

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: P624495

Luminaire Tested: **IFLD-S-SA2A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

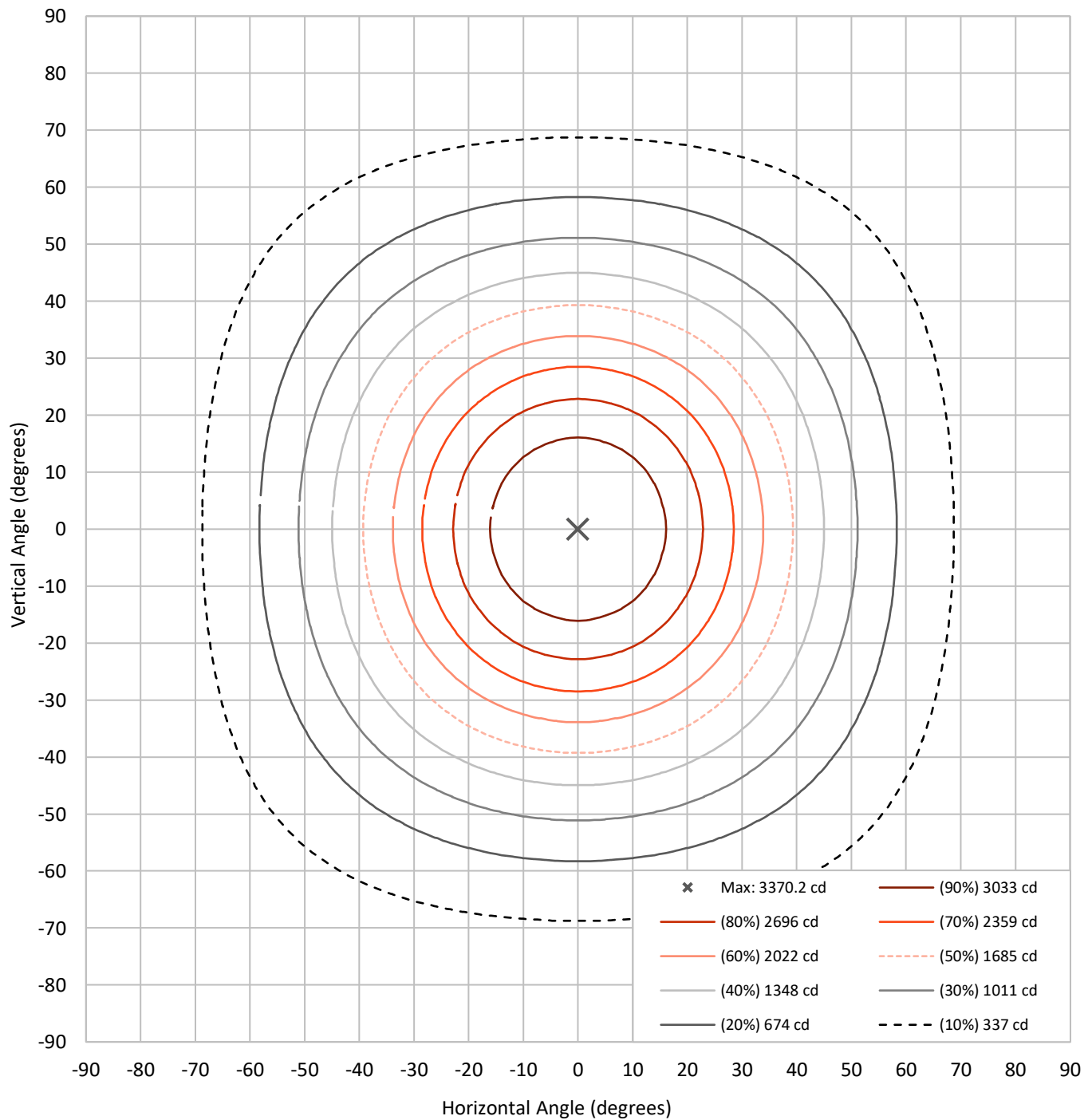
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6068.1 lumens	Max Intensity:	3370.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	2625.6 lumens	Field Lumens:	4299.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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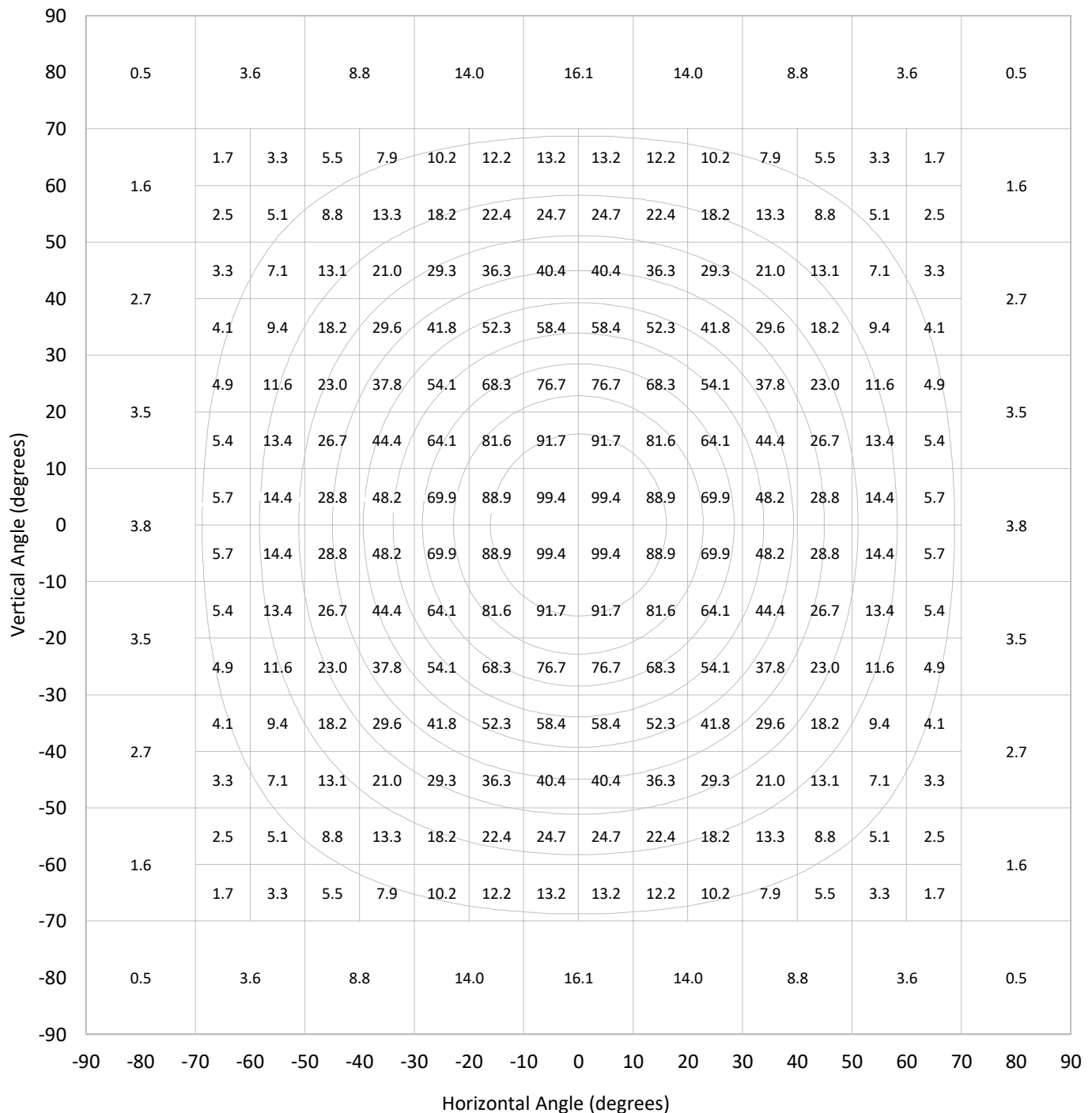
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Iso-Candela Plot



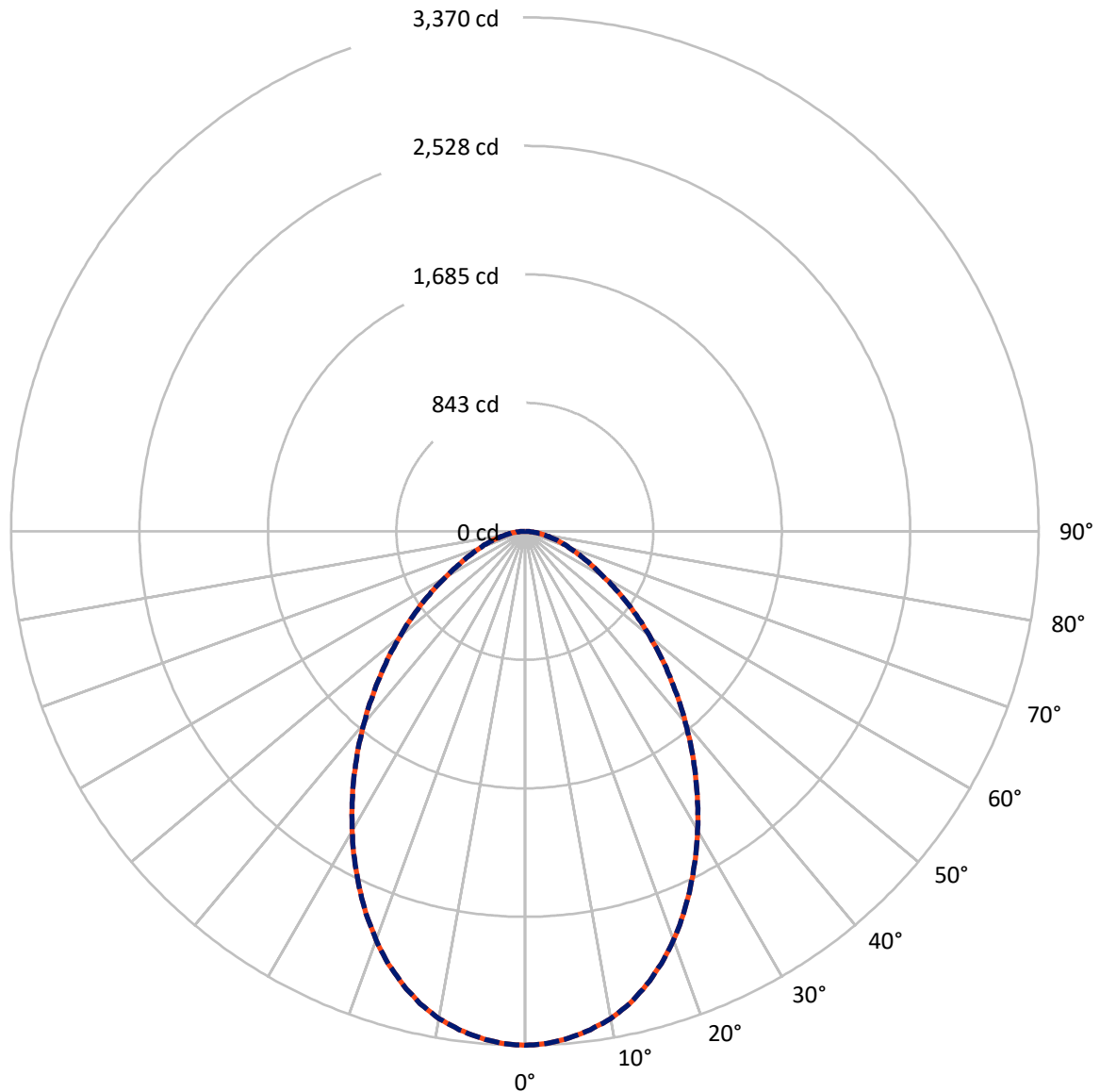
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Lumen Table



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Luminous Intensity Polar Plot

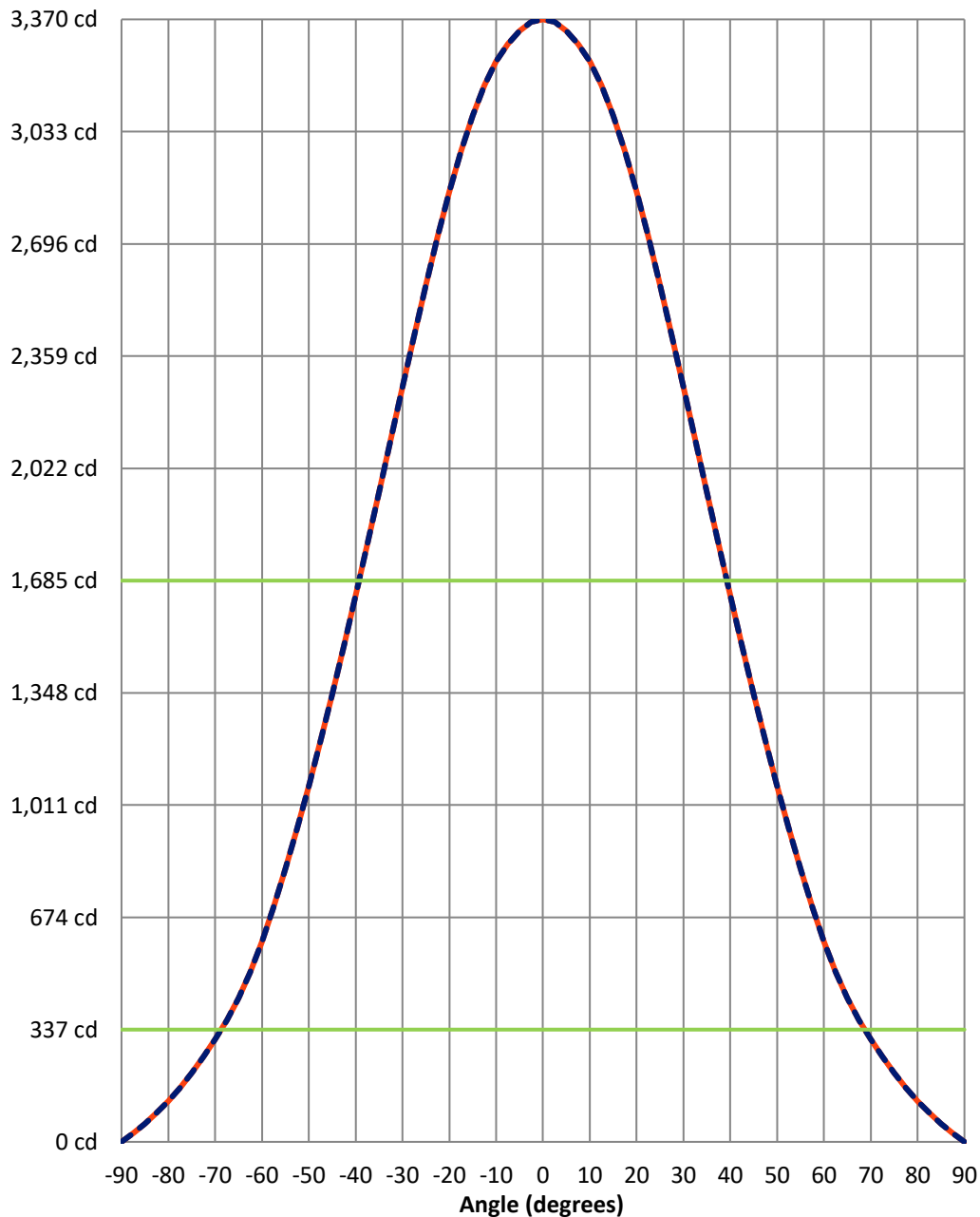


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 2625.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 4299.4
Efficiency: 70.9%

Spill:

Lumens: 1768.8
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°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	24.7	24.7	24.0	23.4
85°	54.4	54.4	54.4	54.4	54.4	53.1	52.5	51.9	51.2	50.0	49.3
82.5°	87.3	87.3	87.3	87.3	86.0	84.8	84.1	82.9	81.6	79.7	77.8
