

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: P624496

Luminaire Tested: **IFLD-S-SA2B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

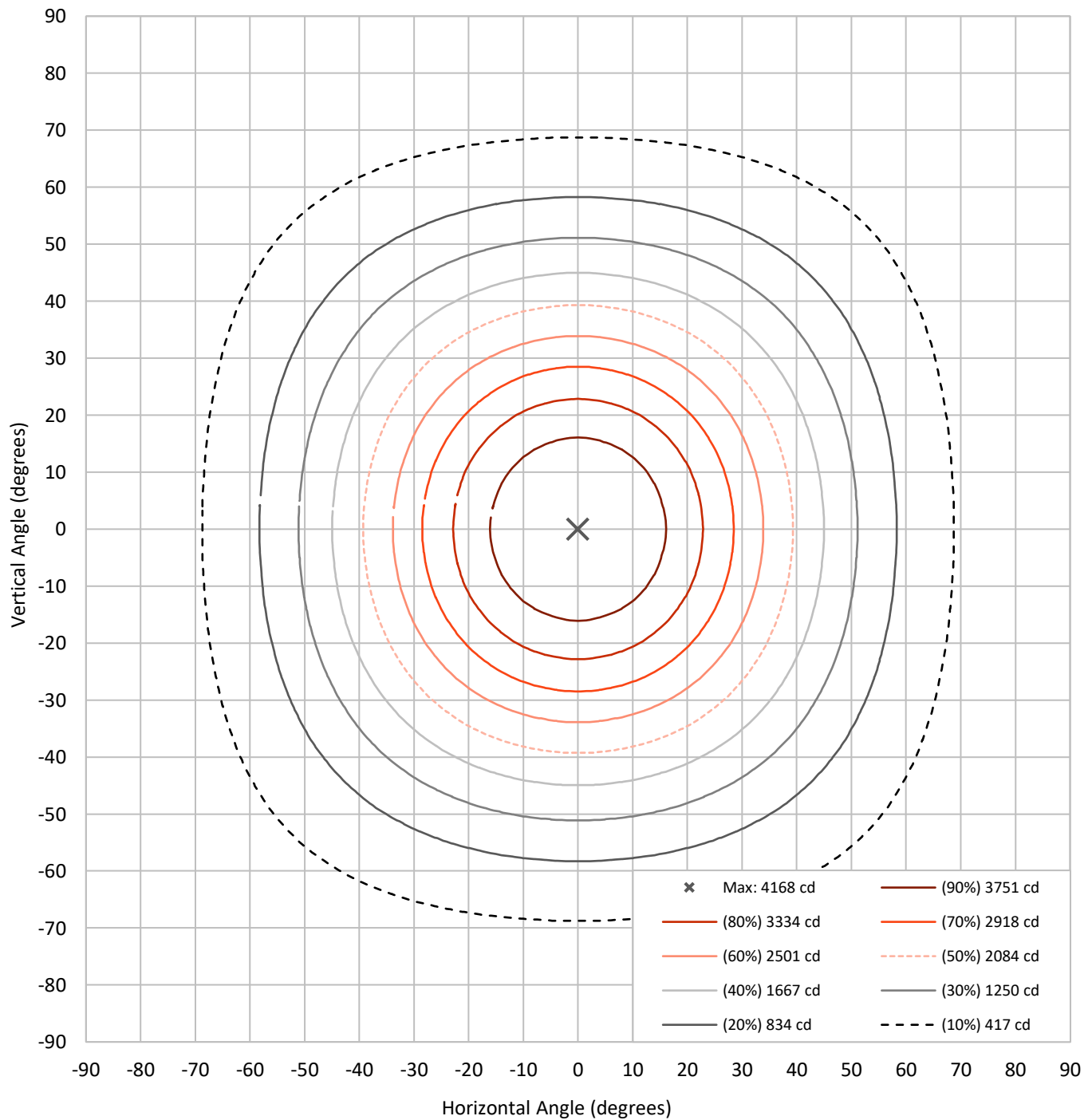
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7504.7 lumens	Max Intensity:	4168 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3247.2 lumens	Field Lumens:	5317.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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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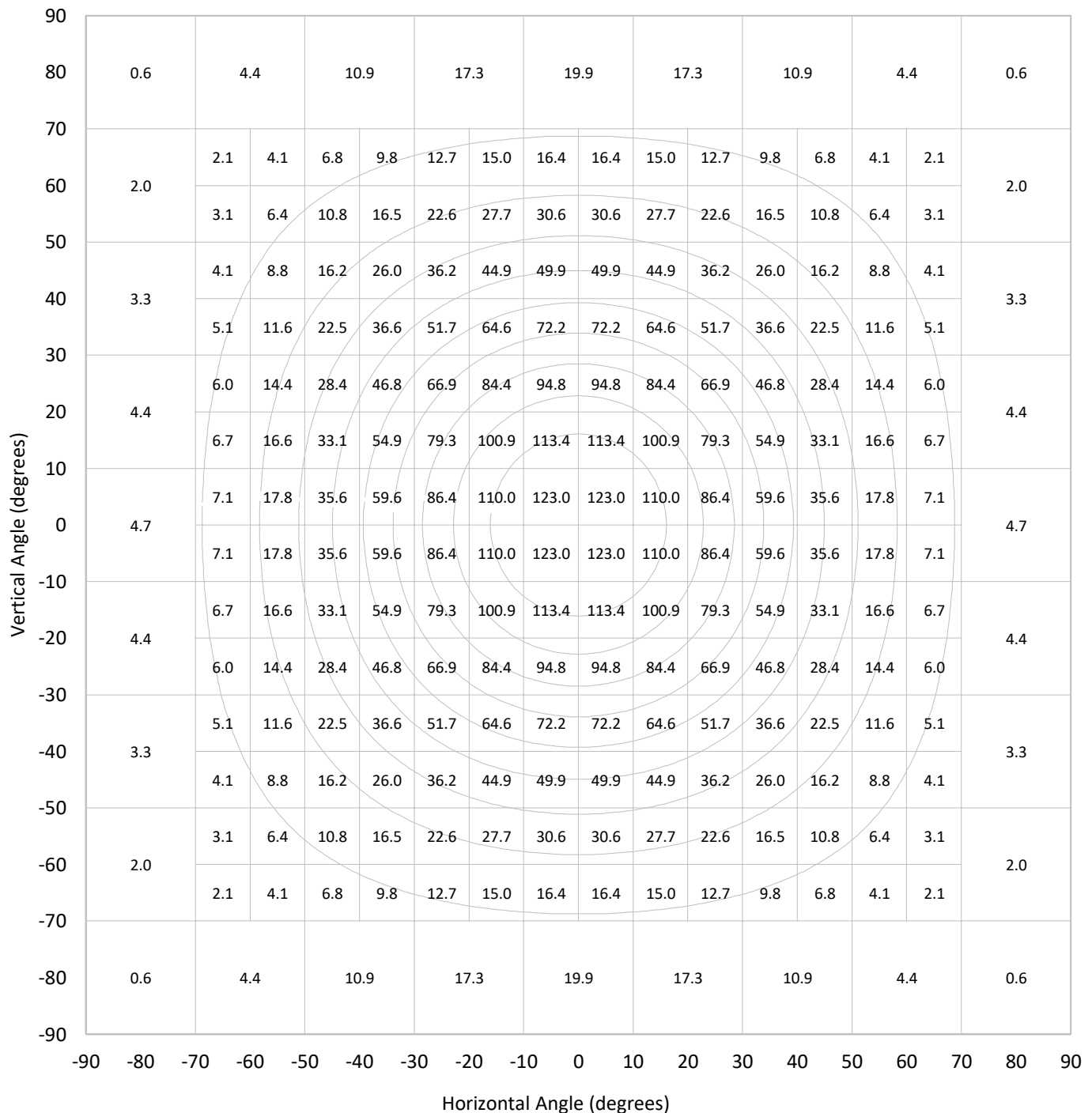
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Iso-Candela Plot



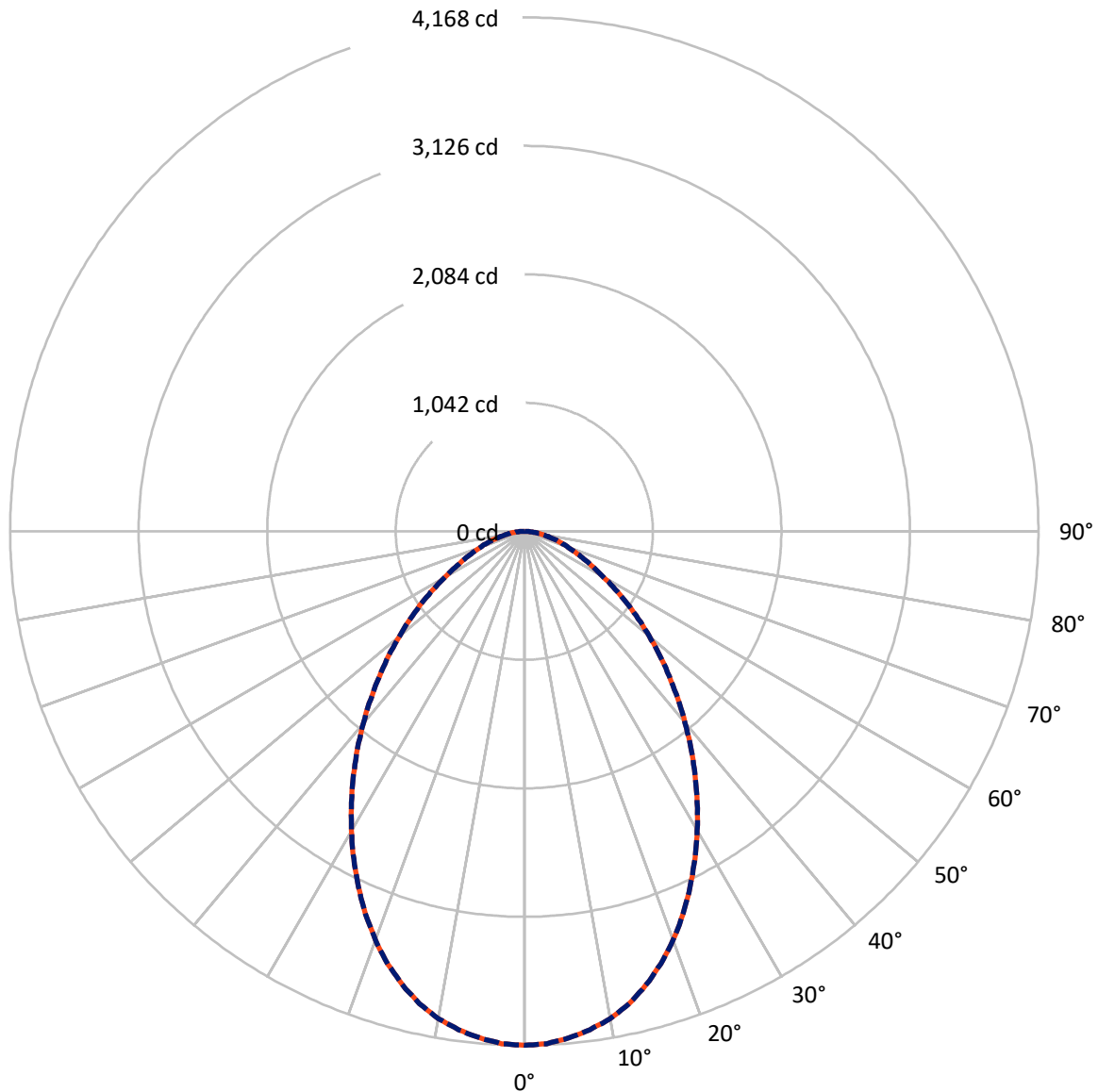
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Lumen Table



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Luminous Intensity Polar Plot

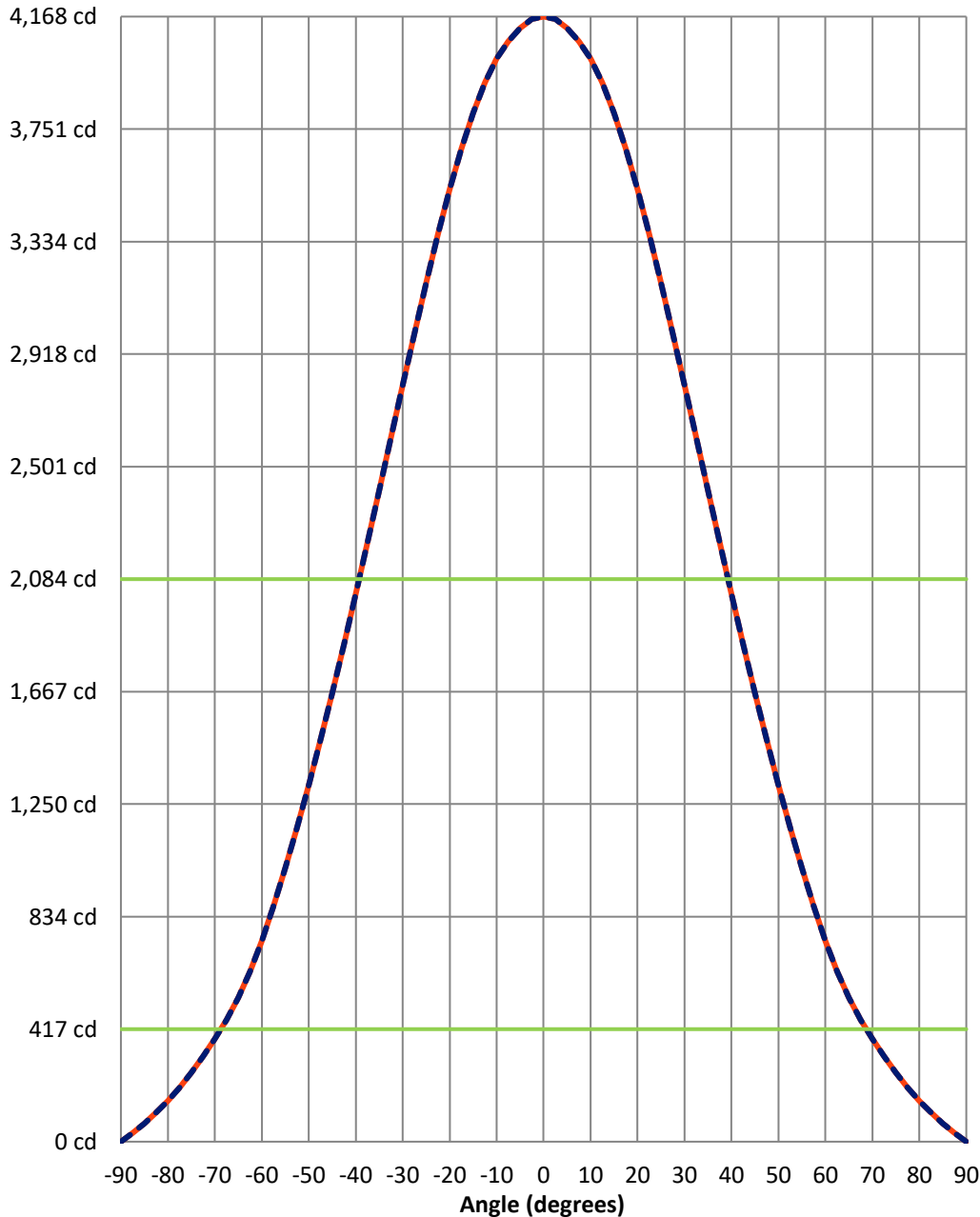


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 3247.2
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 5317.2
Efficiency: 70.9%

Spill:
Lumens: 2187.5
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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30.5	30.5	29.7	29.0
85°	67.3	67.3	67.3	67.3	67.3	65.7	64.9	64.2	63.4	61.8	61.0
82.5°	108.0	108.0	108.0	108.0	106.4	104.8	104.1	102.5	100.9	98.6	96.2
