

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: P640044

Luminaire Tested: **IFLD-M-SA4A-AMB-U-66**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-AMB-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (64) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

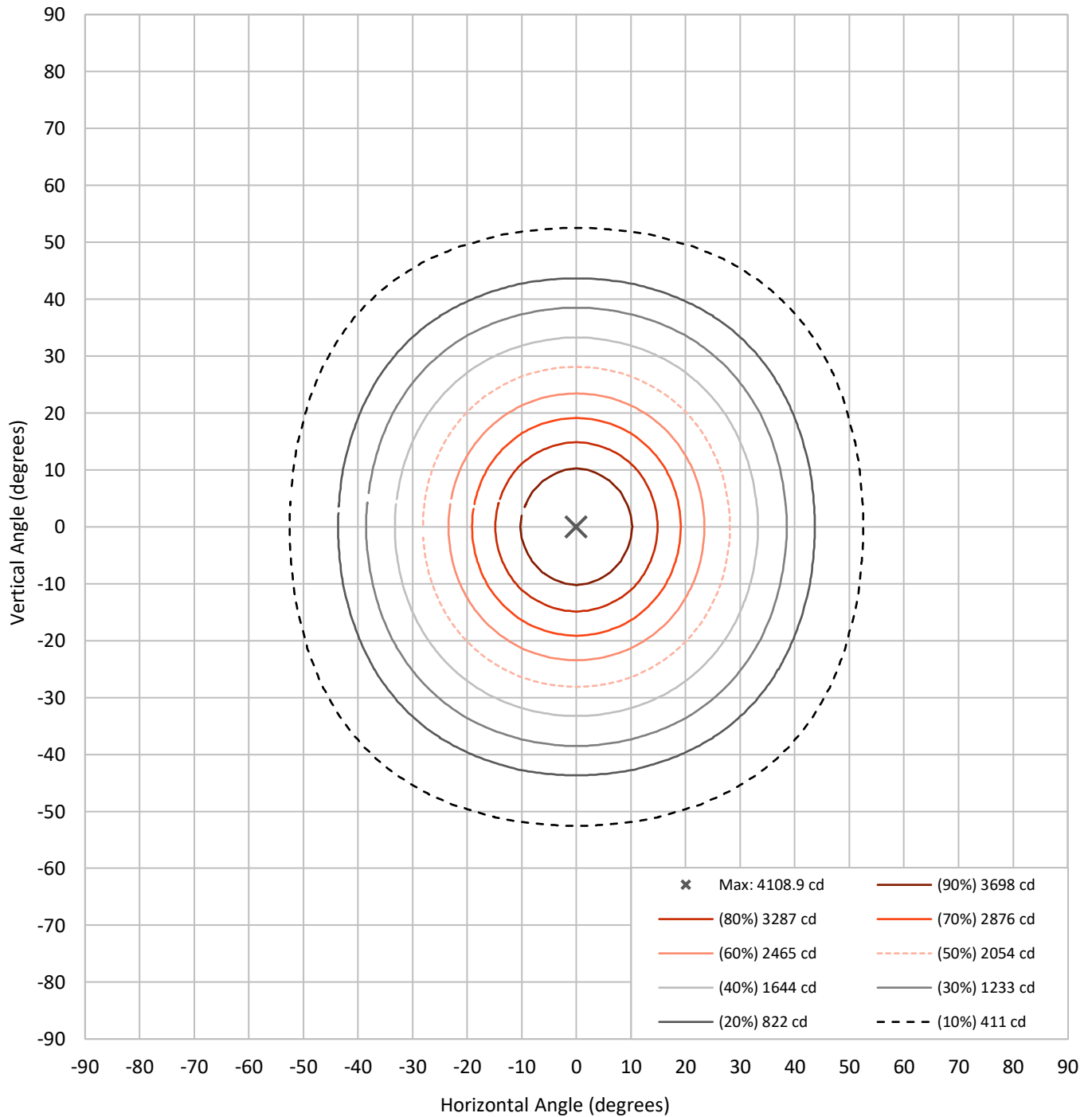
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4496.7 lumens	Max Intensity:	4108.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	1608.9 lumens	Field Lumens:	2971.9 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%
Input Watts (W):	128.6		
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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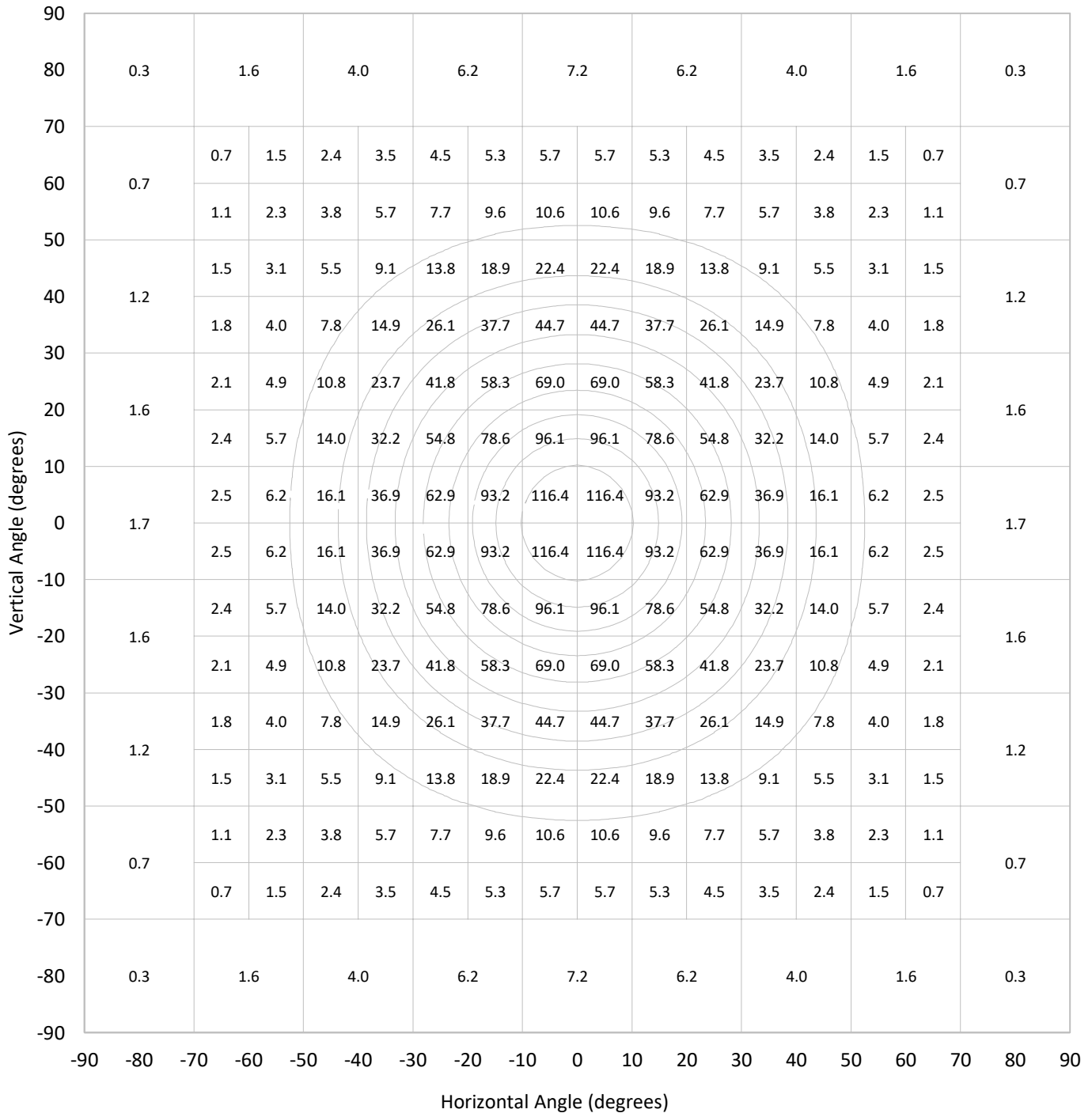
Iso-Candela Plot





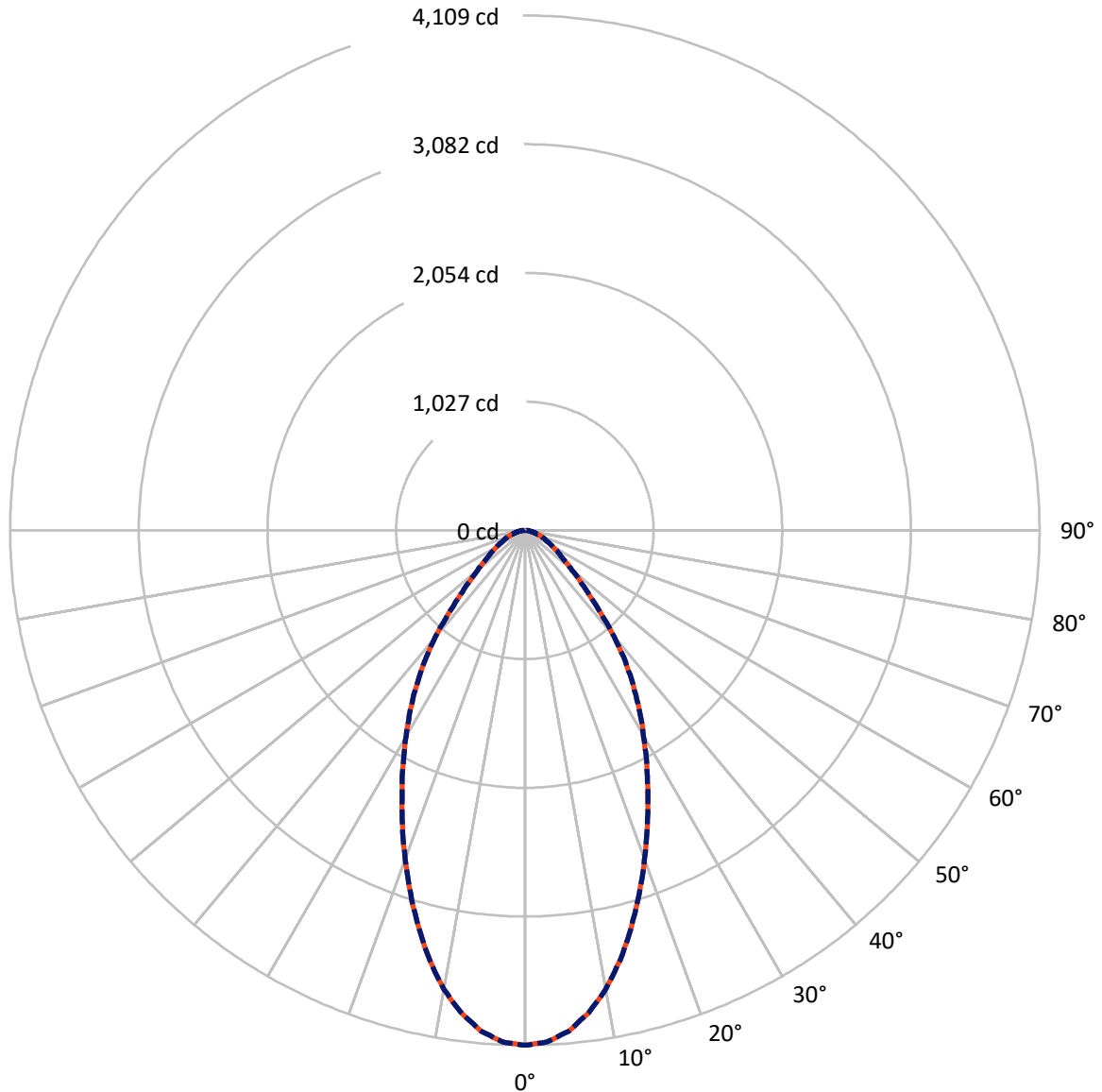
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Lumen Table



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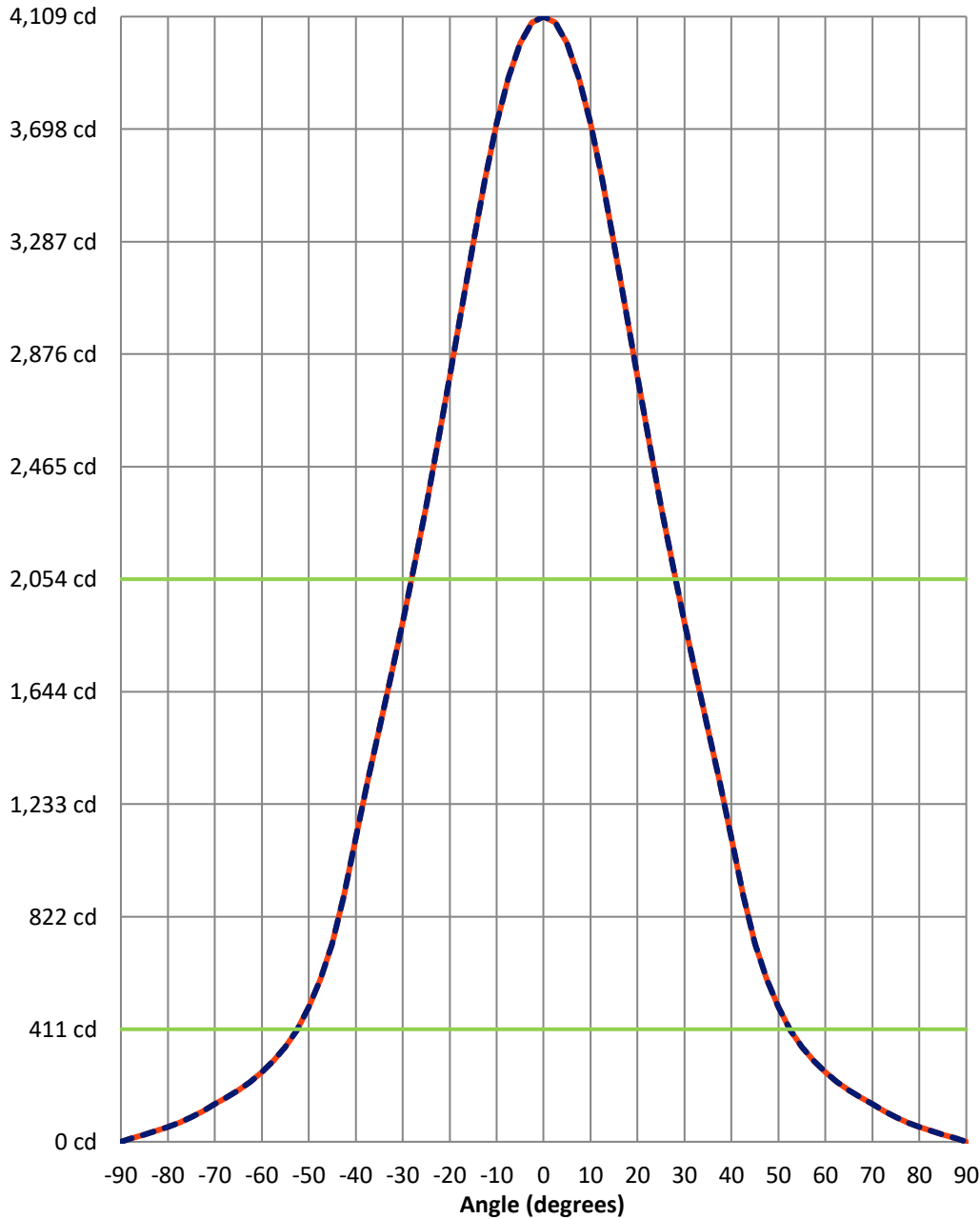
Luminous Intensity Polar Plot



— 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: 1608.9
Efficiency: 35.8%

Field:
H Angle: 104.8°
V Angle: 104.8°
Lumens: 2971.9
Efficiency: 66.1%

Spill:
Lumens: 1524.8
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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.0	12.0