80°	122.1	122.1	122.1	122.1	120.2	118.9	117.0	115.8	113.9	111.3	108.8
77.5°	162.0	162.0	162.0	160.1	158.8	156.9	155.0	152.5	149.9	146.8	143.0
75°	206.9	206.9	206.9	204.4	202.5	200.6	197.4	194.2	190.4	186.0	180.9
72.5°	255.6	255.6	255.6	252.4	250.5	247.4	243.6	239.1	234.7	229.0	222.7
70°	308.1	308.1	308.1	304.3	301.1	298.0	292.9	287.9	281.5	275.2	267.6
67.5°	365.0	365.0	365.0	360.6	356.8	352.4	346.7	340.4	332.8	323.9	315.1
65°	431.5	431.5	428.9	425.2	420.7	414.4	407.4	398.6	389.1	377.7	365.7
62.5°	509.9	509.9	506.1	501.7	496.0	487.8	478.3	466.9	453.6	439.1	424.5
60°	601.0	601.0	596.6	590.9	582.7	572.6	559.9	545.4	528.9	510.6	492.8
57.5°	706.1	706.1	700.4	692.8	682.6	670.0	654.2	635.8	615.0	592.2	570.0
55°	819.9	819.9	813.0	804.1	792.1	776.9	757.9	736.4	711.1	685.2	656.7
52.5°	940.8	940.8	932.5	922.4	908.5	890.8	869.3	844.0	814.9	784.5	751.0
50°	1067.9	1067.9	1058.4	1047.1	1031.2	1010.4	985.7	956.6	924.3	888.9	850.3
47.5°	1204.0	1204.0	1193.2	1179.9	1160.9	1136.9	1107.8	1074.3	1037.6	997.7	954.1
45°	1343.8	1343.8	1331.8	1316.6	1295.7	1268.5	1236.2	1204.0	1157.1	1111.0	1060.3
42.5°	1489.3	1489.3	1475.4	1458.3	1434.3	1404.5	1367.8	1326.1	1279.9	1228.0	1173.0
40°	1640.5	1640.5	1624.7	1605.1	1578.5	1544.3	1503.2	1456.4	1404.5	1346.9	1286.2
