

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: P623871

Luminaire Tested: **IFLD-S-SA2C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

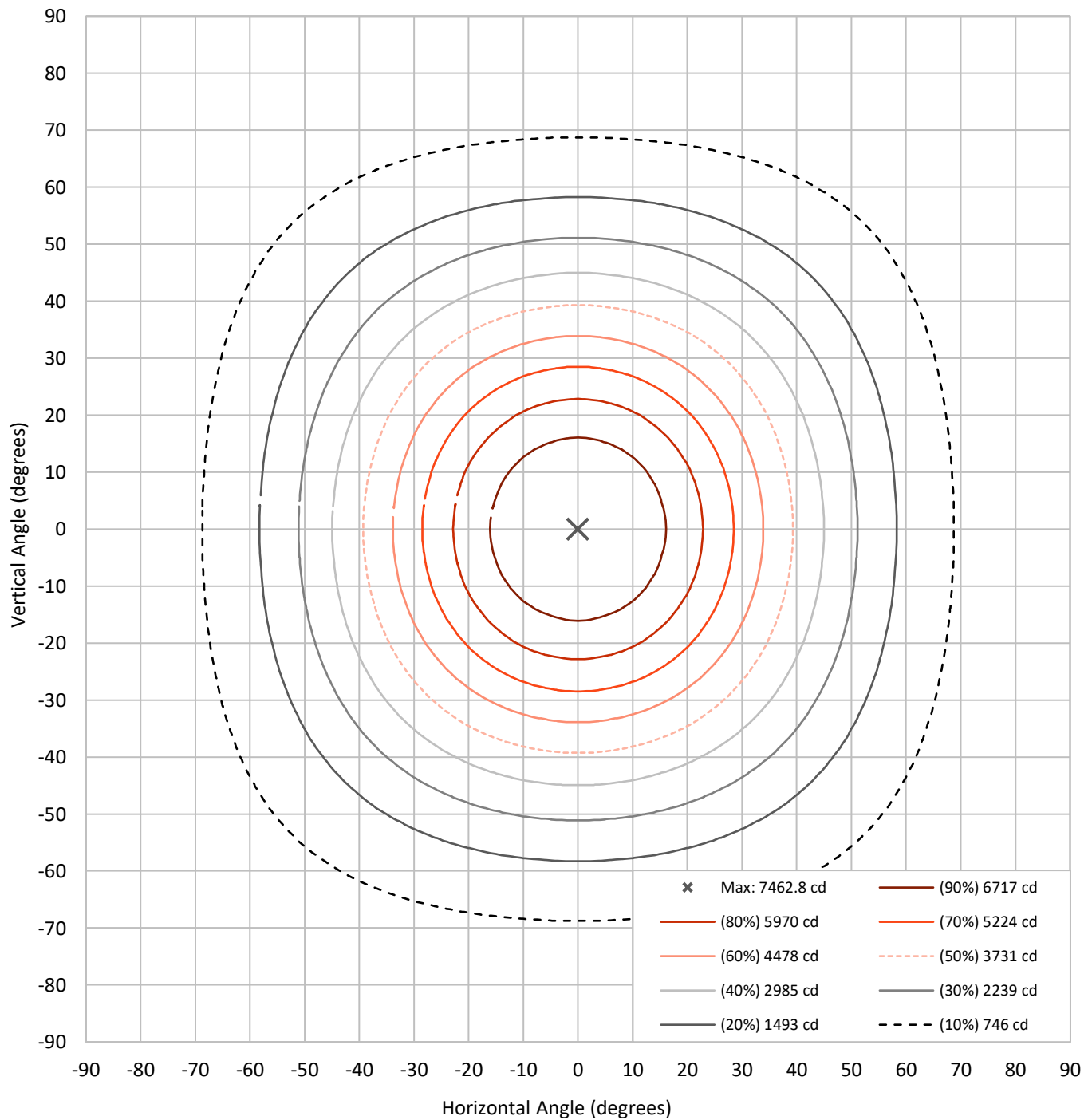
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13437 lumens	Max Intensity:	7462.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.2 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:	5814.1 lumens	Field Lumens:	9520.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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		



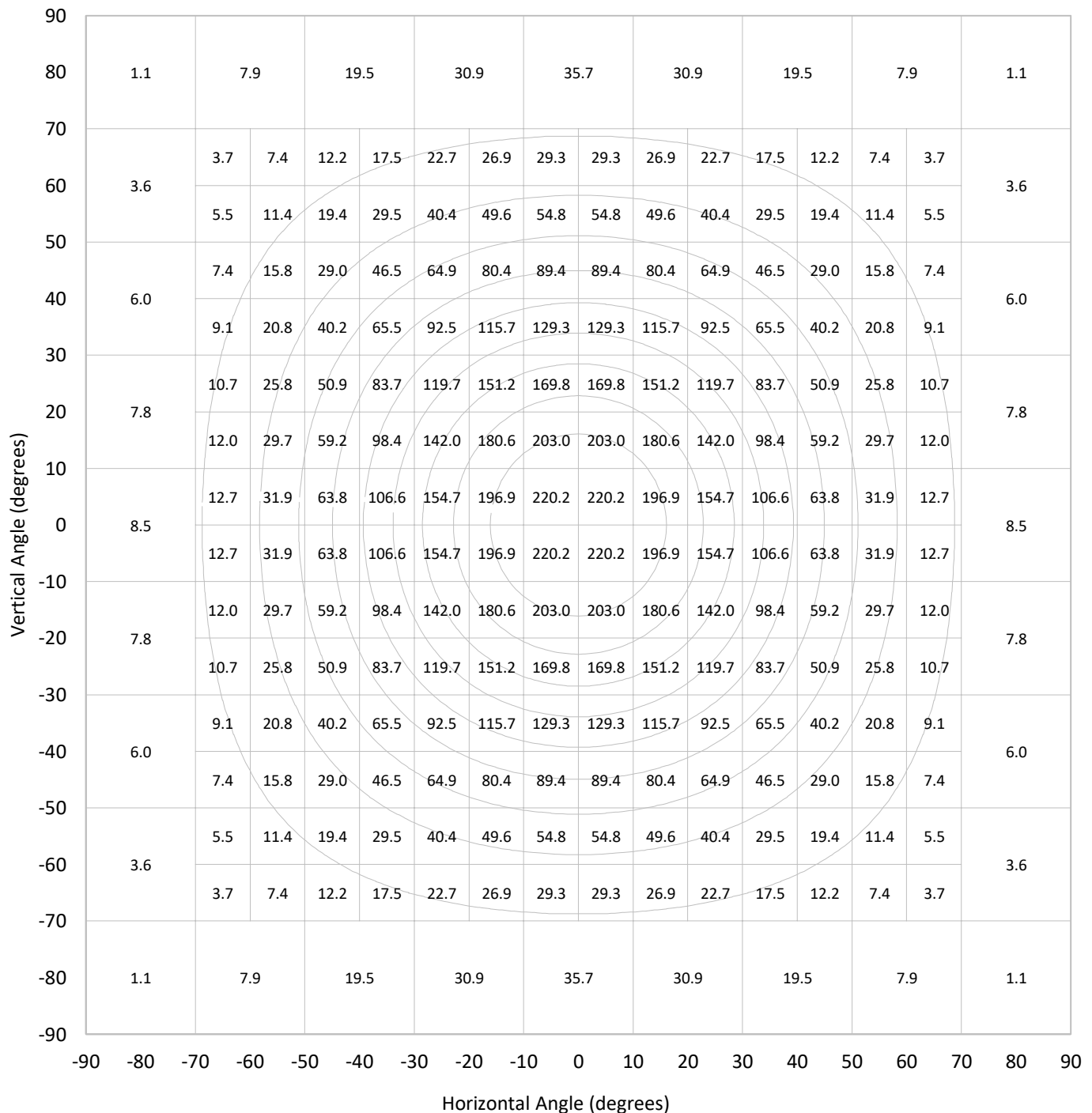
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Iso-Candela Plot



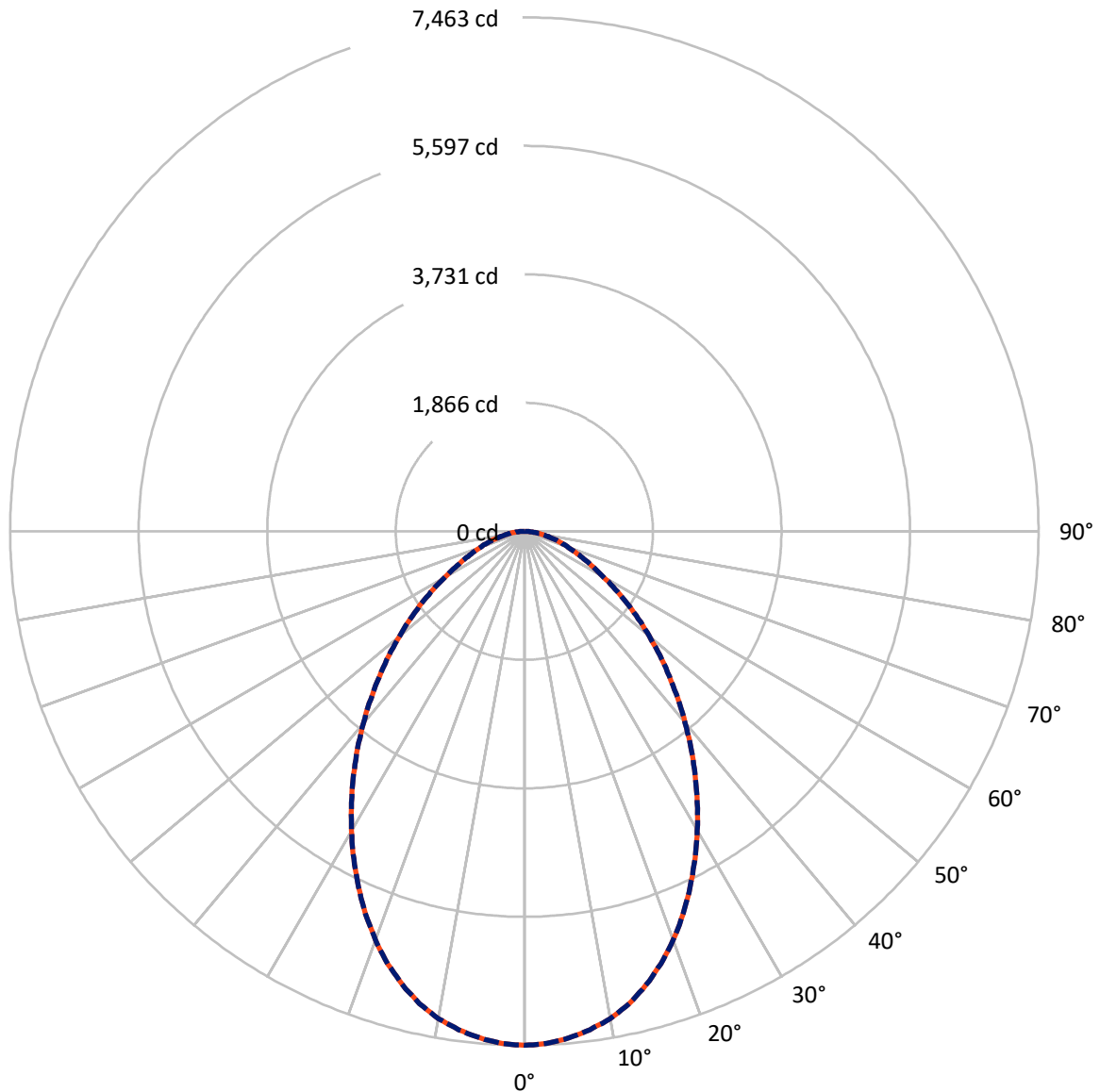
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Lumen Table



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Luminous Intensity Polar Plot

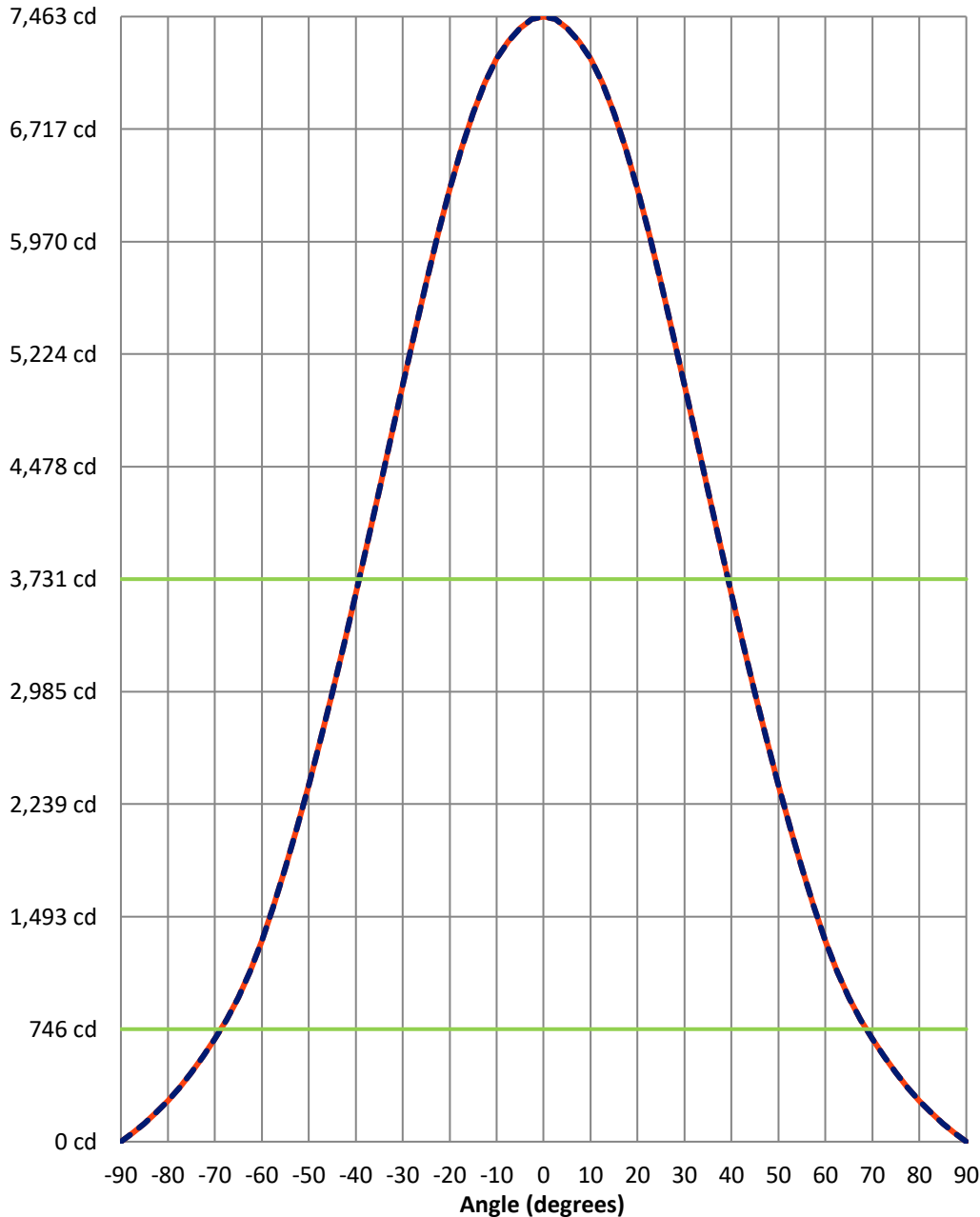


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 5814.1
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 9520.3
Efficiency: 70.9%

Spill:
Lumens: 3916.7
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°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	54.6	54.6	53.2	51.8
85°	120.5	120.5	120.5	120.5	120.5	117.7	116.3	114.9	113.5	110.7	109.3
82.5°	193.3	193.3	193.3	193.3	190.5	187.7	186.3	183.5	180.7	176.5	172.3
