

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: P623927

Luminaire Tested: **IFLD-S-SA2A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623927
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

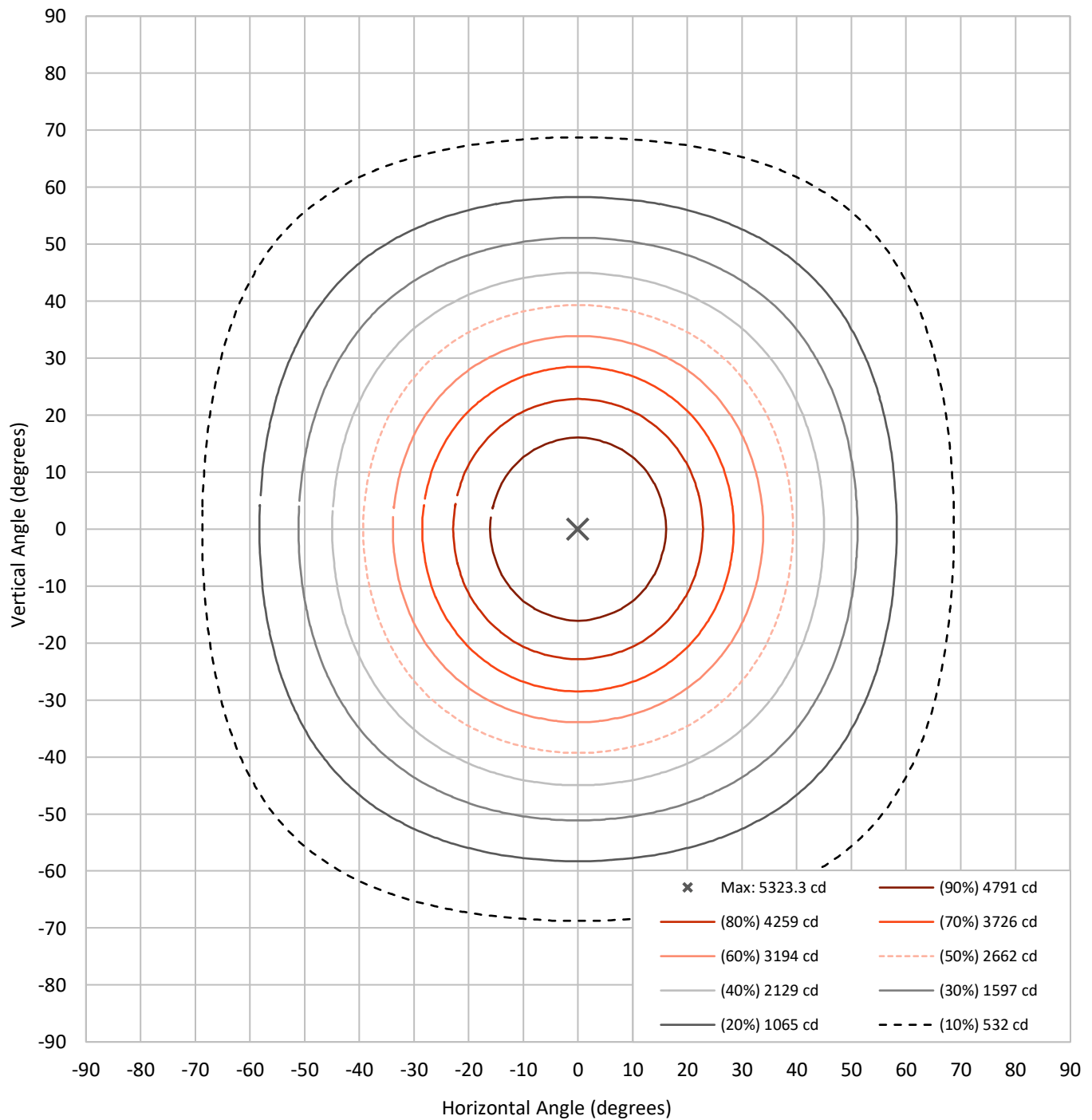
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9584.8 lumens	Max Intensity:	5323.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4147.3 lumens	Field Lumens:	6791 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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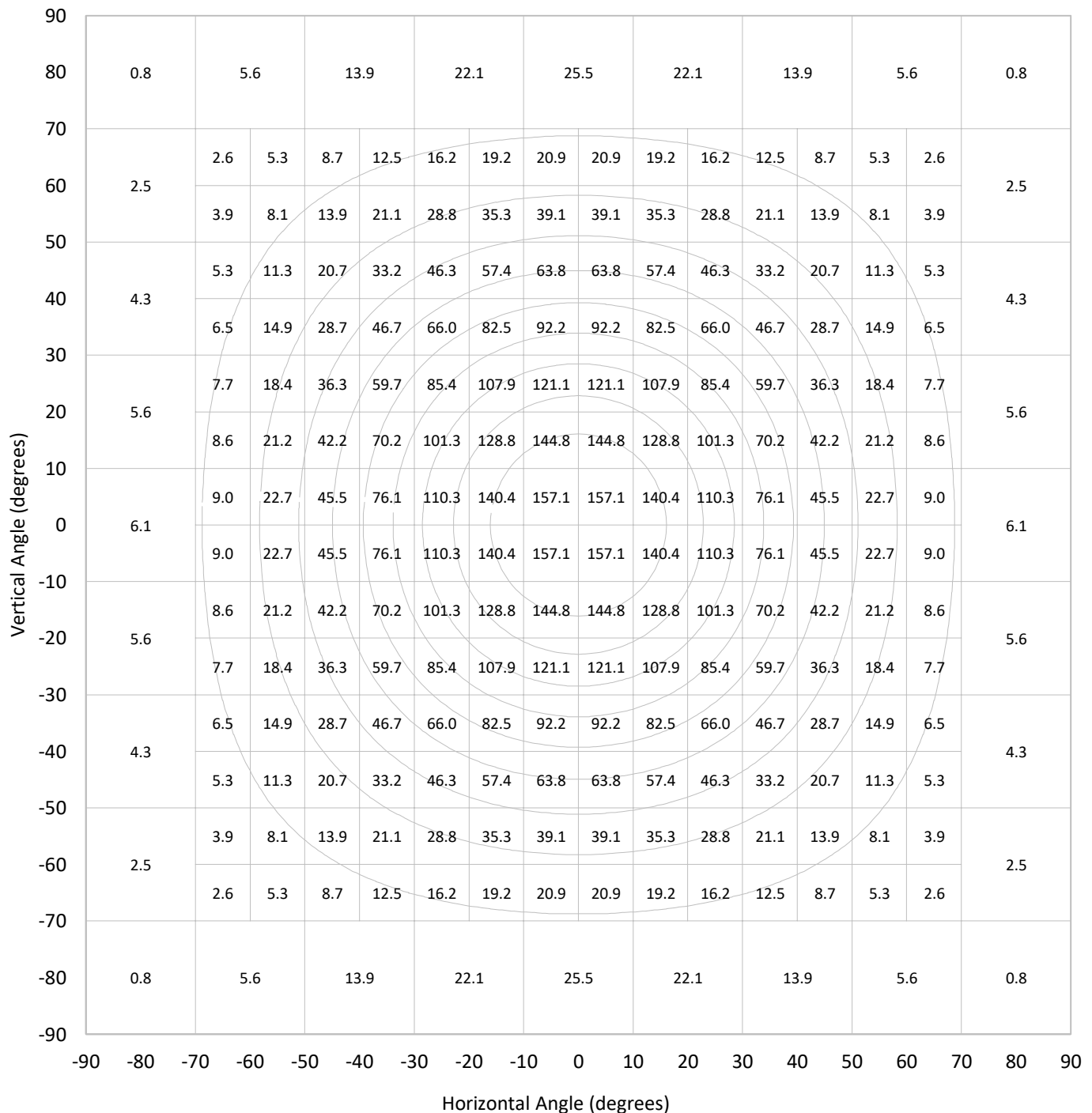
Iso-Candela Plot



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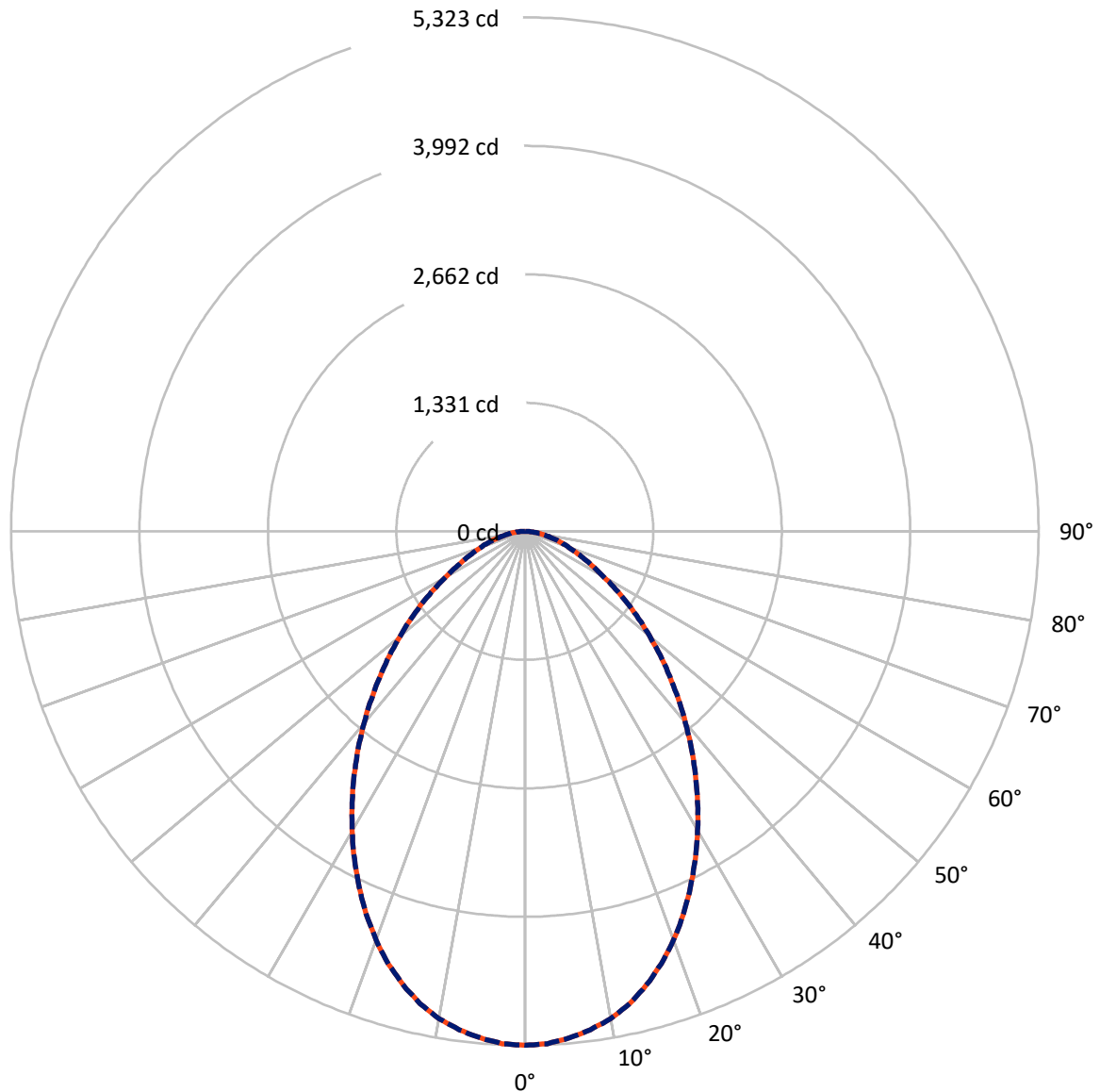
Lumen Table



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Luminous Intensity Polar Plot



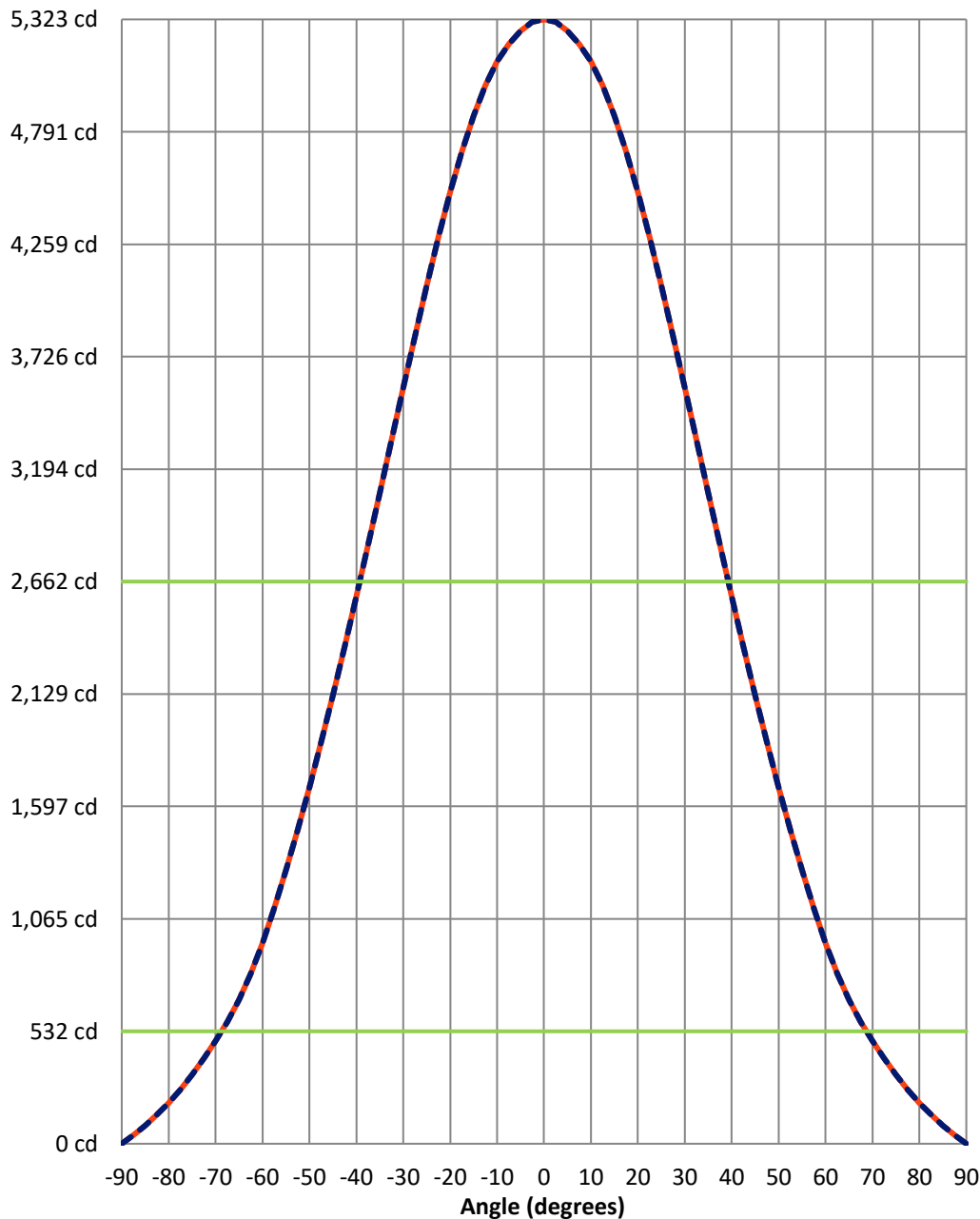
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4147.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6791
Efficiency: 70.9%

Spill:

Lumens: 2793.8
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°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	39.0	39.0	38.0	37.0
85°	85.9	85.9	85.9	85.9	85.9	83.9	82.9	81.9	80.9	78.9	77.9
82.5°	137.9	137.9	137.9	137.9	135.9	133.9	132.9	130.9	128.9	125.9	122.9
