

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: P623301

Luminaire Tested: **IFLD-S-SA6C-722-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-722-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	31780.4 lumens	Max Intensity:	102763.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

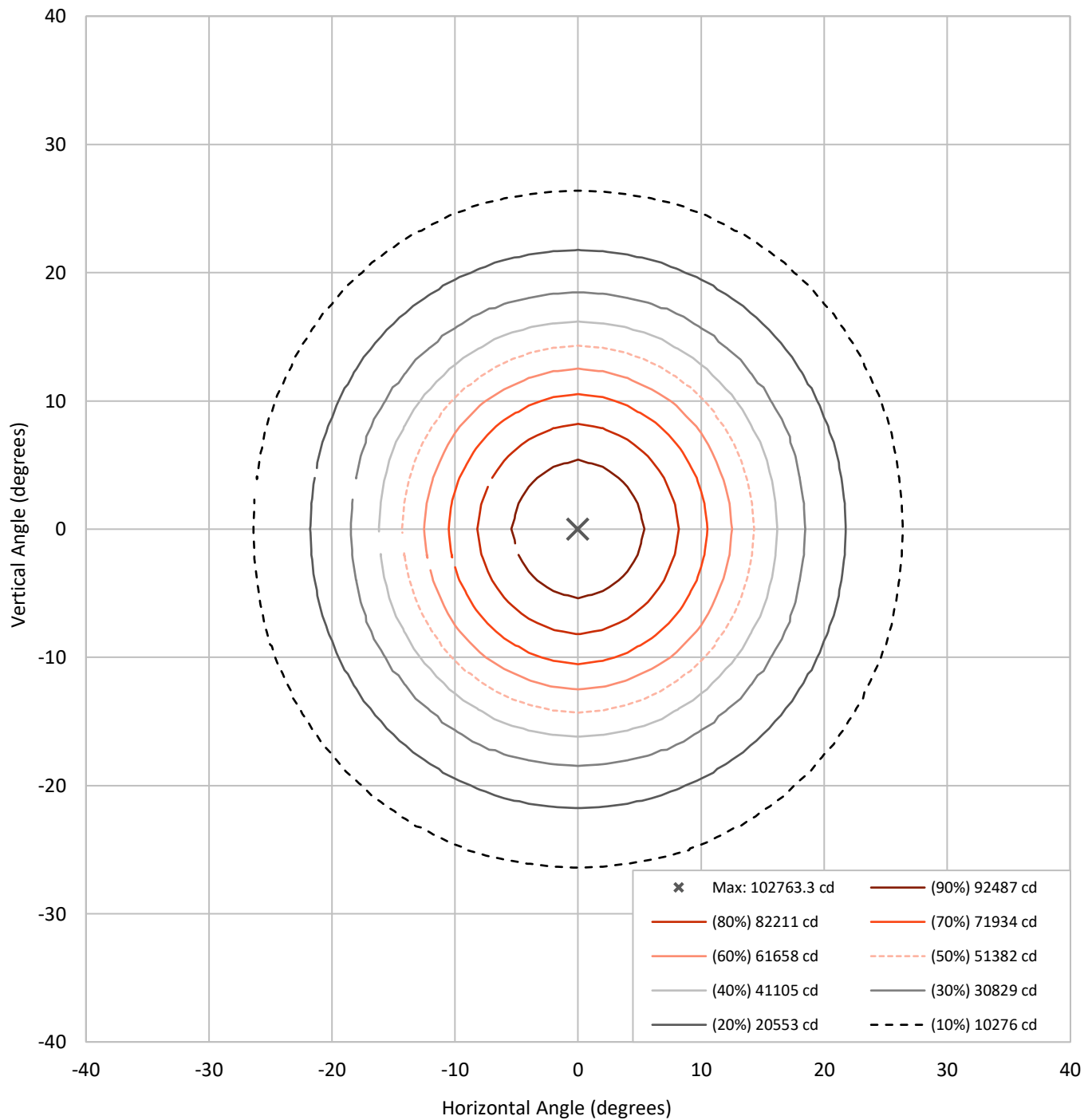
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	11467 lumens	Field Lumens:	19363.5 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 321.5
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





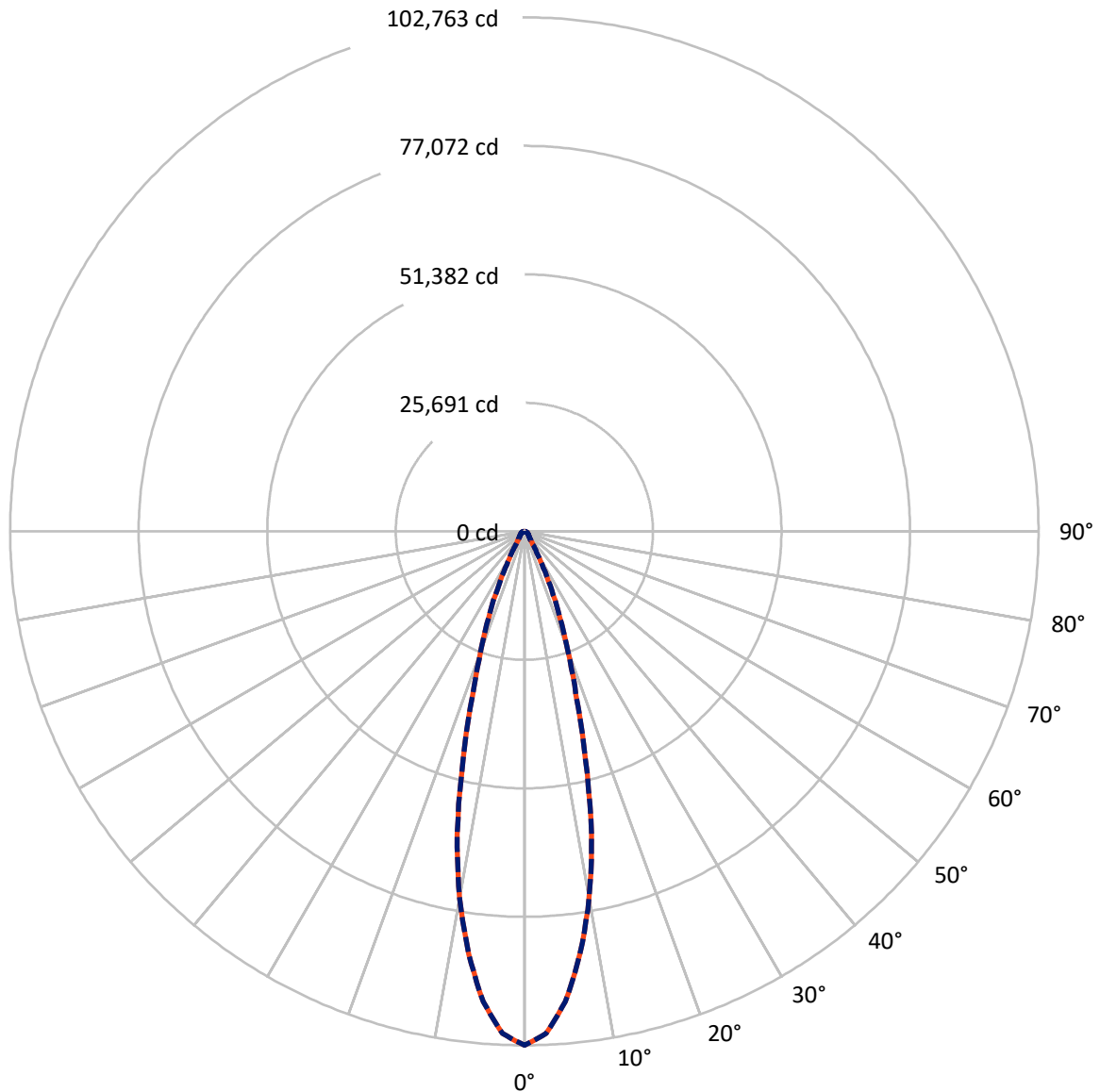
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Lumen Table

[illegible]

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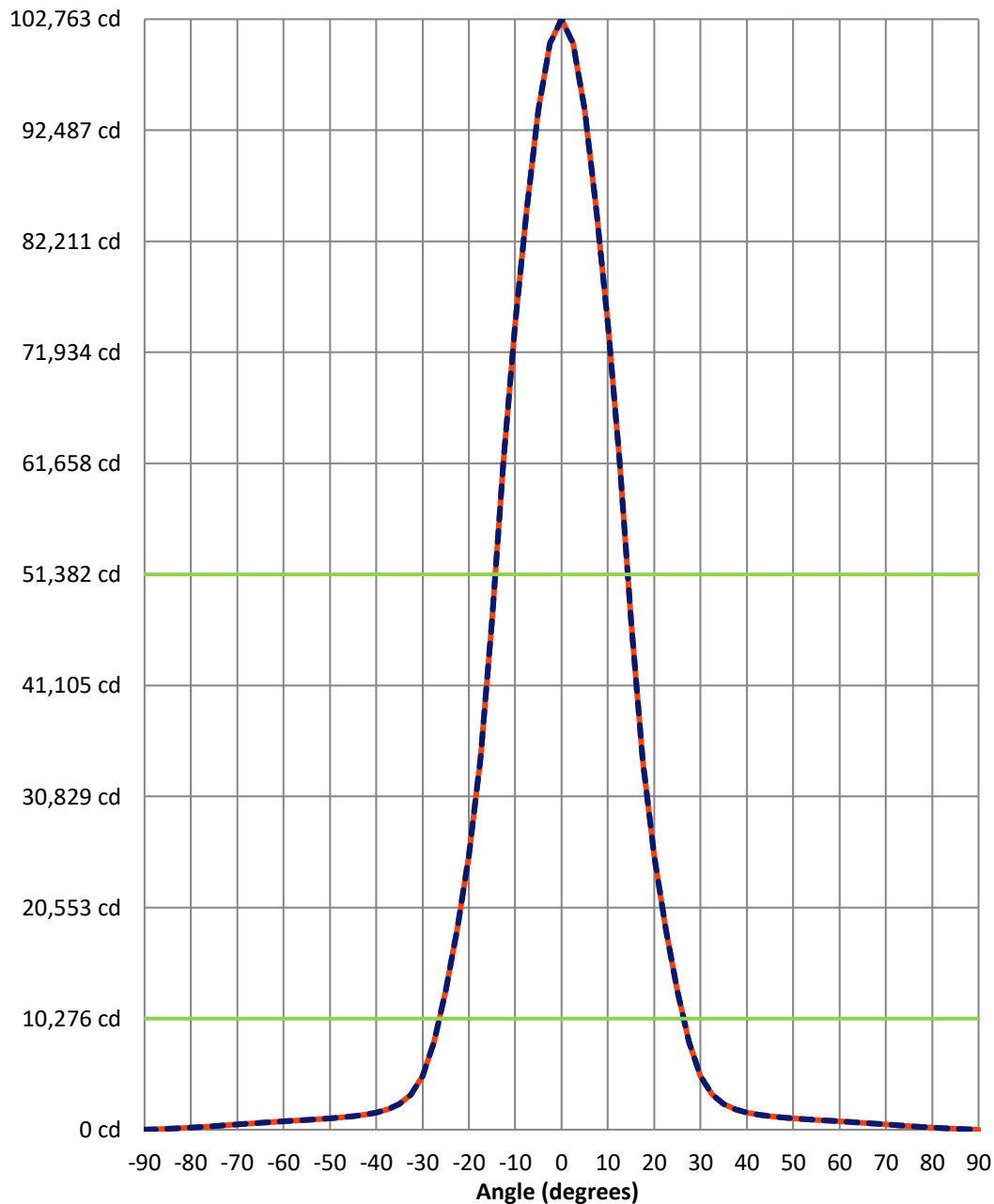
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 11467
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 19363.5
Efficiency: 60.9%

Spill:
Lumens: 12416.8
Efficiency: 39.1%

— 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°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	33.1	33.1	33.1	33.1
85°	82.8	82.8	82.8	82.8	82.8	79.5	79.5	79.5	76.2	76.2	72.9
82.5°	132.5	132.5	132.5	132.5	129.2	129.2	125.9	125.9	122.6	122.6	119.3
80°	188.9	188.9	188.9	188.9	185.6	182.2	182.2	178.9	175.6	172.3	169.0
77.5°	255.1	255.1	255.1	251.8	248.5	248.5	245.2	238.6	235.3	228.6	225.3
75°	328.0	328.0	328.0	324.7	321.4	318.1	311.5	308.2	301.5	294.9	285.0