80°	270.4	270.4	270.4	270.4	266.2	263.4	259.2	256.4	252.2	246.6	241.0
77.5°	358.6	358.6	358.6	354.4	351.6	347.4	343.2	337.6	332.0	325.0	316.6
75°	458.1	458.1	458.1	452.5	448.3	444.1	437.1	430.1	421.7	411.9	400.7
72.5°	566.0	566.0	566.0	559.0	554.8	547.8	539.4	529.6	519.8	507.1	493.1
70°	682.3	682.3	682.3	673.9	666.9	659.8	648.6	637.4	623.4	609.4	592.6
67.5°	808.3	808.3	808.3	798.5	790.1	780.3	767.7	753.7	736.9	717.3	697.7
65°	955.4	955.4	949.8	941.4	931.6	917.6	902.2	882.6	861.6	836.4	809.7
62.5°	1129.2	1129.2	1120.8	1110.9	1098.3	1080.1	1059.1	1033.9	1004.5	972.3	940.0
60°	1330.9	1330.9	1321.1	1308.5	1290.3	1267.9	1239.8	1207.6	1171.2	1130.6	1091.3
57.5°	1563.5	1563.5	1550.8	1534.0	1511.6	1483.6	1448.6	1408.0	1361.7	1311.3	1262.3
55°	1815.6	1815.6	1800.2	1780.6	1754.0	1720.4	1678.3	1630.7	1574.7	1517.2	1454.2
52.5°	2083.2	2083.2	2065.0	2042.6	2011.8	1972.5	1924.9	1868.9	1804.4	1737.2	1662.9
50°	2364.8	2364.8	2343.8	2318.6	2283.5	2237.3	2182.7	2118.2	2046.8	1968.3	1882.9
47.5°	2666.0	2666.0	2642.2	2612.8	2570.7	2517.5	2453.1	2378.8	2297.6	2209.3	2112.6
45°	2975.6	2975.6	2949.0	2915.4	2869.1	2808.9	2737.4	2666.0	2562.3	2460.1	2348.0
42.5°	3297.8	3297.8	3267.0	3229.2	3175.9	3110.1	3028.8	2936.4	2834.1	2719.2	2597.4
40°	3632.7	3632.7	3597.6	3554.2	3495.4	3419.7	3328.6	3225.0	3110.1	2982.6	2848.1