37.5°	1794.9	1794.9	1777.2	1755.6	1725.9	1688.0	1641.8	1589.9	1531.7	1467.8	1400.7
35°	1950.5	1950.5	1930.9	1907.5	1874.6	1832.8	1782.9	1725.3	1660.7	1591.2	1515.9
32.5°	2109.3	2109.3	2087.8	2061.2	2023.9	1977.7	1922.7	1860.0	1794.9	1713.9	1631.6
30°	2266.2	2266.2	2242.8	2213.7	2173.8	2123.2	2063.1	1994.2	1917.6	1834.7	1746.2
27.5°	2420.6	2414.3	2394.6	2363.6	2320.0	2266.2	2201.0	2126.4	2043.5	1952.4	1857.5
25°	2572.4	2565.5	2543.9	2509.8	2463.0	2404.1	2333.9	2254.2	2165.0	2068.8	1965.1
22.5°	2717.9	2710.3	2687.6	2650.9	2600.9	2537.0	2461.7	2376.3	2281.4	2178.3	2068.8
20°	2852.7	2844.5	2821.1	2782.5	2730.6	2662.9	2583.2	2491.4	2390.2	2281.4	2165.0
17.5°	2974.2	2965.9	2941.3	2901.4	2852.7	2777.4	2695.2	2598.4	2491.4	2376.3	2254.2
15°	3081.1	3072.2	3046.9	3007.1	2951.4	2880.5	2793.9	2695.2	2583.2	2461.7	2333.9
12.5°	3172.2	3163.3	3137.4	3097.5	3040.0	2969.1	2880.5	2777.4	2662.9	2537.0	2404.1
10°	3244.3	3235.5	3210.8	3172.8	3113.3	3040.0	2951.4	2852.7	2730.6	2600.9	2463.0
7.5°	3296.2	3288.0	3265.2	3227.2	3172.8	3097.5	3007.1	2901.4	2782.5	2650.9	2509.8
5°	3335.4	3325.9	3303.1	3265.2	3210.8	3137.4	3046.9	2941.3	2821.1	2687.6	2543.9
2.5°	3362.6	3351.2	3325.9	3288.0	3235.5	3163.3	3072.2	2965.9	2844.5	2710.3	2565.5