80°	151.0	151.0	151.0	151.0	148.7	147.1	144.8	143.2	140.8	137.7	134.6
77.5°	200.3	200.3	200.3	198.0	196.4	194.0	191.7	188.6	185.4	181.5	176.8
75°	255.9	255.9	255.9	252.7	250.4	248.0	244.1	240.2	235.5	230.0	223.8
72.5°	316.1	316.1	316.1	312.2	309.8	305.9	301.2	295.8	290.3	283.2	275.4
70°	381.0	381.0	381.0	376.4	372.4	368.5	362.3	356.0	348.2	340.4	331.0
67.5°	451.5	451.5	451.5	446.0	441.3	435.8	428.8	421.0	411.6	400.6	389.7
65°	533.6	533.6	530.5	525.8	520.3	512.5	503.9	492.9	481.2	467.1	452.2
62.5°	630.6	630.6	625.9	620.5	613.4	603.3	591.5	577.4	561.0	543.0	525.0
60°	743.3	743.3	737.8	730.8	720.6	708.1	692.5	674.5	654.1	631.4	609.5
57.5°	873.2	873.2	866.2	856.8	844.2	828.6	809.0	786.3	760.5	732.4	705.0
55°	1014.0	1014.0	1005.4	994.5	979.6	960.8	937.4	910.8	879.5	847.4	812.2
52.5°	1163.5	1163.5	1153.3	1140.8	1123.6	1101.7	1075.1	1043.8	1007.8	970.2	928.8
50°	1320.8	1320.8	1309.0	1294.9	1275.4	1249.6	1219.0	1183.0	1143.1	1099.3	1051.6
47.5°	1489.0	1489.0	1475.7	1459.2	1435.8	1406.0	1370.0	1328.6	1283.2	1233.9	1179.9
45°	1661.9	1661.9	1647.0	1628.3	1602.4	1568.8	1528.9	1489.0	1431.1	1374.0	1311.4
42.5°	1841.9	1841.9	1824.6	1803.5	1773.8	1737.0	1691.6	1640.0	1582.9	1518.7	1450.6
40°	2028.9	2028.9	2009.3	1985.0	1952.2	1909.9	1859.1	1801.2	1737.0	1665.8	1590.7
