

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: P624545

Luminaire Tested: **IFLD-L-SA7B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23662.2 lumens	Max Intensity:	13141.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	84.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	10238.4 lumens	Field Lumens:	16765 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

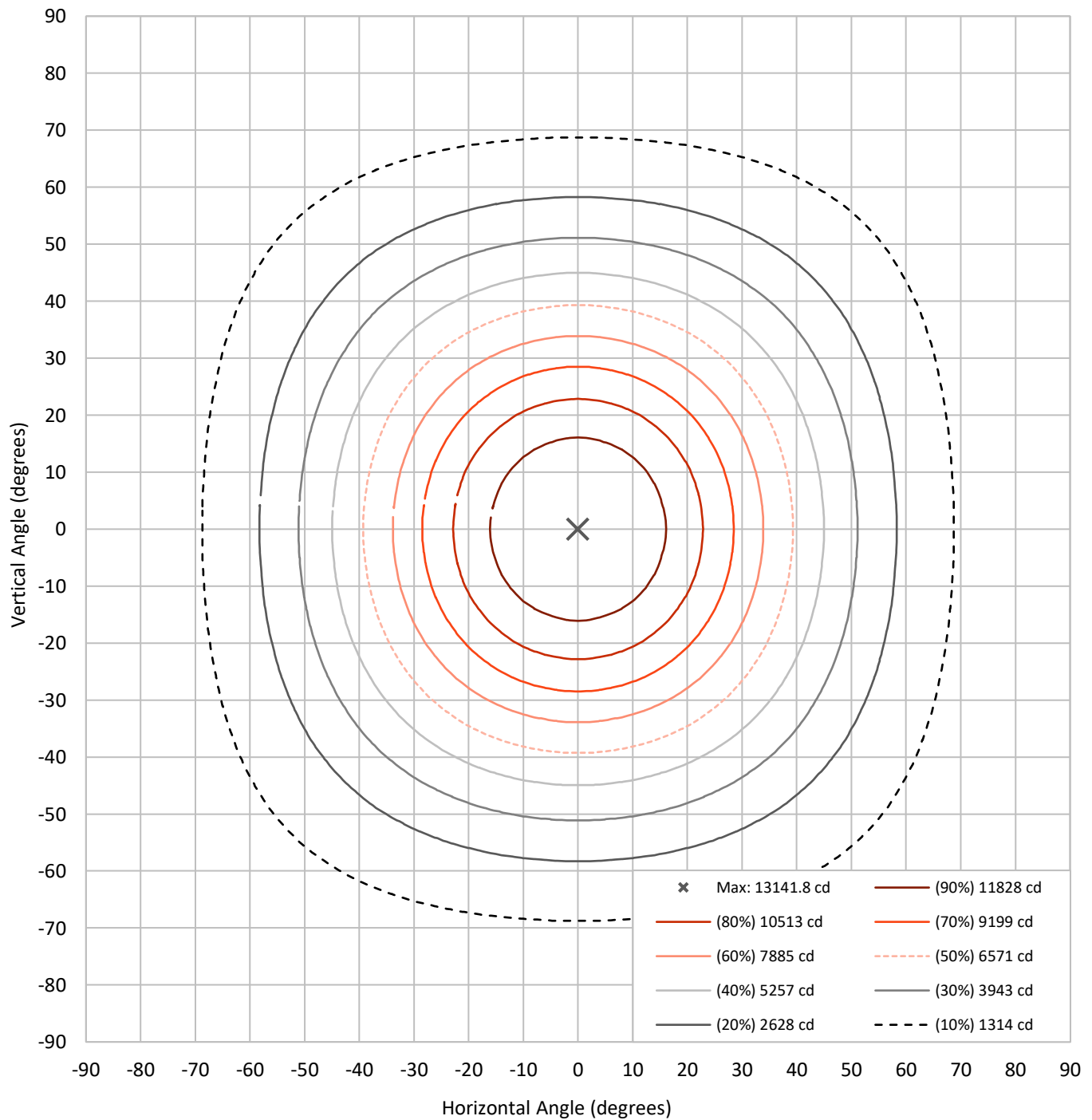
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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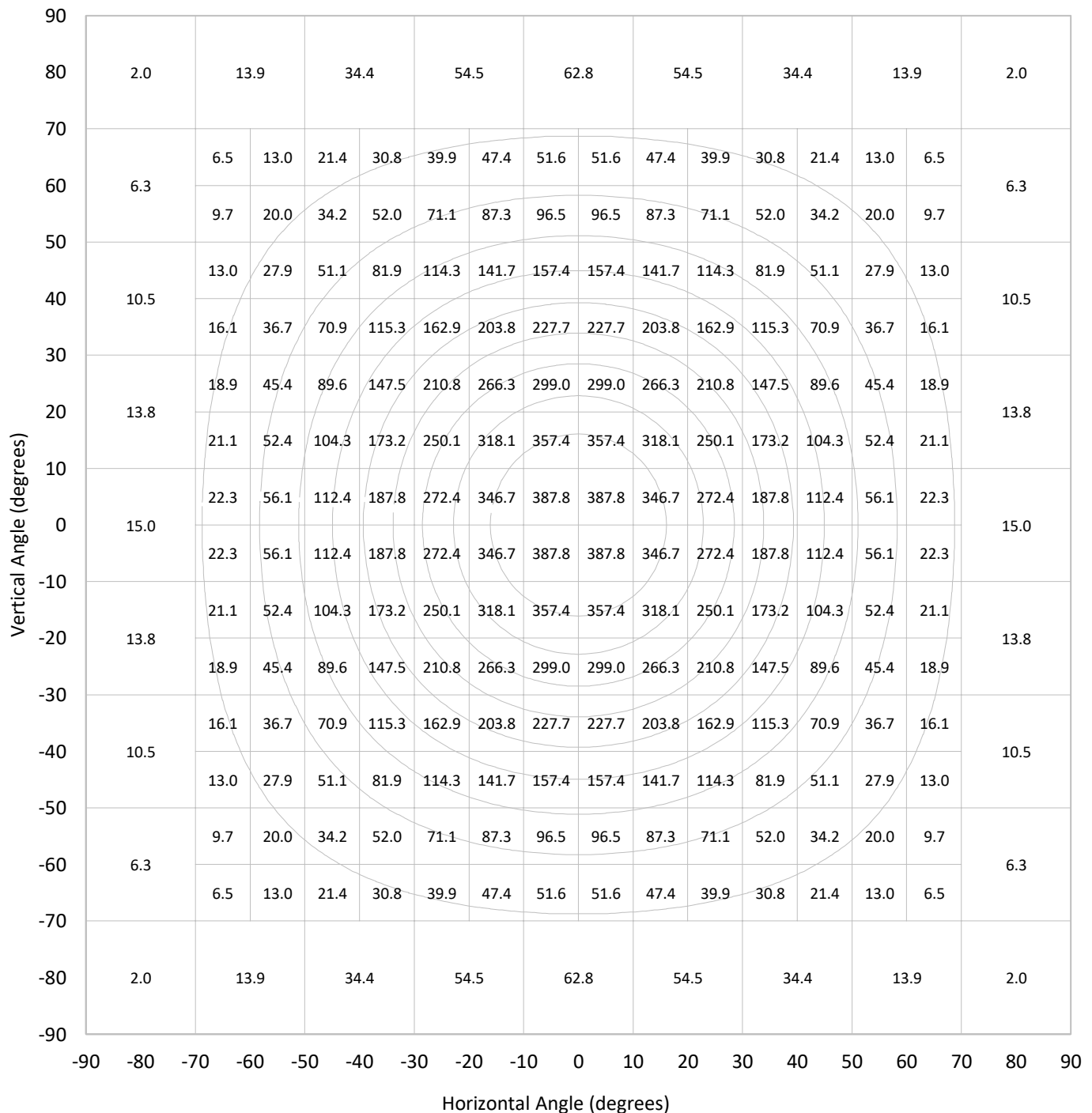
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Iso-Candela Plot



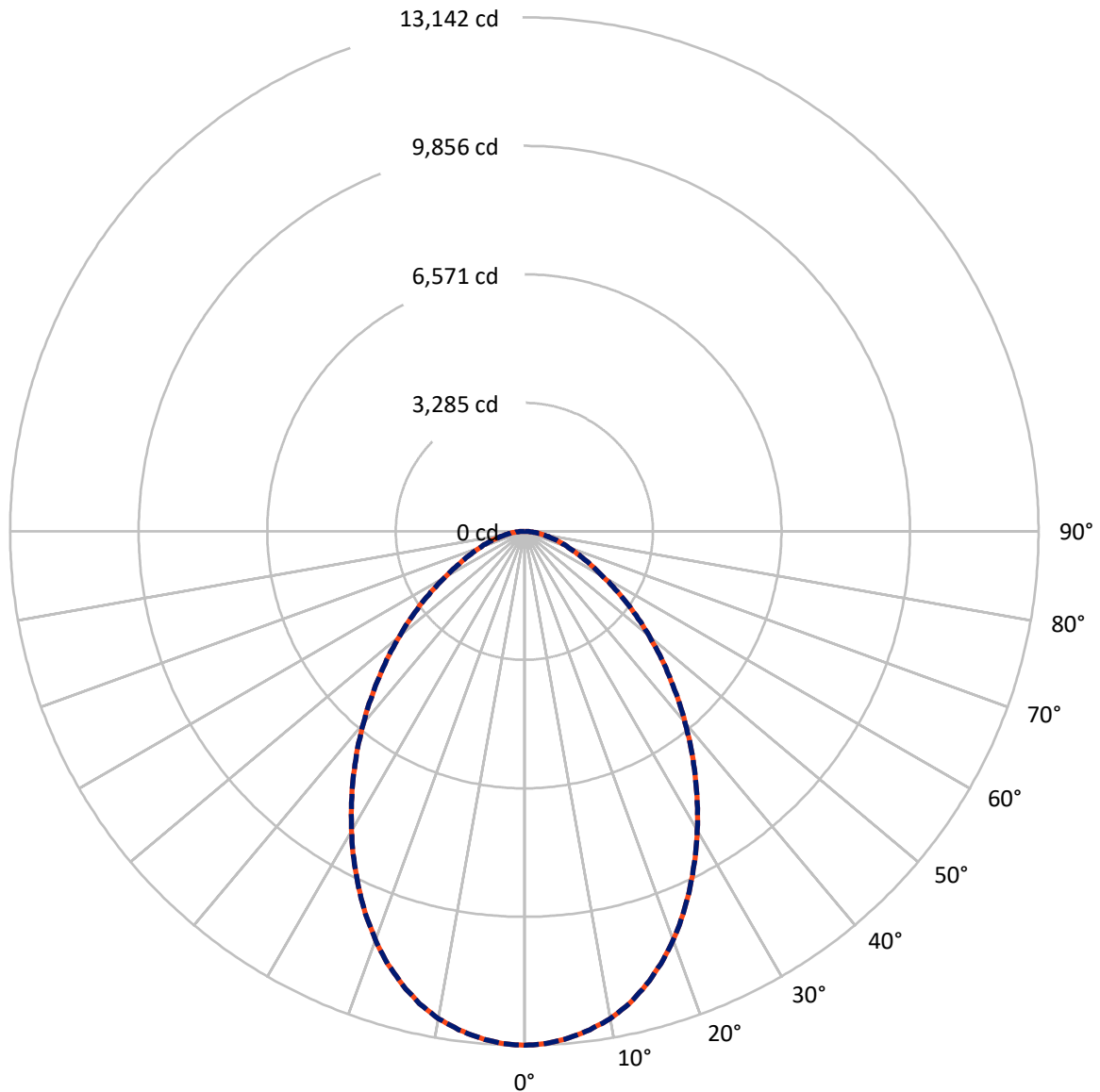
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Lumen Table



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Luminous Intensity Polar Plot

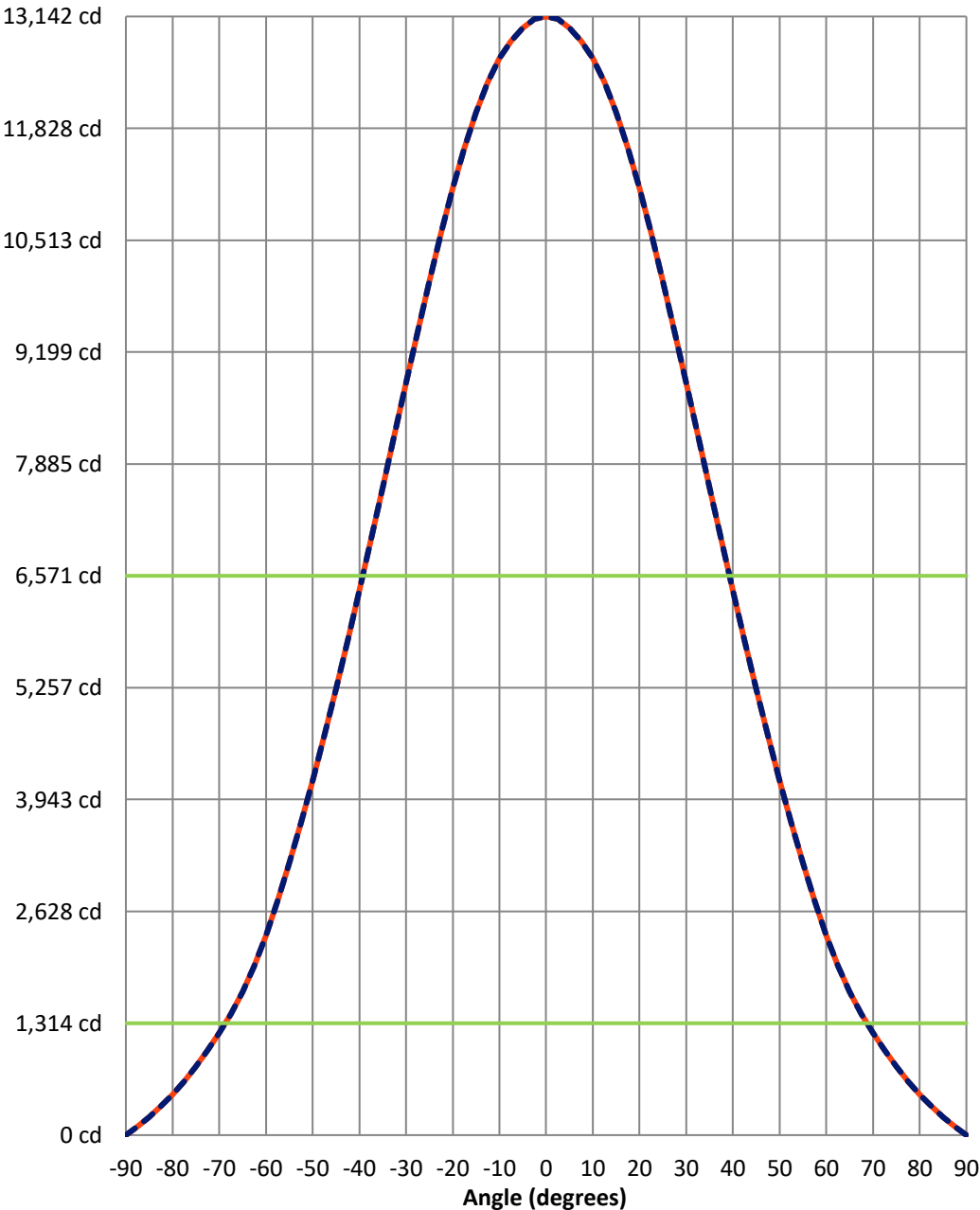


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 10238.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 16765
Efficiency: 70.9%

Spill:
Lumens: 6897.2
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°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	96.2	96.2	93.7	91.3
85°	212.2	212.2	212.2	212.2	212.2	207.2	204.8	202.3	199.8	194.9	192.4
82.5°	340.4	340.4	340.4	340.4	335.5	330.6	328.1	323.2	318.2	310.8	303.4