0°	3370.2	3362.6	3335.4	3296.2	3244.3	3172.2	3081.1	2974.2	2852.7	2717.9	2572.4

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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°	22.8	22.8	22.1	21.5	20.9	19.6	19.0	18.3	17.7	16.4	15.8
85°	48.1	46.8	45.6	44.3	42.4	41.1	39.2	38.0	36.1	34.2	32.3
82.5°	75.9	74.0	71.5	69.6	67.1	63.9	61.4	58.2	55.0	52.5	49.3
80°	106.3	103.1	100.0	96.8	93.0	89.2	85.4	81.6	77.2	72.8	68.3
77.5°	139.2	134.8	130.3	125.3	120.8	115.8	110.7	105.7	100.0	94.3	88.6
75°	175.9	170.2	163.9	157.5	151.8	144.9	137.9	131.0	123.4	116.4	108.8
72.5°	215.7	208.8	201.2	193.6	185.4	176.5	167.7	158.2	149.3	140.5	131.0
70°	258.8	250.5	241.0	231.6	221.4	210.7	199.9	188.5	177.1	165.8	154.4
67.5°	304.9	294.8	283.4	272.0	259.4	246.7	234.1	220.8	206.9	193.0	179.7
65°	354.3	341.6	328.4	313.8	299.3	284.7	269.5	253.7	237.9	221.4	206.9
62.5°	409.3	393.5	376.4	358.7	342.3	324.6	308.1	288.5	269.5	251.2	232.8
60°	473.2	452.4	431.5	409.3	388.5	365.7	345.4	323.9	302.4	281.5	260.0
57.5°	544.7	518.2	492.8	466.3	438.4	413.1	387.2	361.3	337.2	312.5	289.1
55°	625.7	593.4	561.8	528.9	496.6	465.0	432.1	403.0	373.3	345.4	318.2
52.5°	714.3	677.6	638.4	601.0	559.9	520.7	484.0	447.3	412.5	379.0	348.0
50°	809.2	766.2	721.2	675.7	628.9	582.7	538.4	495.4	454.9	415.7	379.0
