

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: P624552

Luminaire Tested: **IFLD-L-SA8D-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

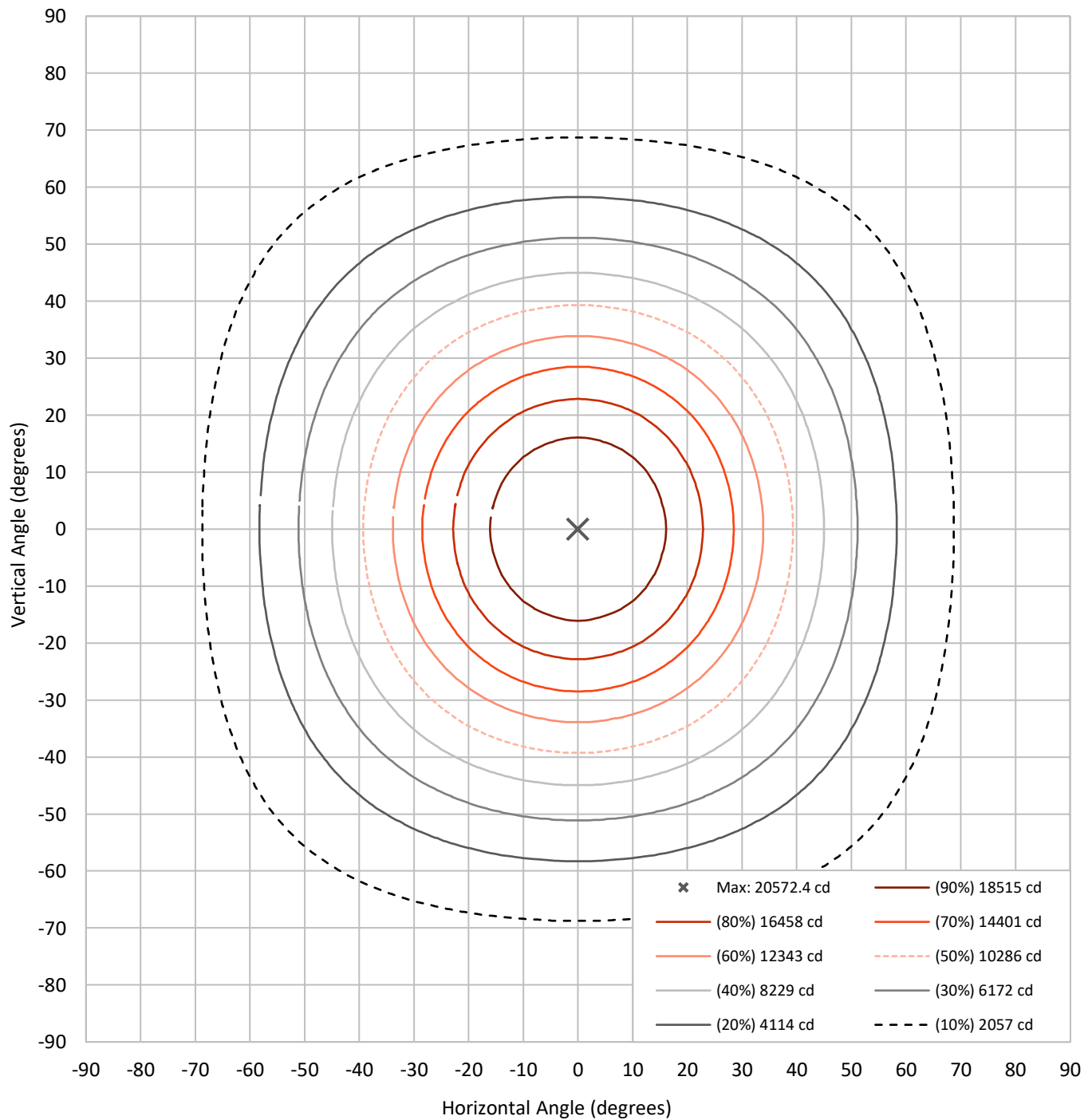
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37041.1 lumens	Max Intensity:	20572.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16027.3 lumens	Field Lumens:	26244.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	488.3		
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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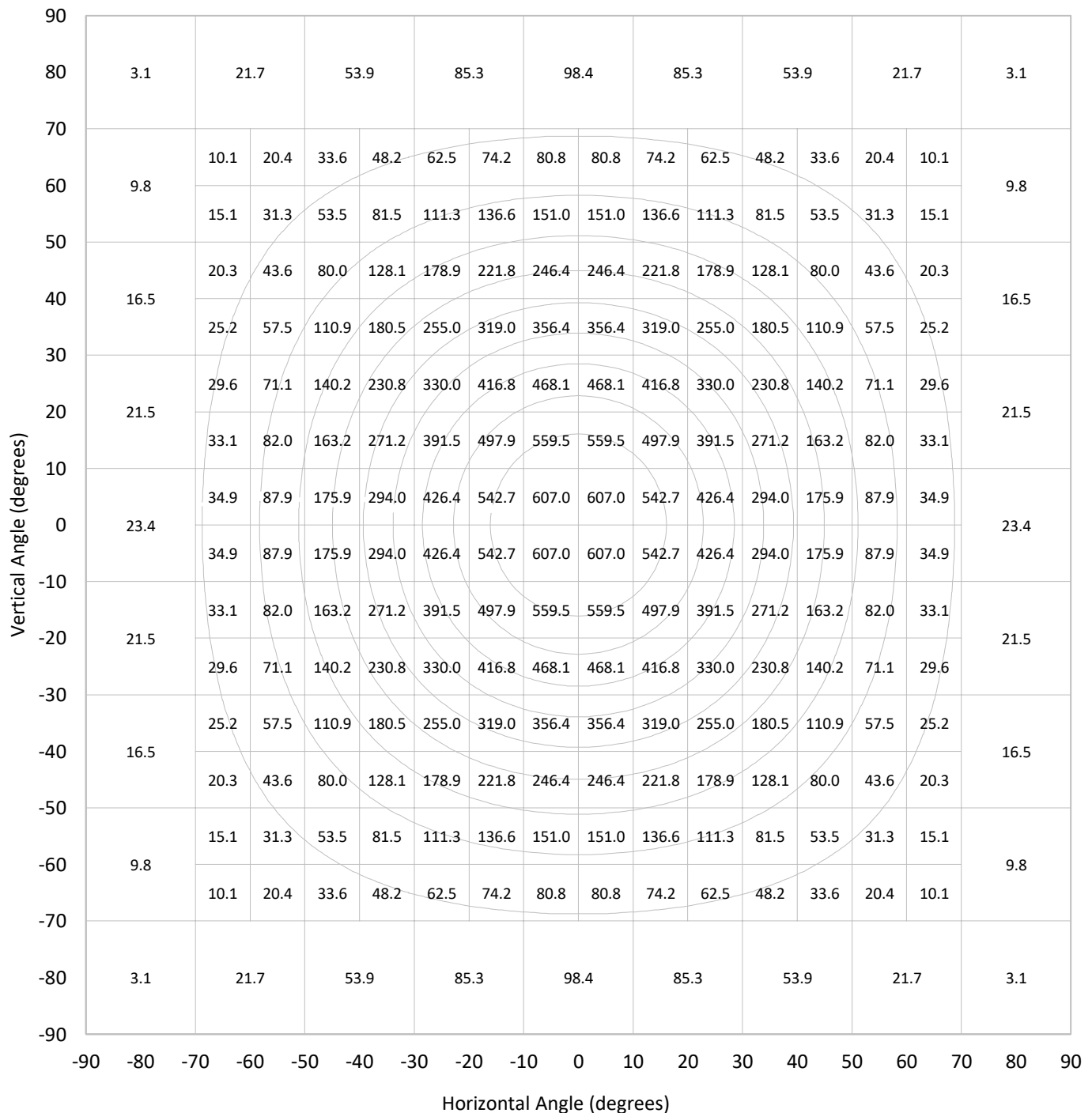
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Iso-Candela Plot



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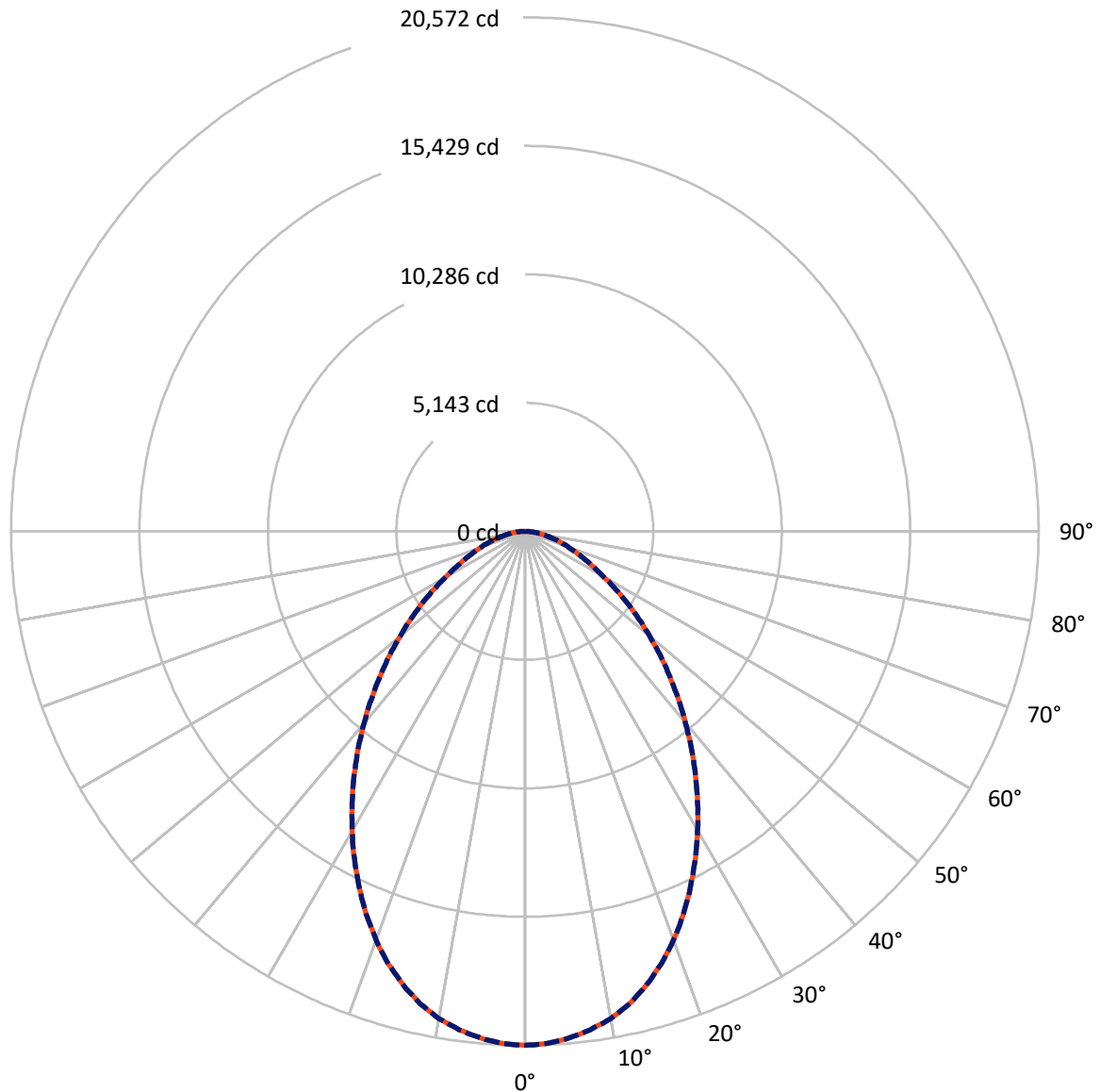
Lumen Table



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Luminous Intensity Polar Plot

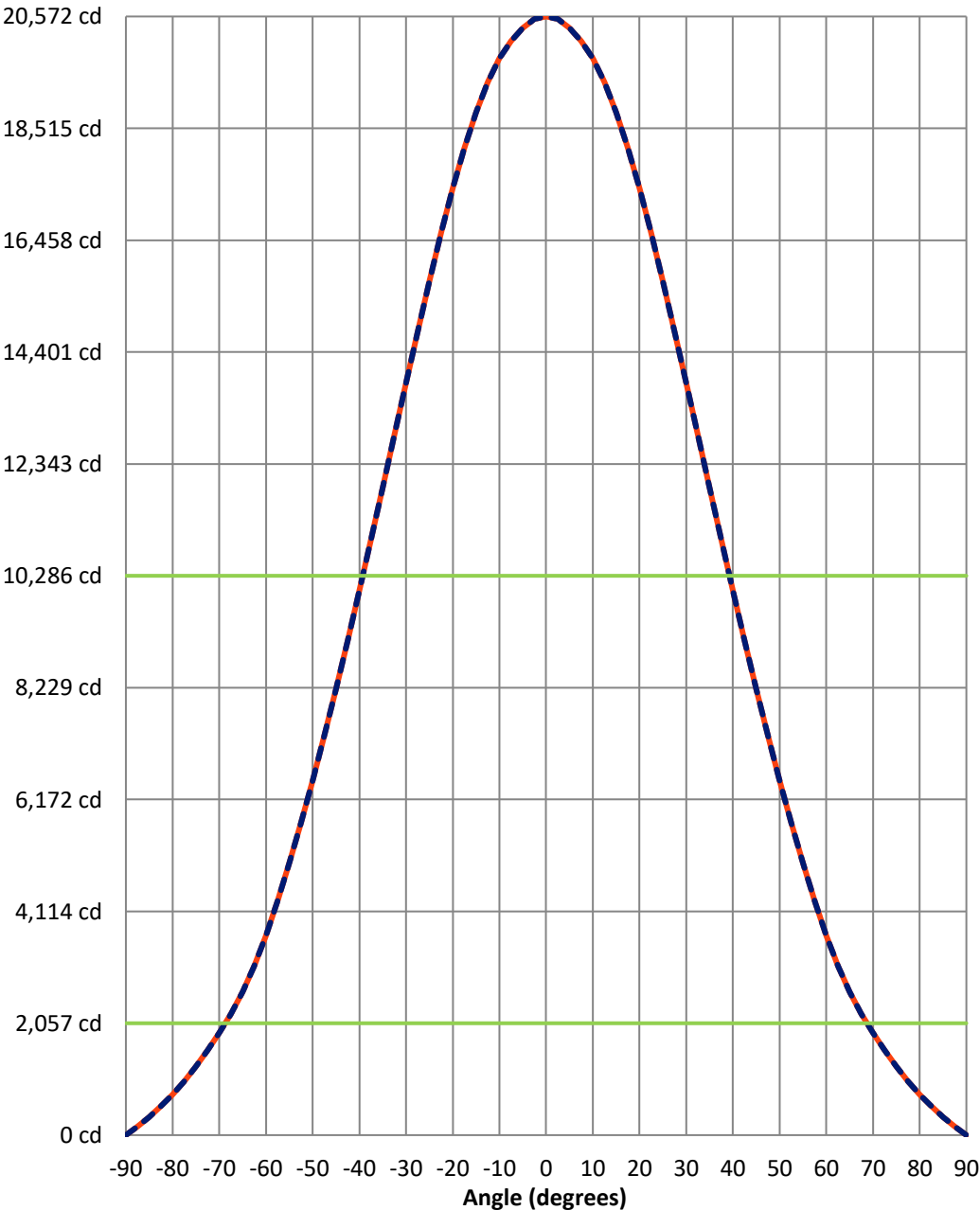


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 16027.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 26244.2
Efficiency: 70.9%

Spill:
Lumens: 10796.9
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°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	150.6	150.6	146.8	142.9
85°	332.1	332.1	332.1	332.1	332.1	324.4	320.5	316.7	312.8	305.1	301.2
82.5°	532.9	532.9	532.9	532.9	525.2	517.5	513.6	505.9	498.2	486.6	475.0
80°	745.3	745.3	745.3	745.3	733.8	726.0	714.5	706.7	695.1	679.7	664.2
