

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: P623957

Luminaire Tested: **IFLD-S-SA2B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623957
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

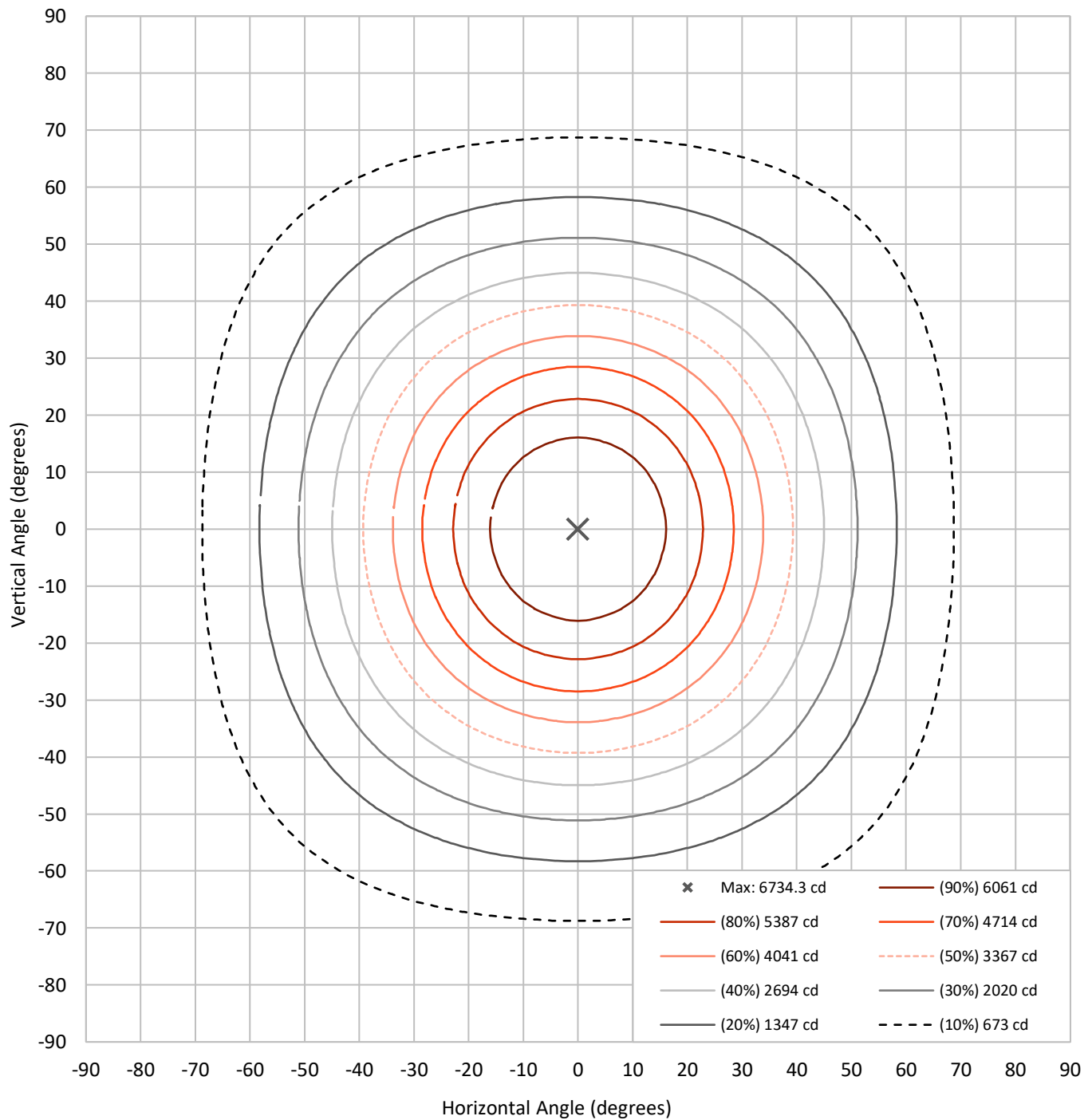
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12125.3 lumens	Max Intensity:	6734.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5246.5 lumens	Field Lumens:	8590.9 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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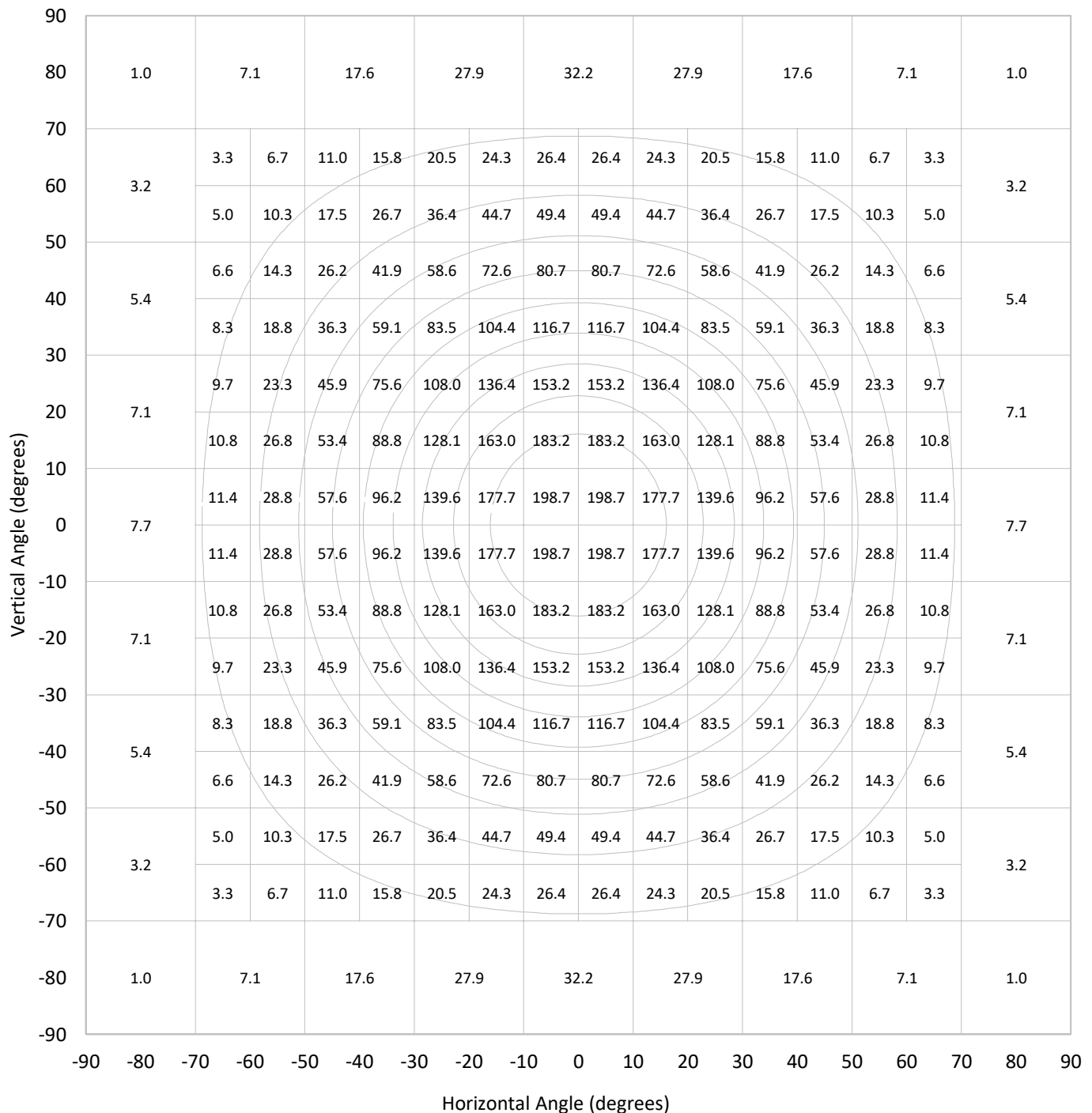
CATALOG NUMBER: IFLD-S-SA2B-750-U-77

Iso-Candela Plot



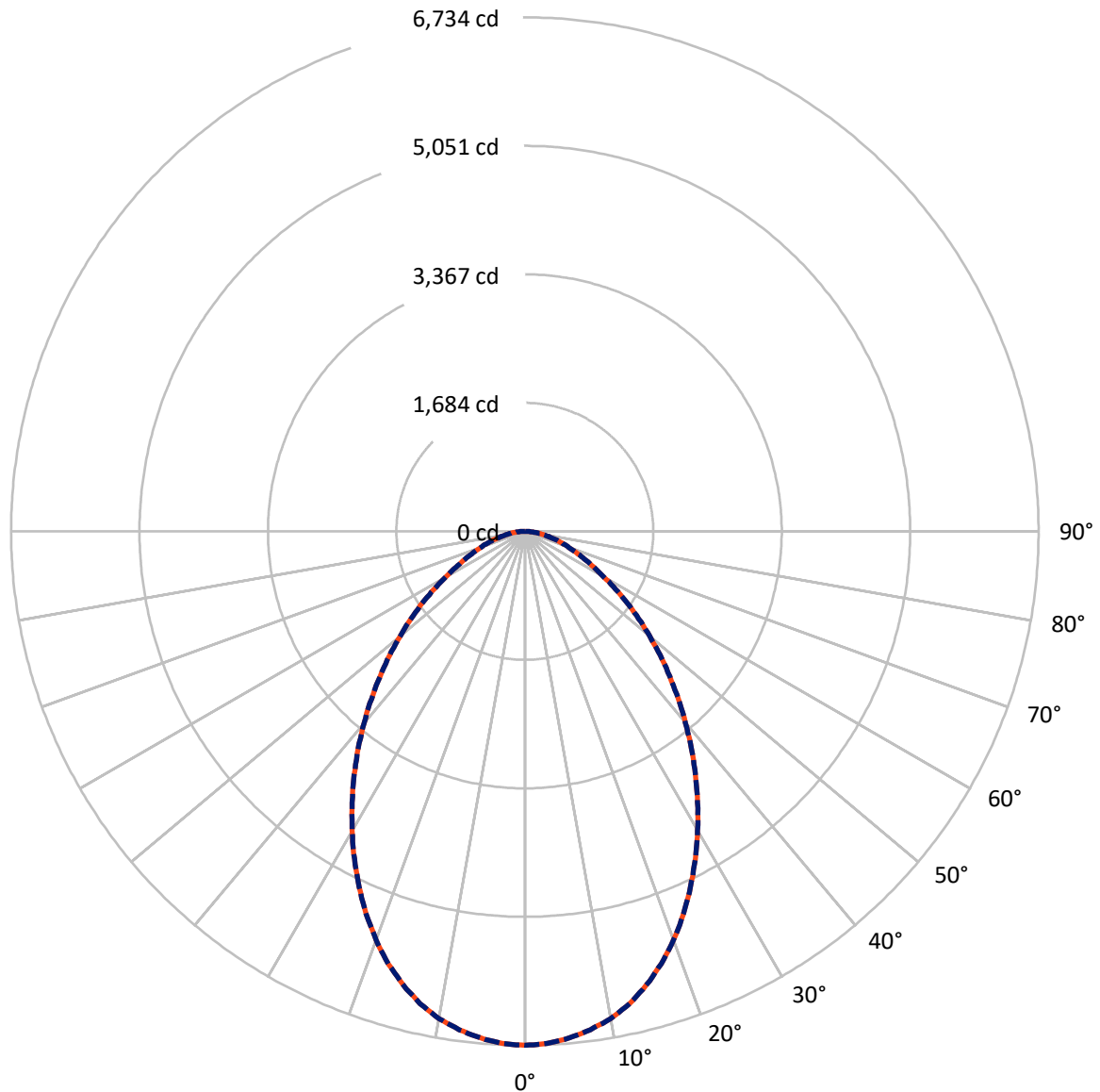
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Lumen Table



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Luminous Intensity Polar Plot

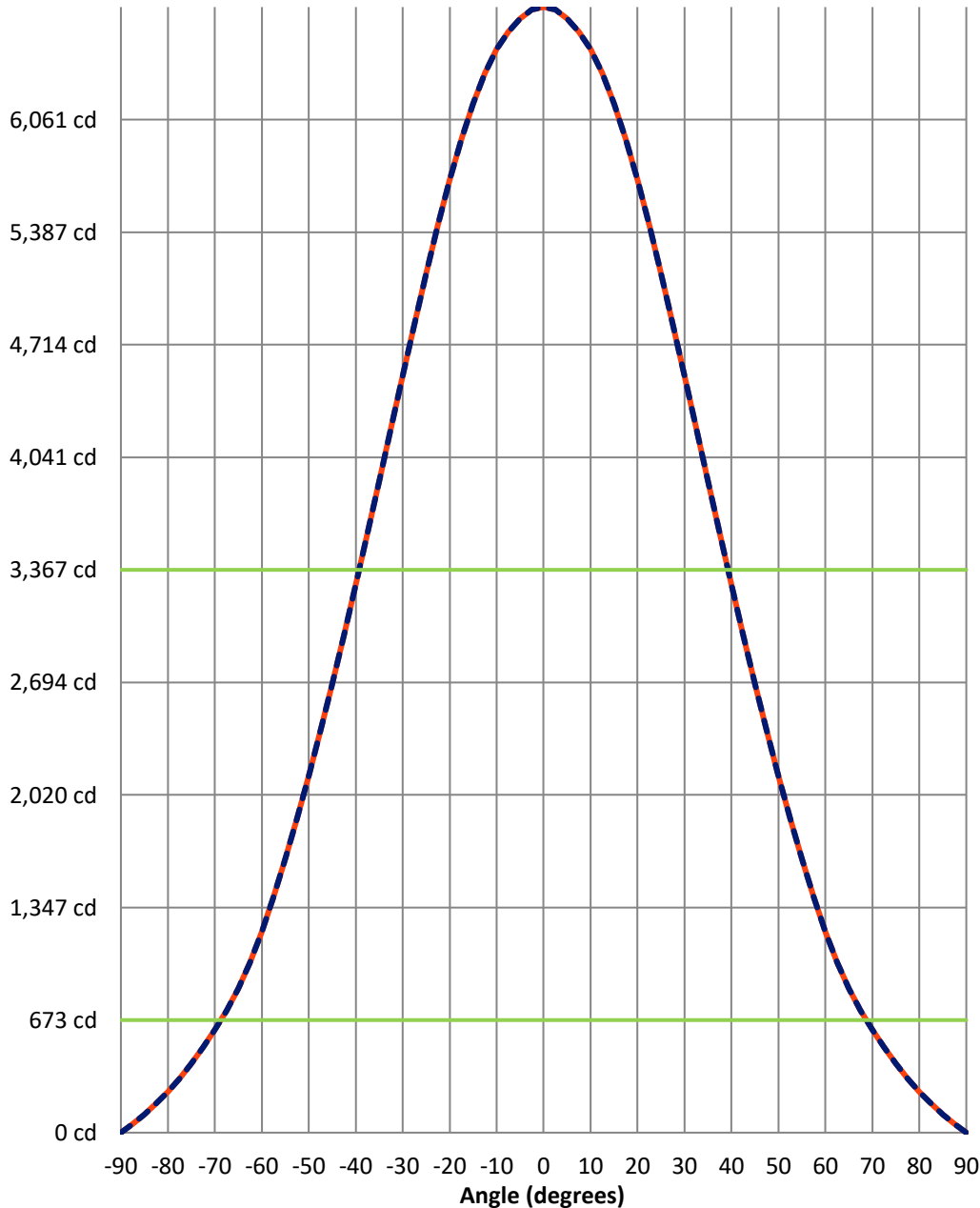


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 5246.5
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 8590.9
Efficiency: 70.9%

Spill:
Lumens: 3534.3
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°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	49.3	49.3	48.0	46.8
85°	108.7	108.7	108.7	108.7	108.7	106.2	104.9	103.7	102.4	99.9	98.6
82.5°	174.5	174.5	174.5	174.5	171.9	169.4	168.1	165.6	163.1	159.3	155.5