37.5°	2219.8	2219.8	2197.9	2171.3	2134.5	2087.5	2030.4	1966.3	1894.3	1815.3	1732.3
35°	2412.3	2412.3	2388.0	2359.0	2318.4	2266.7	2204.9	2133.7	2053.9	1967.8	1874.7
32.5°	2608.6	2608.6	2582.0	2549.2	2503.0	2445.9	2377.8	2300.4	2219.8	2119.6	2017.9
30°	2802.7	2802.7	2773.7	2737.7	2688.5	2625.9	2551.5	2466.2	2371.6	2269.1	2159.5
27.5°	2993.6	2985.8	2961.5	2923.2	2869.2	2802.7	2722.1	2629.8	2527.3	2414.6	2297.2
25°	3181.4	3172.8	3146.2	3103.9	3046.0	2973.3	2886.4	2787.8	2677.5	2558.6	2430.2
22.5°	3361.3	3352.0	3323.8	3278.4	3216.6	3137.6	3044.5	2938.8	2821.5	2693.9	2558.6
20°	3528.0	3517.8	3488.9	3441.2	3377.0	3293.3	3194.7	3081.2	2956.0	2821.5	2677.5
17.5°	3678.2	3668.1	3637.5	3588.3	3528.0	3434.9	3333.2	3213.5	3081.2	2938.8	2787.8
15°	3810.5	3799.5	3768.2	3718.9	3650.1	3562.4	3455.2	3333.2	3194.7	3044.5	2886.4
12.5°	3923.1	3912.2	3880.1	3830.8	3759.6	3672.0	3562.4	3434.9	3293.3	3137.6	2973.3
10°	4012.3	4001.4	3970.9	3923.9	3850.4	3759.6	3650.1	3528.0	3377.0	3216.6	3046.0
7.5°	4076.5	4066.3	4038.2	3991.2	3923.9	3830.8	3718.9	3588.3	3441.2	3278.4	3103.9
5°	4125.0	4113.3	4085.1	4038.2	3970.9	3880.1	3768.2	3637.5	3488.9	3323.8	3146.2
2.5°	4158.7	4144.6	4113.3	4066.3	4001.4	3912.2	3799.5	3668.1	3517.8	3352.0	3172.8