80°	192.9	192.9	192.9	192.9	189.9	187.9	184.9	182.9	179.9	175.9	171.9
77.5°	255.8	255.8	255.8	252.8	250.8	247.8	244.8	240.8	236.8	231.8	225.8
75°	326.8	326.8	326.8	322.8	319.8	316.8	311.8	306.8	300.8	293.8	285.8
72.5°	403.7	403.7	403.7	398.7	395.7	390.7	384.7	377.7	370.7	361.8	351.8
70°	486.7	486.7	486.7	480.7	475.7	470.7	462.7	454.7	444.7	434.7	422.7
67.5°	576.6	576.6	576.6	569.6	563.6	556.6	547.6	537.6	525.6	511.6	497.7
65°	681.5	681.5	677.5	671.5	664.5	654.6	643.6	629.6	614.6	596.6	577.6
62.5°	805.4	805.4	799.5	792.5	783.5	770.5	755.5	737.5	716.5	693.5	670.5
60°	949.3	949.3	942.4	933.4	920.4	904.4	884.4	861.4	835.4	806.4	778.5
57.5°	1115.2	1115.2	1106.2	1094.2	1078.3	1058.3	1033.3	1004.3	971.3	935.4	900.4
55°	1295.1	1295.1	1284.1	1270.1	1251.1	1227.2	1197.2	1163.2	1123.2	1082.3	1037.3
52.5°	1486.0	1486.0	1473.0	1457.0	1435.0	1407.0	1373.1	1333.1	1287.1	1239.1	1186.2
50°	1686.8	1686.8	1671.9	1653.9	1628.9	1595.9	1556.9	1511.0	1460.0	1404.0	1343.1
47.5°	1901.7	1901.7	1884.7	1863.7	1833.7	1795.8	1749.8	1696.8	1638.9	1575.9	1507.0
45°	2122.5	2122.5	2103.6	2079.6	2046.6	2003.6	1952.7	1901.7	1827.7	1754.8	1674.8
42.5°	2352.4	2352.4	2330.4	2303.4	2265.4	2218.5	2160.5	2094.6	2021.6	1939.7	1852.7
40°	2591.2	2591.2	2566.2	2535.3	2493.3	2439.3	2374.4	2300.4	2218.5	2127.5	2031.6
