

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: P624592

Luminaire Tested: **IFLD-S-SA6A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624592
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

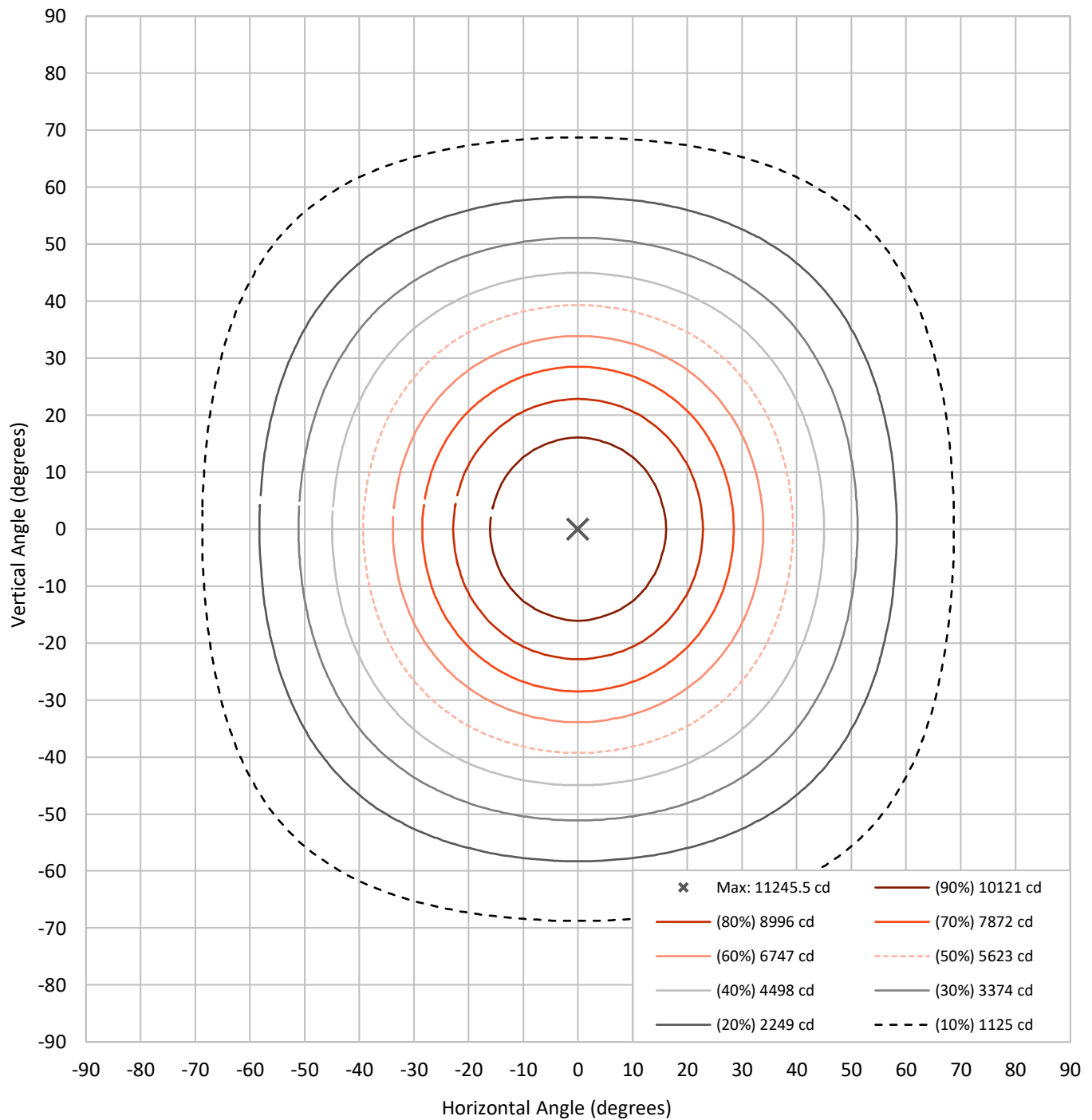
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20247.7 lumens	Max Intensity:	11245.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8761 lumens	Field Lumens:	14345.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	189.6		
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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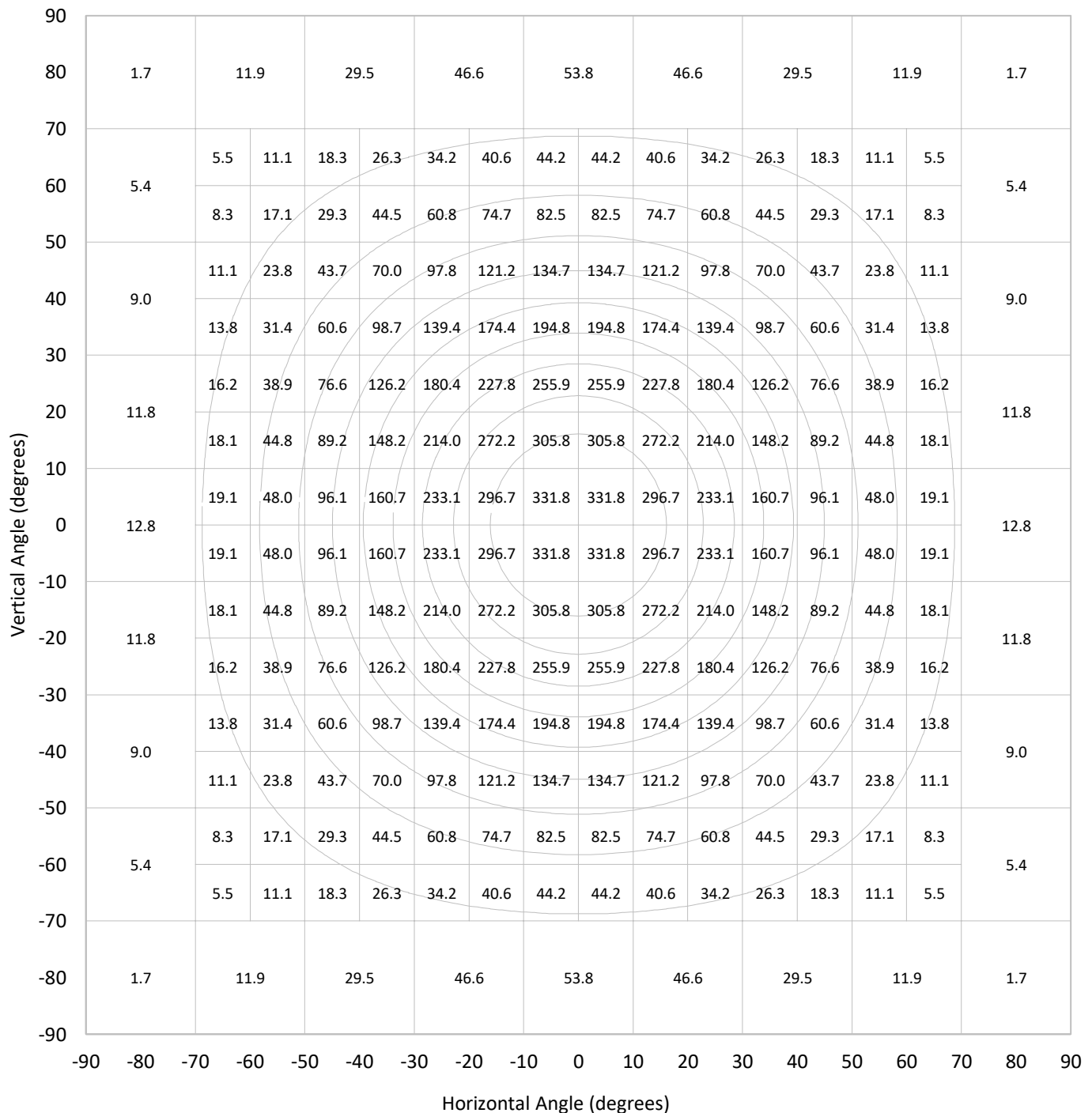
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Iso-Candela Plot



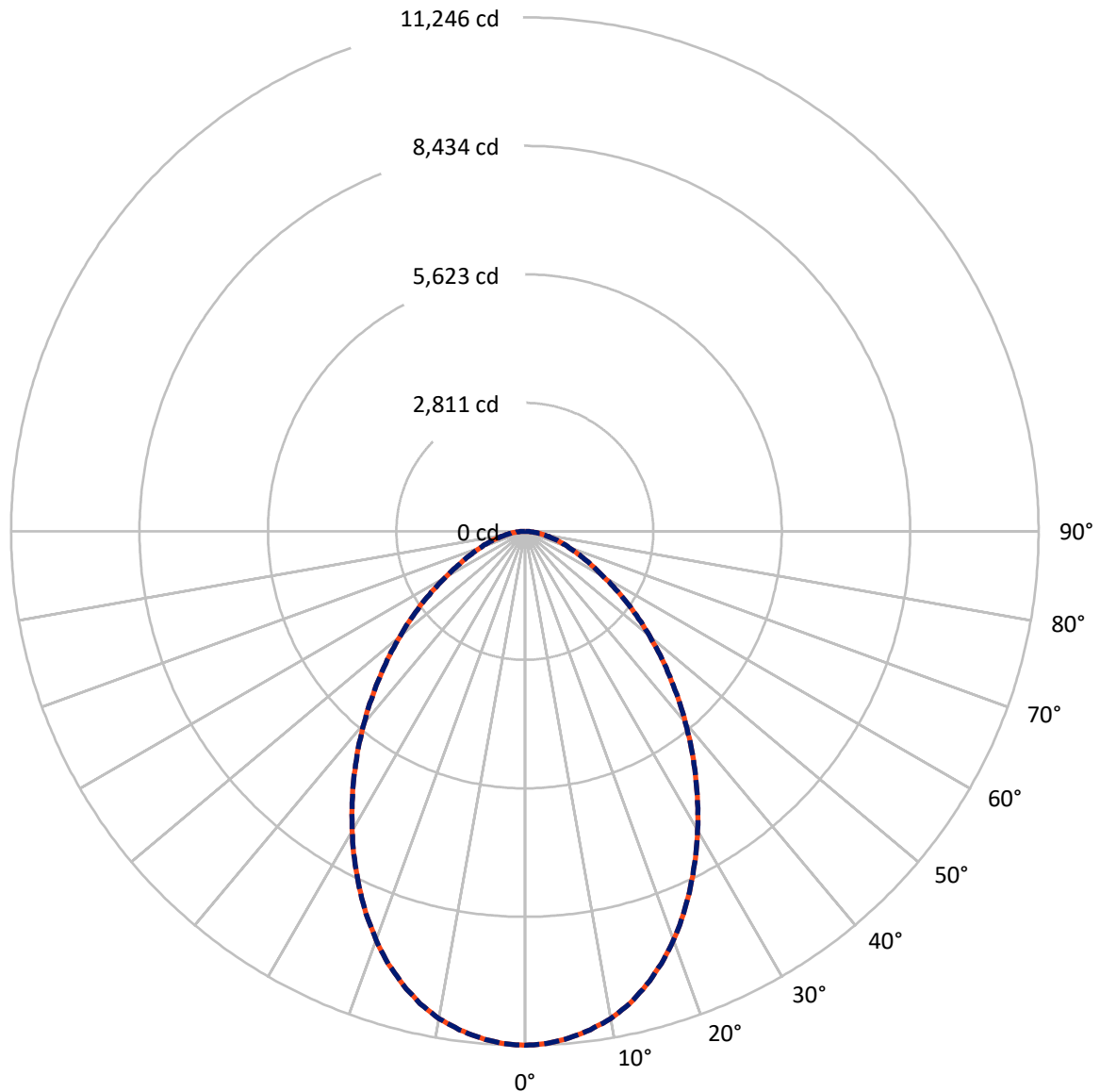
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Lumen Table



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Luminous Intensity Polar Plot

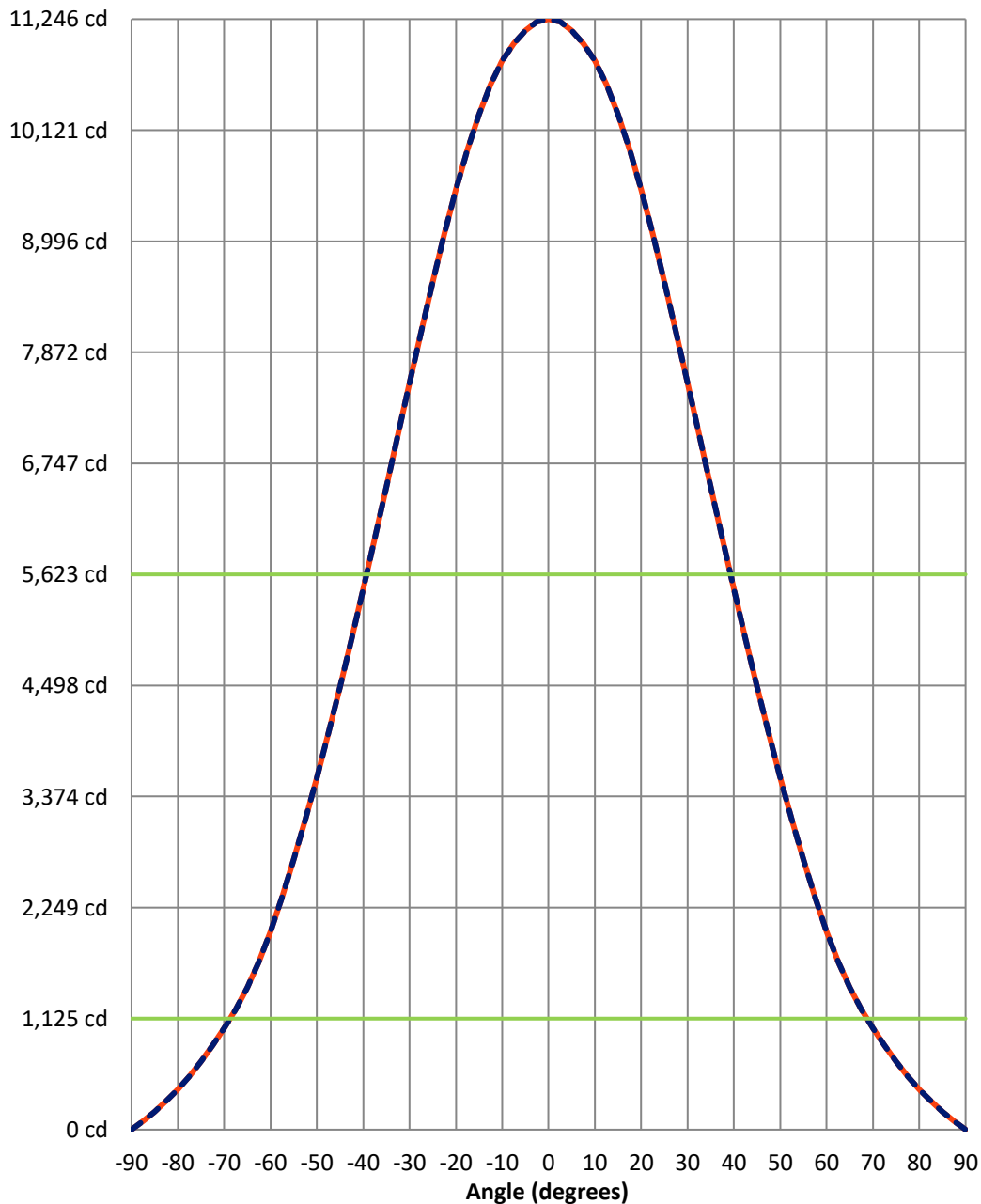


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— 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°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	82.3	82.3	80.2	78.1
85°	181.5	181.5	181.5	181.5	181.5	177.3	175.2	173.1	171.0	166.8	164.7
82.5°	291.3	291.3	291.3	291.3	287.1	282.9	280.8	276.5	272.3	266.0	259.7
80°	407.4	407.4	407.4	407.4	401.1	396.9	390.5	386.3	380.0	371.5	363.1
