

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: P624569

Luminaire Tested: **IFLD-M-SA4B-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624569
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

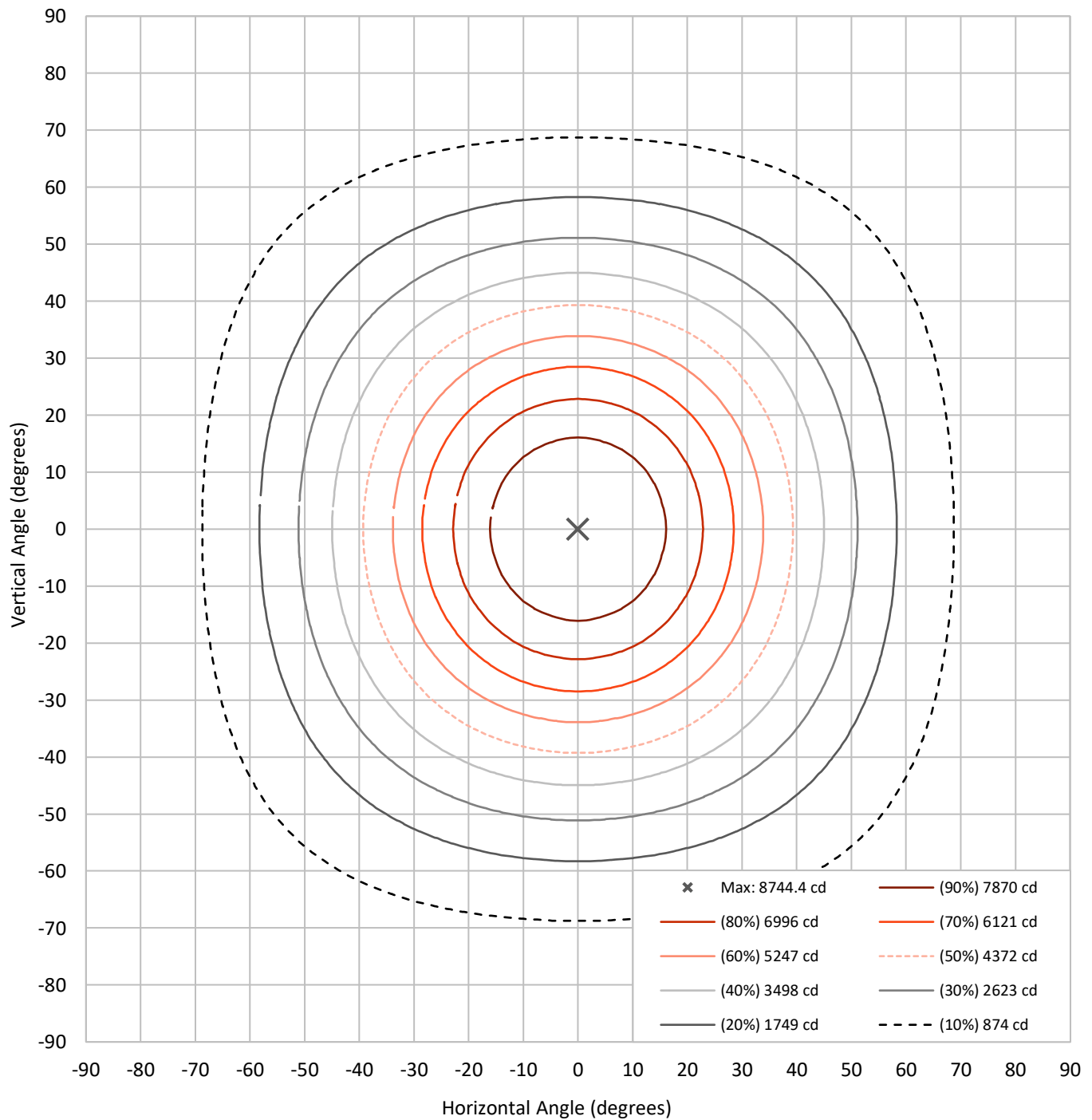
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15744.6 lumens	Max Intensity:	8744.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6812.5 lumens	Field Lumens:	11155.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
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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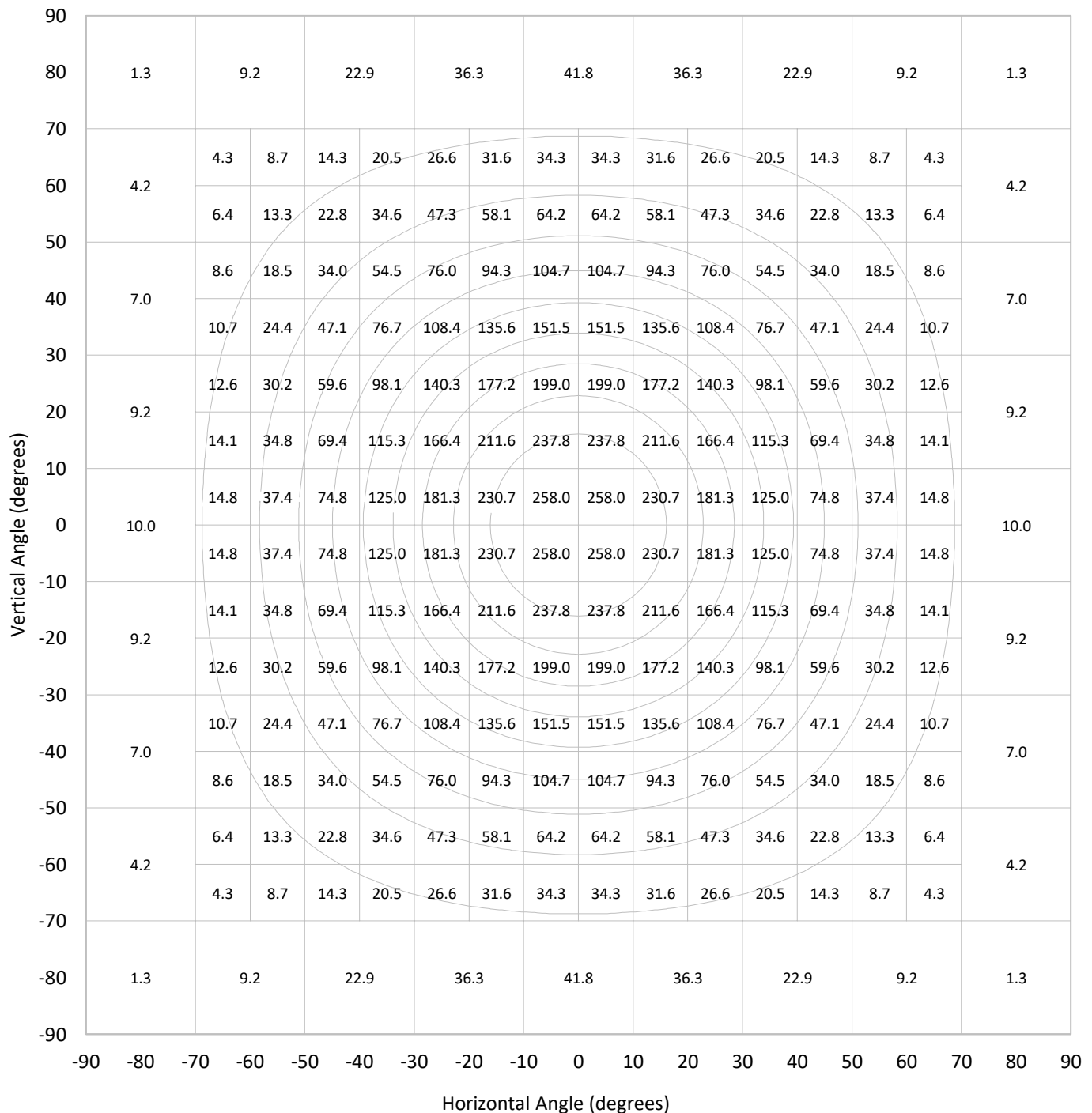
CATALOG NUMBER: IFLD-M-SA4B-935-U-77

Iso-Candela Plot



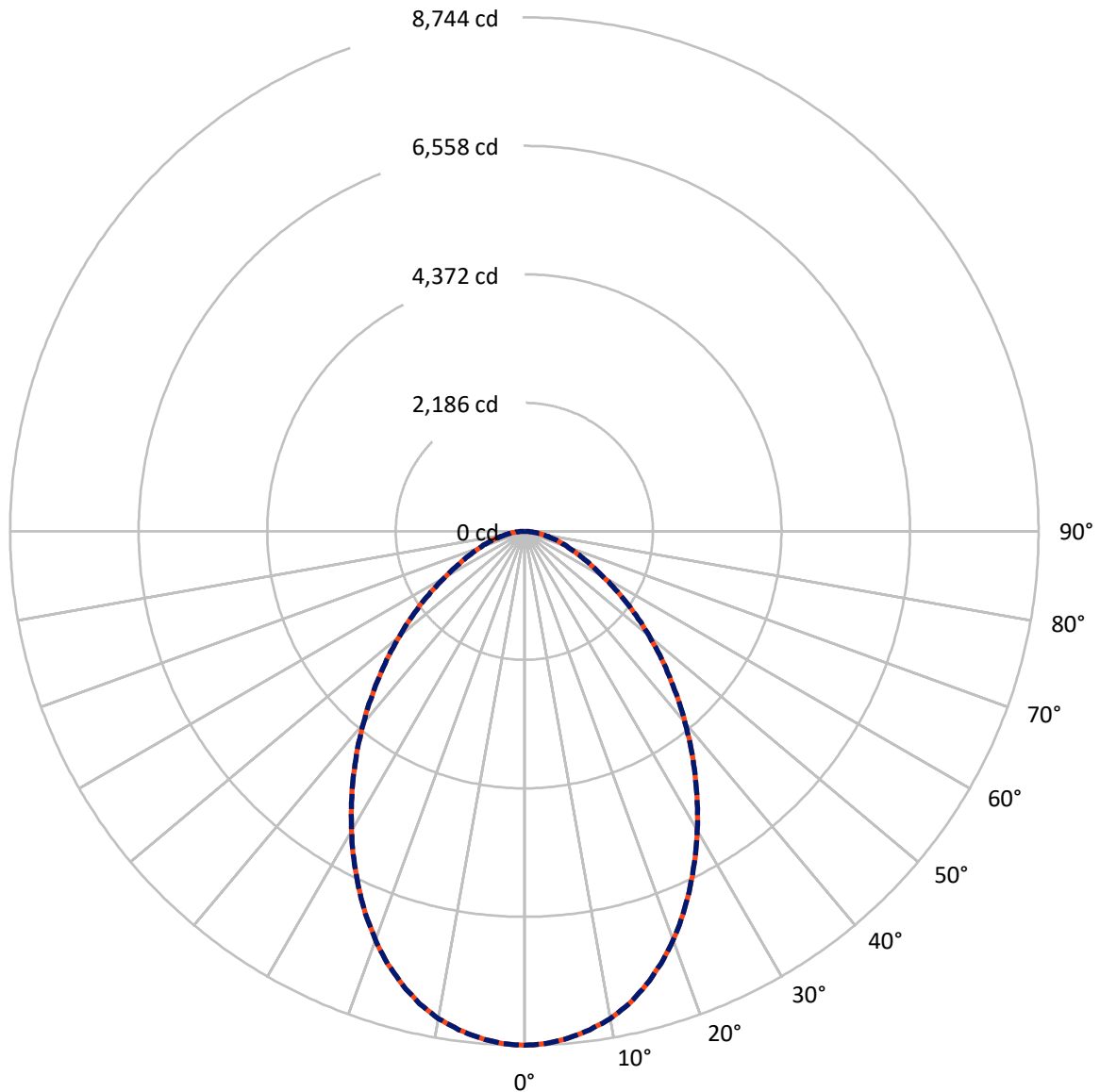
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Lumen Table



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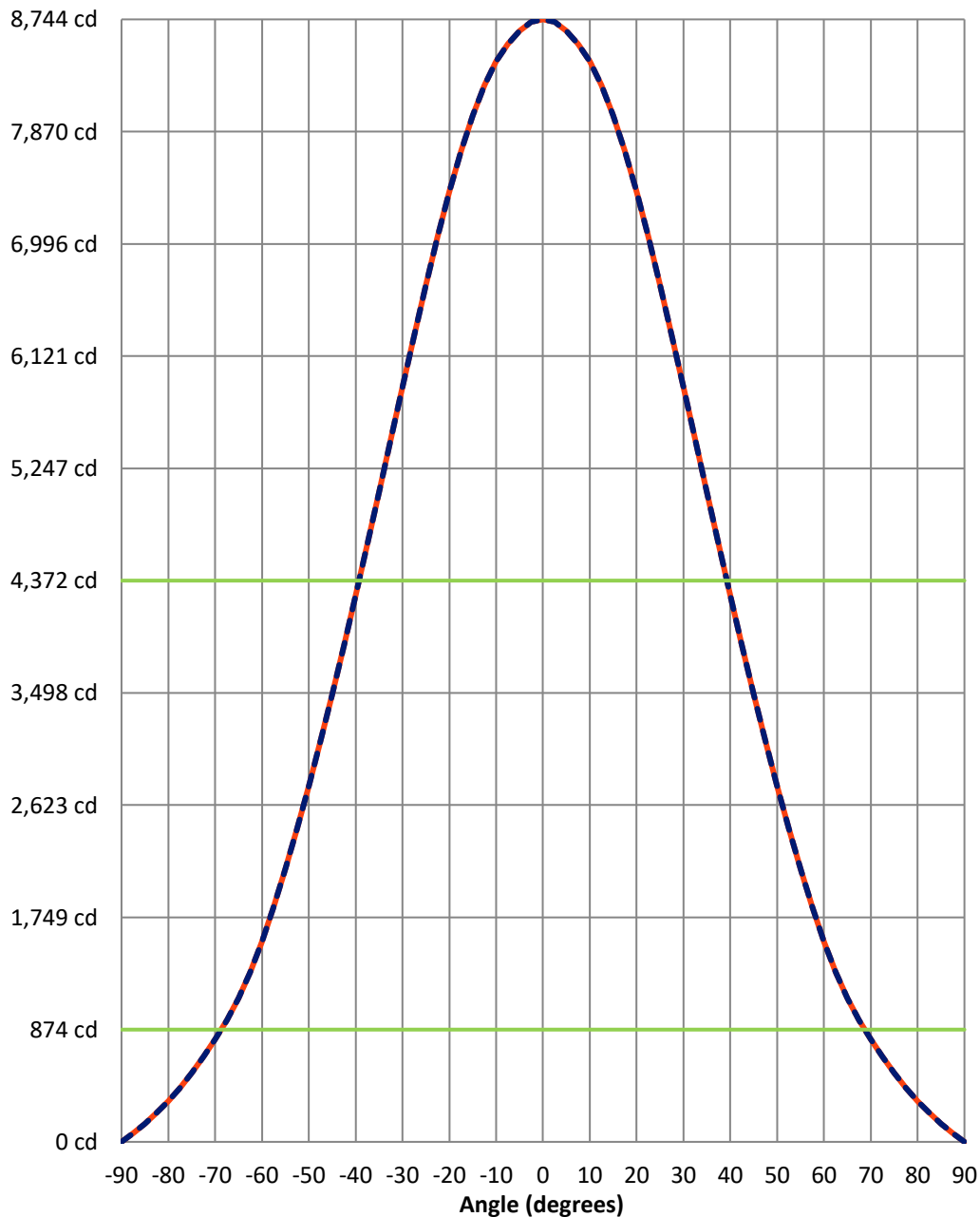
Luminous Intensity Polar Plot



— 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:	6812.5
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	11155.3
Efficiency:	70.9%

Spill:

Lumens:	4589.3
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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	64.0	64.0	62.4	60.7
85°	141.2	141.2	141.2	141.2	141.2	137.9	136.2	134.6	133.0	129.7	128.0