47.5°	907.9	859.2	807.9	756.0	706.1	649.7	596.6	547.9	499.2	454.9	412.5
45°	1009.1	954.1	897.8	838.9	780.1	719.3	660.5	601.0	547.9	495.4	447.3
42.5°	1113.5	1051.5	988.9	923.7	858.5	792.1	725.7	660.5	596.6	538.4	484.0
40°	1221.0	1152.7	1081.2	1010.4	940.8	864.9	792.1	719.3	649.7	582.7	520.7
37.5°	1328.6	1253.9	1176.8	1097.0	1017.3	940.8	858.5	780.1	706.1	628.9	559.9
35°	1436.8	1354.5	1271.0	1184.3	1097.0	1010.4	923.7	838.9	756.0	675.7	601.0
32.5°	1545.6	1455.8	1363.4	1271.0	1176.8	1081.2	988.9	897.8	807.9	721.2	638.4
30°	1652.5	1555.1	1455.8	1354.5	1253.9	1152.7	1051.5	954.1	859.2	766.2	677.6
27.5°	1756.9	1652.5	1545.6	1436.8	1328.6	1221.0	1113.5	1009.1	907.9	809.2	714.3
25°	1857.5	1746.2	1631.6	1515.9	1400.7	1286.2	1173.0	1060.3	954.1	850.3	751.0
22.5°	1952.4	1834.7	1713.9	1591.2	1467.8	1346.9	1228.0	1111.0	997.7	888.9	784.5
20°	2043.5	1917.6	1794.9	1660.7	1531.7	1404.5	1279.9	1157.1	1037.6	924.3	814.9
17.5°	2126.4	1994.2	1860.0	1725.3	1589.9	1456.4	1326.1	1204.0	1074.3	956.6	844.0
15°	2201.0	2063.1	1922.7	1782.9	1641.8	1503.2	1367.8	1236.2	1107.8	985.7	869.3
12.5°	2266.2	2123.2	1977.7	1832.8	1688.0	1544.3	1404.5	1268.5	1136.9	1010.4	890.8
10°	2320.0	2173.8	2023.9	1874.6	1725.9	1578.5	1434.3	1295.7	1160.9	1031.2	908.5