85°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	24.0	24.0	24.0	24.0
82.5°	40.0	40.0	40.0	40.0	40.0	38.0	38.0	38.0	38.0	36.0	36.0
80°	54.0	54.0	54.0	54.0	54.0	52.0	52.0	52.0	50.0	50.0	48.0
77.5°	70.0	70.0	70.0	70.0	68.0	68.0	68.0	66.0	66.0	64.0	62.0
75°	90.0	90.0	90.0	88.0	88.0	88.0	86.0	84.0	82.0	80.0	78.0
72.5°	112.0	112.0	112.0	110.0	110.0	108.0	106.0	104.0	102.0	100.0	98.0
70°	138.0	138.0	138.0	136.0	134.0	132.0	130.0	128.0	124.0	122.0	118.0
67.5°	162.0	162.0	162.0	160.0	158.0	156.0	154.0	152.0	148.0	144.0	140.0
65°	188.0	188.0	186.0	186.0	184.0	182.0	178.0	176.0	172.0	168.0	162.0
62.5°	218.0	218.0	216.0	214.0	212.0	210.0	206.0	202.0	196.0	192.0	186.0
60°	254.1	254.1	252.1	250.1	246.1	242.1	238.0	232.0	226.0	218.0	212.0
57.5°	296.1	296.1	294.1	290.1	286.1	282.1	276.1	268.1	260.1	250.1	242.1
55°	346.1	346.1	342.1	340.1	334.1	328.1	318.1	310.1	298.1	288.1	276.1
52.5°	408.1	408.1	404.1	398.1	392.1	382.1	372.1	358.1	344.1	330.1	316.1
50°	492.1	492.1	486.1	478.1	468.1	454.1	438.1	418.1	400.1	382.1	362.1
47.5°	594.1	594.1	586.1	576.1	562.1	544.1	522.1	496.1	472.1	446.1	416.1
45°	724.2	724.2	712.1	698.1	680.1	654.1	624.1	594.1	558.1	524.1	488.1