82.5°	226.5	226.5	226.5	226.5	223.2	220.0	218.3	215.0	211.8	206.8	201.9
80°	316.8	316.8	316.8	316.8	311.9	308.6	303.7	300.4	295.5	288.9	282.3
77.5°	420.2	420.2	420.2	415.3	412.0	407.1	402.2	395.6	389.0	380.8	371.0
75°	536.8	536.8	536.8	530.2	525.3	520.4	512.2	504.0	494.1	482.6	469.5
72.5°	663.2	663.2	663.2	655.0	650.0	641.8	632.0	620.5	609.0	594.2	577.8
70°	799.4	799.4	799.4	789.6	781.4	773.2	760.0	746.9	730.5	714.1	694.4
67.5°	947.2	947.2	947.2	935.7	925.8	914.3	899.6	883.1	863.4	840.5	817.5
65°	1119.5	1119.5	1113.0	1103.1	1091.6	1075.2	1057.1	1034.2	1009.5	980.0	948.8
62.5°	1323.1	1323.1	1313.2	1301.7	1287.0	1265.6	1241.0	1211.5	1177.0	1139.2	1101.5
60°	1559.5	1559.5	1548.0	1533.2	1511.9	1485.6	1452.8	1415.0	1372.3	1324.7	1278.8
57.5°	1831.9	1831.9	1817.2	1797.5	1771.2	1738.4	1697.3	1649.7	1595.6	1536.5	1479.0
55°	2127.4	2127.4	2109.4	2086.4	2055.2	2015.8	1966.6	1910.7	1845.1	1777.8	1703.9
52.5°	2441.0	2441.0	2419.6	2393.4	2357.2	2311.3	2255.5	2189.8	2114.3	2035.5	1948.5
50°	2770.9	2770.9	2746.3	2716.7	2675.7	2621.5	2557.5	2482.0	2398.3	2306.4	2206.2
47.5°	3123.8	3123.8	3095.9	3061.5	3012.2	2949.8	2874.3	2787.3	2692.1	2588.7	2475.4
45°	3486.6	3486.6	3455.4	3416.0	3361.9	3291.3	3207.6	3123.8	3002.4	2882.5	2751.2
42.5°	3864.2	3864.2	3828.1	3783.7	3721.4	3644.2	3549.0	3440.7	3320.8	3186.2	3043.4