0°	4168.0	4158.7	4125.0	4076.5	4012.3	3923.1	3810.5	3678.2	3528.0	3361.3	3181.4

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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°	28.2	28.2	27.4	26.6	25.8	24.3	23.5	22.7	21.9	20.3	19.6
85°	59.5	57.9	56.3	54.8	52.4	50.9	48.5	46.9	44.6	42.3	39.9
82.5°	93.9	91.5	88.4	86.1	82.9	79.0	75.9	72.0	68.1	64.9	61.0
80°	131.4	127.5	123.6	119.7	115.0	110.3	105.6	100.9	95.5	90.0	84.5
77.5°	172.1	166.7	161.2	154.9	149.4	143.2	136.9	130.7	123.6	116.6	109.5
75°	217.5	210.5	202.7	194.8	187.8	179.2	170.6	162.0	152.6	144.0	134.6
72.5°	266.8	258.2	248.8	239.4	229.3	218.3	207.3	195.6	184.7	173.7	162.0
70°	320.0	309.8	298.1	286.4	273.9	260.6	247.3	233.2	219.1	205.0	190.9
67.5°	377.1	364.6	350.5	336.4	320.8	305.2	289.5	273.1	255.9	238.6	222.2
65°	438.2	422.5	406.1	388.1	370.1	352.1	333.3	313.8	294.2	273.9	255.9
62.5°	506.2	486.7	465.5	443.6	423.3	401.4	381.0	356.8	333.3	310.6	287.9
60°	585.3	559.4	533.6	506.2	480.4	452.2	427.2	400.6	374.0	348.2	321.6
57.5°	673.7	640.8	609.5	576.7	542.2	510.9	478.9	446.8	417.0	386.5	357.6
55°	773.8	733.9	694.8	654.1	614.2	575.1	534.4	498.4	461.6	427.2	393.6
52.5°	883.4	838.0	789.5	743.3	692.5	643.9	598.6	553.2	510.1	468.7	430.3
50°	1000.7	947.5	892.0	835.6	777.7	720.6	665.9	612.6	562.6	514.1	468.7