42.5°	900.2	900.2	884.2	862.2	834.2	798.2	752.2	708.1	664.1	616.1	570.1
40°	1108.2	1108.2	1086.2	1060.2	1022.2	976.2	918.2	860.2	798.2	728.2	670.1
37.5°	1314.3	1314.3	1290.3	1262.3	1222.3	1170.2	1110.2	1038.2	958.2	874.2	792.2
35°	1506.3	1506.3	1482.3	1452.3	1412.3	1360.3	1298.3	1222.3	1136.2	1040.2	936.2
32.5°	1700.4	1700.4	1674.3	1640.3	1596.3	1540.3	1472.3	1394.3	1314.3	1206.3	1096.2
30°	1896.4	1896.4	1866.4	1830.4	1780.4	1718.4	1644.3	1560.3	1466.3	1364.3	1248.3
27.5°	2106.4	2098.4	2072.4	2028.4	1970.4	1896.4	1814.4	1722.4	1620.3	1508.3	1392.3
25°	2320.5	2310.5	2280.5	2232.5	2166.5	2084.4	1988.4	1882.4	1770.4	1650.3	1524.3
22.5°	2554.5	2542.5	2506.5	2446.5	2366.5	2270.5	2164.5	2046.4	1916.4	1786.4	1650.3
20°	2792.6	2778.6	2736.6	2668.6	2576.5	2466.5	2338.5	2206.5	2064.4	1916.4	1770.4
17.5°	3036.6	3020.6	2970.6	2890.6	2792.6	2660.6	2518.5	2362.5	2206.5	2046.4	1882.4
15°	3278.7	3258.7	3202.7	3110.6	2990.6	2848.6	2688.6	2518.5	2338.5	2164.5	1988.4
12.5°	3512.7	3490.7	3424.7	3320.7	3186.7	3026.6	2848.6	2660.6	2466.5	2270.5	2084.4
10°	3718.8	3692.8	3622.8	3514.7	3362.7	3186.7	2990.6	2792.6	2576.5	2366.5	2166.5
7.5°	3884.8	3858.8	3784.8	3670.8	3514.7	3320.7	3110.6	2890.6	2668.6	2446.5	2232.5
5°	4010.8	3980.8	3906.8	3784.8	3622.8	3424.7	3202.7	2970.6	2736.6	2506.5	2280.5