40°	4256.5	4256.5	4215.5	4164.6	4095.6	4007.0	3900.3	3778.8	3644.2	3494.8	3337.2
37.5°	4657.0	4657.0	4611.1	4555.3	4478.1	4379.6	4259.8	4125.2	3974.1	3808.4	3634.4
35°	5060.8	5060.8	5010.0	4949.2	4863.9	4755.5	4625.8	4476.5	4309.0	4128.5	3933.1
32.5°	5472.9	5472.9	5417.1	5348.1	5251.3	5131.4	4988.6	4826.1	4657.0	4446.9	4233.5
30°	5880.0	5880.0	5819.2	5743.7	5640.3	5509.0	5353.0	5174.1	4975.5	4760.4	4530.6
27.5°	6280.5	6264.1	6213.2	6132.8	6019.5	5880.0	5710.9	5517.2	5302.1	5065.8	4819.5
25°	6674.5	6656.4	6600.6	6512.0	6390.5	6237.8	6055.6	5848.8	5617.3	5367.8	5098.6
22.5°	7052.0	7032.3	6973.2	6878.0	6748.3	6582.5	6387.2	6165.6	5919.4	5651.8	5367.8
20°	7401.7	7380.3	7319.6	7219.5	7084.9	6909.2	6702.4	6464.4	6201.7	5919.4	5617.3
17.5°	7716.8	7695.5	7631.5	7528.1	7401.7	7206.3	6992.9	6741.8	6464.4	6165.6	5848.8
15°	7994.3	7971.3	7905.6	7802.2	7657.7	7473.9	7249.0	6992.9	6702.4	6387.2	6055.6
12.5°	8230.6	8207.7	8140.4	8036.9	7887.6	7703.7	7473.9	7206.3	6909.2	6582.5	6237.8
10°	8417.8	8394.8	8330.8	8232.3	8078.0	7887.6	7657.7	7401.7	7084.9	6748.3	6390.5
7.5°	8552.4	8531.0	8471.9	8373.5	8232.3	8036.9	7802.2	7528.1	7219.5	6878.0	6512.0
5°	8654.2	8629.5	8570.4	8471.9	8330.8	8140.4	7905.6	7631.5	7319.6	6973.2	6600.6
2.5°	8724.7	8695.2	8629.5	8531.0	8394.8	8207.7	7971.3	7695.5	7380.3	7032.3	6656.4