77.5°	540.4	540.4	540.4	534.1	529.9	523.5	517.2	508.8	500.3	489.8	477.1
75°	690.3	690.3	690.3	681.9	675.5	669.2	658.6	648.1	635.4	620.6	603.8
72.5°	852.9	852.9	852.9	842.3	836.0	825.4	812.7	798.0	783.2	764.2	743.1
70°	1028.1	1028.1	1028.1	1015.4	1004.9	994.3	977.4	960.5	939.4	918.3	893.0
67.5°	1218.1	1218.1	1218.1	1203.3	1190.6	1175.8	1156.8	1135.7	1110.4	1080.9	1051.3
65°	1439.7	1439.7	1431.3	1418.6	1403.8	1382.7	1359.5	1330.0	1298.3	1260.3	1220.2
62.5°	1701.5	1701.5	1688.8	1674.1	1655.1	1627.6	1595.9	1557.9	1513.6	1465.1	1416.5
60°	2005.5	2005.5	1990.7	1971.7	1944.3	1910.5	1868.3	1819.7	1764.8	1703.6	1644.5
57.5°	2355.9	2355.9	2336.9	2311.6	2277.8	2235.6	2182.8	2121.6	2051.9	1975.9	1902.0
55°	2735.9	2735.9	2712.7	2683.1	2643.0	2592.4	2529.0	2457.2	2372.8	2286.3	2191.3
52.5°	3139.1	3139.1	3111.7	3077.9	3031.4	2972.3	2900.6	2816.1	2719.0	2617.7	2505.8
50°	3563.4	3563.4	3531.8	3493.8	3441.0	3371.3	3289.0	3191.9	3084.2	2966.0	2837.2
47.5°	4017.3	4017.3	3981.4	3937.1	3873.8	3793.5	3696.4	3584.5	3462.1	3329.1	3183.4
45°	4483.8	4483.8	4443.7	4393.1	4323.4	4232.6	4125.0	4017.3	3861.1	3707.0	3538.1
42.5°	4969.4	4969.4	4922.9	4865.9	4785.7	4686.5	4564.1	4424.7	4270.6	4097.5	3913.9
40°	5473.9	5473.9	5421.1	5355.7	5267.0	5153.0	5015.8	4859.6	4686.5	4494.4	4291.7