80°	476.1	476.1	476.1	476.1	468.7	463.8	456.4	451.5	444.1	434.2	424.3
77.5°	631.6	631.6	631.6	624.2	619.2	611.8	604.4	594.6	584.7	572.3	557.5
75°	806.7	806.7	806.7	796.8	789.4	782.0	769.7	757.4	742.6	725.3	705.6
72.5°	996.7	996.7	996.7	984.3	976.9	964.6	949.8	932.5	915.3	893.1	868.4
70°	1201.4	1201.4	1201.4	1186.6	1174.3	1162.0	1142.2	1122.5	1097.8	1073.2	1043.6
67.5°	1423.5	1423.5	1423.5	1406.2	1391.4	1374.1	1351.9	1327.3	1297.7	1263.1	1228.6
65°	1682.5	1682.5	1672.6	1657.8	1640.6	1615.9	1588.8	1554.2	1517.2	1472.8	1425.9
62.5°	1988.4	1988.4	1973.6	1956.3	1934.1	1902.1	1865.1	1820.7	1768.9	1712.1	1655.4
60°	2343.7	2343.7	2326.4	2304.2	2272.1	2232.7	2183.3	2126.6	2062.4	1990.9	1921.8
57.5°	2753.2	2753.2	2731.0	2701.4	2661.9	2612.6	2550.9	2479.4	2397.9	2309.1	2222.8
55°	3197.3	3197.3	3170.1	3135.6	3088.7	3029.5	2955.5	2871.6	2772.9	2671.8	2560.8
52.5°	3668.5	3668.5	3636.4	3596.9	3542.6	3473.6	3389.7	3291.0	3177.5	3059.1	2928.4
50°	4164.3	4164.3	4127.3	4082.9	4021.2	3939.8	3843.6	3730.1	3604.3	3466.2	3315.7
47.5°	4694.7	4694.7	4652.8	4601.0	4527.0	4433.2	4319.8	4189.0	4045.9	3890.5	3720.3
45°	5240.0	5240.0	5193.1	5133.9	5052.5	4946.4	4820.6	4694.7	4512.2	4332.1	4134.7
42.5°	5807.4	5807.4	5753.1	5686.5	5592.7	5476.8	5333.7	5170.9	4990.8	4788.5	4573.9
40°	6397.0	6397.0	6335.3	6258.8	6155.2	6022.0	5861.6	5679.1	5476.8	5252.3	5015.5