2.5°	4086.9	4054.8	3980.8	3858.8	3692.8	3490.7	3258.7	3020.6	2778.6	2542.5	2310.5
0°	4108.9	4086.9	4010.8	3884.8	3718.8	3512.7	3278.7	3036.6	2792.6	2554.5	2320.5



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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°	12.0	12.0	12.0	12.0	12.0	10.0	10.0	10.0	10.0	8.0	8.0
85°	24.0	22.0	22.0	22.0	22.0	20.0	20.0	18.0	18.0	18.0	16.0
82.5°	36.0	34.0	34.0	32.0	32.0	30.0	28.0	28.0	26.0	26.0	24.0
80°	48.0	46.0	46.0	44.0	42.0	40.0	40.0	38.0	36.0	34.0	32.0
77.5°	60.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	42.0	40.0
75°	76.0	74.0	70.0	68.0	66.0	64.0	60.0	58.0	54.0	52.0	48.0
72.5°	94.0	90.0	88.0	84.0	80.0	76.0	72.0	68.0	66.0	62.0	58.0
70°	114.0	110.0	106.0	102.0	96.0	92.0	86.0	82.0	76.0	72.0	66.0
67.5°	136.0	132.0	126.0	120.0	114.0	108.0	102.0	96.0	90.0	84.0	78.0
65°	158.0	152.0	146.0	140.0	134.0	126.0	118.0	112.0	104.0	96.0	90.0
62.5°	180.0	174.0	166.0	160.0	152.0	144.0	138.0	128.0	120.0	110.0	102.0
60°	204.0	196.0	188.0	180.0	172.0	162.0	154.0	144.0	136.0	124.0	114.0
57.5°	232.0	222.0	212.0	202.0	190.0	180.0	170.0	160.0	150.0	140.0	128.0
55°	264.1	250.1	238.0	226.0	212.0	200.0	188.0	176.0	166.0	154.0	142.0