37.5°	5989.0	5989.0	5929.9	5858.1	5758.9	5632.2	5478.1	5305.0	5110.8	4897.6	4673.8
35°	6508.3	6508.3	6442.9	6364.8	6255.0	6115.7	5948.9	5756.8	5541.5	5309.3	5058.0
32.5°	7038.2	7038.2	6966.4	6877.8	6753.2	6599.1	6415.4	6206.4	5989.0	5718.8	5444.4
30°	7561.7	7561.7	7483.6	7386.5	7253.5	7084.6	6884.1	6654.0	6398.5	6122.0	5826.5
27.5°	8076.8	8055.7	7990.3	7886.8	7741.2	7561.7	7344.3	7095.2	6818.6	6514.7	6198.0
25°	8583.5	8560.2	8488.5	8374.5	8218.3	8021.9	7787.6	7521.6	7224.0	6903.1	6556.9
22.5°	9069.0	9043.7	8967.7	8845.2	8678.5	8465.3	8214.0	7929.0	7612.4	7268.3	6903.1
20°	9518.7	9491.2	9413.1	9284.3	9111.2	8885.3	8619.4	8313.3	7975.5	7612.4	7224.0
17.5°	9924.0	9896.5	9814.2	9681.2	9518.7	9267.4	8993.0	8670.0	8313.3	7929.0	7521.6
15°	10280.7	10251.2	10166.7	10033.8	9848.0	9611.5	9322.3	8993.0	8619.4	8214.0	7787.6
12.5°	10584.7	10555.2	10468.6	10335.6	10143.5	9907.1	9611.5	9267.4	8885.3	8465.3	8021.9
10°	10825.4	10795.8	10713.5	10586.8	10388.4	10143.5	9848.0	9518.7	9111.2	8678.5	8218.3
7.5°	10998.5	10971.1	10895.1	10768.4	10586.8	10335.6	10033.8	9681.2	9284.3	8845.2	8374.5
5°	11129.4	11097.7	11021.7	10895.1	10713.5	10468.6	10166.7	9814.2	9413.1	8967.7	8488.5
2.5°	11220.2	11182.2	11097.7	10971.1	10795.8	10555.2	10251.2	9896.5	9491.2	9043.7	8560.2
0°	11245.5	11220.2	11129.4	10998.5	10825.4	10584.7	10280.7	9924.0	9518.7	9069.0	8583.5

