

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: P624526

Luminaire Tested: **IFLD-S-SA2C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624526
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

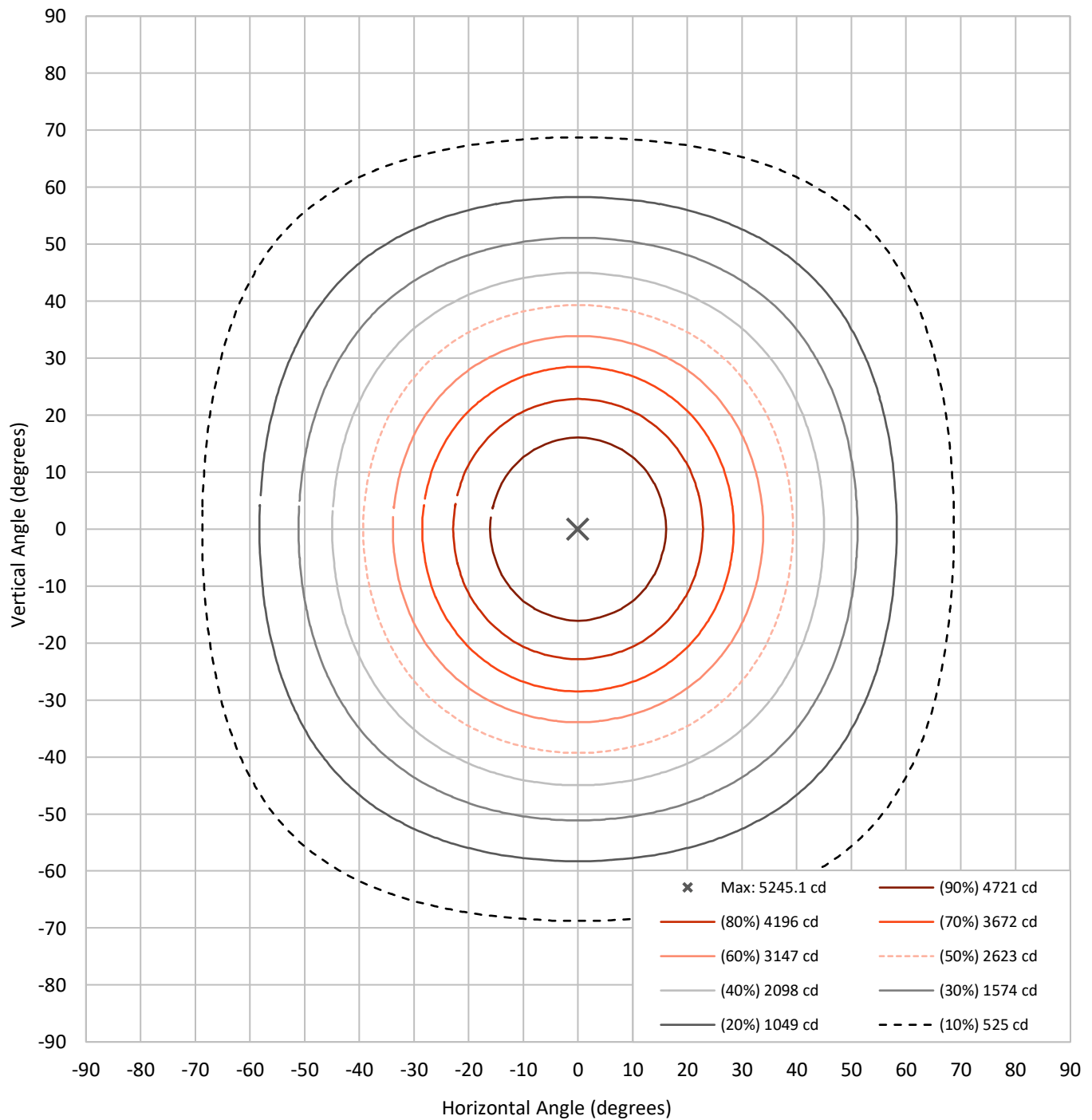
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9444 lumens	Max Intensity:	5245.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.3 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:	4086.3 lumens	Field Lumens:	6691.2 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		