72.5°	407.6	407.6	407.6	404.2	397.6	394.3	387.7	381.0	374.4	364.5	354.5
70°	483.8	483.8	483.8	477.1	473.8	467.2	460.6	453.9	444.0	434.1	424.1
67.5°	560.0	560.0	560.0	553.3	550.0	543.4	536.8	526.8	516.9	503.6	493.7
65°	629.6	629.6	626.2	622.9	619.6	613.0	603.0	596.4	586.5	573.2	560.0
62.5°	702.5	702.5	699.1	695.8	689.2	682.6	672.6	662.7	649.4	636.2	622.9
60°	775.3	775.3	772.0	768.7	762.1	752.2	742.2	732.3	719.0	702.5	685.9
57.5°	835.0	835.0	831.7	828.4	821.7	815.1	805.2	795.2	782.0	768.7	748.8
55°	897.9	897.9	894.6	888.0	881.4	874.8	864.8	851.6	838.3	821.7	808.5
52.5°	970.8	970.8	967.5	960.9	951.0	941.0	927.8	911.2	894.6	878.1	858.2
50°	1043.7	1043.7	1037.1	1030.5	1023.9	1010.6	997.3	980.8	960.9	941.0	917.8
47.5°	1133.2	1133.2	1126.6	1116.6	1103.4	1090.1	1070.2	1047.0	1027.2	1004.0	977.5
45°	1242.5	1242.5	1232.6	1222.7	1206.1	1182.9	1159.7	1133.2	1103.4	1073.6	1040.4
42.5°	1385.0	1385.0	1371.8	1355.2	1332.0	1302.2	1265.7	1229.3	1192.8	1153.1	1113.3
40°	1577.2	1577.2	1557.3	1534.1	1497.7	1454.6	1401.6	1351.9	1302.2	1245.9	1196.2
37.5°	1878.7	1878.7	1845.6	1802.5	1742.9	1670.0	1580.5	1514.2	1438.0	1365.1	1298.9
35°	2372.4	2372.4	2312.8	2236.6	2130.5	1998.0	1855.5	1742.9	1617.0	1514.2	1418.2
32.5°	3250.5	3250.5	3131.2	2982.1	2780.0	2521.5	2283.0	2084.2	1878.7	1719.7	1567.3
30°	4950.3	4950.3	4695.2	4380.4	3946.3	3402.9	2995.4	2614.3	2266.4	2004.6	1782.6
27.5°	8141.1	8008.6	7611.0	6958.2	6063.6	4950.3	4241.2	3436.0	2886.0	2385.7	2077.5