80°	244.0	244.0	244.0	244.0	240.2	237.7	233.9	231.3	227.6	222.5	217.4
77.5°	323.6	323.6	323.6	319.8	317.3	313.5	309.7	304.7	299.6	293.3	285.7
75°	413.4	413.4	413.4	408.3	404.5	400.7	394.4	388.1	380.5	371.7	361.6
72.5°	510.7	510.7	510.7	504.4	500.6	494.3	486.7	477.9	469.0	457.6	445.0
70°	615.7	615.7	615.7	608.1	601.8	595.4	585.3	575.2	562.6	549.9	534.7
67.5°	729.4	729.4	729.4	720.6	713.0	704.2	692.8	680.1	665.0	647.3	629.6
65°	862.2	862.2	857.1	849.5	840.7	828.0	814.1	796.4	777.5	754.7	730.7
62.5°	1018.9	1018.9	1011.3	1002.5	991.1	974.7	955.7	933.0	906.4	877.3	848.3
60°	1201.0	1201.0	1192.1	1180.7	1164.3	1144.1	1118.8	1089.7	1056.9	1020.2	984.8
57.5°	1410.8	1410.8	1399.5	1384.3	1364.1	1338.8	1307.2	1270.5	1228.8	1183.3	1139.0
55°	1638.4	1638.4	1624.5	1606.8	1582.8	1552.4	1514.5	1471.5	1420.9	1369.1	1312.2
52.5°	1879.8	1879.8	1863.4	1843.2	1815.4	1780.0	1737.0	1686.4	1628.3	1567.6	1500.6
50°	2133.9	2133.9	2115.0	2092.2	2060.6	2018.9	1969.6	1911.4	1847.0	1776.2	1699.1
47.5°	2405.7	2405.7	2384.3	2357.7	2319.8	2271.7	2213.6	2146.6	2073.3	1993.6	1906.4
45°	2685.1	2685.1	2661.1	2630.8	2589.0	2534.7	2470.2	2405.7	2312.2	2219.9	2118.8
42.5°	2975.9	2975.9	2948.1	2913.9	2865.9	2806.5	2733.2	2649.7	2557.4	2453.8	2343.8
40°	3278.0	3278.0	3246.4	3207.2	3154.1	3085.9	3003.7	2910.2	2806.5	2691.4	2570.1