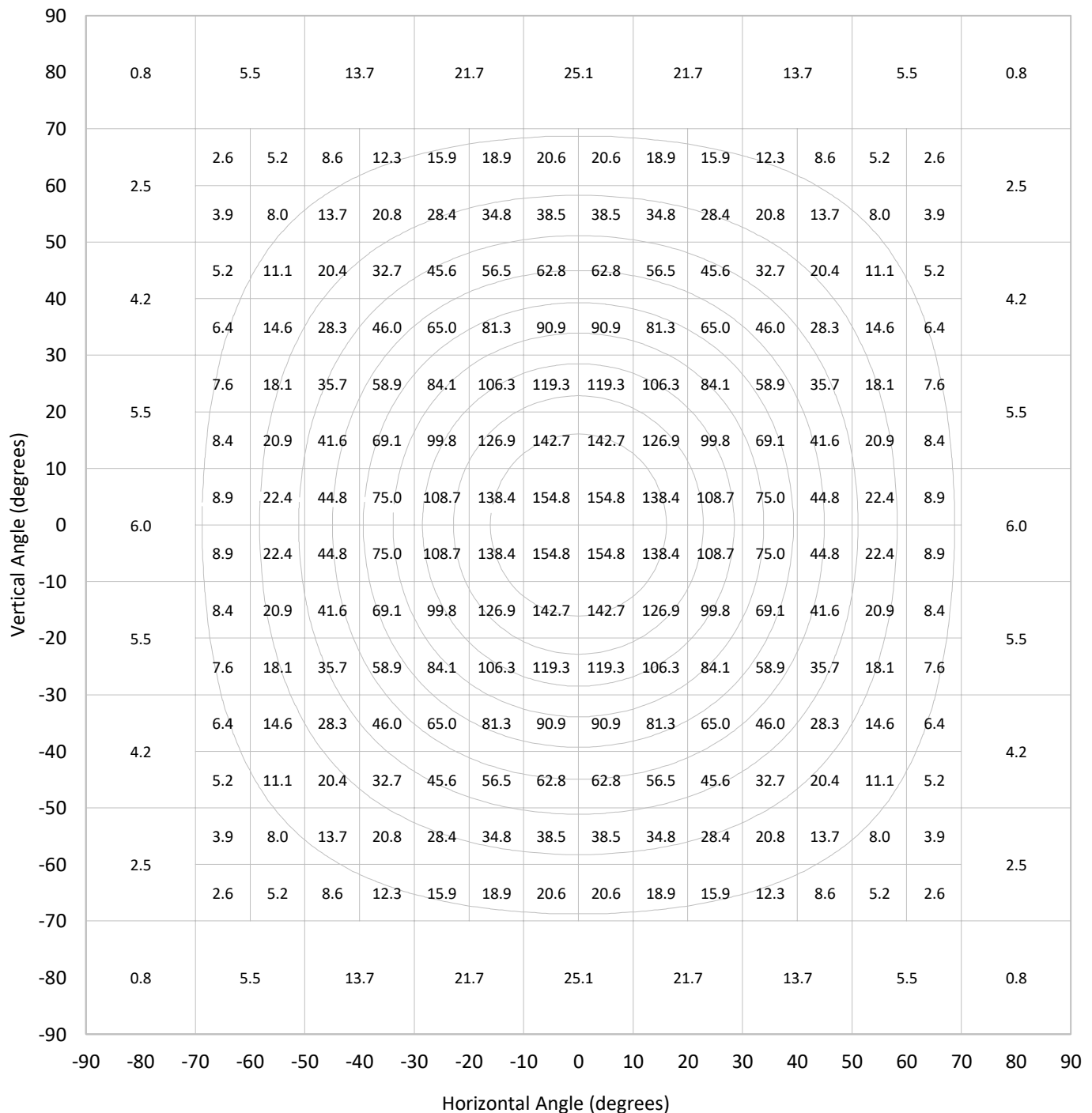
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Iso-Candela Plot



