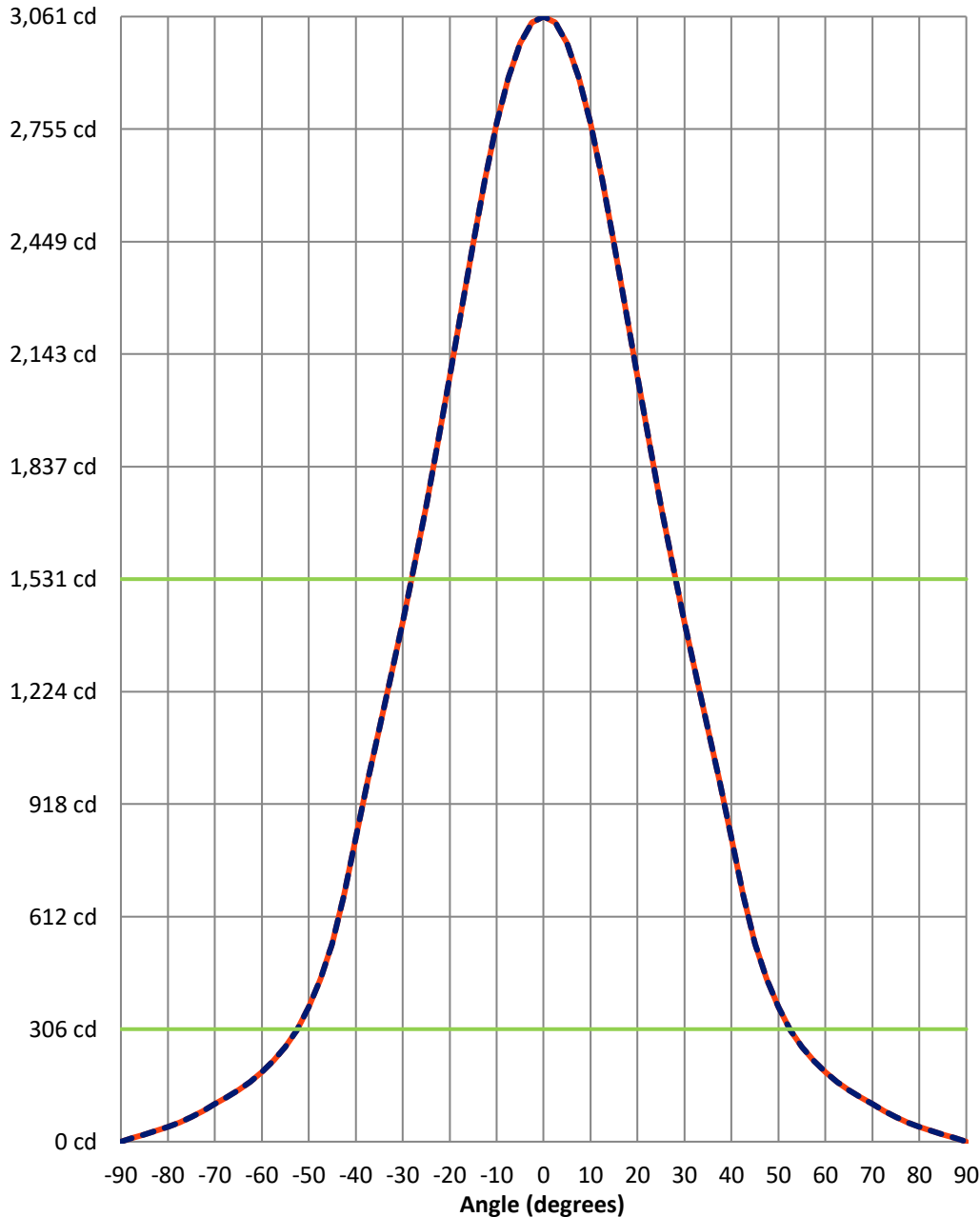
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 56.2°  
V Angle: 56.2°  
Lumens: 1198.7  
Efficiency: 35.8%

**Field:**  
H Angle: 104.8°  
V Angle: 104.8°  
Lumens: 2214.1  
Efficiency: 66.1%

**Spill:**  
Lumens: 1136  
Efficiency: 33.9%

— 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°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	8.9	8.9
85°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	17.9	17.9	17.9	17.9
82.5°	29.8	29.8	29.8	29.8	29.8	28.3	28.3	28.3	28.3	26.8	26.8
80°	40.2	40.2	40.2	40.2	40.2	38.7	38.7	38.7	37.3	37.3	35.8
77.5°	52.2	52.2	52.2	52.2	50.7	50.7	50.7	49.2	49.2	47.7	46.2
75°	67.1	67.1	67.1	65.6	65.6	65.6	64.1	62.6	61.1	59.6	58.1
72.5°	83.5	83.5	83.5	82.0	82.0	80.5	79.0	77.5	76.0	74.5	73.0
70°	102.8	102.8	102.8	101.3	99.9	98.4	96.9	95.4	92.4	90.9	87.9
67.5°	120.7	120.7	120.7	119.2	117.7	116.2	114.8	113.3	110.3	107.3	104.3
65°	140.1	140.1	138.6	138.6	137.1	135.6	132.6	131.2	128.2	125.2	120.7
62.5°	162.4	162.4	161.0	159.5	158.0	156.5	153.5	150.5	146.1	143.1	138.6
60°	189.3	189.3	187.8	186.3	183.3	180.3	177.4	172.9	168.4	162.4	158.0
57.5°	220.6	220.6	219.1	216.1	213.1	210.1	205.7	199.7	193.7	186.3	180.3
55°	257.8	257.8	254.8	253.4	248.9	244.4	237.0	231.0	222.1	214.6	205.7
52.5°	304.0	304.0	301.1	296.6	292.1	284.7	277.2	266.8	256.3	245.9	235.5
50°	366.6	366.6	362.2	356.2	348.7	338.3	326.4	311.5	298.1	284.7	269.8
47.5°	442.6	442.6	436.7	429.2	418.8	405.4	389.0	369.6	351.7	332.3	310.0
45°	539.5	539.5	530.6	520.1	506.7	487.3	465.0	442.6	415.8	390.5	363.6
42.5°	670.7	670.7	658.7	642.3	621.5	594.6	560.4	527.6	494.8	459.0	424.7
40°	825.7	825.7	809.3	789.9	761.6	727.3	684.1	640.8	594.6	542.5	499.3
37.5°	979.2	979.2	961.3	940.4	910.6	871.9	827.1	773.5	713.9	651.3	590.2
35°	1122.2	1122.2	1104.3	1082.0	1052.2	1013.4	967.2	910.6	846.5	775.0	697.5
32.5°	1266.8	1266.8	1247.4	1222.1	1189.3	1147.6	1096.9	1038.8	979.2	898.7	816.7
30°	1412.8	1412.8	1390.5	1363.7	1326.4	1280.2	1225.1	1162.5	1092.4	1016.4	930.0
27.5°	1569.3	1563.4	1544.0	1511.2	1468.0	1412.8	1351.7	1283.2	1207.2	1123.7	1037.3
25°	1728.8	1721.4	1699.0	1663.2	1614.0	1552.9	1481.4	1402.4	1319.0	1229.5	1135.6