25°	12852.9	12634.2	11978.1	10907.9	9450.0	7796.5	6348.6	4821.1	3856.9	3025.2	2452.0
22.5°	18578.5	18277.0	17385.7	15931.1	13959.6	11759.4	9416.8	7220.0	5265.1	3999.3	3025.2
20°	25357.8	24953.6	23757.4	21815.7	19204.8	16404.9	13277.0	10334.6	7514.9	5265.1	3856.9
17.5°	34307.5	33691.2	31878.7	28962.9	25357.8	21583.8	17673.9	13876.7	10334.6	7220.0	4821.1
15°	47173.6	46133.2	43091.4	38260.4	32647.4	27385.7	22398.9	17673.9	13277.0	9416.8	6348.6
12.5°	62047.6	60599.7	56408.2	49870.7	42243.2	33923.1	27385.7	21583.8	16404.9	11759.4	7796.5
10°	74579.1	73051.6	68720.9	62163.6	52491.7	42243.2	32647.4	25357.8	19204.8	13959.6	9450.0
7.5°	85165.6	83455.8	78787.2	71613.6	62163.6	49870.7	38260.4	28962.9	21815.7	15931.1	10907.9
5°	94360.4	92193.4	86759.4	78787.2	68720.9	56408.2	43091.4	31878.7	23757.4	17385.7	11978.1
2.5°	100503.5	97958.8	92193.4	83455.8	73051.6	60599.7	46133.2	33691.2	24953.6	18277.0	12634.2
0°	102763.3	100503.5	94360.4	85165.6	74579.1	62047.6	47173.6	34307.5	25357.8	18578.5	12852.9

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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°	33.1	33.1	29.8	29.8	29.8	26.5	26.5	26.5	23.2	23.2	23.2
85°	72.9	69.6	69.6	66.3	63.0	59.6	59.6	56.3	53.0	49.7	46.4
82.5°	116.0	112.7	109.3	106.0	102.7	96.1	92.8	89.5	82.8	79.5	76.2
80°	162.4	159.0	152.4	149.1	142.5	135.9	129.2	122.6	116.0	109.3	102.7
77.5°	218.7	208.7	202.1	195.5	185.6	178.9	169.0	162.4	152.4	142.5	132.5
75°	278.3	268.4	258.4	248.5	238.6	225.3	215.4	202.1	192.2	178.9	169.0