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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°	76.0	76.0	73.9	71.8	69.7	65.4	63.3	61.2	59.1	54.9	52.8
85°	160.4	156.2	152.0	147.8	141.4	137.2	130.9	126.7	120.3	114.0	107.7
82.5°	253.3	247.0	238.5	232.2	223.8	213.2	204.8	194.2	183.7	175.2	164.7
80°	354.7	344.1	333.5	323.0	310.3	297.7	285.0	272.3	257.5	242.8	228.0
77.5°	464.4	449.7	434.9	418.0	403.2	386.3	369.4	352.5	333.5	314.5	295.5
75°	586.9	567.9	546.8	525.6	506.6	483.4	460.2	437.0	411.7	388.4	363.1
72.5°	719.9	696.6	671.3	646.0	618.5	589.0	559.4	527.8	498.2	468.6	437.0
70°	863.4	836.0	804.3	772.6	738.9	703.0	667.1	629.1	591.1	553.1	515.1
67.5°	1017.5	983.7	945.7	907.7	865.5	823.3	781.1	736.8	690.3	643.9	599.5
65°	1182.2	1140.0	1095.6	1047.1	998.5	950.0	899.3	846.5	793.7	738.9	690.3
62.5°	1365.8	1313.1	1256.1	1197.0	1142.1	1083.0	1028.1	962.6	899.3	838.1	776.9
60°	1579.1	1509.4	1439.7	1365.8	1296.2	1220.2	1152.6	1080.9	1009.1	939.4	867.6
57.5°	1817.6	1728.9	1644.5	1555.8	1462.9	1378.5	1292.0	1205.4	1125.2	1042.9	964.7
55°	2087.8	1980.2	1874.6	1764.8	1657.2	1551.6	1441.8	1344.7	1245.5	1152.6	1061.9
52.5°	2383.4	2260.9	2130.0	2005.5	1868.3	1737.4	1614.9	1492.5	1376.4	1264.5	1161.1
50°	2700.0	2556.5	2406.6	2254.6	2098.4	1944.3	1796.5	1652.9	1517.8	1387.0	1264.5