22.5°	1903.2	1894.2	1867.4	1822.7	1763.1	1691.5	1612.6	1524.6	1427.8	1330.9	1229.5
20°	2080.5	2070.1	2038.8	1988.1	1919.6	1837.6	1742.2	1643.9	1538.0	1427.8	1319.0
17.5°	2262.3	2250.4	2213.2	2153.6	2080.5	1982.2	1876.3	1760.1	1643.9	1524.6	1402.4
15°	2442.7	2427.8	2386.0	2317.5	2228.1	2122.3	2003.0	1876.3	1742.2	1612.6	1481.4
12.5°	2617.0	2600.7	2551.5	2474.0	2374.1	2254.9	2122.3	1982.2	1837.6	1691.5	1552.9
10°	2770.6	2751.2	2699.0	2618.5	2505.3	2374.1	2228.1	2080.5	1919.6	1763.1	1614.0
7.5°	2894.3	2874.9	2819.7	2734.8	2618.5	2474.0	2317.5	2153.6	1988.1	1822.7	1663.2
5°	2988.1	2965.8	2910.6	2819.7	2699.0	2551.5	2386.0	2213.2	2038.8	1867.4	1699.0
2.5°	3044.8	3020.9	2965.8	2874.9	2751.2	2600.7	2427.8	2250.4	2070.1	1894.2	1721.4
0°	3061.2	3044.8	2988.1	2894.3	2770.6	2617.0	2442.7	2262.3	2080.5	1903.2	1728.8



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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°	8.9	8.9	8.9	8.9	8.9	7.5	7.5	7.5	7.5	6.0	6.0
85°	17.9	16.4	16.4	16.4	16.4	14.9	14.9	13.4	13.4	13.4	11.9
82.5°	26.8	25.3	25.3	23.8	23.8	22.4	20.9	20.9	19.4	19.4	17.9
80°	35.8	34.3	34.3	32.8	31.3	29.8	29.8	28.3	26.8	25.3	23.8
77.5°	44.7	44.7	43.2	41.7	40.2	38.7	37.3	35.8	34.3	31.3	29.8
75°	56.6	55.1	52.2	50.7	49.2	47.7	44.7	43.2	40.2	38.7	35.8
72.5°	70.0	67.1	65.6	62.6	59.6	56.6	53.7	50.7	49.2	46.2	43.2
70°	84.9	82.0	79.0	76.0	71.5	68.6	64.1	61.1	56.6	53.7	49.2
67.5°	101.3	98.4	93.9	89.4	84.9	80.5	76.0	71.5	67.1	62.6	58.1
65°	117.7	113.3	108.8	104.3	99.9	93.9	87.9	83.5	77.5	71.5	67.1
62.5°	134.1	129.7	123.7	119.2	113.3	107.3	102.8	95.4	89.4	82.0	76.0
60°	152.0	146.1	140.1	134.1	128.2	120.7	114.8	107.3	101.3	92.4	84.9
57.5°	172.9	165.4	158.0	150.5	141.6	134.1	126.7	119.2	111.8	104.3	95.4
55°	196.7	186.3	177.4	168.4	158.0	149.0	140.1	131.2	123.7	114.8	105.8
52.5°	223.6	211.6	199.7	189.3	177.4	165.4	155.0	144.6	134.1	125.2	114.8
50°	254.8	239.9	225.0	211.6	198.2	183.3	171.4	158.0	146.1	135.6	125.2
47.5°	292.1	272.7	253.4	237.0	220.6	204.2	187.8	172.9	159.5	146.1	134.1
45°	338.3	310.0	287.6	265.3	244.4	225.0	207.2	189.3	172.9	158.0	144.6
42.5°	392.0	359.2	327.9	298.1	272.7	248.9	226.5	207.2	187.8	171.4	155.0
40°	454.6	414.3	374.1	338.3	304.0	275.7	248.9	225.0	204.2	183.3	165.4