77.5°	988.6	988.6	988.6	977.1	969.3	957.8	946.2	930.7	915.3	896.0	872.8
75°	1262.8	1262.8	1262.8	1247.4	1235.8	1224.2	1204.9	1185.6	1162.4	1135.4	1104.5
72.5°	1560.2	1560.2	1560.2	1540.9	1529.3	1510.0	1486.8	1459.8	1432.8	1398.0	1359.4
70°	1880.8	1880.8	1880.8	1857.6	1838.3	1819.0	1788.1	1757.2	1718.6	1679.9	1633.6
67.5°	2228.3	2228.3	2228.3	2201.3	2178.1	2151.1	2116.3	2077.7	2031.4	1977.3	1923.2
65°	2633.8	2633.8	2618.4	2595.2	2568.2	2529.6	2487.1	2433.0	2375.1	2305.6	2232.2
62.5°	3112.7	3112.7	3089.5	3062.5	3027.7	2977.5	2919.6	2850.1	2769.0	2680.2	2591.3
60°	3668.8	3668.8	3641.8	3607.0	3556.8	3495.0	3417.8	3329.0	3228.6	3116.6	3008.4
57.5°	4309.9	4309.9	4275.1	4228.8	4167.0	4089.8	3993.2	3881.2	3753.8	3614.7	3479.6
55°	5005.0	5005.0	4962.6	4908.5	4835.1	4742.4	4626.6	4495.3	4340.8	4182.4	4008.7
52.5°	5742.7	5742.7	5692.5	5630.7	5545.7	5437.6	5306.3	5151.8	4974.1	4788.8	4584.1
50°	6518.9	6518.9	6461.0	6391.5	6294.9	6167.5	6016.9	5839.2	5642.3	5426.0	5190.4
47.5°	7349.2	7349.2	7283.6	7202.5	7086.6	6939.9	6762.2	6557.5	6333.5	6090.2	5823.8
45°	8202.7	8202.7	8129.3	8036.6	7909.2	7743.1	7546.2	7349.2	7063.4	6781.5	6472.6
42.5°	9090.9	9090.9	9006.0	8901.7	8755.0	8573.4	8349.5	8094.6	7812.6	7496.0	7160.0
40°	10013.9	10013.9	9917.4	9797.7	9635.5	9426.9	9175.9	8890.1	8573.4	8222.0	7851.3
37.5°	10956.2	10956.2	10848.1	10716.8	10535.3	10303.6	10021.7	9705.0	9349.7	8959.6	8550.3