47.5°	1122.8	1062.5	999.2	935.0	873.2	803.6	737.8	677.6	617.3	562.6	510.1
45°	1248.0	1179.9	1110.3	1037.5	964.7	889.6	816.9	743.3	677.6	612.6	553.2
42.5°	1377.1	1300.4	1222.9	1142.4	1061.8	979.6	897.5	816.9	737.8	665.9	598.6
40°	1510.1	1425.6	1337.2	1249.6	1163.5	1069.6	979.6	889.6	803.6	720.6	643.9
37.5°	1643.1	1550.8	1455.3	1356.7	1258.2	1163.5	1061.8	964.7	873.2	777.7	692.5
35°	1776.9	1675.2	1571.9	1464.7	1356.7	1249.6	1142.4	1037.5	935.0	835.6	743.3
32.5°	1911.5	1800.4	1686.2	1571.9	1455.3	1337.2	1222.9	1110.3	999.2	892.0	789.5
30°	2043.7	1923.2	1800.4	1675.2	1550.8	1425.6	1300.4	1179.9	1062.5	947.5	838.0
27.5°	2172.8	2043.7	1911.5	1776.9	1643.1	1510.1	1377.1	1248.0	1122.8	1000.7	883.4
25°	2297.2	2159.5	2017.9	1874.7	1732.3	1590.7	1450.6	1311.4	1179.9	1051.6	928.8
22.5°	2414.6	2269.1	2119.6	1967.8	1815.3	1665.8	1518.7	1374.0	1233.9	1099.3	970.2
20°	2527.3	2371.6	2219.8	2053.9	1894.3	1737.0	1582.9	1431.1	1283.2	1143.1	1007.8
17.5°	2629.8	2466.2	2300.4	2133.7	1966.3	1801.2	1640.0	1489.0	1328.6	1183.0	1043.8
15°	2722.1	2551.5	2377.8	2204.9	2030.4	1859.1	1691.6	1528.9	1370.0	1219.0	1075.1
12.5°	2802.7	2625.9	2445.9	2266.7	2087.5	1909.9	1737.0	1568.8	1406.0	1249.6	1101.7
10°	2869.2	2688.5	2503.0	2318.4	2134.5	1952.2	1773.8	1602.4	1435.8	1275.4	1123.6