0°	8744.4	8724.7	8654.2	8552.4	8417.8	8230.6	7994.3	7716.8	7401.7	7052.0	6674.5

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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°	59.1	59.1	57.5	55.8	54.2	50.9	49.2	47.6	46.0	42.7	41.0
85°	124.8	121.5	118.2	114.9	110.0	106.7	101.8	98.5	93.6	88.6	83.7
82.5°	197.0	192.1	185.5	180.6	174.0	165.8	159.2	151.0	142.8	136.2	128.0
80°	275.8	267.6	259.4	251.2	241.3	231.5	221.6	211.8	200.3	188.8	177.3
77.5°	361.1	349.6	338.2	325.0	313.5	300.4	287.3	274.1	259.4	244.6	229.8
75°	456.3	441.6	425.2	408.7	394.0	375.9	357.9	339.8	320.1	302.0	282.3
72.5°	559.8	541.7	522.0	502.3	481.0	458.0	435.0	410.4	387.4	364.4	339.8
70°	671.4	650.0	625.4	600.8	574.5	546.6	518.7	489.2	459.6	430.1	400.5
67.5°	791.2	765.0	735.4	705.9	673.0	640.2	607.4	572.9	536.8	500.7	466.2
65°	919.3	886.4	852.0	814.2	776.4	738.7	699.3	658.3	617.2	574.5	536.8
62.5°	1062.1	1021.0	976.7	930.7	888.1	842.1	799.4	748.5	699.3	651.7	604.1
60°	1227.9	1173.7	1119.5	1062.1	1007.9	948.8	896.3	840.5	784.7	730.5	674.7
57.5°	1413.4	1344.4	1278.8	1209.8	1137.6	1071.9	1004.6	937.3	874.9	810.9	750.2
55°	1623.5	1539.8	1457.7	1372.3	1288.6	1206.5	1121.2	1045.7	968.5	896.3	825.7
52.5°	1853.3	1758.1	1656.3	1559.5	1452.8	1351.0	1255.8	1160.6	1070.3	983.3	902.8
50°	2099.5	1987.9	1871.3	1753.2	1631.7	1511.9	1396.9	1285.3	1180.3	1078.5	983.3