35°	11906.3	11906.3	11786.6	11643.7	11442.8	11188.0	10882.9	10531.4	10137.5	9712.7	9253.1
32.5°	12875.6	12875.6	12744.3	12582.1	12354.3	12072.3	11736.3	11354.0	10956.2	10461.9	9959.9
30°	13833.4	13833.4	13690.5	13512.8	13269.5	12960.6	12593.7	12172.7	11705.5	11199.5	10658.9
27.5°	14775.7	14737.1	14617.3	14428.1	14161.6	13833.4	13435.6	12979.9	12474.0	11917.9	11338.6
25°	15702.5	15660.0	15528.7	15320.2	15034.4	14675.3	14246.6	13760.0	13215.5	12628.4	11995.1
22.5°	16590.8	16544.4	16405.4	16181.4	15876.3	15486.3	15026.7	14505.3	13926.0	13296.6	12628.4
20°	17413.4	17363.1	17220.3	16984.7	16668.0	16254.8	15768.2	15208.2	14590.3	13926.0	13215.5
17.5°	18154.8	18104.6	17954.0	17710.7	17413.4	16953.8	16451.7	15860.9	15208.2	14505.3	13760.0
15°	18807.5	18753.4	18599.0	18355.7	18015.8	17583.3	17054.2	16451.7	15768.2	15026.7	14246.6
12.5°	19363.6	19309.6	19151.2	18907.9	18556.5	18123.9	17583.3	16953.8	16254.8	15486.3	14675.3
10°	19803.9	19749.8	19599.2	19367.5	19004.5	18556.5	18015.8	17413.4	16668.0	15876.3	15034.4
7.5°	20120.6	20070.3	19931.3	19699.6	19367.5	18907.9	18355.7	17710.7	16984.7	16181.4	15320.2
5°	20360.0	20302.1	20163.0	19931.3	19599.2	19151.2	18599.0	17954.0	17220.3	16405.4	15528.7
2.5°	20526.1	20456.5	20302.1	20070.3	19749.8	19309.6	18753.4	18104.6	17363.1	16544.4	15660.0
0°	20572.4	20526.1	20360.0	20120.6	19803.9	19363.6	18807.5	18154.8	17413.4	16590.8	15702.5