37.5°	2835.1	2835.1	2807.1	2773.1	2726.1	2666.2	2593.2	2511.3	2419.3	2318.4	2212.5
35°	3080.9	3080.9	3049.9	3012.9	2961.0	2895.0	2816.1	2725.1	2623.2	2513.3	2394.4
32.5°	3331.7	3331.7	3297.7	3255.8	3196.8	3123.9	3036.9	2938.0	2835.1	2707.1	2577.2
30°	3579.5	3579.5	3542.6	3496.6	3433.6	3353.7	3258.8	3149.8	3028.9	2898.0	2758.1
27.5°	3823.4	3813.4	3782.4	3733.4	3664.5	3579.5	3476.6	3358.7	3227.8	3083.9	2934.0
25°	4063.2	4052.2	4018.2	3964.3	3890.3	3797.4	3686.5	3560.6	3419.7	3267.8	3103.9
22.5°	4293.1	4281.1	4245.1	4187.1	4108.2	4007.2	3888.3	3753.4	3603.5	3440.6	3267.8
20°	4505.9	4492.9	4455.9	4395.0	4313.0	4206.1	4080.2	3935.3	3775.4	3603.5	3419.7
17.5°	4697.8	4684.8	4645.8	4582.9	4505.9	4387.0	4257.1	4104.2	3935.3	3753.4	3560.6
15°	4866.7	4852.7	4812.7	4749.7	4661.8	4549.9	4413.0	4257.1	4080.2	3888.3	3686.5
12.5°	5010.6	4996.6	4955.6	4892.6	4801.7	4689.8	4549.9	4387.0	4206.1	4007.2	3797.4
10°	5124.5	5110.5	5071.5	5011.6	4917.6	4801.7	4661.8	4505.9	4313.0	4108.2	3890.3
7.5°	5206.4	5193.4	5157.5	5097.5	5011.6	4892.6	4749.7	4582.9	4395.0	4187.1	3964.3
5°	5268.4	5253.4	5217.4	5157.5	5071.5	4955.6	4812.7	4645.8	4455.9	4245.1	4018.2
2.5°	5311.4	5293.4	5253.4	5193.4	5110.5	4996.6	4852.7	4684.8	4492.9	4281.1	4052.2
0°	5323.3	5311.4	5268.4	5206.4	5124.5	5010.6	4866.7	4697.8	4505.9	4293.1	4063.2