37.5°	6998.9	6998.9	6929.9	6846.0	6730.0	6582.0	6401.9	6199.6	5972.7	5723.5	5462.0
35°	7605.8	7605.8	7529.4	7438.1	7309.8	7147.0	6952.1	6727.6	6475.9	6204.6	5911.0
32.5°	8225.1	8225.1	8141.2	8037.6	7892.0	7711.9	7497.3	7253.0	6998.9	6683.2	6362.4
30°	8836.9	8836.9	8745.6	8632.1	8476.7	8279.3	8045.0	7776.1	7477.5	7154.4	6809.0
27.5°	9438.8	9414.2	9337.7	9216.8	9046.6	8836.9	8582.8	8291.7	7968.5	7613.2	7243.2
25°	10030.9	10003.8	9919.9	9786.7	9604.1	9374.7	9100.8	8790.0	8442.1	8067.2	7662.6
22.5°	10598.3	10568.7	10479.9	10336.8	10141.9	9892.8	9599.2	9266.1	8896.1	8494.0	8067.2
20°	11123.8	11091.7	11000.4	10850.0	10647.7	10383.7	10072.8	9715.1	9320.4	8896.1	8442.1
17.5°	11597.5	11565.4	11469.2	11313.8	11123.8	10830.2	10509.5	10132.1	9715.1	9266.1	8790.0
15°	12014.4	11979.9	11881.2	11725.8	11508.7	11232.4	10894.4	10509.5	10072.8	9599.2	9100.8
12.5°	12369.6	12335.1	12234.0	12078.5	11854.0	11577.7	11232.4	10830.2	10383.7	9892.8	9374.7
10°	12650.9	12616.3	12520.1	12372.1	12140.2	11854.0	11508.7	11123.8	10647.7	10141.9	9604.1
7.5°	12853.2	12821.1	12732.3	12584.3	12372.1	12078.5	11725.8	11313.8	10850.0	10336.8	9786.7
5°	13006.1	12969.1	12880.3	12732.3	12520.1	12234.0	11881.2	11469.2	11000.4	10479.9	9919.9
2.5°	13112.2	13067.8	12969.1	12821.1	12616.3	12335.1	11979.9	11565.4	11091.7	10568.7	10003.8
0°	13141.8	13112.2	13006.1	12853.2	12650.9	12369.6	12014.4	11597.5	11123.8	10598.3	10030.9