47.5°	2355.6	2229.2	2096.2	1961.6	1831.9	1685.9	1548.0	1421.6	1295.2	1180.3	1070.3
45°	2618.2	2475.4	2329.3	2176.7	2024.0	1866.4	1713.8	1559.5	1421.6	1285.3	1160.6
42.5°	2889.1	2728.2	2565.7	2396.6	2227.6	2055.2	1882.8	1713.8	1548.0	1396.9	1255.8
40°	3168.2	2990.9	2805.4	2621.5	2441.0	2244.0	2055.2	1866.4	1685.9	1511.9	1351.0
37.5°	3447.2	3253.5	3053.2	2846.4	2639.6	2441.0	2227.6	2024.0	1831.9	1631.7	1452.8
35°	3727.9	3514.5	3297.8	3072.9	2846.4	2621.5	2396.6	2176.7	1961.6	1753.2	1559.5
32.5°	4010.3	3777.2	3537.5	3297.8	3053.2	2805.4	2565.7	2329.3	2096.2	1871.3	1656.3
30°	4287.7	4034.9	3777.2	3514.5	3253.5	2990.9	2728.2	2475.4	2229.2	1987.9	1758.1
27.5°	4558.5	4287.7	4010.3	3727.9	3447.2	3168.2	2889.1	2618.2	2355.6	2099.5	1853.3
25°	4819.5	4530.6	4233.5	3933.1	3634.4	3337.2	3043.4	2751.2	2475.4	2206.2	1948.5
22.5°	5065.8	4760.4	4446.9	4128.5	3808.4	3494.8	3186.2	2882.5	2588.7	2306.4	2035.5
20°	5302.1	4975.5	4657.0	4309.0	3974.1	3644.2	3320.8	3002.4	2692.1	2398.3	2114.3
17.5°	5517.2	5174.1	4826.1	4476.5	4125.2	3778.8	3440.7	3123.8	2787.3	2482.0	2189.8
15°	5710.9	5353.0	4988.6	4625.8	4259.8	3900.3	3549.0	3207.6	2874.3	2557.5	2255.5
12.5°	5880.0	5509.0	5131.4	4755.5	4379.6	4007.0	3644.2	3291.3	2949.8	2621.5	2311.3
10°	6019.5	5640.3	5251.3	4863.9	4478.1	4095.6	3721.4	3361.9	3012.2	2675.7	2357.2