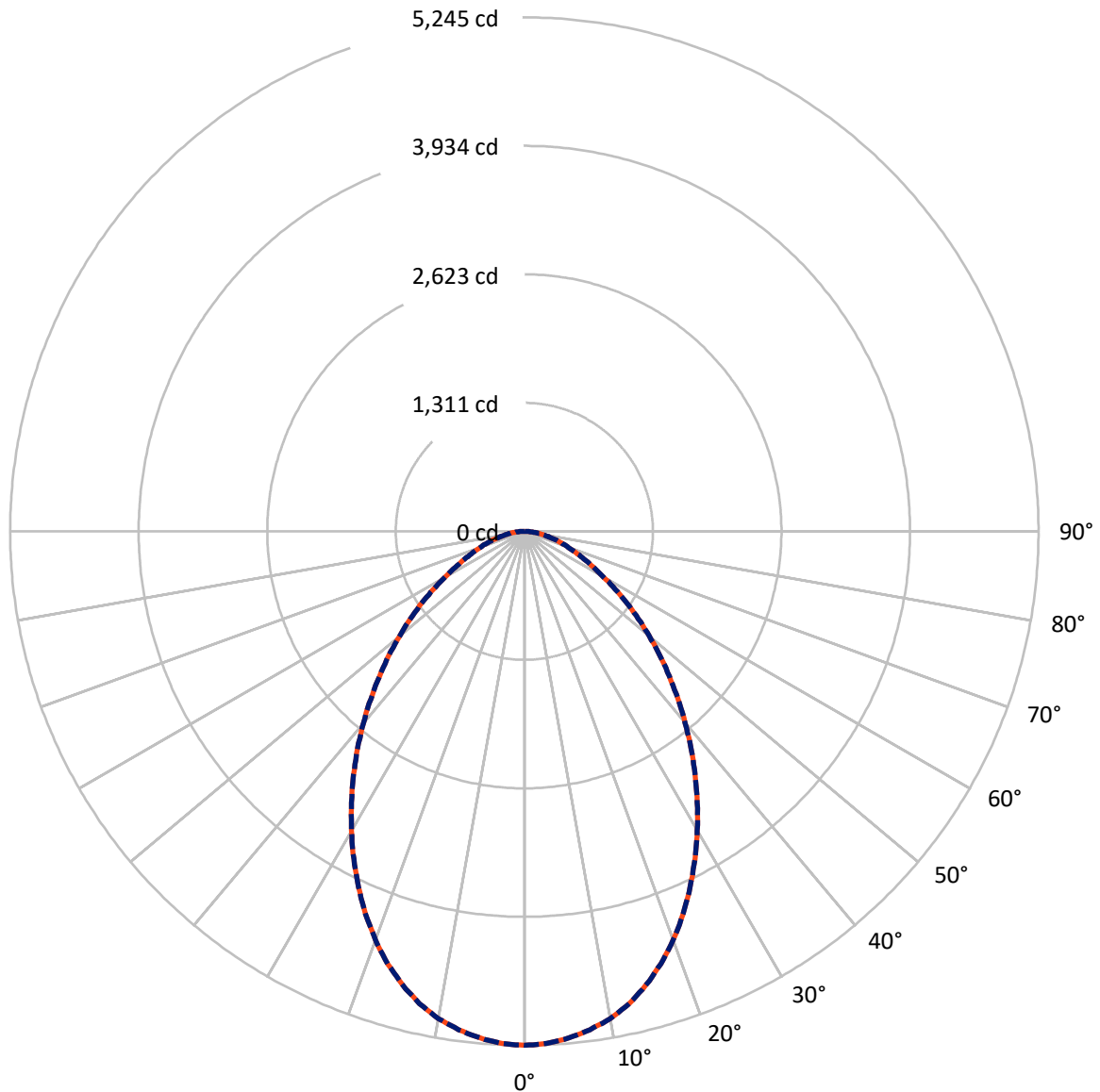
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Lumen Table