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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°	36.0	36.0	35.0	34.0	33.0	31.0	30.0	29.0	28.0	26.0	25.0
85°	75.9	73.9	72.0	70.0	67.0	65.0	62.0	60.0	57.0	54.0	51.0
82.5°	119.9	116.9	112.9	109.9	105.9	100.9	96.9	91.9	86.9	82.9	77.9
80°	167.9	162.9	157.9	152.9	146.9	140.9	134.9	128.9	121.9	114.9	107.9
77.5°	219.8	212.9	205.9	197.9	190.9	182.9	174.9	166.9	157.9	148.9	139.9
75°	277.8	268.8	258.8	248.8	239.8	228.8	217.9	206.9	194.9	183.9	171.9
72.5°	340.8	329.8	317.8	305.8	292.8	278.8	264.8	249.8	235.8	221.8	206.9
70°	408.7	395.7	380.7	365.7	349.8	332.8	315.8	297.8	279.8	261.8	243.8
67.5°	481.7	465.7	447.7	429.7	409.7	389.7	369.7	348.8	326.8	304.8	283.8
65°	559.6	539.6	518.6	495.7	472.7	449.7	425.7	400.7	375.7	349.8	326.8
62.5°	646.6	621.6	594.6	566.6	540.6	512.6	486.7	455.7	425.7	396.7	367.7
60°	747.5	714.5	681.5	646.6	613.6	577.6	545.6	511.6	477.7	444.7	410.7
57.5°	860.4	818.4	778.5	736.5	692.5	652.6	611.6	570.6	532.6	493.7	456.7
55°	988.3	937.4	887.4	835.4	784.5	734.5	682.5	636.6	589.6	545.6	502.7
52.5°	1128.2	1070.3	1008.3	949.3	884.4	822.4	764.5	706.5	651.6	598.6	549.6
50°	1278.1	1210.2	1139.2	1067.3	993.3	920.4	850.4	782.5	718.5	656.5	598.6
47.5°	1434.0	1357.1	1276.1	1194.2	1115.2	1026.3	942.4	865.4	788.5	718.5	651.6