37.5°	3974.5	3974.5	3935.3	3887.6	3821.8	3737.7	3635.5	3520.6	3391.7	3250.2	3101.7
35°	4319.1	4319.1	4275.7	4223.9	4151.0	4058.5	3947.9	3820.4	3677.5	3523.4	3356.7
32.5°	4670.8	4670.8	4623.1	4564.3	4481.6	4379.4	4257.5	4118.8	3974.5	3795.2	3613.0
30°	5018.2	5018.2	4966.4	4901.9	4813.6	4701.6	4568.5	4415.8	4246.3	4062.7	3866.6
27.5°	5360.0	5346.0	5302.6	5233.9	5137.3	5018.2	4873.9	4708.6	4525.1	4323.3	4113.2
25°	5696.2	5680.8	5633.2	5557.6	5453.9	5323.6	5168.1	4991.6	4794.0	4581.1	4351.3
22.5°	6018.5	6001.7	5951.2	5870.0	5759.3	5617.8	5451.1	5262.0	5051.8	4823.5	4581.1
20°	6316.9	6298.7	6246.8	6161.4	6046.5	5896.6	5720.1	5516.9	5292.8	5051.8	4794.0
17.5°	6585.8	6567.6	6513.0	6424.7	6316.9	6150.2	5968.0	5753.7	5516.9	5262.0	4991.6
15°	6822.6	6803.0	6747.0	6658.7	6535.4	6378.5	6186.6	5968.0	5720.1	5451.1	5168.1
12.5°	7024.3	7004.7	6947.3	6859.0	6731.5	6574.6	6378.5	6150.2	5896.6	5617.8	5323.6
10°	7184.0	7164.4	7109.8	7025.7	6894.1	6731.5	6535.4	6316.9	6046.5	5759.3	5453.9
7.5°	7298.9	7280.7	7230.3	7146.2	7025.7	6859.0	6658.7	6424.7	6161.4	5870.0	5557.6
5°	7385.8	7364.8	7314.3	7230.3	7109.8	6947.3	6747.0	6513.0	6246.8	5951.2	5633.2
2.5°	7446.0	7420.8	7364.8	7280.7	7164.4	7004.7	6803.0	6567.6	6298.7	6001.7	5680.8
0°	7462.8	7446.0	7385.8	7298.9	7184.0	7024.3	6822.6	6585.8	6316.9	6018.5	5696.2