7.5°	6132.8	5743.7	5348.1	4949.2	4555.3	4164.6	3783.7	3416.0	3061.5	2716.7	2393.4
5°	6213.2	5819.2	5417.1	5010.0	4611.1	4215.5	3828.1	3455.4	3095.9	2746.3	2419.6
2.5°	6264.1	5880.0	5472.9	5060.8	4657.0	4256.5	3864.2	3486.6	3123.8	2770.9	2441.0
0°	6280.5	5880.0	5472.9	5060.8	4657.0	4256.5	3864.2	3486.6	3123.8	2770.9	2441.0

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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°	39.4	36.1	32.8	31.2	27.9	26.3	23.0	19.7	18.1	14.8	11.5
85°	78.8	72.2	67.3	62.4	57.5	50.9	46.0	41.0	34.5	29.5	23.0
82.5°	119.8	111.6	103.4	95.2	87.0	78.8	68.9	60.7	52.5	44.3	34.5
80°	165.8	152.7	141.2	129.7	118.2	106.7	93.6	82.1	68.9	57.5	46.0
77.5°	213.4	198.6	182.2	165.8	149.4	134.6	118.2	103.4	88.6	72.2	57.5
75°	264.3	244.6	226.5	205.2	185.5	164.2	144.5	124.8	106.7	88.6	68.9
72.5°	316.8	292.2	267.6	244.6	220.0	195.3	172.4	147.7	124.8	103.4	82.1
70°	371.0	341.4	311.9	284.0	256.1	226.5	200.3	172.4	144.5	118.2	93.6
67.5°	428.4	394.0	359.5	323.4	292.2	259.4	226.5	195.3	164.2	134.6	106.7
65°	490.8	449.8	407.1	369.3	328.3	292.2	256.1	220.0	185.5	149.4	118.2
62.5°	554.8	507.2	459.6	412.0	369.3	323.4	284.0	244.6	205.2	165.8	129.7
60°	620.5	566.3	512.2	459.6	407.1	359.5	311.9	267.6	226.5	182.2	141.2
57.5°	687.8	627.1	566.3	507.2	449.8	394.0	341.4	292.2	244.6	198.6	152.7