37.5°	3586.5	3586.5	3551.1	3508.1	3448.7	3372.8	3280.6	3176.9	3060.6	2932.9	2798.9
35°	3897.5	3897.5	3858.3	3811.5	3745.8	3662.3	3562.5	3447.4	3318.5	3179.4	3029.0
32.5°	4214.8	4214.8	4171.8	4118.7	4044.1	3951.8	3841.9	3716.7	3586.5	3424.7	3260.3
30°	4528.3	4528.3	4481.5	4423.4	4343.7	4242.6	4122.5	3984.7	3831.7	3666.1	3489.1
27.5°	4836.8	4824.1	4784.9	4723.0	4635.8	4528.3	4398.1	4248.9	4083.3	3901.3	3711.6
25°	5140.2	5126.3	5083.3	5015.0	4921.5	4803.9	4663.6	4504.3	4326.0	4133.9	3926.6
22.5°	5430.9	5415.8	5370.3	5296.9	5197.1	5069.4	4918.9	4748.3	4558.6	4352.6	4133.9
20°	5700.2	5683.8	5637.0	5559.9	5456.2	5320.9	5161.7	4978.4	4776.1	4558.6	4326.0
17.5°	5942.9	5926.5	5877.2	5797.5	5700.2	5549.8	5385.4	5192.0	4978.4	4748.3	4504.3
15°	6156.6	6138.9	6088.3	6008.7	5897.4	5755.8	5582.6	5385.4	5161.7	4918.9	4663.6
12.5°	6338.6	6320.9	6269.1	6189.4	6074.4	5932.8	5755.8	5549.8	5320.9	5069.4	4803.9
10°	6482.7	6465.0	6415.7	6339.9	6221.0	6074.4	5897.4	5700.2	5456.2	5197.1	4921.5
7.5°	6586.4	6570.0	6524.5	6448.6	6339.9	6189.4	6008.7	5797.5	5559.9	5296.9	5015.0
5°	6664.8	6645.8	6600.3	6524.5	6415.7	6269.1	6088.3	5877.2	5637.0	5370.3	5083.3
2.5°	6719.1	6696.4	6645.8	6570.0	6465.0	6320.9	6138.9	5926.5	5683.8	5415.8	5126.3
0°	6734.3	6719.1	6664.8	6586.4	6482.7	6338.6	6156.6	5942.9	5700.2	5430.9	5140.2