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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°	50.4	50.4	49.0	47.6	46.2	43.4	42.0	40.6	39.2	36.4	35.0
85°	106.5	103.7	100.9	98.1	93.9	91.1	86.9	84.1	79.9	75.7	71.4
82.5°	168.1	163.9	158.3	154.1	148.5	141.5	135.9	128.9	121.9	116.3	109.3
80°	235.4	228.4	221.3	214.3	205.9	197.5	189.1	180.7	170.9	161.1	151.3
77.5°	308.2	298.4	288.6	277.4	267.6	256.4	245.2	234.0	221.3	208.7	196.1
75°	389.5	376.9	362.8	348.8	336.2	320.8	305.4	290.0	273.2	257.8	241.0
72.5°	477.7	462.3	445.5	428.7	410.5	390.9	371.3	350.2	330.6	311.0	290.0
70°	573.0	554.8	533.8	512.7	490.3	466.5	442.7	417.5	392.3	367.0	341.8
67.5°	675.3	652.8	627.6	602.4	574.4	546.4	518.3	488.9	458.1	427.3	397.9
65°	784.5	756.5	727.1	694.9	662.6	630.4	596.8	561.8	526.8	490.3	458.1
62.5°	906.4	871.4	833.6	794.3	757.9	718.7	682.3	638.8	596.8	556.2	515.5
60°	1047.9	1001.7	955.4	906.4	860.2	809.7	764.9	717.3	669.7	623.4	575.8
57.5°	1206.2	1147.4	1091.3	1032.5	970.9	914.8	857.4	799.9	746.7	692.1	640.2
55°	1385.5	1314.1	1244.0	1171.2	1099.7	1029.7	956.8	892.4	826.6	764.9	704.7
52.5°	1581.7	1500.4	1413.6	1330.9	1239.8	1153.0	1071.7	990.5	913.4	839.2	770.5
50°	1791.8	1696.5	1597.1	1496.2	1392.5	1290.3	1192.2	1096.9	1007.3	920.4	839.2