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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°	139.0	139.0	135.2	131.3	127.4	119.7	115.9	112.0	108.1	100.4	96.5
85°	293.5	285.8	278.1	270.3	258.7	251.0	239.4	231.7	220.1	208.5	197.0
82.5°	463.4	451.8	436.4	424.8	409.4	390.1	374.6	355.3	336.0	320.5	301.2
80°	648.8	629.5	610.2	590.9	567.7	544.5	521.4	498.2	471.2	444.1	417.1
77.5°	849.6	822.6	795.6	764.7	737.6	706.7	675.8	644.9	610.2	575.4	540.7
75°	1073.6	1038.9	1000.2	961.6	926.9	884.4	841.9	799.4	753.1	710.6	664.2
72.5°	1316.9	1274.4	1228.1	1181.7	1131.5	1077.5	1023.4	965.5	911.4	857.3	799.4
70°	1579.5	1529.3	1471.4	1413.5	1351.7	1286.0	1220.4	1150.8	1081.3	1011.8	942.3
67.5°	1861.4	1799.7	1730.1	1660.6	1583.4	1506.1	1428.9	1347.8	1262.8	1177.9	1096.8
65°	2162.7	2085.4	2004.3	1915.5	1826.7	1737.9	1645.2	1548.6	1452.1	1351.7	1262.8
62.5°	2498.7	2402.1	2297.8	2189.7	2089.3	1981.2	1880.8	1761.0	1645.2	1533.2	1421.2
60°	2888.7	2761.3	2633.8	2498.7	2371.2	2232.2	2108.6	1977.3	1846.0	1718.6	1587.2
57.5°	3325.1	3162.9	3008.4	2846.2	2676.3	2521.8	2363.5	2205.2	2058.4	1907.8	1764.9
55°	3819.4	3622.5	3429.4	3228.6	3031.6	2838.5	2637.7	2460.0	2278.5	2108.6	1942.5
52.5°	4360.1	4136.1	3896.7	3668.8	3417.8	3178.4	2954.4	2730.4	2518.0	2313.3	2124.1
50°	4939.4	4676.8	4402.6	4124.5	3838.7	3556.8	3286.5	3023.9	2776.7	2537.3	2313.3