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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°	45.5	45.5	44.2	43.0	41.7	39.2	37.9	36.7	35.4	32.9	31.6
85°	96.1	93.5	91.0	88.5	84.7	82.2	78.4	75.9	72.1	68.3	64.5
82.5°	151.7	147.9	142.9	139.1	134.0	127.7	122.6	116.3	110.0	104.9	98.6
80°	212.4	206.1	199.7	193.4	185.8	178.2	170.7	163.1	154.2	145.4	136.5
77.5°	278.1	269.3	260.4	250.3	241.5	231.3	221.2	211.1	199.7	188.4	177.0
75°	351.4	340.1	327.4	314.8	303.4	289.5	275.6	261.7	246.5	232.6	217.4
72.5°	431.1	417.2	402.0	386.8	370.4	352.7	335.0	316.0	298.3	280.6	261.7
70°	517.1	500.6	481.7	462.7	442.5	421.0	399.5	376.7	354.0	331.2	308.5
67.5°	609.3	589.1	566.4	543.6	518.3	493.0	467.7	441.2	413.4	385.6	359.0
65°	707.9	682.7	656.1	627.0	598.0	568.9	538.5	506.9	475.3	442.5	413.4
62.5°	817.9	786.3	752.2	716.8	683.9	648.5	615.7	576.5	538.5	501.9	465.2
60°	945.6	903.9	862.2	817.9	776.2	730.7	690.2	647.3	604.3	562.6	519.6
57.5°	1088.5	1035.4	984.8	931.7	876.1	825.5	773.7	721.8	673.8	624.5	577.7
55°	1250.3	1185.8	1122.6	1056.9	992.4	929.2	863.4	805.3	745.9	690.2	635.9
52.5°	1427.3	1353.9	1275.6	1201.0	1118.8	1040.4	967.1	893.8	824.2	757.2	695.3
50°	1616.9	1530.9	1441.2	1350.1	1256.6	1164.3	1075.8	989.9	908.9	830.6	757.2