47.5°	3029.3	2866.8	2695.8	2522.7	2355.9	2168.0	1990.7	1828.2	1665.6	1517.8	1376.4
45°	3367.1	3183.4	2995.6	2799.2	2602.9	2400.2	2203.9	2005.5	1828.2	1652.9	1492.5
42.5°	3715.4	3508.5	3299.5	3082.1	2864.7	2643.0	2421.4	2203.9	1990.7	1796.5	1614.9
40°	4074.3	3846.3	3607.8	3371.3	3139.1	2885.8	2643.0	2400.2	2168.0	1944.3	1737.4
37.5°	4433.2	4184.1	3926.5	3660.5	3394.5	3139.1	2864.7	2602.9	2355.9	2098.4	1868.3
35°	4794.2	4519.7	4241.1	3951.9	3660.5	3371.3	3082.1	2799.2	2522.7	2254.6	2005.5
32.5°	5157.3	4857.5	4549.3	4241.1	3926.5	3607.8	3299.5	2995.6	2695.8	2406.6	2130.0
30°	5514.0	5188.9	4857.5	4519.7	4184.1	3846.3	3508.5	3183.4	2866.8	2556.5	2260.9
27.5°	5862.3	5514.0	5157.3	4794.2	4433.2	4074.3	3715.4	3367.1	3029.3	2700.0	2383.4
25°	6198.0	5826.5	5444.4	5058.0	4673.8	4291.7	3913.9	3538.1	3183.4	2837.2	2505.8
22.5°	6514.7	6122.0	5718.8	5309.3	4897.6	4494.4	4097.5	3707.0	3329.1	2966.0	2617.7
20°	6818.6	6398.5	5989.0	5541.5	5110.8	4686.5	4270.6	3861.1	3462.1	3084.2	2719.0
17.5°	7095.2	6654.0	6206.4	5756.8	5305.0	4859.6	4424.7	4017.3	3584.5	3191.9	2816.1
15°	7344.3	6884.1	6415.4	5948.9	5478.1	5015.8	4564.1	4125.0	3696.4	3289.0	2900.6
12.5°	7561.7	7084.6	6599.1	6115.7	5632.2	5153.0	4686.5	4232.6	3793.5	3371.3	2972.3
10°	7741.2	7253.5	6753.2	6255.0	5758.9	5267.0	4785.7	4323.4	3873.8	3441.0	3031.4
7.5°	7886.8	7386.5	6877.8	6364.8	5858.1	5355.7	4865.9	4393.1	3937.1	3493.8	3077.9