55°	756.7	687.8	620.5	554.8	490.8	428.4	371.0	316.8	264.3	213.4	165.8
52.5°	825.7	750.2	674.7	604.1	536.8	466.2	400.5	339.8	282.3	229.8	177.3
50°	896.3	810.9	730.5	651.7	574.5	500.7	430.1	364.4	302.0	244.6	188.8
47.5°	968.5	874.9	784.7	699.3	617.2	536.8	459.6	387.4	320.1	259.4	200.3
45°	1045.7	937.3	840.5	748.5	658.3	572.9	489.2	410.4	339.8	274.1	211.8
42.5°	1121.2	1004.6	896.3	799.4	699.3	607.4	518.7	435.0	357.9	287.3	221.6
40°	1206.5	1071.9	948.8	842.1	738.7	640.2	546.6	458.0	375.9	300.4	231.5
37.5°	1288.6	1137.6	1007.9	888.1	776.4	673.0	574.5	481.0	394.0	313.5	241.3
35°	1372.3	1209.8	1062.1	930.7	814.2	705.9	600.8	502.3	408.7	325.0	251.2
32.5°	1457.7	1278.8	1119.5	976.7	852.0	735.4	625.4	522.0	425.2	338.2	259.4
30°	1539.8	1344.4	1173.7	1021.0	886.4	765.0	650.0	541.7	441.6	349.6	267.6
27.5°	1623.5	1413.4	1227.9	1062.1	919.3	791.2	671.4	559.8	456.3	361.1	275.8
25°	1703.9	1479.0	1278.8	1101.5	948.8	817.5	694.4	577.8	469.5	371.0	282.3
22.5°	1777.8	1536.5	1324.7	1139.2	980.0	840.5	714.1	594.2	482.6	380.8	288.9
20°	1845.1	1595.6	1372.3	1177.0	1009.5	863.4	730.5	609.0	494.1	389.0	295.5
17.5°	1910.7	1649.7	1415.0	1211.5	1034.2	883.1	746.9	620.5	504.0	395.6	300.4
15°	1966.6	1697.3	1452.8	1241.0	1057.1	899.6	760.0	632.0	512.2	402.2	303.7
12.5°	2015.8	1738.4	1485.6	1265.6	1075.2	914.3	773.2	641.8	520.4	407.1	308.6