47.5°	1814.1	1716.8	1614.4	1510.7	1410.8	1298.3	1192.1	1094.8	997.4	908.9	824.2
45°	2016.4	1906.4	1793.9	1676.3	1558.7	1437.4	1319.8	1201.0	1094.8	989.9	893.8
42.5°	2225.0	2101.1	1975.9	1845.7	1715.5	1582.8	1450.0	1319.8	1192.1	1075.8	967.1
40°	2439.9	2303.3	2160.5	2018.9	1879.8	1728.1	1582.8	1437.4	1298.3	1164.3	1040.4
37.5°	2654.8	2505.6	2351.4	2192.1	2032.8	1879.8	1715.5	1558.7	1410.8	1256.6	1118.8
35°	2871.0	2706.6	2539.7	2366.6	2192.1	2018.9	1845.7	1676.3	1510.7	1350.1	1201.0
32.5°	3088.4	2908.9	2724.3	2539.7	2351.4	2160.5	1975.9	1793.9	1614.4	1441.2	1275.6
30°	3302.0	3107.4	2908.9	2706.6	2505.6	2303.3	2101.1	1906.4	1716.8	1530.9	1353.9
27.5°	3510.6	3302.0	3088.4	2871.0	2654.8	2439.9	2225.0	2016.4	1814.1	1616.9	1427.3
25°	3711.6	3489.1	3260.3	3029.0	2798.9	2570.1	2343.8	2118.8	1906.4	1699.1	1500.6
22.5°	3901.3	3666.1	3424.7	3179.4	2932.9	2691.4	2453.8	2219.9	1993.6	1776.2	1567.6
20°	4083.3	3831.7	3586.5	3318.5	3060.6	2806.5	2557.4	2312.2	2073.3	1847.0	1628.3
17.5°	4248.9	3984.7	3716.7	3447.4	3176.9	2910.2	2649.7	2405.7	2146.6	1911.4	1686.4
15°	4398.1	4122.5	3841.9	3562.5	3280.6	3003.7	2733.2	2470.2	2213.6	1969.6	1737.0
12.5°	4528.3	4242.6	3951.8	3662.3	3372.8	3085.9	2806.5	2534.7	2271.7	2018.9	1780.0
10°	4635.8	4343.7	4044.1	3745.8	3448.7	3154.1	2865.9	2589.0	2319.8	2060.6	1815.4