5°	7990.3	7483.6	6966.4	6442.9	5929.9	5421.1	4922.9	4443.7	3981.4	3531.8	3111.7
2.5°	8055.7	7561.7	7038.2	6508.3	5989.0	5473.9	4969.4	4483.8	4017.3	3563.4	3139.1
0°	8076.8	7561.7	7038.2	6508.3	5989.0	5473.9	4969.4	4483.8	4017.3	3563.4	3139.1

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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°	50.7	46.4	42.2	40.1	35.9	33.8	29.6	25.3	23.2	19.0	14.8
85°	101.3	92.9	86.6	80.2	73.9	65.4	59.1	52.8	44.3	38.0	29.6
82.5°	154.1	143.6	133.0	122.4	111.9	101.3	88.7	78.1	67.6	57.0	44.3
80°	213.2	196.3	181.5	166.8	152.0	137.2	120.3	105.6	88.7	73.9	59.1
77.5°	274.4	255.4	234.3	213.2	192.1	173.1	152.0	133.0	114.0	92.9	73.9
75°	339.9	314.5	291.3	263.9	238.5	211.1	185.8	160.4	137.2	114.0	88.7
72.5°	407.4	375.8	344.1	314.5	282.9	251.2	221.7	190.0	160.4	133.0	105.6
70°	477.1	439.1	401.1	365.2	329.3	291.3	257.5	221.7	185.8	152.0	120.3
67.5°	551.0	506.6	462.3	415.9	375.8	333.5	291.3	251.2	211.1	173.1	137.2
65°	631.2	578.4	523.5	475.0	422.2	375.8	329.3	282.9	238.5	192.1	152.0
62.5°	713.5	652.3	591.1	529.9	475.0	415.9	365.2	314.5	263.9	213.2	166.8
60°	798.0	728.3	658.6	591.1	523.5	462.3	401.1	344.1	291.3	234.3	181.5
57.5°	884.5	806.4	728.3	652.3	578.4	506.6	439.1	375.8	314.5	255.4	196.3
55°	973.2	884.5	798.0	713.5	631.2	551.0	477.1	407.4	339.9	274.4	213.2