72.5°	344.6	331.3	318.1	304.8	291.6	278.3	265.1	248.5	235.3	218.7	202.1
70°	410.9	397.6	384.4	367.8	351.2	334.7	318.1	298.2	281.6	261.8	241.9
67.5°	480.5	463.9	447.3	430.7	414.2	394.3	371.1	351.2	328.0	304.8	285.0
65°	546.7	530.2	510.3	490.4	470.5	450.6	427.4	404.2	377.7	351.2	328.0
62.5°	606.4	589.8	573.2	550.0	530.2	507.0	483.8	453.9	427.4	400.9	371.1
60°	669.3	649.4	629.6	606.4	583.2	560.0	533.5	503.6	477.1	444.0	414.2
57.5°	729.0	709.1	685.9	662.7	636.2	609.7	583.2	553.3	523.5	490.4	457.3
55°	788.6	768.7	745.5	719.0	689.2	659.4	629.6	599.7	569.9	533.5	497.0
52.5°	838.3	818.4	795.2	775.3	742.2	712.4	679.3	642.8	609.7	573.2	536.8
50°	891.3	868.1	841.6	818.4	791.9	762.1	725.6	689.2	649.4	613.0	573.2
47.5°	951.0	921.1	891.3	861.5	835.0	801.9	772.0	732.3	692.5	649.4	609.7
45°	1010.6	977.5	944.3	907.9	874.8	841.6	808.5	775.3	732.3	689.2	642.8
42.5°	1073.6	1033.8	997.3	960.9	921.1	881.4	844.9	808.5	772.0	725.6	679.3
40°	1146.5	1100.1	1053.7	1010.6	970.8	924.5	881.4	841.6	801.9	762.1	712.4
37.5°	1229.3	1173.0	1116.6	1063.6	1013.9	970.8	921.1	874.8	835.0	791.9	742.2
35°	1335.3	1252.5	1186.2	1119.9	1063.6	1010.6	960.9	907.9	861.5	818.4	775.3
32.5°	1454.6	1351.9	1262.4	1186.2	1116.6	1053.7	997.3	944.3	891.3	841.6	795.2
30°	1600.4	1467.9	1351.9	1252.5	1173.0	1100.1	1033.8	977.5	921.1	868.1	818.4
27.5°	1805.8	1600.4	1454.6	1335.3	1229.3	1146.5	1073.6	1010.6	951.0	891.3	838.3