52.5°	300.1	284.1	268.1	254.1	238.0	222.0	208.0	194.0	180.0	168.0	154.0
50°	342.1	322.1	302.1	284.1	266.1	246.1	230.0	212.0	196.0	182.0	168.0
47.5°	392.1	366.1	340.1	318.1	296.1	274.1	252.1	232.0	214.0	196.0	180.0
45°	454.1	416.1	386.1	356.1	328.1	302.1	278.1	254.1	232.0	212.0	194.0
42.5°	526.1	482.1	440.1	400.1	366.1	334.1	304.1	278.1	252.1	230.0	208.0
40°	610.1	556.1	502.1	454.1	408.1	370.1	334.1	302.1	274.1	246.1	222.0
37.5°	710.1	640.1	574.1	514.1	458.1	408.1	366.1	328.1	296.1	266.1	238.0
35°	836.2	738.2	656.1	580.1	514.1	454.1	400.1	356.1	318.1	284.1	254.1
32.5°	978.2	860.2	748.2	656.1	574.1	502.1	440.1	386.1	340.1	302.1	268.1
30°	1124.2	990.2	860.2	738.2	640.1	556.1	482.1	416.1	366.1	322.1	284.1
27.5°	1264.3	1124.2	978.2	836.2	710.1	610.1	526.1	454.1	392.1	342.1	300.1
25°	1392.3	1248.3	1096.2	936.2	792.2	670.1	570.1	488.1	416.1	362.1	316.1
22.5°	1508.3	1364.3	1206.3	1040.2	874.2	728.2	616.1	524.1	446.1	382.1	330.1
20°	1620.3	1466.3	1314.3	1136.2	958.2	798.2	664.1	558.1	472.1	400.1	344.1
17.5°	1722.4	1560.3	1394.3	1222.3	1038.2	860.2	708.1	594.1	496.1	418.1	358.1
15°	1814.4	1644.3	1472.3	1298.3	1110.2	918.2	752.2	624.1	522.1	438.1	372.1
12.5°	1896.4	1718.4	1540.3	1360.3	1170.2	976.2	798.2	654.1	544.1	454.1	382.1