52.5°	1061.9	964.7	867.6	776.9	690.3	599.5	515.1	437.0	363.1	295.5	228.0
50°	1152.6	1042.9	939.4	838.1	738.9	643.9	553.1	468.6	388.4	314.5	242.8
47.5°	1245.5	1125.2	1009.1	899.3	793.7	690.3	591.1	498.2	411.7	333.5	257.5
45°	1344.7	1205.4	1080.9	962.6	846.5	736.8	629.1	527.8	437.0	352.5	272.3
42.5°	1441.8	1292.0	1152.6	1028.1	899.3	781.1	667.1	559.4	460.2	369.4	285.0
40°	1551.6	1378.5	1220.2	1083.0	950.0	823.3	703.0	589.0	483.4	386.3	297.7
37.5°	1657.2	1462.9	1296.2	1142.1	998.5	865.5	738.9	618.5	506.6	403.2	310.3
35°	1764.8	1555.8	1365.8	1197.0	1047.1	907.7	772.6	646.0	525.6	418.0	323.0
32.5°	1874.6	1644.5	1439.7	1256.1	1095.6	945.7	804.3	671.3	546.8	434.9	333.5
30°	1980.2	1728.9	1509.4	1313.1	1140.0	983.7	836.0	696.6	567.9	449.7	344.1
27.5°	2087.8	1817.6	1579.1	1365.8	1182.2	1017.5	863.4	719.9	586.9	464.4	354.7
25°	2191.3	1902.0	1644.5	1416.5	1220.2	1051.3	893.0	743.1	603.8	477.1	363.1
22.5°	2286.3	1975.9	1703.6	1465.1	1260.3	1080.9	918.3	764.2	620.6	489.8	371.5
20°	2372.8	2051.9	1764.8	1513.6	1298.3	1110.4	939.4	783.2	635.4	500.3	380.0
17.5°	2457.2	2121.6	1819.7	1557.9	1330.0	1135.7	960.5	798.0	648.1	508.8	386.3
15°	2529.0	2182.8	1868.3	1595.9	1359.5	1156.8	977.4	812.7	658.6	517.2	390.5
12.5°	2592.4	2235.6	1910.5	1627.6	1382.7	1175.8	994.3	825.4	669.2	523.5	396.9