45°	1593.9	1507.0	1418.0	1325.1	1232.2	1136.2	1043.3	949.3	865.4	782.5	706.5
42.5°	1758.8	1660.9	1561.9	1459.0	1356.1	1251.1	1146.2	1043.3	942.4	850.4	764.5
40°	1928.7	1820.7	1707.8	1595.9	1486.0	1366.1	1251.1	1136.2	1026.3	920.4	822.4
37.5°	2098.6	1980.6	1858.7	1732.8	1606.9	1486.0	1356.1	1232.2	1115.2	993.3	884.4
35°	2269.4	2139.5	2007.6	1870.7	1732.8	1595.9	1459.0	1325.1	1194.2	1067.3	949.3
32.5°	2441.3	2299.4	2153.5	2007.6	1858.7	1707.8	1561.9	1418.0	1276.1	1139.2	1008.3
30°	2610.2	2456.3	2299.4	2139.5	1980.6	1820.7	1660.9	1507.0	1357.1	1210.2	1070.3
27.5°	2775.1	2610.2	2441.3	2269.4	2098.6	1928.7	1758.8	1593.9	1434.0	1278.1	1128.2
25°	2934.0	2758.1	2577.2	2394.4	2212.5	2031.6	1852.7	1674.8	1507.0	1343.1	1186.2
22.5°	3083.9	2898.0	2707.1	2513.3	2318.4	2127.5	1939.7	1754.8	1575.9	1404.0	1239.1
20°	3227.8	3028.9	2835.1	2623.2	2419.3	2218.5	2021.6	1827.7	1638.9	1460.0	1287.1
17.5°	3358.7	3149.8	2938.0	2725.1	2511.3	2300.4	2094.6	1901.7	1696.8	1511.0	1333.1
15°	3476.6	3258.8	3036.9	2816.1	2593.2	2374.4	2160.5	1952.7	1749.8	1556.9	1373.1
12.5°	3579.5	3353.7	3123.9	2895.0	2666.2	2439.3	2218.5	2003.6	1795.8	1595.9	1407.0
10°	3664.5	3433.6	3196.8	2961.0	2726.1	2493.3	2265.4	2046.6	1833.7	1628.9	1435.0