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Luminous Intensity Polar Plot

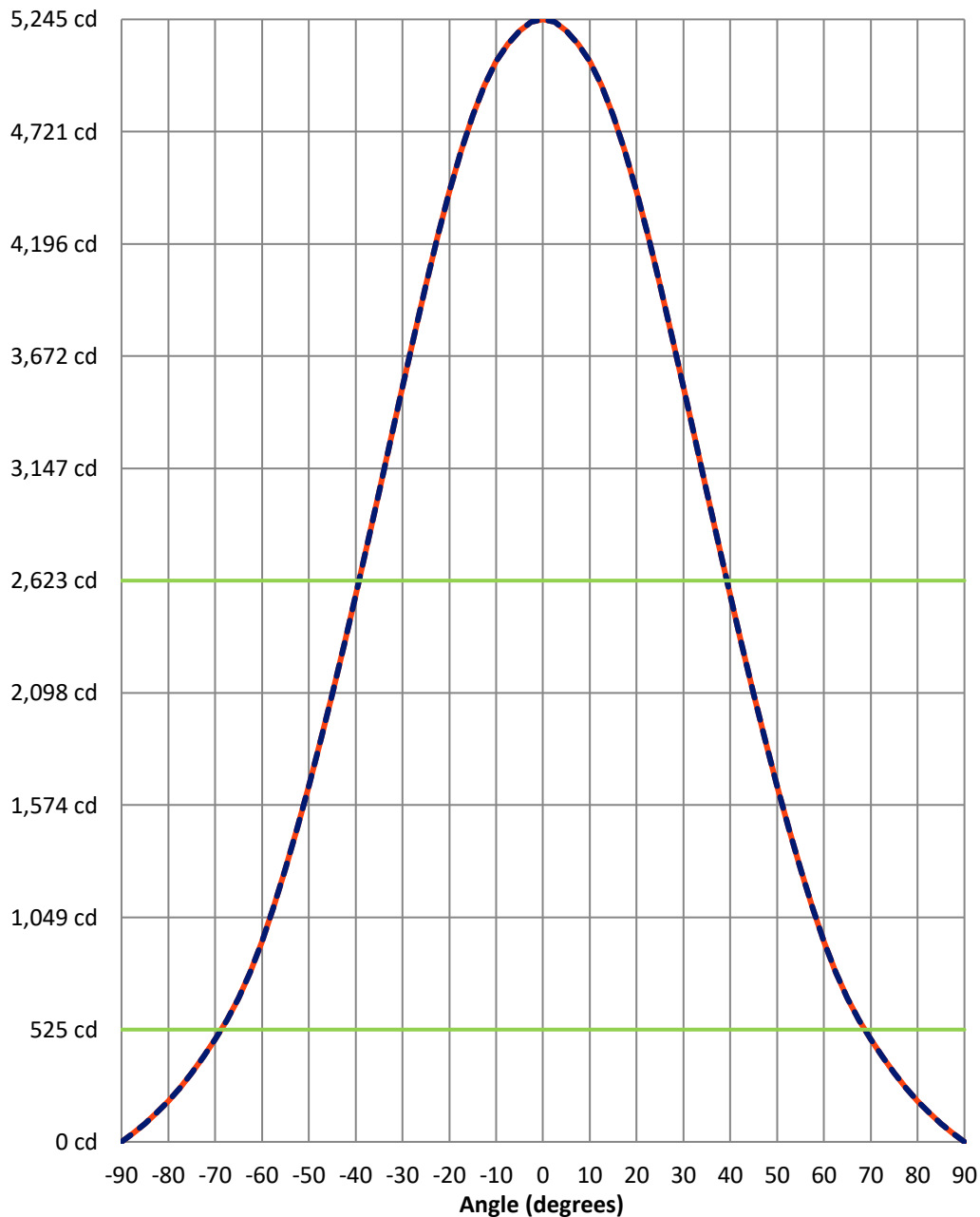


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg

Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	4086.3
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	6691.2
Efficiency:	70.9%

Spill:

Lumens:	2752.8
Efficiency:	29.1%

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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°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	38.4	38.4	37.4	36.4
85°	84.7	84.7	84.7	84.7	84.7	82.7	81.7	80.7	79.8	77.8	76.8
82.5°	135.9	135.9	135.9	135.9	133.9	131.9	131.0	129.0	127.0	124.1	121.1
80°	190.0	190.0	190.0	190.0	187.1	185.1	182.2	180.2	177.2	173.3	169.4
77.5°	252.1	252.1	252.1	249.1	247.1	244.2	241.2	237.3	233.4	228.4	222.5
75°	322.0	322.0	322.0	318.0	315.1	312.1	307.2	302.3	296.4	289.5	281.6
72.5°	397.8	397.8	397.8	392.9	389.9	385.0	379.1	372.2	365.3	356.4	346.6
70°	479.5	479.5	479.5	473.6	468.7	463.8	455.9	448.0	438.2	428.3	416.5
67.5°	568.1	568.1	568.1	561.2	555.3	548.4	539.6	529.7	517.9	504.1	490.3
65°	671.5	671.5	667.6	661.7	654.8	644.9	634.1	620.3	605.5	587.8	569.1
62.5°	793.6	793.6	787.7	780.8	772.0	759.2	744.4	726.7	706.0	683.3	660.7
60°	935.4	935.4	928.5	919.6	906.8	891.1	871.4	848.8	823.2	794.6	767.0
57.5°	1098.8	1098.8	1090.0	1078.2	1062.4	1042.7	1018.1	989.6	957.1	921.6	887.2
55°	1276.1	1276.1	1265.3	1251.5	1232.8	1209.1	1179.6	1146.1	1106.7	1066.4	1022.0
52.5°	1464.1	1464.1	1451.3	1435.6	1413.9	1386.4	1352.9	1313.5	1268.2	1220.9	1168.8
50°	1662.1	1662.1	1647.3	1629.6	1604.9	1572.5	1534.1	1488.8	1438.5	1383.4	1323.3
47.5°	1873.8	1873.8	1857.0	1836.3	1806.8	1769.4	1724.1	1671.9	1614.8	1552.8	1484.8
45°	2091.4	2091.4	2072.6	2049.0	2016.5	1974.2	1924.0	1873.8	1800.9	1729.0	1650.2
42.5°	2317.8	2317.8	2296.2	2269.6	2232.2	2185.9	2128.8	2063.8	1991.9	1911.2	1825.5
40°	2553.1	2553.1	2528.5	2498.0	2456.7	2403.5	2339.5	2266.6	2185.9	2096.3	2001.8
37.5°	2793.4	2793.4	2765.8	2732.4	2686.1	2627.0	2555.1	2474.4	2383.8	2284.3	2180.0
35°	3035.6	3035.6	3005.1	2968.7	2917.5	2852.5	2774.7	2685.1	2584.7	2476.3	2359.2
32.5°	3282.8	3282.8	3249.3	3207.9	3149.8	3078.0	2992.3	2894.8	2793.4	2667.4	2539.4
30°	3526.9	3526.9	3490.5	3445.2	3383.2	3304.4	3210.9	3103.6	2984.4	2855.4	2717.6
27.5°	3767.2	3757.4	3726.8	3678.6	3610.6	3526.9	3425.5	3309.3	3180.4	3038.6	2890.9
25°	4003.5	3992.7	3959.2	3906.0	3833.2	3741.6	3632.3	3508.2	3369.4	3219.7	3058.3
22.5°	4230.0	4218.2	4182.7	4125.6	4047.8	3948.4	3831.2	3698.3	3550.6	3390.1	3219.7
20°	4439.7	4426.9	4390.5	4330.4	4249.7	4144.3	4020.2	3877.5	3719.9	3550.6	3369.4
17.5°	4628.8	4616.0	4577.6	4515.5	4439.7	4322.5	4194.5	4043.9	3877.5	3698.3	3508.2
15°	4795.2	4781.4	4742.0	4680.0	4593.3	4483.0	4348.1	4194.5	4020.2	3831.2	3632.3
12.5°	4936.9	4923.2	4882.8	4820.8	4731.2	4620.9	4483.0	4322.5	4144.3	3948.4	3741.6
10°	5049.2	5035.4	4997.0	4937.9	4845.4	4731.2	4593.3	4439.7	4249.7	4047.8	3833.2
7.5°	5129.9	5117.1	5081.7	5022.6	4937.9	4820.8	4680.0	4515.5	4330.4	4125.6	3906.0
5°	5191.0	5176.2	5140.8	5081.7	4997.0	4882.8	4742.0	4577.6	4390.5	4182.7	3959.2
2.5°	5233.3	5215.6	5176.2	5117.1	5035.4	4923.2	4781.4	4616.0	4426.9	4218.2	3992.7
0°	5245.1	5233.3	5191.0	5129.9	5049.2	4936.9	4795.2	4628.8	4439.7	4230.0	4003.5