10°	2643.0	2277.8	1944.3	1655.1	1403.8	1190.6	1004.9	836.0	675.5	529.9	401.1
7.5°	2683.1	2311.6	1971.7	1674.1	1418.6	1203.3	1015.4	842.3	681.9	534.1	407.4
5°	2712.7	2336.9	1990.7	1688.8	1431.3	1218.1	1028.1	852.9	690.3	540.4	407.4
2.5°	2735.9	2355.9	2005.5	1701.5	1439.7	1218.1	1028.1	852.9	690.3	540.4	407.4
0°	2735.9	2355.9	2005.5	1701.5	1439.7	1218.1	1028.1	852.9	690.3	540.4	407.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.6	8.4	4.2	0.0
85°	23.2	14.8	8.4	0.0
82.5°	33.8	23.2	10.6	0.0
80°	44.3	29.6	14.8	0.0
77.5°	57.0	38.0	19.0	0.0
75°	67.6	44.3	23.2	0.0
72.5°	78.1	52.8	25.3	0.0
70°	88.7	59.1	29.6	0.0
67.5°	101.3	65.4	33.8	0.0
65°	111.9	73.9	35.9	0.0
62.5°	122.4	80.2	40.1	0.0
60°	133.0	86.6	42.2	0.0
57.5°	143.6	92.9	46.4	0.0
55°	154.1	101.3	50.7	0.0
52.5°	164.7	107.7	52.8	0.0
50°	175.2	114.0	54.9	0.0
47.5°	183.7	120.3	59.1	0.0
45°	194.2	126.7	61.2	0.0
42.5°	204.8	130.9	63.3	0.0
40°	213.2	137.2	65.4	0.0
37.5°	223.8	141.4	69.7	0.0
35°	232.2	147.8	71.8	0.0
32.5°	238.5	152.0	73.9	0.0
30°	247.0	156.2	76.0	0.0
27.5°	253.3	160.4	76.0	0.0
25°	259.7	164.7	78.1	0.0
22.5°	266.0	166.8	80.2	0.0
20°	272.3	171.0	82.3	0.0
17.5°	276.5	173.1	82.3	0.0
15°	280.8	175.2	86.6	0.0
12.5°	282.9	177.3	86.6	0.0
10°	287.1	181.5	86.6	0.0
7.5°	291.3	181.5	86.6	0.0
5°	291.3	181.5	86.6	0.0
2.5°	291.3	181.5	86.6	0.0
0°	291.3	181.5	86.6	0.0

(END OF REPORT)