47.5°	5541.8	5244.5	4931.7	4615.0	4309.9	3966.2	3641.8	3344.4	3047.0	2776.7	2518.0
45°	6159.7	5823.8	5480.1	5120.9	4761.7	4391.0	4031.8	3668.8	3344.4	3023.9	2730.4
42.5°	6797.0	6418.5	6036.2	5638.4	5240.6	4835.1	4429.6	4031.8	3641.8	3286.5	2954.4
40°	7453.5	7036.4	6600.0	6167.5	5742.7	5279.2	4835.1	4391.0	3966.2	3556.8	3178.4
37.5°	8110.0	7654.3	7183.2	6696.6	6210.0	5742.7	5240.6	4761.7	4309.9	3838.7	3417.8
35°	8770.4	8268.4	7758.6	7229.5	6696.6	6167.5	5638.4	5120.9	4615.0	4124.5	3668.8
32.5°	9434.6	8886.3	8322.4	7758.6	7183.2	6600.0	6036.2	5480.1	4931.7	4402.6	3896.7
30°	10087.3	9492.6	8886.3	8268.4	7654.3	7036.4	6418.5	5823.8	5244.5	4676.8	4136.1
27.5°	10724.5	10087.3	9434.6	8770.4	8110.0	7453.5	6797.0	6159.7	5541.8	4939.4	4360.1
25°	11338.6	10658.9	9959.9	9253.1	8550.3	7851.3	7160.0	6472.6	5823.8	5190.4	4584.1
22.5°	11917.9	11199.5	10461.9	9712.7	8959.6	8222.0	7496.0	6781.5	6090.2	5426.0	4788.8
20°	12474.0	11705.5	10956.2	10137.5	9349.7	8573.4	7812.6	7063.4	6333.5	5642.3	4974.1
17.5°	12979.9	12172.7	11354.0	10531.4	9705.0	8890.1	8094.6	7349.2	6557.5	5839.2	5151.8
15°	13435.6	12593.7	11736.3	10882.9	10021.7	9175.9	8349.5	7546.2	6762.2	6016.9	5306.3
12.5°	13833.4	12960.6	12072.3	11188.0	10303.6	9426.9	8573.4	7743.1	6939.9	6167.5	5437.6
10°	14161.6	13269.5	12354.3	11442.8	10535.3	9635.5	8755.0	7909.2	7086.6	6294.9	5545.7
7.5°	14428.1	13512.8	12582.1	11643.7	10716.8	9797.7	8901.7	8036.6	7202.5	6391.5	5630.7