7.5°	2363.6	2213.7	2061.2	1907.5	1755.6	1605.1	1458.3	1316.6	1179.9	1047.1	922.4
5°	2394.6	2242.8	2087.8	1930.9	1777.2	1624.7	1475.4	1331.8	1193.2	1058.4	932.5
2.5°	2414.3	2266.2	2109.3	1950.5	1794.9	1640.5	1489.3	1343.8	1204.0	1067.9	940.8
0°	2420.6	2266.2	2109.3	1950.5	1794.9	1640.5	1489.3	1343.8	1204.0	1067.9	940.8

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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°	15.2	13.9	12.7	12.0	10.8	10.1	8.9	7.6	7.0	5.7	4.4
85°	30.4	27.8	25.9	24.0	22.1	19.6	17.7	15.8	13.3	11.4	8.9
82.5°	46.2	43.0	39.9	36.7	33.5	30.4	26.6	23.4	20.2	17.1	13.3
80°	63.9	58.8	54.4	50.0	45.6	41.1	36.1	31.6	26.6	22.1	17.7
77.5°	82.2	76.6	70.2	63.9	57.6	51.9	45.6	39.9	34.2	27.8	22.1
75°	101.9	94.3	87.3	79.1	71.5	63.3	55.7	48.1	41.1	34.2	26.6
72.5°	122.1	112.6	103.1	94.3	84.8	75.3	66.4	56.9	48.1	39.9	31.6
70°	143.0	131.6	120.2	109.5	98.7	87.3	77.2	66.4	55.7	45.6	36.1
67.5°	165.1	151.8	138.6	124.6	112.6	100.0	87.3	75.3	63.3	51.9	41.1
65°	189.2	173.4	156.9	142.3	126.5	112.6	98.7	84.8	71.5	57.6	45.6
62.5°	213.8	195.5	177.1	158.8	142.3	124.6	109.5	94.3	79.1	63.9	50.0
60°	239.1	218.3	197.4	177.1	156.9	138.6	120.2	103.1	87.3	70.2	54.4
57.5°	265.1	241.7	218.3	195.5	173.4	151.8	131.6	112.6	94.3	76.6	58.8