37.5°	529.1	476.9	427.7	383.0	341.3	304.0	272.7	244.4	220.6	198.2	177.4
35°	623.0	549.9	488.8	432.2	383.0	338.3	298.1	265.3	237.0	211.6	189.3
32.5°	728.8	640.8	557.4	488.8	427.7	374.1	327.9	287.6	253.4	225.0	199.7
30°	837.6	737.7	640.8	549.9	476.9	414.3	359.2	310.0	272.7	239.9	211.6
27.5°	941.9	837.6	728.8	623.0	529.1	454.6	392.0	338.3	292.1	254.8	223.6
25°	1037.3	930.0	816.7	697.5	590.2	499.3	424.7	363.6	310.0	269.8	235.5
22.5°	1123.7	1016.4	898.7	775.0	651.3	542.5	459.0	390.5	332.3	284.7	245.9
20°	1207.2	1092.4	979.2	846.5	713.9	594.6	494.8	415.8	351.7	298.1	256.3
17.5°	1283.2	1162.5	1038.8	910.6	773.5	640.8	527.6	442.6	369.6	311.5	266.8
15°	1351.7	1225.1	1096.9	967.2	827.1	684.1	560.4	465.0	389.0	326.4	277.2
12.5°	1412.8	1280.2	1147.6	1013.4	871.9	727.3	594.6	487.3	405.4	338.3	284.7
10°	1468.0	1326.4	1189.3	1052.2	910.6	761.6	621.5	506.7	418.8	348.7	292.1
7.5°	1511.2	1363.7	1222.1	1082.0	940.4	789.9	642.3	520.1	429.2	356.2	296.6
5°	1544.0	1390.5	1247.4	1104.3	961.3	809.3	658.7	530.6	436.7	362.2	301.1
2.5°	1563.4	1412.8	1266.8	1122.2	979.2	825.7	670.7	539.5	442.6	366.6	304.0
0°	1569.3	1412.8	1266.8	1122.2	979.2	825.7	670.7	539.5	442.6	366.6	304.0





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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°	6.0	6.0	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	1.5
85°	11.9	10.4	10.4	8.9	8.9	7.5	7.5	6.0	6.0	4.5	3.0
82.5°	16.4	16.4	14.9	13.4	13.4	11.9	10.4	8.9	7.5	7.5	6.0
80°	22.4	20.9	19.4	17.9	16.4	14.9	13.4	11.9	10.4	8.9	7.5
77.5°	28.3	26.8	23.8	22.4	20.9	17.9	16.4	14.9	13.4	10.4	8.9
75°	34.3	31.3	29.8	26.8	25.3	22.4	19.4	17.9	14.9	13.4	10.4
72.5°	40.2	37.3	34.3	31.3	28.3	26.8	23.8	20.9	17.9	14.9	11.9
70°	46.2	43.2	40.2	35.8	32.8	29.8	26.8	23.8	19.4	16.4	13.4
67.5°	53.7	49.2	44.7	41.7	37.3	34.3	29.8	26.8	22.4	17.9	14.9
65°	61.1	55.1	50.7	46.2	41.7	37.3	32.8	28.3	25.3	20.9	16.4
62.5°	70.0	62.6	56.6	50.7	46.2	41.7	35.8	31.3	26.8	22.4	17.9
60°	77.5	71.5	64.1	56.6	50.7	44.7	40.2	34.3	29.8	23.8	19.4
57.5°	86.4	79.0	71.5	62.6	55.1	49.2	43.2	37.3	31.3	26.8	20.9
55°	96.9	86.4	77.5	70.0	61.1	53.7	46.2	40.2	34.3	28.3	22.4
52.5°	105.8	95.4	84.9	76.0	67.1	58.1	49.2	43.2	35.8	29.8	23.8