7.5°	3733.4	3496.6	3255.8	3012.9	2773.1	2535.3	2303.4	2079.6	1863.7	1653.9	1457.0
5°	3782.4	3542.6	3297.7	3049.9	2807.1	2566.2	2330.4	2103.6	1884.7	1671.9	1473.0
2.5°	3813.4	3579.5	3331.7	3080.9	2835.1	2591.2	2352.4	2122.5	1901.7	1686.8	1486.0
0°	3823.4	3579.5	3331.7	3080.9	2835.1	2591.2	2352.4	2122.5	1901.7	1686.8	1486.0

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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°	24.0	22.0	20.0	19.0	17.0	16.0	14.0	12.0	11.0	9.0	7.0
85°	48.0	44.0	41.0	38.0	35.0	31.0	28.0	25.0	21.0	18.0	14.0
82.5°	72.9	68.0	63.0	58.0	53.0	48.0	42.0	37.0	32.0	27.0	21.0
80°	100.9	92.9	85.9	78.9	72.0	65.0	57.0	50.0	42.0	35.0	28.0
77.5°	129.9	120.9	110.9	100.9	90.9	81.9	72.0	63.0	54.0	44.0	35.0
75°	160.9	148.9	137.9	124.9	112.9	99.9	87.9	75.9	65.0	54.0	42.0
72.5°	192.9	177.9	162.9	148.9	133.9	118.9	104.9	89.9	75.9	63.0	50.0
70°	225.8	207.9	189.9	172.9	155.9	137.9	121.9	104.9	87.9	72.0	57.0
67.5°	260.8	239.8	218.8	196.9	177.9	157.9	137.9	118.9	99.9	81.9	65.0
65°	298.8	273.8	247.8	224.8	199.9	177.9	155.9	133.9	112.9	90.9	72.0
62.5°	337.8	308.8	279.8	250.8	224.8	196.9	172.9	148.9	124.9	100.9	78.9
60°	377.7	344.8	311.8	279.8	247.8	218.8	189.9	162.9	137.9	110.9	85.9
57.5°	418.7	381.7	344.8	308.8	273.8	239.8	207.9	177.9	148.9	120.9	92.9