55°	291.7	265.1	239.1	213.8	189.2	165.1	143.0	122.1	101.9	82.2	63.9
52.5°	318.2	289.1	260.0	232.8	206.9	179.7	154.4	131.0	108.8	88.6	68.3
50°	345.4	312.5	281.5	251.2	221.4	193.0	165.8	140.5	116.4	94.3	72.8
47.5°	373.3	337.2	302.4	269.5	237.9	206.9	177.1	149.3	123.4	100.0	77.2
45°	403.0	361.3	323.9	288.5	253.7	220.8	188.5	158.2	131.0	105.7	81.6
42.5°	432.1	387.2	345.4	308.1	269.5	234.1	199.9	167.7	137.9	110.7	85.4
40°	465.0	413.1	365.7	324.6	284.7	246.7	210.7	176.5	144.9	115.8	89.2
37.5°	496.6	438.4	388.5	342.3	299.3	259.4	221.4	185.4	151.8	120.8	93.0
35°	528.9	466.3	409.3	358.7	313.8	272.0	231.6	193.6	157.5	125.3	96.8
32.5°	561.8	492.8	431.5	376.4	328.4	283.4	241.0	201.2	163.9	130.3	100.0
30°	593.4	518.2	452.4	393.5	341.6	294.8	250.5	208.8	170.2	134.8	103.1
27.5°	625.7	544.7	473.2	409.3	354.3	304.9	258.8	215.7	175.9	139.2	106.3
25°	656.7	570.0	492.8	424.5	365.7	315.1	267.6	222.7	180.9	143.0	108.8
22.5°	685.2	592.2	510.6	439.1	377.7	323.9	275.2	229.0	186.0	146.8	111.3
20°	711.1	615.0	528.9	453.6	389.1	332.8	281.5	234.7	190.4	149.9	113.9
17.5°	736.4	635.8	545.4	466.9	398.6	340.4	287.9	239.1	194.2	152.5	115.8
15°	757.9	654.2	559.9	478.3	407.4	346.7	292.9	243.6	197.4	155.0	117.0
12.5°	776.9	670.0	572.6	487.8	414.4	352.4	298.0	247.4	200.6	156.9	118.9