47.5°	2010.4	1902.5	1789.0	1674.1	1563.5	1438.8	1321.1	1213.2	1105.3	1007.3	913.4
45°	2234.5	2112.6	1987.9	1857.7	1727.4	1592.9	1462.6	1330.9	1213.2	1096.9	990.5
42.5°	2465.7	2328.4	2189.7	2045.4	1901.1	1754.0	1606.9	1462.6	1321.1	1192.2	1071.7
40°	2703.8	2552.5	2394.2	2237.3	2083.2	1915.1	1754.0	1592.9	1438.8	1290.3	1153.0
37.5°	2942.0	2776.7	2605.8	2429.2	2252.7	2083.2	1901.1	1727.4	1563.5	1392.5	1239.8
35°	3181.5	2999.4	2814.5	2622.6	2429.2	2237.3	2045.4	1857.7	1674.1	1496.2	1330.9
32.5°	3422.5	3223.6	3019.0	2814.5	2605.8	2394.2	2189.7	1987.9	1789.0	1597.1	1413.6
30°	3659.3	3443.5	3223.6	2999.4	2776.7	2552.5	2328.4	2112.6	1902.5	1696.5	1500.4
27.5°	3890.4	3659.3	3422.5	3181.5	2942.0	2703.8	2465.7	2234.5	2010.4	1791.8	1581.7
25°	4113.2	3866.6	3613.0	3356.7	3101.7	2848.1	2597.4	2348.0	2112.6	1882.9	1662.9
22.5°	4323.3	4062.7	3795.2	3523.4	3250.2	2982.6	2719.2	2460.1	2209.3	1968.3	1737.2
20°	4525.1	4246.3	3974.5	3677.5	3391.7	3110.1	2834.1	2562.3	2297.6	2046.8	1804.4
17.5°	4708.6	4415.8	4118.8	3820.4	3520.6	3225.0	2936.4	2666.0	2378.8	2118.2	1868.9
15°	4873.9	4568.5	4257.5	3947.9	3635.5	3328.6	3028.8	2737.4	2453.1	2182.7	1924.9
12.5°	5018.2	4701.6	4379.4	4058.5	3737.7	3419.7	3110.1	2808.9	2517.5	2237.3	1972.5
10°	5137.3	4813.6	4481.6	4151.0	3821.8	3495.4	3175.9	2869.1	2570.7	2283.5	2011.8