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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°	35.4	35.4	34.5	33.5	32.5	30.5	29.5	28.6	27.6	25.6	24.6
85°	74.8	72.9	70.9	68.9	66.0	64.0	61.0	59.1	56.1	53.2	50.2
82.5°	118.2	115.2	111.3	108.3	104.4	99.4	95.5	90.6	85.7	81.7	76.8
80°	165.4	160.5	155.6	150.6	144.7	138.8	132.9	127.0	120.1	113.2	106.3
77.5°	216.6	209.7	202.8	195.0	188.1	180.2	172.3	164.4	155.6	146.7	137.8
75°	273.7	264.9	255.0	245.2	236.3	225.5	214.6	203.8	192.0	181.2	169.4
72.5°	335.8	324.9	313.1	301.3	288.5	274.7	260.9	246.2	232.4	218.6	203.8
70°	402.7	389.9	375.1	360.4	344.6	327.9	311.1	293.4	275.7	258.0	240.3
67.5°	474.6	458.8	441.1	423.4	403.7	384.0	364.3	343.6	322.0	300.3	279.6
65°	551.4	531.7	511.0	488.4	465.7	443.1	419.5	394.8	370.2	344.6	322.0
62.5°	637.1	612.4	585.9	558.3	532.7	505.1	479.5	449.0	419.5	390.9	362.3
60°	736.5	704.0	671.5	637.1	604.6	569.1	537.6	504.1	470.7	438.2	404.7
57.5°	847.8	806.4	767.0	725.7	682.3	643.0	602.6	562.2	524.8	486.4	450.0
55°	973.8	923.6	874.4	823.2	772.9	723.7	672.5	627.2	580.9	537.6	495.3
52.5°	1111.6	1054.5	993.5	935.4	871.4	810.4	753.2	696.1	642.0	589.8	541.5
50°	1259.3	1192.4	1122.5	1051.6	978.7	906.8	837.9	771.0	707.9	646.9	589.8
47.5°	1412.9	1337.1	1257.4	1176.6	1098.8	1011.2	928.5	852.7	776.9	707.9	642.0
45°	1570.5	1484.8	1397.2	1305.6	1214.1	1119.5	1028.0	935.4	852.7	771.0	696.1
42.5°	1733.0	1636.5	1539.0	1437.6	1336.1	1232.8	1129.4	1028.0	928.5	837.9	753.2
40°	1900.3	1794.0	1682.7	1572.5	1464.1	1346.0	1232.8	1119.5	1011.2	906.8	810.4
37.5°	2067.7	1951.5	1831.4	1707.4	1583.3	1464.1	1336.1	1214.1	1098.8	978.7	871.4
35°	2236.1	2108.1	1978.1	1843.2	1707.4	1572.5	1437.6	1305.6	1176.6	1051.6	935.4
32.5°	2405.5	2265.6	2121.9	1978.1	1831.4	1682.7	1539.0	1397.2	1257.4	1122.5	993.5
30°	2571.9	2420.2	2265.6	2108.1	1951.5	1794.0	1636.5	1484.8	1337.1	1192.4	1054.5
27.5°	2734.3	2571.9	2405.5	2236.1	2067.7	1900.3	1733.0	1570.5	1412.9	1259.3	1111.6
25°	2890.9	2717.6	2539.4	2359.2	2180.0	2001.8	1825.5	1650.2	1484.8	1323.3	1168.8
22.5°	3038.6	2855.4	2667.4	2476.3	2284.3	2096.3	1911.2	1729.0	1552.8	1383.4	1220.9
20°	3180.4	2984.4	2793.4	2584.7	2383.8	2185.9	1991.9	1800.9	1614.8	1438.5	1268.2
17.5°	3309.3	3103.6	2894.8	2685.1	2474.4	2266.6	2063.8	1873.8	1671.9	1488.8	1313.5
15°	3425.5	3210.9	2992.3	2774.7	2555.1	2339.5	2128.8	1924.0	1724.1	1534.1	1352.9
12.5°	3526.9	3304.4	3078.0	2852.5	2627.0	2403.5	2185.9	1974.2	1769.4	1572.5	1386.4
10°	3610.6	3383.2	3149.8	2917.5	2686.1	2456.7	2232.2	2016.5	1806.8	1604.9	1413.9
7.5°	3678.6	3445.2	3207.9	2968.7	2732.4	2498.0	2269.6	2049.0	1836.3	1629.6	1435.6
5°	3726.8	3490.5	3249.3	3005.1	2765.8	2528.5	2296.2	2072.6	1857.0	1647.3	1451.3
2.5°	3757.4	3526.9	3282.8	3035.6	2793.4	2553.1	2317.8	2091.4	1873.8	1662.1	1464.1
0°	3767.2	3526.9	3282.8	3035.6	2793.4	2553.1	2317.8	2091.4	1873.8	1662.1	1464.1