10°	1970.4	1780.4	1596.3	1412.3	1222.3	1022.2	834.2	680.1	562.1	468.1	392.1
7.5°	2028.4	1830.4	1640.3	1452.3	1262.3	1060.2	862.2	698.1	576.1	478.1	398.1
5°	2072.4	1866.4	1674.3	1482.3	1290.3	1086.2	884.2	712.1	586.1	486.1	404.1
2.5°	2098.4	1896.4	1700.4	1506.3	1314.3	1108.2	900.2	724.2	594.1	492.1	408.1
0°	2106.4	1896.4	1700.4	1506.3	1314.3	1108.2	900.2	724.2	594.1	492.1	408.1



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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°	8.0	8.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	2.0
85°	16.0	14.0	14.0	12.0	12.0	10.0	10.0	8.0	8.0	6.0	4.0
82.5°	22.0	22.0	20.0	18.0	18.0	16.0	14.0	12.0	10.0	10.0	8.0
80°	30.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	14.0	12.0	10.0
77.5°	38.0	36.0	32.0	30.0	28.0	24.0	22.0	20.0	18.0	14.0	12.0
75°	46.0	42.0	40.0	36.0	34.0	30.0	26.0	24.0	20.0	18.0	14.0
72.5°	54.0	50.0	46.0	42.0	38.0	36.0	32.0	28.0	24.0	20.0	16.0
70°	62.0	58.0	54.0	48.0	44.0	40.0	36.0	32.0	26.0	22.0	18.0
67.5°	72.0	66.0	60.0	56.0	50.0	46.0	40.0	36.0	30.0	24.0	20.0
65°	82.0	74.0	68.0	62.0	56.0	50.0	44.0	38.0	34.0	28.0	22.0
62.5°	94.0	84.0	76.0	68.0	62.0	56.0	48.0	42.0	36.0	30.0	24.0
60°	104.0	96.0	86.0	76.0	68.0	60.0	54.0	46.0	40.0	32.0	26.0