10°	792.1	682.6	582.7	496.0	420.7	356.8	301.1	250.5	202.5	158.8	120.2
7.5°	804.1	692.8	590.9	501.7	425.2	360.6	304.3	252.4	204.4	160.1	122.1
5°	813.0	700.4	596.6	506.1	428.9	365.0	308.1	255.6	206.9	162.0	122.1
2.5°	819.9	706.1	601.0	509.9	431.5	365.0	308.1	255.6	206.9	162.0	122.1
0°	819.9	706.1	601.0	509.9	431.5	365.0	308.1	255.6	206.9	162.0	122.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.2	2.5	1.3	0.0
85°	7.0	4.4	2.5	0.0
82.5°	10.1	7.0	3.2	0.0
80°	13.3	8.9	4.4	0.0
77.5°	17.1	11.4	5.7	0.0
75°	20.2	13.3	7.0	0.0
72.5°	23.4	15.8	7.6	0.0
70°	26.6	17.7	8.9	0.0
67.5°	30.4	19.6	10.1	0.0
65°	33.5	22.1	10.8	0.0
62.5°	36.7	24.0	12.0	0.0
60°	39.9	25.9	12.7	0.0
57.5°	43.0	27.8	13.9	0.0
55°	46.2	30.4	15.2	0.0
52.5°	49.3	32.3	15.8	0.0
50°	52.5	34.2	16.4	0.0
47.5°	55.0	36.1	17.7	0.0
45°	58.2	38.0	18.3	0.0
42.5°	61.4	39.2	19.0	0.0
40°	63.9	41.1	19.6	0.0
37.5°	67.1	42.4	20.9	0.0
35°	69.6	44.3	21.5	0.0
32.5°	71.5	45.6	22.1	0.0
30°	74.0	46.8	22.8	0.0
27.5°	75.9	48.1	22.8	0.0
25°	77.8	49.3	23.4	0.0
22.5°	79.7	50.0	24.0	0.0
20°	81.6	51.2	24.7	0.0
17.5°	82.9	51.9	24.7	0.0
15°	84.1	52.5	25.9	0.0
12.5°	84.8	53.1	25.9	0.0
10°	86.0	54.4	25.9	0.0
7.5°	87.3	54.4	25.9	0.0
5°	87.3	54.4	25.9	0.0
2.5°	87.3	54.4	25.9	0.0
0°	87.3	54.4	25.9	0.0

(END OF REPORT)