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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°	23.6	21.7	19.7	18.7	16.7	15.8	13.8	11.8	10.8	8.9	6.9
85°	47.3	43.3	40.4	37.4	34.5	30.5	27.6	24.6	20.7	17.7	13.8
82.5°	71.9	67.0	62.0	57.1	52.2	47.3	41.4	36.4	31.5	26.6	20.7
80°	99.4	91.6	84.7	77.8	70.9	64.0	56.1	49.2	41.4	34.5	27.6
77.5°	128.0	119.1	109.3	99.4	89.6	80.7	70.9	62.0	53.2	43.3	34.5
75°	158.5	146.7	135.9	123.1	111.3	98.5	86.6	74.8	64.0	53.2	41.4
72.5°	190.0	175.3	160.5	146.7	131.9	117.2	103.4	88.6	74.8	62.0	49.2
70°	222.5	204.8	187.1	170.3	153.6	135.9	120.1	103.4	86.6	70.9	56.1
67.5°	257.0	236.3	215.6	194.0	175.3	155.6	135.9	117.2	98.5	80.7	64.0
65°	294.4	269.8	244.2	221.5	196.9	175.3	153.6	131.9	111.3	89.6	70.9
62.5°	332.8	304.3	275.7	247.1	221.5	194.0	170.3	146.7	123.1	99.4	77.8
60°	372.2	339.7	307.2	275.7	244.2	215.6	187.1	160.5	135.9	109.3	84.7
57.5°	412.6	376.1	339.7	304.3	269.8	236.3	204.8	175.3	146.7	119.1	91.6
55°	453.9	412.6	372.2	332.8	294.4	257.0	222.5	190.0	158.5	128.0	99.4
52.5°	495.3	450.0	404.7	362.3	322.0	279.6	240.3	203.8	169.4	137.8	106.3
50°	537.6	486.4	438.2	390.9	344.6	300.3	258.0	218.6	181.2	146.7	113.2
47.5°	580.9	524.8	470.7	419.5	370.2	322.0	275.7	232.4	192.0	155.6	120.1
45°	627.2	562.2	504.1	449.0	394.8	343.6	293.4	246.2	203.8	164.4	127.0
42.5°	672.5	602.6	537.6	479.5	419.5	364.3	311.1	260.9	214.6	172.3	132.9
40°	723.7	643.0	569.1	505.1	443.1	384.0	327.9	274.7	225.5	180.2	138.8
37.5°	772.9	682.3	604.6	532.7	465.7	403.7	344.6	288.5	236.3	188.1	144.7
35°	823.2	725.7	637.1	558.3	488.4	423.4	360.4	301.3	245.2	195.0	150.6
32.5°	874.4	767.0	671.5	585.9	511.0	441.1	375.1	313.1	255.0	202.8	155.6
30°	923.6	806.4	704.0	612.4	531.7	458.8	389.9	324.9	264.9	209.7	160.5