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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°	88.8	88.8	86.3	83.9	81.4	76.5	74.0	71.5	69.1	64.1	61.7
85°	187.5	182.6	177.6	172.7	165.3	160.4	153.0	148.0	140.6	133.2	125.8
82.5°	296.0	288.6	278.8	271.4	261.5	249.2	239.3	227.0	214.6	204.8	192.4
80°	414.5	402.1	389.8	377.5	362.7	347.9	333.0	318.2	301.0	283.7	266.4
77.5°	542.7	525.5	508.2	488.5	471.2	451.5	431.7	412.0	389.8	367.6	345.4
75°	685.8	663.6	639.0	614.3	592.1	564.9	537.8	510.7	481.1	453.9	424.3
72.5°	841.3	814.1	784.5	754.9	722.8	688.3	653.8	616.8	582.2	547.7	510.7
70°	1009.0	976.9	939.9	902.9	863.5	821.5	779.6	735.2	690.8	646.4	602.0
67.5°	1189.1	1149.6	1105.2	1060.8	1011.5	962.1	912.8	861.0	806.7	752.4	700.6
65°	1381.5	1332.2	1280.4	1223.6	1166.9	1110.2	1051.0	989.3	927.6	863.5	806.7
62.5°	1596.2	1534.5	1467.9	1398.8	1334.7	1265.6	1201.4	1125.0	1051.0	979.4	907.9
60°	1845.3	1763.9	1682.5	1596.2	1514.8	1425.9	1347.0	1263.1	1179.2	1097.8	1013.9
57.5°	2124.1	2020.5	1921.8	1818.2	1709.6	1611.0	1509.8	1408.7	1314.9	1218.7	1127.4
55°	2439.9	2314.1	2190.7	2062.4	1936.6	1813.3	1685.0	1571.5	1455.5	1347.0	1240.9
52.5°	2785.3	2642.2	2489.2	2343.7	2183.3	2030.4	1887.3	1744.2	1608.5	1477.7	1356.9
50°	3155.3	2987.6	2812.4	2634.8	2452.2	2272.1	2099.4	1931.7	1773.8	1620.8	1477.7