25°	2077.5	1782.6	1567.3	1418.2	1298.9	1196.2	1113.3	1040.4	977.5	917.8	858.2
22.5°	2385.7	2004.6	1719.7	1514.2	1365.1	1245.9	1153.1	1073.6	1004.0	941.0	878.1
20°	2886.0	2266.4	1878.7	1617.0	1438.0	1302.2	1192.8	1103.4	1027.2	960.9	894.6
17.5°	3436.0	2614.3	2084.2	1742.9	1514.2	1351.9	1229.3	1133.2	1047.0	980.8	911.2
15°	4241.2	2995.4	2283.0	1855.5	1580.5	1401.6	1265.7	1159.7	1070.2	997.3	927.8
12.5°	4950.3	3402.9	2521.5	1998.0	1670.0	1454.6	1302.2	1182.9	1090.1	1010.6	941.0
10°	6063.6	3946.3	2780.0	2130.5	1742.9	1497.7	1332.0	1206.1	1103.4	1023.9	951.0
7.5°	6958.2	4380.4	2982.1	2236.6	1802.5	1534.1	1355.2	1222.7	1116.6	1030.5	960.9
5°	7611.0	4695.2	3131.2	2312.8	1845.6	1557.3	1371.8	1232.6	1126.6	1037.1	967.5
2.5°	8008.6	4950.3	3250.5	2372.4	1878.7	1577.2	1385.0	1242.5	1133.2	1043.7	970.8
0°	8141.1	4950.3	3250.5	2372.4	1878.7	1577.2	1385.0	1242.5	1133.2	1043.7	970.8

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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°	19.9	19.9	16.6	16.6	16.6	13.3	13.3	9.9	9.9	6.6	6.6
85°	43.1	39.8	36.4	33.1	29.8	26.5	26.5	23.2	19.9	16.6	13.3
82.5°	69.6	66.3	59.6	53.0	49.7	43.1	36.4	33.1	29.8	23.2	19.9
80°	96.1	89.5	82.8	76.2	69.6	59.6	53.0	46.4	36.4	29.8	26.5
77.5°	125.9	116.0	106.0	96.1	86.1	79.5	69.6	59.6	49.7	39.8	29.8
75°	155.7	142.5	132.5	119.3	109.3	96.1	82.8	72.9	63.0	49.7	36.4
72.5°	188.9	172.3	159.0	142.5	129.2	116.0	99.4	86.1	72.9	59.6	46.4
70°	225.3	205.4	185.6	169.0	152.4	132.5	116.0	99.4	82.8	69.6	53.0