7.5°	4723.0	4423.4	4118.7	3811.5	3508.1	3207.2	2913.9	2630.8	2357.7	2092.2	1843.2
5°	4784.9	4481.5	4171.8	3858.3	3551.1	3246.4	2948.1	2661.1	2384.3	2115.0	1863.4
2.5°	4824.1	4528.3	4214.8	3897.5	3586.5	3278.0	2975.9	2685.1	2405.7	2133.9	1879.8
0°	4836.8	4528.3	4214.8	3897.5	3586.5	3278.0	2975.9	2685.1	2405.7	2133.9	1879.8

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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°	30.3	27.8	25.3	24.0	21.5	20.2	17.7	15.2	13.9	11.4	8.8
85°	60.7	55.6	51.8	48.0	44.2	39.2	35.4	31.6	26.5	22.8	17.7
82.5°	92.3	86.0	79.6	73.3	67.0	60.7	53.1	46.8	40.5	34.1	26.5
80°	127.7	117.6	108.7	99.9	91.0	82.2	72.1	63.2	53.1	44.2	35.4
77.5°	164.3	153.0	140.3	127.7	115.0	103.7	91.0	79.6	68.3	55.6	44.2
75°	203.5	188.4	174.5	158.0	142.9	126.4	111.2	96.1	82.2	68.3	53.1
72.5°	244.0	225.0	206.1	188.4	169.4	150.4	132.7	113.8	96.1	79.6	63.2
70°	285.7	263.0	240.2	218.7	197.2	174.5	154.2	132.7	111.2	91.0	72.1
67.5°	330.0	303.4	276.9	249.0	225.0	199.7	174.5	150.4	126.4	103.7	82.2
65°	378.0	346.4	313.5	284.4	252.8	225.0	197.2	169.4	142.9	115.0	91.0
62.5°	427.3	390.6	354.0	317.3	284.4	249.0	218.7	188.4	158.0	127.7	99.9
60°	477.9	436.1	394.4	354.0	313.5	276.9	240.2	206.1	174.5	140.3	108.7
57.5°	529.7	482.9	436.1	390.6	346.4	303.4	263.0	225.0	188.4	153.0	117.6