55°	460.7	418.7	377.7	337.8	298.8	260.8	225.8	192.9	160.9	129.9	100.9
52.5°	502.7	456.7	410.7	367.7	326.8	283.8	243.8	206.9	171.9	139.9	107.9
50°	545.6	493.7	444.7	396.7	349.8	304.8	261.8	221.8	183.9	148.9	114.9
47.5°	589.6	532.6	477.7	425.7	375.7	326.8	279.8	235.8	194.9	157.9	121.9
45°	636.6	570.6	511.6	455.7	400.7	348.8	297.8	249.8	206.9	166.9	128.9
42.5°	682.5	611.6	545.6	486.7	425.7	369.7	315.8	264.8	217.9	174.9	134.9
40°	734.5	652.6	577.6	512.6	449.7	389.7	332.8	278.8	228.8	182.9	140.9
37.5°	784.5	692.5	613.6	540.6	472.7	409.7	349.8	292.8	239.8	190.9	146.9
35°	835.4	736.5	646.6	566.6	495.7	429.7	365.7	305.8	248.8	197.9	152.9
32.5°	887.4	778.5	681.5	594.6	518.6	447.7	380.7	317.8	258.8	205.9	157.9
30°	937.4	818.4	714.5	621.6	539.6	465.7	395.7	329.8	268.8	212.9	162.9
27.5°	988.3	860.4	747.5	646.6	559.6	481.7	408.7	340.8	277.8	219.8	167.9
25°	1037.3	900.4	778.5	670.5	577.6	497.7	422.7	351.8	285.8	225.8	171.9
22.5°	1082.3	935.4	806.4	693.5	596.6	511.6	434.7	361.8	293.8	231.8	175.9
20°	1123.2	971.3	835.4	716.5	614.6	525.6	444.7	370.7	300.8	236.8	179.9
17.5°	1163.2	1004.3	861.4	737.5	629.6	537.6	454.7	377.7	306.8	240.8	182.9
15°	1197.2	1033.3	884.4	755.5	643.6	547.6	462.7	384.7	311.8	244.8	184.9
12.5°	1227.2	1058.3	904.4	770.5	654.6	556.6	470.7	390.7	316.8	247.8	187.9