47.5°	3540.2	3350.2	3150.4	2948.1	2753.2	2533.6	2326.4	2136.4	1946.5	1773.8	1608.5
45°	3934.9	3720.3	3500.7	3271.3	3041.8	2805.0	2575.6	2343.7	2136.4	1931.7	1744.2
42.5°	4342.0	4100.2	3856.0	3601.9	3347.7	3088.7	2829.7	2575.6	2326.4	2099.4	1887.3
40°	4761.4	4494.9	4216.1	3939.8	3668.5	3372.4	3088.7	2805.0	2533.6	2272.1	2030.4
37.5°	5180.7	4889.6	4588.7	4277.8	3967.0	3668.5	3347.7	3041.8	2753.2	2452.2	2183.3
35°	5602.6	5281.9	4956.2	4618.3	4277.8	3939.8	3601.9	3271.3	2948.1	2634.8	2343.7
32.5°	6026.9	5676.6	5316.4	4956.2	4588.7	4216.1	3856.0	3500.7	3150.4	2812.4	2489.2
30°	6443.9	6063.9	5676.6	5281.9	4889.6	4494.9	4100.2	3720.3	3350.2	2987.6	2642.2
27.5°	6850.9	6443.9	6026.9	5602.6	5180.7	4761.4	4342.0	3934.9	3540.2	3155.3	2785.3
25°	7243.2	6809.0	6362.4	5911.0	5462.0	5015.5	4573.9	4134.7	3720.3	3315.7	2928.4
22.5°	7613.2	7154.4	6683.2	6204.6	5723.5	5252.3	4788.5	4332.1	3890.5	3466.2	3059.1
20°	7968.5	7477.5	6998.9	6475.9	5972.7	5476.8	4990.8	4512.2	4045.9	3604.3	3177.5
17.5°	8291.7	7776.1	7253.0	6727.6	6199.6	5679.1	5170.9	4694.7	4189.0	3730.1	3291.0
15°	8582.8	8045.0	7497.3	6952.1	6401.9	5861.6	5333.7	4820.6	4319.8	3843.6	3389.7
12.5°	8836.9	8279.3	7711.9	7147.0	6582.0	6022.0	5476.8	4946.4	4433.2	3939.8	3473.6
10°	9046.6	8476.7	7892.0	7309.8	6730.0	6155.2	5592.7	5052.5	4527.0	4021.2	3542.6