27.5°	973.8	847.8	736.5	637.1	551.4	474.6	402.7	335.8	273.7	216.6	165.4
25°	1022.0	887.2	767.0	660.7	569.1	490.3	416.5	346.6	281.6	222.5	169.4
22.5°	1066.4	921.6	794.6	683.3	587.8	504.1	428.3	356.4	289.5	228.4	173.3
20°	1106.7	957.1	823.2	706.0	605.5	517.9	438.2	365.3	296.4	233.4	177.2
17.5°	1146.1	989.6	848.8	726.7	620.3	529.7	448.0	372.2	302.3	237.3	180.2
15°	1179.6	1018.1	871.4	744.4	634.1	539.6	455.9	379.1	307.2	241.2	182.2
12.5°	1209.1	1042.7	891.1	759.2	644.9	548.4	463.8	385.0	312.1	244.2	185.1
10°	1232.8	1062.4	906.8	772.0	654.8	555.3	468.7	389.9	315.1	247.1	187.1
7.5°	1251.5	1078.2	919.6	780.8	661.7	561.2	473.6	392.9	318.0	249.1	190.0
5°	1265.3	1090.0	928.5	787.7	667.6	568.1	479.5	397.8	322.0	252.1	190.0
2.5°	1276.1	1098.8	935.4	793.6	671.5	568.1	479.5	397.8	322.0	252.1	190.0
0°	1276.1	1098.8	935.4	793.6	671.5	568.1	479.5	397.8	322.0	252.1	190.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	3.9	2.0	0.0
85°	10.8	6.9	3.9	0.0
82.5°	15.8	10.8	4.9	0.0
80°	20.7	13.8	6.9	0.0
77.5°	26.6	17.7	8.9	0.0
75°	31.5	20.7	10.8	0.0
72.5°	36.4	24.6	11.8	0.0
70°	41.4	27.6	13.8	0.0
67.5°	47.3	30.5	15.8	0.0
65°	52.2	34.5	16.7	0.0
62.5°	57.1	37.4	18.7	0.0
60°	62.0	40.4	19.7	0.0
57.5°	67.0	43.3	21.7	0.0
55°	71.9	47.3	23.6	0.0
52.5°	76.8	50.2	24.6	0.0
50°	81.7	53.2	25.6	0.0
47.5°	85.7	56.1	27.6	0.0
45°	90.6	59.1	28.6	0.0
42.5°	95.5	61.0	29.5	0.0
40°	99.4	64.0	30.5	0.0
37.5°	104.4	66.0	32.5	0.0
35°	108.3	68.9	33.5	0.0
32.5°	111.3	70.9	34.5	0.0
30°	115.2	72.9	35.4	0.0
27.5°	118.2	74.8	35.4	0.0
25°	121.1	76.8	36.4	0.0
22.5°	124.1	77.8	37.4	0.0
20°	127.0	79.8	38.4	0.0
17.5°	129.0	80.7	38.4	0.0
15°	131.0	81.7	40.4	0.0
12.5°	131.9	82.7	40.4	0.0
10°	133.9	84.7	40.4	0.0
7.5°	135.9	84.7	40.4	0.0
5°	135.9	84.7	40.4	0.0
2.5°	135.9	84.7	40.4	0.0
0°	135.9	84.7	40.4	0.0

(END OF REPORT)