10°	1251.1	1078.3	920.4	783.5	664.5	563.6	475.7	395.7	319.8	250.8	189.9
7.5°	1270.1	1094.2	933.4	792.5	671.5	569.6	480.7	398.7	322.8	252.8	192.9
5°	1284.1	1106.2	942.4	799.5	677.5	576.6	486.7	403.7	326.8	255.8	192.9
2.5°	1295.1	1115.2	949.3	805.4	681.5	576.6	486.7	403.7	326.8	255.8	192.9
0°	1295.1	1115.2	949.3	805.4	681.5	576.6	486.7	403.7	326.8	255.8	192.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.0	4.0	2.0	0.0
85°	11.0	7.0	4.0	0.0
82.5°	16.0	11.0	5.0	0.0
80°	21.0	14.0	7.0	0.0
77.5°	27.0	18.0	9.0	0.0
75°	32.0	21.0	11.0	0.0
72.5°	37.0	25.0	12.0	0.0
70°	42.0	28.0	14.0	0.0
67.5°	48.0	31.0	16.0	0.0
65°	53.0	35.0	17.0	0.0
62.5°	58.0	38.0	19.0	0.0
60°	63.0	41.0	20.0	0.0
57.5°	68.0	44.0	22.0	0.0
55°	72.9	48.0	24.0	0.0
52.5°	77.9	51.0	25.0	0.0
50°	82.9	54.0	26.0	0.0
47.5°	86.9	57.0	28.0	0.0
45°	91.9	60.0	29.0	0.0
42.5°	96.9	62.0	30.0	0.0
40°	100.9	65.0	31.0	0.0
37.5°	105.9	67.0	33.0	0.0
35°	109.9	70.0	34.0	0.0
32.5°	112.9	72.0	35.0	0.0
30°	116.9	73.9	36.0	0.0
27.5°	119.9	75.9	36.0	0.0
25°	122.9	77.9	37.0	0.0
22.5°	125.9	78.9	38.0	0.0
20°	128.9	80.9	39.0	0.0
17.5°	130.9	81.9	39.0	0.0
15°	132.9	82.9	41.0	0.0
12.5°	133.9	83.9	41.0	0.0
10°	135.9	85.9	41.0	0.0
7.5°	137.9	85.9	41.0	0.0
5°	137.9	85.9	41.0	0.0
2.5°	137.9	85.9	41.0	0.0
0°	137.9	85.9	41.0	0.0

(END OF REPORT)