50°	114.8	104.3	92.4	82.0	71.5	62.6	53.7	46.2	38.7	31.3	25.3
47.5°	123.7	111.8	101.3	89.4	77.5	67.1	56.6	49.2	40.2	34.3	26.8
45°	131.2	119.2	107.3	95.4	83.5	71.5	61.1	50.7	43.2	35.8	28.3
42.5°	140.1	126.7	114.8	102.8	87.9	76.0	64.1	53.7	44.7	37.3	29.8
40°	149.0	134.1	120.7	107.3	93.9	80.5	68.6	56.6	47.7	38.7	29.8
37.5°	158.0	141.6	128.2	113.3	99.9	84.9	71.5	59.6	49.2	40.2	31.3
35°	168.4	150.5	134.1	119.2	104.3	89.4	76.0	62.6	50.7	41.7	32.8
32.5°	177.4	158.0	140.1	123.7	108.8	93.9	79.0	65.6	52.2	43.2	34.3
30°	186.3	165.4	146.1	129.7	113.3	98.4	82.0	67.1	55.1	44.7	34.3
27.5°	196.7	172.9	152.0	134.1	117.7	101.3	84.9	70.0	56.6	44.7	35.8
25°	205.7	180.3	158.0	138.6	120.7	104.3	87.9	73.0	58.1	46.2	35.8
22.5°	214.6	186.3	162.4	143.1	125.2	107.3	90.9	74.5	59.6	47.7	37.3
20°	222.1	193.7	168.4	146.1	128.2	110.3	92.4	76.0	61.1	49.2	37.3
17.5°	231.0	199.7	172.9	150.5	131.2	113.3	95.4	77.5	62.6	49.2	38.7
15°	237.0	205.7	177.4	153.5	132.6	114.8	96.9	79.0	64.1	50.7	38.7
12.5°	244.4	210.1	180.3	156.5	135.6	116.2	98.4	80.5	65.6	50.7	38.7
10°	248.9	213.1	183.3	158.0	137.1	117.7	99.9	82.0	65.6	50.7	40.2
7.5°	253.4	216.1	186.3	159.5	138.6	119.2	101.3	82.0	65.6	52.2	40.2
5°	254.8	219.1	187.8	161.0	138.6	120.7	102.8	83.5	67.1	52.2	40.2
2.5°	257.8	220.6	189.3	162.4	140.1	120.7	102.8	83.5	67.1	52.2	40.2
0°	257.8	220.6	189.3	162.4	140.1	120.7	102.8	83.5	67.1	52.2	40.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
85°	3.0	1.5	1.5	0.0
82.5°	4.5	3.0	1.5	0.0
80°	6.0	3.0	1.5	0.0
77.5°	7.5	4.5	3.0	0.0
75°	7.5	6.0	3.0	0.0
72.5°	8.9	6.0	3.0	0.0
70°	10.4	7.5	3.0	0.0
67.5°	11.9	7.5	4.5	0.0
65°	13.4	8.9	4.5	0.0
62.5°	13.4	8.9	4.5	0.0
60°	14.9	10.4	4.5	0.0
57.5°	16.4	10.4	6.0	0.0
55°	16.4	11.9	6.0	0.0
52.5°	17.9	11.9	6.0	0.0
50°	19.4	13.4	6.0	0.0
47.5°	19.4	13.4	7.5	0.0
45°	20.9	13.4	7.5	0.0
42.5°	20.9	14.9	7.5	0.0
40°	22.4	14.9	7.5	0.0
37.5°	23.8	16.4	8.9	0.0
35°	23.8	16.4	8.9	0.0
32.5°	25.3	16.4	8.9	0.0
30°	25.3	16.4	8.9	0.0
27.5°	26.8	17.9	8.9	0.0
25°	26.8	17.9	8.9	0.0
22.5°	26.8	17.9	8.9	0.0
20°	28.3	17.9	10.4	0.0
17.5°	28.3	17.9	10.4	0.0
15°	28.3	19.4	10.4	0.0
12.5°	28.3	19.4	10.4	0.0
10°	29.8	19.4	10.4	0.0
7.5°	29.8	19.4	10.4	0.0
5°	29.8	19.4	10.4	0.0
2.5°	29.8	19.4	10.4	0.0
0°	29.8	19.4	10.4	0.0

(END OF REPORT)