5°	14617.3	13690.5	12744.3	11786.6	10848.1	9917.4	9006.0	8129.3	7283.6	6461.0	5692.5
2.5°	14737.1	13833.4	12875.6	11906.3	10956.2	10013.9	9090.9	8202.7	7349.2	6518.9	5742.7
0°	14775.7	13833.4	12875.6	11906.3	10956.2	10013.9	9090.9	8202.7	7349.2	6518.9	5742.7



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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°	92.7	85.0	77.2	73.4	65.7	61.8	54.1	46.3	42.5	34.8	27.0
85°	185.4	169.9	158.3	146.8	135.2	119.7	108.1	96.5	81.1	69.5	54.1
82.5°	281.9	262.6	243.3	224.0	204.7	185.4	162.2	142.9	123.6	104.3	81.1
80°	390.1	359.2	332.1	305.1	278.1	251.0	220.1	193.1	162.2	135.2	108.1
77.5°	502.0	467.3	428.7	390.1	351.4	316.7	278.1	243.3	208.5	169.9	135.2
75°	621.8	575.4	532.9	482.7	436.4	386.2	339.8	293.5	251.0	208.5	162.2
72.5°	745.3	687.4	629.5	575.4	517.5	459.6	405.5	347.6	293.5	243.3	193.1
70°	872.8	803.3	733.8	668.1	602.5	532.9	471.2	405.5	339.8	278.1	220.1
67.5°	1008.0	926.9	845.8	760.8	687.4	610.2	532.9	459.6	386.2	316.7	251.0
65°	1154.7	1058.2	957.8	868.9	772.4	687.4	602.5	517.5	436.4	351.4	278.1
62.5°	1305.3	1193.3	1081.3	969.3	868.9	760.8	668.1	575.4	482.7	390.1	305.1
60°	1459.8	1332.4	1204.9	1081.3	957.8	845.8	733.8	629.5	532.9	428.7	332.1
57.5°	1618.1	1475.2	1332.4	1193.3	1058.2	926.9	803.3	687.4	575.4	467.3	359.2
55°	1780.3	1618.1	1459.8	1305.3	1154.7	1008.0	872.8	745.3	621.8	502.0	390.1