7.5°	9216.8	8632.1	8037.6	7438.1	6846.0	6258.8	5686.5	5133.9	4601.0	4082.9	3596.9
5°	9337.7	8745.6	8141.2	7529.4	6929.9	6335.3	5753.1	5193.1	4652.8	4127.3	3636.4
2.5°	9414.2	8836.9	8225.1	7605.8	6998.9	6397.0	5807.4	5240.0	4694.7	4164.3	3668.5
0°	9438.8	8836.9	8225.1	7605.8	6998.9	6397.0	5807.4	5240.0	4694.7	4164.3	3668.5

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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°	59.2	54.3	49.3	46.9	41.9	39.5	34.5	29.6	27.1	22.2	17.3
85°	118.4	108.5	101.1	93.7	86.3	76.5	69.1	61.7	51.8	44.4	34.5
82.5°	180.1	167.8	155.4	143.1	130.8	118.4	103.6	91.3	78.9	66.6	51.8
80°	249.2	229.4	212.2	194.9	177.6	160.4	140.6	123.4	103.6	86.3	69.1
77.5°	320.7	298.5	273.8	249.2	224.5	202.3	177.6	155.4	133.2	108.5	86.3
75°	397.2	367.6	340.4	308.4	278.8	246.7	217.1	187.5	160.4	133.2	103.6
72.5°	476.1	439.1	402.1	367.6	330.6	293.6	259.0	222.0	187.5	155.4	123.4
70°	557.5	513.1	468.7	426.8	384.9	340.4	301.0	259.0	217.1	177.6	140.6
67.5°	643.9	592.1	540.3	486.0	439.1	389.8	340.4	293.6	246.7	202.3	160.4
65°	737.6	676.0	611.8	555.1	493.4	439.1	384.9	330.6	278.8	224.5	177.6
62.5°	833.9	762.3	690.8	619.2	555.1	486.0	426.8	367.6	308.4	249.2	194.9
60°	932.5	851.1	769.7	690.8	611.8	540.3	468.7	402.1	340.4	273.8	212.2
57.5°	1033.7	942.4	851.1	762.3	676.0	592.1	513.1	439.1	367.6	298.5	229.4
55°	1137.3	1033.7	932.5	833.9	737.6	643.9	557.5	476.1	397.2	320.7	249.2