7.5°	5233.9	4901.9	4564.3	4223.9	3887.6	3554.2	3229.2	2915.4	2612.8	2318.6	2042.6
5°	5302.6	4966.4	4623.1	4275.7	3935.3	3597.6	3267.0	2949.0	2642.2	2343.8	2065.0
2.5°	5346.0	5018.2	4670.8	4319.1	3974.5	3632.7	3297.8	2975.6	2666.0	2364.8	2083.2
0°	5360.0	5018.2	4670.8	4319.1	3974.5	3632.7	3297.8	2975.6	2666.0	2364.8	2083.2

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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°	33.6	30.8	28.0	26.6	23.8	22.4	19.6	16.8	15.4	12.6	9.8
85°	67.2	61.6	57.4	53.2	49.0	43.4	39.2	35.0	29.4	25.2	19.6
82.5°	102.3	95.3	88.3	81.3	74.3	67.2	58.8	51.8	44.8	37.8	29.4
80°	141.5	130.3	120.5	110.7	100.9	91.1	79.9	70.0	58.8	49.0	39.2
77.5°	182.1	169.5	155.5	141.5	127.5	114.9	100.9	88.3	75.7	61.6	49.0
75°	225.6	208.7	193.3	175.1	158.3	140.1	123.3	106.5	91.1	75.7	58.8
72.5°	270.4	249.4	228.4	208.7	187.7	166.7	147.1	126.1	106.5	88.3	70.0
70°	316.6	291.4	266.2	242.4	218.5	193.3	170.9	147.1	123.3	100.9	79.9
67.5°	365.6	336.2	306.8	276.0	249.4	221.3	193.3	166.7	140.1	114.9	91.1
65°	418.9	383.9	347.4	315.2	280.2	249.4	218.5	187.7	158.3	127.5	100.9
62.5°	473.5	432.9	392.3	351.6	315.2	276.0	242.4	208.7	175.1	141.5	110.7
60°	529.6	483.3	437.1	392.3	347.4	306.8	266.2	228.4	193.3	155.5	120.5
57.5°	587.0	535.2	483.3	432.9	383.9	336.2	291.4	249.4	208.7	169.5	130.3