7.5°	2923.2	2737.7	2549.2	2359.0	2171.3	1985.0	1803.5	1628.3	1459.2	1294.9	1140.8
5°	2961.5	2773.7	2582.0	2388.0	2197.9	2009.3	1824.6	1647.0	1475.7	1309.0	1153.3
2.5°	2985.8	2802.7	2608.6	2412.3	2219.8	2028.9	1841.9	1661.9	1489.0	1320.8	1163.5
0°	2993.6	2802.7	2608.6	2412.3	2219.8	2028.9	1841.9	1661.9	1489.0	1320.8	1163.5

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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°	18.8	17.2	15.6	14.9	13.3	12.5	11.0	9.4	8.6	7.0	5.5
85°	37.6	34.4	32.1	29.7	27.4	24.3	21.9	19.6	16.4	14.1	11.0
82.5°	57.1	53.2	49.3	45.4	41.5	37.6	32.9	29.0	25.0	21.1	16.4
80°	79.0	72.8	67.3	61.8	56.3	50.9	44.6	39.1	32.9	27.4	21.9
77.5°	101.7	94.7	86.9	79.0	71.2	64.2	56.3	49.3	42.3	34.4	27.4
75°	126.0	116.6	108.0	97.8	88.4	78.2	68.9	59.5	50.9	42.3	32.9
72.5°	151.0	139.3	127.5	116.6	104.8	93.1	82.2	70.4	59.5	49.3	39.1
70°	176.8	162.7	148.7	135.4	122.1	108.0	95.5	82.2	68.9	56.3	44.6
67.5°	204.2	187.8	171.4	154.1	139.3	123.6	108.0	93.1	78.2	64.2	50.9
65°	233.9	214.4	194.0	176.0	156.5	139.3	122.1	104.8	88.4	71.2	56.3
62.5°	264.5	241.8	219.1	196.4	176.0	154.1	135.4	116.6	97.8	79.0	61.8
60°	295.8	269.9	244.1	219.1	194.0	171.4	148.7	127.5	108.0	86.9	67.3
57.5°	327.8	298.9	269.9	241.8	214.4	187.8	162.7	139.3	116.6	94.7	72.8