52.5°	1240.9	1127.4	1013.9	907.9	806.7	700.6	602.0	510.7	424.3	345.4	266.4
50°	1347.0	1218.7	1097.8	979.4	863.5	752.4	646.4	547.7	453.9	367.6	283.7
47.5°	1455.5	1314.9	1179.2	1051.0	927.6	806.7	690.8	582.2	481.1	389.8	301.0
45°	1571.5	1408.7	1263.1	1125.0	989.3	861.0	735.2	616.8	510.7	412.0	318.2
42.5°	1685.0	1509.8	1347.0	1201.4	1051.0	912.8	779.6	653.8	537.8	431.7	333.0
40°	1813.3	1611.0	1425.9	1265.6	1110.2	962.1	821.5	688.3	564.9	451.5	347.9
37.5°	1936.6	1709.6	1514.8	1334.7	1166.9	1011.5	863.5	722.8	592.1	471.2	362.7
35°	2062.4	1818.2	1596.2	1398.8	1223.6	1060.8	902.9	754.9	614.3	488.5	377.5
32.5°	2190.7	1921.8	1682.5	1467.9	1280.4	1105.2	939.9	784.5	639.0	508.2	389.8
30°	2314.1	2020.5	1763.9	1534.5	1332.2	1149.6	976.9	814.1	663.6	525.5	402.1
27.5°	2439.9	2124.1	1845.3	1596.2	1381.5	1189.1	1009.0	841.3	685.8	542.7	414.5
25°	2560.8	2222.8	1921.8	1655.4	1425.9	1228.6	1043.6	868.4	705.6	557.5	424.3
22.5°	2671.8	2309.1	1990.9	1712.1	1472.8	1263.1	1073.2	893.1	725.3	572.3	434.2
20°	2772.9	2397.9	2062.4	1768.9	1517.2	1297.7	1097.8	915.3	742.6	584.7	444.1
17.5°	2871.6	2479.4	2126.6	1820.7	1554.2	1327.3	1122.5	932.5	757.4	594.6	451.5
15°	2955.5	2550.9	2183.3	1865.1	1588.8	1351.9	1142.2	949.8	769.7	604.4	456.4
12.5°	3029.5	2612.6	2232.7	1902.1	1615.9	1374.1	1162.0	964.6	782.0	611.8	463.8