55°	582.8	529.7	477.9	427.3	378.0	330.0	285.7	244.0	203.5	164.3	127.7
52.5°	635.9	577.7	519.6	465.2	413.4	359.0	308.5	261.7	217.4	177.0	136.5
50°	690.2	624.5	562.6	501.9	442.5	385.6	331.2	280.6	232.6	188.4	145.4
47.5°	745.9	673.8	604.3	538.5	475.3	413.4	354.0	298.3	246.5	199.7	154.2
45°	805.3	721.8	647.3	576.5	506.9	441.2	376.7	316.0	261.7	211.1	163.1
42.5°	863.4	773.7	690.2	615.7	538.5	467.7	399.5	335.0	275.6	221.2	170.7
40°	929.2	825.5	730.7	648.5	568.9	493.0	421.0	352.7	289.5	231.3	178.2
37.5°	992.4	876.1	776.2	683.9	598.0	518.3	442.5	370.4	303.4	241.5	185.8
35°	1056.9	931.7	817.9	716.8	627.0	543.6	462.7	386.8	314.8	250.3	193.4
32.5°	1122.6	984.8	862.2	752.2	656.1	566.4	481.7	402.0	327.4	260.4	199.7
30°	1185.8	1035.4	903.9	786.3	682.7	589.1	500.6	417.2	340.1	269.3	206.1
27.5°	1250.3	1088.5	945.6	817.9	707.9	609.3	517.1	431.1	351.4	278.1	212.4
25°	1312.2	1139.0	984.8	848.3	730.7	629.6	534.7	445.0	361.6	285.7	217.4
22.5°	1369.1	1183.3	1020.2	877.3	754.7	647.3	549.9	457.6	371.7	293.3	222.5
20°	1420.9	1228.8	1056.9	906.4	777.5	665.0	562.6	469.0	380.5	299.6	227.6
17.5°	1471.5	1270.5	1089.7	933.0	796.4	680.1	575.2	477.9	388.1	304.7	231.3
15°	1514.5	1307.2	1118.8	955.7	814.1	692.8	585.3	486.7	394.4	309.7	233.9
12.5°	1552.4	1338.8	1144.1	974.7	828.0	704.2	595.4	494.3	400.7	313.5	237.7