55°	360.7	327.8	295.8	264.5	233.9	204.2	176.8	151.0	126.0	101.7	79.0
52.5°	393.6	357.6	321.6	287.9	255.9	222.2	190.9	162.0	134.6	109.5	84.5
50°	427.2	386.5	348.2	310.6	273.9	238.6	205.0	173.7	144.0	116.6	90.0
47.5°	461.6	417.0	374.0	333.3	294.2	255.9	219.1	184.7	152.6	123.6	95.5
45°	498.4	446.8	400.6	356.8	313.8	273.1	233.2	195.6	162.0	130.7	100.9
42.5°	534.4	478.9	427.2	381.0	333.3	289.5	247.3	207.3	170.6	136.9	105.6
40°	575.1	510.9	452.2	401.4	352.1	305.2	260.6	218.3	179.2	143.2	110.3
37.5°	614.2	542.2	480.4	423.3	370.1	320.8	273.9	229.3	187.8	149.4	115.0
35°	654.1	576.7	506.2	443.6	388.1	336.4	286.4	239.4	194.8	154.9	119.7
32.5°	694.8	609.5	533.6	465.5	406.1	350.5	298.1	248.8	202.7	161.2	123.6
30°	733.9	640.8	559.4	486.7	422.5	364.6	309.8	258.2	210.5	166.7	127.5
27.5°	773.8	673.7	585.3	506.2	438.2	377.1	320.0	266.8	217.5	172.1	131.4
25°	812.2	705.0	609.5	525.0	452.2	389.7	331.0	275.4	223.8	176.8	134.6
22.5°	847.4	732.4	631.4	543.0	467.1	400.6	340.4	283.2	230.0	181.5	137.7
20°	879.5	760.5	654.1	561.0	481.2	411.6	348.2	290.3	235.5	185.4	140.8
17.5°	910.8	786.3	674.5	577.4	492.9	421.0	356.0	295.8	240.2	188.6	143.2
15°	937.4	809.0	692.5	591.5	503.9	428.8	362.3	301.2	244.1	191.7	144.8
12.5°	960.8	828.6	708.1	603.3	512.5	435.8	368.5	305.9	248.0	194.0	147.1