57.5°	116.0	106.0	96.0	84.0	74.0	66.0	58.0	50.0	42.0	36.0	28.0
55°	130.0	116.0	104.0	94.0	82.0	72.0	62.0	54.0	46.0	38.0	30.0
52.5°	142.0	128.0	114.0	102.0	90.0	78.0	66.0	58.0	48.0	40.0	32.0
50°	154.0	140.0	124.0	110.0	96.0	84.0	72.0	62.0	52.0	42.0	34.0
47.5°	166.0	150.0	136.0	120.0	104.0	90.0	76.0	66.0	54.0	46.0	36.0
45°	176.0	160.0	144.0	128.0	112.0	96.0	82.0	68.0	58.0	48.0	38.0
42.5°	188.0	170.0	154.0	138.0	118.0	102.0	86.0	72.0	60.0	50.0	40.0
40°	200.0	180.0	162.0	144.0	126.0	108.0	92.0	76.0	64.0	52.0	40.0
37.5°	212.0	190.0	172.0	152.0	134.0	114.0	96.0	80.0	66.0	54.0	42.0
35°	226.0	202.0	180.0	160.0	140.0	120.0	102.0	84.0	68.0	56.0	44.0
32.5°	238.0	212.0	188.0	166.0	146.0	126.0	106.0	88.0	70.0	58.0	46.0
30°	250.1	222.0	196.0	174.0	152.0	132.0	110.0	90.0	74.0	60.0	46.0
27.5°	264.1	232.0	204.0	180.0	158.0	136.0	114.0	94.0	76.0	60.0	48.0
25°	276.1	242.1	212.0	186.0	162.0	140.0	118.0	98.0	78.0	62.0	48.0
22.5°	288.1	250.1	218.0	192.0	168.0	144.0	122.0	100.0	80.0	64.0	50.0
20°	298.1	260.1	226.0	196.0	172.0	148.0	124.0	102.0	82.0	66.0	50.0
17.5°	310.1	268.1	232.0	202.0	176.0	152.0	128.0	104.0	84.0	66.0	52.0
15°	318.1	276.1	238.0	206.0	178.0	154.0	130.0	106.0	86.0	68.0	52.0
12.5°	328.1	282.1	242.1	210.0	182.0	156.0	132.0	108.0	88.0	68.0	52.0