52.5°	1942.5	1764.9	1587.2	1421.2	1262.8	1096.8	942.3	799.4	664.2	540.7	417.1
50°	2108.6	1907.8	1718.6	1533.2	1351.7	1177.9	1011.8	857.3	710.6	575.4	444.1
47.5°	2278.5	2058.4	1846.0	1645.2	1452.1	1262.8	1081.3	911.4	753.1	610.2	471.2
45°	2460.0	2205.2	1977.3	1761.0	1548.6	1347.8	1150.8	965.5	799.4	644.9	498.2
42.5°	2637.7	2363.5	2108.6	1880.8	1645.2	1428.9	1220.4	1023.4	841.9	675.8	521.4
40°	2838.5	2521.8	2232.2	1981.2	1737.9	1506.1	1286.0	1077.5	884.4	706.7	544.5
37.5°	3031.6	2676.3	2371.2	2089.3	1826.7	1583.4	1351.7	1131.5	926.9	737.6	567.7
35°	3228.6	2846.2	2498.7	2189.7	1915.5	1660.6	1413.5	1181.7	961.6	764.7	590.9
32.5°	3429.4	3008.4	2633.8	2297.8	2004.3	1730.1	1471.4	1228.1	1000.2	795.6	610.2
30°	3622.5	3162.9	2761.3	2402.1	2085.4	1799.7	1529.3	1274.4	1038.9	822.6	629.5
27.5°	3819.4	3325.1	2888.7	2498.7	2162.7	1861.4	1579.5	1316.9	1073.6	849.6	648.8
25°	4008.7	3479.6	3008.4	2591.3	2232.2	1923.2	1633.6	1359.4	1104.5	872.8	664.2
22.5°	4182.4	3614.7	3116.6	2680.2	2305.6	1977.3	1679.9	1398.0	1135.4	896.0	679.7
20°	4340.8	3753.8	3228.6	2769.0	2375.1	2031.4	1718.6	1432.8	1162.4	915.3	695.1
17.5°	4495.3	3881.2	3329.0	2850.1	2433.0	2077.7	1757.2	1459.8	1185.6	930.7	706.7
15°	4626.6	3993.2	3417.8	2919.6	2487.1	2116.3	1788.1	1486.8	1204.9	946.2	714.5
12.5°	4742.4	4089.8	3495.0	2977.5	2529.6	2151.1	1819.0	1510.0	1224.2	957.8	726.0
10°	4835.1	4167.0	3556.8	3027.7	2568.2	2178.1	1838.3	1529.3	1235.8	969.3	733.8