10°	979.6	844.2	720.6	613.4	520.3	441.3	372.4	309.8	250.4	196.4	148.7
7.5°	994.5	856.8	730.8	620.5	525.8	446.0	376.4	312.2	252.7	198.0	151.0
5°	1005.4	866.2	737.8	625.9	530.5	451.5	381.0	316.1	255.9	200.3	151.0
2.5°	1014.0	873.2	743.3	630.6	533.6	451.5	381.0	316.1	255.9	200.3	151.0
0°	1014.0	873.2	743.3	630.6	533.6	451.5	381.0	316.1	255.9	200.3	151.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.9	3.1	1.6	0.0
85°	8.6	5.5	3.1	0.0
82.5°	12.5	8.6	3.9	0.0
80°	16.4	11.0	5.5	0.0
77.5°	21.1	14.1	7.0	0.0
75°	25.0	16.4	8.6	0.0
72.5°	29.0	19.6	9.4	0.0
70°	32.9	21.9	11.0	0.0
67.5°	37.6	24.3	12.5	0.0
65°	41.5	27.4	13.3	0.0
62.5°	45.4	29.7	14.9	0.0
60°	49.3	32.1	15.6	0.0
57.5°	53.2	34.4	17.2	0.0
55°	57.1	37.6	18.8	0.0
52.5°	61.0	39.9	19.6	0.0
50°	64.9	42.3	20.3	0.0
47.5°	68.1	44.6	21.9	0.0
45°	72.0	46.9	22.7	0.0
42.5°	75.9	48.5	23.5	0.0
40°	79.0	50.9	24.3	0.0
37.5°	82.9	52.4	25.8	0.0
35°	86.1	54.8	26.6	0.0
32.5°	88.4	56.3	27.4	0.0
30°	91.5	57.9	28.2	0.0
27.5°	93.9	59.5	28.2	0.0
25°	96.2	61.0	29.0	0.0
22.5°	98.6	61.8	29.7	0.0
20°	100.9	63.4	30.5	0.0
17.5°	102.5	64.2	30.5	0.0
15°	104.1	64.9	32.1	0.0
12.5°	104.8	65.7	32.1	0.0
10°	106.4	67.3	32.1	0.0
7.5°	108.0	67.3	32.1	0.0
5°	108.0	67.3	32.1	0.0
2.5°	108.0	67.3	32.1	0.0
0°	108.0	67.3	32.1	0.0

(END OF REPORT)