10°	334.1	286.1	246.1	212.0	184.0	158.0	134.0	110.0	88.0	68.0	54.0
7.5°	340.1	290.1	250.1	214.0	186.0	160.0	136.0	110.0	88.0	70.0	54.0
5°	342.1	294.1	252.1	216.0	186.0	162.0	138.0	112.0	90.0	70.0	54.0
2.5°	346.1	296.1	254.1	218.0	188.0	162.0	138.0	112.0	90.0	70.0	54.0
0°	346.1	296.1	254.1	218.0	188.0	162.0	138.0	112.0	90.0	70.0	54.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	0.0	0.0
85°	4.0	2.0	2.0	0.0
82.5°	6.0	4.0	2.0	0.0
80°	8.0	4.0	2.0	0.0
77.5°	10.0	6.0	4.0	0.0
75°	10.0	8.0	4.0	0.0
72.5°	12.0	8.0	4.0	0.0
70°	14.0	10.0	4.0	0.0
67.5°	16.0	10.0	6.0	0.0
65°	18.0	12.0	6.0	0.0
62.5°	18.0	12.0	6.0	0.0
60°	20.0	14.0	6.0	0.0
57.5°	22.0	14.0	8.0	0.0
55°	22.0	16.0	8.0	0.0
52.5°	24.0	16.0	8.0	0.0
50°	26.0	18.0	8.0	0.0
47.5°	26.0	18.0	10.0	0.0
45°	28.0	18.0	10.0	0.0
42.5°	28.0	20.0	10.0	0.0
40°	30.0	20.0	10.0	0.0
37.5°	32.0	22.0	12.0	0.0
35°	32.0	22.0	12.0	0.0
32.5°	34.0	22.0	12.0	0.0
30°	34.0	22.0	12.0	0.0
27.5°	36.0	24.0	12.0	0.0
25°	36.0	24.0	12.0	0.0
22.5°	36.0	24.0	12.0	0.0
20°	38.0	24.0	14.0	0.0
17.5°	38.0	24.0	14.0	0.0
15°	38.0	26.0	14.0	0.0
12.5°	38.0	26.0	14.0	0.0
10°	40.0	26.0	14.0	0.0
7.5°	40.0	26.0	14.0	0.0
5°	40.0	26.0	14.0	0.0
2.5°	40.0	26.0	14.0	0.0
0°	40.0	26.0	14.0	0.0

(END OF REPORT)