55°	645.8	587.0	529.6	473.5	418.9	365.6	316.6	270.4	225.6	182.1	141.5
52.5°	704.7	640.2	575.8	515.5	458.1	397.9	341.8	290.0	241.0	196.1	151.3
50°	764.9	692.1	623.4	556.2	490.3	427.3	367.0	311.0	257.8	208.7	161.1
47.5°	826.6	746.7	669.7	596.8	526.8	458.1	392.3	330.6	273.2	221.3	170.9
45°	892.4	799.9	717.3	638.8	561.8	488.9	417.5	350.2	290.0	234.0	180.7
42.5°	956.8	857.4	764.9	682.3	596.8	518.3	442.7	371.3	305.4	245.2	189.1
40°	1029.7	914.8	809.7	718.7	630.4	546.4	466.5	390.9	320.8	256.4	197.5
37.5°	1099.7	970.9	860.2	757.9	662.6	574.4	490.3	410.5	336.2	267.6	205.9
35°	1171.2	1032.5	906.4	794.3	694.9	602.4	512.7	428.7	348.8	277.4	214.3
32.5°	1244.0	1091.3	955.4	833.6	727.1	627.6	533.8	445.5	362.8	288.6	221.3
30°	1314.1	1147.4	1001.7	871.4	756.5	652.8	554.8	462.3	376.9	298.4	228.4
27.5°	1385.5	1206.2	1047.9	906.4	784.5	675.3	573.0	477.7	389.5	308.2	235.4
25°	1454.2	1262.3	1091.3	940.0	809.7	697.7	592.6	493.1	400.7	316.6	241.0
22.5°	1517.2	1311.3	1130.6	972.3	836.4	717.3	609.4	507.1	411.9	325.0	246.6
20°	1574.7	1361.7	1171.2	1004.5	861.6	736.9	623.4	519.8	421.7	332.0	252.2
17.5°	1630.7	1408.0	1207.6	1033.9	882.6	753.7	637.4	529.6	430.1	337.6	256.4
15°	1678.3	1448.6	1239.8	1059.1	902.2	767.7	648.6	539.4	437.1	343.2	259.2
12.5°	1720.4	1483.6	1267.9	1080.1	917.6	780.3	659.8	547.8	444.1	347.4	263.4