67.5°	261.8	238.6	215.4	192.2	172.3	152.4	132.5	116.0	96.1	79.5	59.6
65°	298.2	271.7	248.5	222.0	195.5	172.3	152.4	129.2	109.3	86.1	69.6
62.5°	338.0	308.2	278.3	248.5	222.0	192.2	169.0	142.5	119.3	96.1	76.2
60°	381.0	347.9	311.5	278.3	248.5	215.4	185.6	159.0	132.5	106.0	82.8
57.5°	420.8	384.4	347.9	308.2	271.7	238.6	205.4	172.3	142.5	116.0	89.5
55°	460.6	420.8	381.0	338.0	298.2	261.8	225.3	188.9	155.7	125.9	96.1
52.5°	497.0	457.3	414.2	371.1	328.0	285.0	241.9	202.1	169.0	132.5	102.7
50°	533.5	490.4	444.0	400.9	351.2	304.8	261.8	218.7	178.9	142.5	109.3
47.5°	569.9	523.5	477.1	427.4	377.7	328.0	281.6	235.3	192.2	152.4	116.0
45°	599.7	553.3	503.6	453.9	404.2	351.2	298.2	248.5	202.1	162.4	122.6
42.5°	629.6	583.2	533.5	483.8	427.4	371.1	318.1	265.1	215.4	169.0	129.2
40°	659.4	609.7	560.0	507.0	450.6	394.3	334.7	278.3	225.3	178.9	135.9
37.5°	689.2	636.2	583.2	530.2	470.5	414.2	351.2	291.6	238.6	185.6	142.5
35°	719.0	662.7	606.4	550.0	490.4	430.7	367.8	304.8	248.5	195.5	149.1
32.5°	745.5	685.9	629.6	573.2	510.3	447.3	384.4	318.1	258.4	202.1	152.4
30°	768.7	709.1	649.4	589.8	530.2	463.9	397.6	331.3	268.4	208.7	159.0
27.5°	788.6	729.0	669.3	606.4	546.7	480.5	410.9	344.6	278.3	218.7	162.4
25°	808.5	748.8	685.9	622.9	560.0	493.7	424.1	354.5	285.0	225.3	169.0
22.5°	821.7	768.7	702.5	636.2	573.2	503.6	434.1	364.5	294.9	228.6	172.3
20°	838.3	782.0	719.0	649.4	586.5	516.9	444.0	374.4	301.5	235.3	175.6