7.5°	4908.5	4228.8	3607.0	3062.5	2595.2	2201.3	1857.6	1540.9	1247.4	977.1	745.3
5°	4962.6	4275.1	3641.8	3089.5	2618.4	2228.3	1880.8	1560.2	1262.8	988.6	745.3
2.5°	5005.0	4309.9	3668.8	3112.7	2633.8	2228.3	1880.8	1560.2	1262.8	988.6	745.3
0°	5005.0	4309.9	3668.8	3112.7	2633.8	2228.3	1880.8	1560.2	1262.8	988.6	745.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.3	15.4	7.7	0.0
85°	42.5	27.0	15.4	0.0
82.5°	61.8	42.5	19.3	0.0
80°	81.1	54.1	27.0	0.0
77.5°	104.3	69.5	34.8	0.0
75°	123.6	81.1	42.5	0.0
72.5°	142.9	96.5	46.3	0.0
70°	162.2	108.1	54.1	0.0
67.5°	185.4	119.7	61.8	0.0
65°	204.7	135.2	65.7	0.0
62.5°	224.0	146.8	73.4	0.0
60°	243.3	158.3	77.2	0.0
57.5°	262.6	169.9	85.0	0.0
55°	281.9	185.4	92.7	0.0
52.5°	301.2	197.0	96.5	0.0
50°	320.5	208.5	100.4	0.0
47.5°	336.0	220.1	108.1	0.0
45°	355.3	231.7	112.0	0.0
42.5°	374.6	239.4	115.9	0.0
40°	390.1	251.0	119.7	0.0
37.5°	409.4	258.7	127.4	0.0
35°	424.8	270.3	131.3	0.0
32.5°	436.4	278.1	135.2	0.0
30°	451.8	285.8	139.0	0.0
27.5°	463.4	293.5	139.0	0.0
25°	475.0	301.2	142.9	0.0
22.5°	486.6	305.1	146.8	0.0
20°	498.2	312.8	150.6	0.0
17.5°	505.9	316.7	150.6	0.0
15°	513.6	320.5	158.3	0.0
12.5°	517.5	324.4	158.3	0.0
10°	525.2	332.1	158.3	0.0
7.5°	532.9	332.1	158.3	0.0
5°	532.9	332.1	158.3	0.0
2.5°	532.9	332.1	158.3	0.0
0°	532.9	332.1	158.3	0.0

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