10°	1754.0	1511.6	1290.3	1098.3	931.6	790.1	666.9	554.8	448.3	351.6	266.2
7.5°	1780.6	1534.0	1308.5	1110.9	941.4	798.5	673.9	559.0	452.5	354.4	270.4
5°	1800.2	1550.8	1321.1	1120.8	949.8	808.3	682.3	566.0	458.1	358.6	270.4
2.5°	1815.6	1563.5	1330.9	1129.2	955.4	808.3	682.3	566.0	458.1	358.6	270.4
0°	1815.6	1563.5	1330.9	1129.2	955.4	808.3	682.3	566.0	458.1	358.6	270.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.0	5.6	2.8	0.0
85°	15.4	9.8	5.6	0.0
82.5°	22.4	15.4	7.0	0.0
80°	29.4	19.6	9.8	0.0
77.5°	37.8	25.2	12.6	0.0
75°	44.8	29.4	15.4	0.0
72.5°	51.8	35.0	16.8	0.0
70°	58.8	39.2	19.6	0.0
67.5°	67.2	43.4	22.4	0.0
65°	74.3	49.0	23.8	0.0
62.5°	81.3	53.2	26.6	0.0
60°	88.3	57.4	28.0	0.0
57.5°	95.3	61.6	30.8	0.0
55°	102.3	67.2	33.6	0.0
52.5°	109.3	71.4	35.0	0.0
50°	116.3	75.7	36.4	0.0
47.5°	121.9	79.9	39.2	0.0
45°	128.9	84.1	40.6	0.0
42.5°	135.9	86.9	42.0	0.0
40°	141.5	91.1	43.4	0.0
37.5°	148.5	93.9	46.2	0.0
35°	154.1	98.1	47.6	0.0
32.5°	158.3	100.9	49.0	0.0
30°	163.9	103.7	50.4	0.0
27.5°	168.1	106.5	50.4	0.0
25°	172.3	109.3	51.8	0.0
22.5°	176.5	110.7	53.2	0.0
20°	180.7	113.5	54.6	0.0
17.5°	183.5	114.9	54.6	0.0
15°	186.3	116.3	57.4	0.0
12.5°	187.7	117.7	57.4	0.0
10°	190.5	120.5	57.4	0.0
7.5°	193.3	120.5	57.4	0.0
5°	193.3	120.5	57.4	0.0
2.5°	193.3	120.5	57.4	0.0
0°	193.3	120.5	57.4	0.0

(END OF REPORT)