10°	1582.8	1364.1	1164.3	991.1	840.7	713.0	601.8	500.6	404.5	317.3	240.2
7.5°	1606.8	1384.3	1180.7	1002.5	849.5	720.6	608.1	504.4	408.3	319.8	244.0
5°	1624.5	1399.5	1192.1	1011.3	857.1	729.4	615.7	510.7	413.4	323.6	244.0
2.5°	1638.4	1410.8	1201.0	1018.9	862.2	729.4	615.7	510.7	413.4	323.6	244.0
0°	1638.4	1410.8	1201.0	1018.9	862.2	729.4	615.7	510.7	413.4	323.6	244.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	5.1	2.5	0.0
85°	13.9	8.8	5.1	0.0
82.5°	20.2	13.9	6.3	0.0
80°	26.5	17.7	8.8	0.0
77.5°	34.1	22.8	11.4	0.0
75°	40.5	26.5	13.9	0.0
72.5°	46.8	31.6	15.2	0.0
70°	53.1	35.4	17.7	0.0
67.5°	60.7	39.2	20.2	0.0
65°	67.0	44.2	21.5	0.0
62.5°	73.3	48.0	24.0	0.0
60°	79.6	51.8	25.3	0.0
57.5°	86.0	55.6	27.8	0.0
55°	92.3	60.7	30.3	0.0
52.5°	98.6	64.5	31.6	0.0
50°	104.9	68.3	32.9	0.0
47.5°	110.0	72.1	35.4	0.0
45°	116.3	75.9	36.7	0.0
42.5°	122.6	78.4	37.9	0.0
40°	127.7	82.2	39.2	0.0
37.5°	134.0	84.7	41.7	0.0
35°	139.1	88.5	43.0	0.0
32.5°	142.9	91.0	44.2	0.0
30°	147.9	93.5	45.5	0.0
27.5°	151.7	96.1	45.5	0.0
25°	155.5	98.6	46.8	0.0
22.5°	159.3	99.9	48.0	0.0
20°	163.1	102.4	49.3	0.0
17.5°	165.6	103.7	49.3	0.0
15°	168.1	104.9	51.8	0.0
12.5°	169.4	106.2	51.8	0.0
10°	171.9	108.7	51.8	0.0
7.5°	174.5	108.7	51.8	0.0
5°	174.5	108.7	51.8	0.0
2.5°	174.5	108.7	51.8	0.0
0°	174.5	108.7	51.8	0.0

(END OF REPORT)