17.5°	851.6	795.2	732.3	662.7	596.4	526.8	453.9	381.0	308.2	238.6	178.9
15°	864.8	805.2	742.2	672.6	603.0	536.8	460.6	387.7	311.5	245.2	182.2
12.5°	874.8	815.1	752.2	682.6	613.0	543.4	467.2	394.3	318.1	248.5	182.2
10°	881.4	821.7	762.1	689.2	619.6	550.0	473.8	397.6	321.4	248.5	185.6
7.5°	888.0	828.4	768.7	695.8	622.9	553.3	477.1	404.2	324.7	251.8	188.9
5°	894.6	831.7	772.0	699.1	626.2	560.0	483.8	407.6	328.0	255.1	188.9
2.5°	897.9	835.0	775.3	702.5	629.6	560.0	483.8	407.6	328.0	255.1	188.9
0°	897.9	835.0	775.3	702.5	629.6	560.0	483.8	407.6	328.0	255.1	188.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	0.0	0.0
85°	9.9	6.6	3.3	0.0
82.5°	13.3	9.9	3.3	0.0
80°	19.9	13.3	6.6	0.0
77.5°	23.2	16.6	6.6	0.0
75°	29.8	19.9	9.9	0.0
72.5°	33.1	23.2	9.9	0.0
70°	36.4	26.5	13.3	0.0
67.5°	43.1	26.5	13.3	0.0
65°	49.7	29.8	16.6	0.0
62.5°	53.0	33.1	16.6	0.0
60°	59.6	36.4	16.6	0.0
57.5°	66.3	39.8	19.9	0.0
55°	69.6	43.1	19.9	0.0
52.5°	76.2	46.4	23.2	0.0
50°	79.5	49.7	23.2	0.0
47.5°	82.8	53.0	23.2	0.0
45°	89.5	56.3	26.5	0.0
42.5°	92.8	59.6	26.5	0.0
40°	96.1	59.6	26.5	0.0
37.5°	102.7	63.0	29.8	0.0
35°	106.0	66.3	29.8	0.0
32.5°	109.3	69.6	29.8	0.0
30°	112.7	69.6	33.1	0.0
27.5°	116.0	72.9	33.1	0.0
25°	119.3	72.9	33.1	0.0
22.5°	122.6	76.2	33.1	0.0
20°	122.6	76.2	33.1	0.0
17.5°	125.9	79.5	33.1	0.0
15°	125.9	79.5	36.4	0.0
12.5°	129.2	79.5	36.4	0.0
10°	129.2	82.8	36.4	0.0
7.5°	132.5	82.8	36.4	0.0
5°	132.5	82.8	36.4	0.0
2.5°	132.5	82.8	36.4	0.0
0°	132.5	82.8	36.4	0.0

(END OF REPORT)