10°	3088.7	2661.9	2272.1	1934.1	1640.6	1391.4	1174.3	976.9	789.4	619.2	468.7
7.5°	3135.6	2701.4	2304.2	1956.3	1657.8	1406.2	1186.6	984.3	796.8	624.2	476.1
5°	3170.1	2731.0	2326.4	1973.6	1672.6	1423.5	1201.4	996.7	806.7	631.6	476.1
2.5°	3197.3	2753.2	2343.7	1988.4	1682.5	1423.5	1201.4	996.7	806.7	631.6	476.1
0°	3197.3	2753.2	2343.7	1988.4	1682.5	1423.5	1201.4	996.7	806.7	631.6	476.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.3	9.9	4.9	0.0
85°	27.1	17.3	9.9	0.0
82.5°	39.5	27.1	12.3	0.0
80°	51.8	34.5	17.3	0.0
77.5°	66.6	44.4	22.2	0.0
75°	78.9	51.8	27.1	0.0
72.5°	91.3	61.7	29.6	0.0
70°	103.6	69.1	34.5	0.0
67.5°	118.4	76.5	39.5	0.0
65°	130.8	86.3	41.9	0.0
62.5°	143.1	93.7	46.9	0.0
60°	155.4	101.1	49.3	0.0
57.5°	167.8	108.5	54.3	0.0
55°	180.1	118.4	59.2	0.0
52.5°	192.4	125.8	61.7	0.0
50°	204.8	133.2	64.1	0.0
47.5°	214.6	140.6	69.1	0.0
45°	227.0	148.0	71.5	0.0
42.5°	239.3	153.0	74.0	0.0
40°	249.2	160.4	76.5	0.0
37.5°	261.5	165.3	81.4	0.0
35°	271.4	172.7	83.9	0.0
32.5°	278.8	177.6	86.3	0.0
30°	288.6	182.6	88.8	0.0
27.5°	296.0	187.5	88.8	0.0
25°	303.4	192.4	91.3	0.0
22.5°	310.8	194.9	93.7	0.0
20°	318.2	199.8	96.2	0.0
17.5°	323.2	202.3	96.2	0.0
15°	328.1	204.8	101.1	0.0
12.5°	330.6	207.2	101.1	0.0
10°	335.5	212.2	101.1	0.0
7.5°	340.4	212.2	101.1	0.0
5°	340.4	212.2	101.1	0.0
2.5°	340.4	212.2	101.1	0.0
0°	340.4	212.2	101.1	0.0

(END OF REPORT)