10°	2055.2	1771.2	1511.9	1287.0	1091.6	925.8	781.4	650.0	525.3	412.0	311.9
7.5°	2086.4	1797.5	1533.2	1301.7	1103.1	935.7	789.6	655.0	530.2	415.3	316.8
5°	2109.4	1817.2	1548.0	1313.2	1113.0	947.2	799.4	663.2	536.8	420.2	316.8
2.5°	2127.4	1831.9	1559.5	1323.1	1119.5	947.2	799.4	663.2	536.8	420.2	316.8
0°	2127.4	1831.9	1559.5	1323.1	1119.5	947.2	799.4	663.2	536.8	420.2	316.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.2	6.6	3.3	0.0
85°	18.1	11.5	6.6	0.0
82.5°	26.3	18.1	8.2	0.0
80°	34.5	23.0	11.5	0.0
77.5°	44.3	29.5	14.8	0.0
75°	52.5	34.5	18.1	0.0
72.5°	60.7	41.0	19.7	0.0
70°	68.9	46.0	23.0	0.0
67.5°	78.8	50.9	26.3	0.0
65°	87.0	57.5	27.9	0.0
62.5°	95.2	62.4	31.2	0.0
60°	103.4	67.3	32.8	0.0
57.5°	111.6	72.2	36.1	0.0
55°	119.8	78.8	39.4	0.0
52.5°	128.0	83.7	41.0	0.0
50°	136.2	88.6	42.7	0.0
47.5°	142.8	93.6	46.0	0.0
45°	151.0	98.5	47.6	0.0
42.5°	159.2	101.8	49.2	0.0
40°	165.8	106.7	50.9	0.0
37.5°	174.0	110.0	54.2	0.0
35°	180.6	114.9	55.8	0.0
32.5°	185.5	118.2	57.5	0.0
30°	192.1	121.5	59.1	0.0
27.5°	197.0	124.8	59.1	0.0
25°	201.9	128.0	60.7	0.0
22.5°	206.8	129.7	62.4	0.0
20°	211.8	133.0	64.0	0.0
17.5°	215.0	134.6	64.0	0.0
15°	218.3	136.2	67.3	0.0
12.5°	220.0	137.9	67.3	0.0
10°	223.2	141.2	67.3	0.0
7.5°	226.5	141.2	67.3	0.0
5°	226.5	141.2	67.3	0.0
2.5°	226.5	141.2	67.3	0.0
0°	226.5	141.2	67.3	0.0

(END OF REPORT)