

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: P623852

Luminaire Tested: **IFLD-S-SA6C-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623852
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

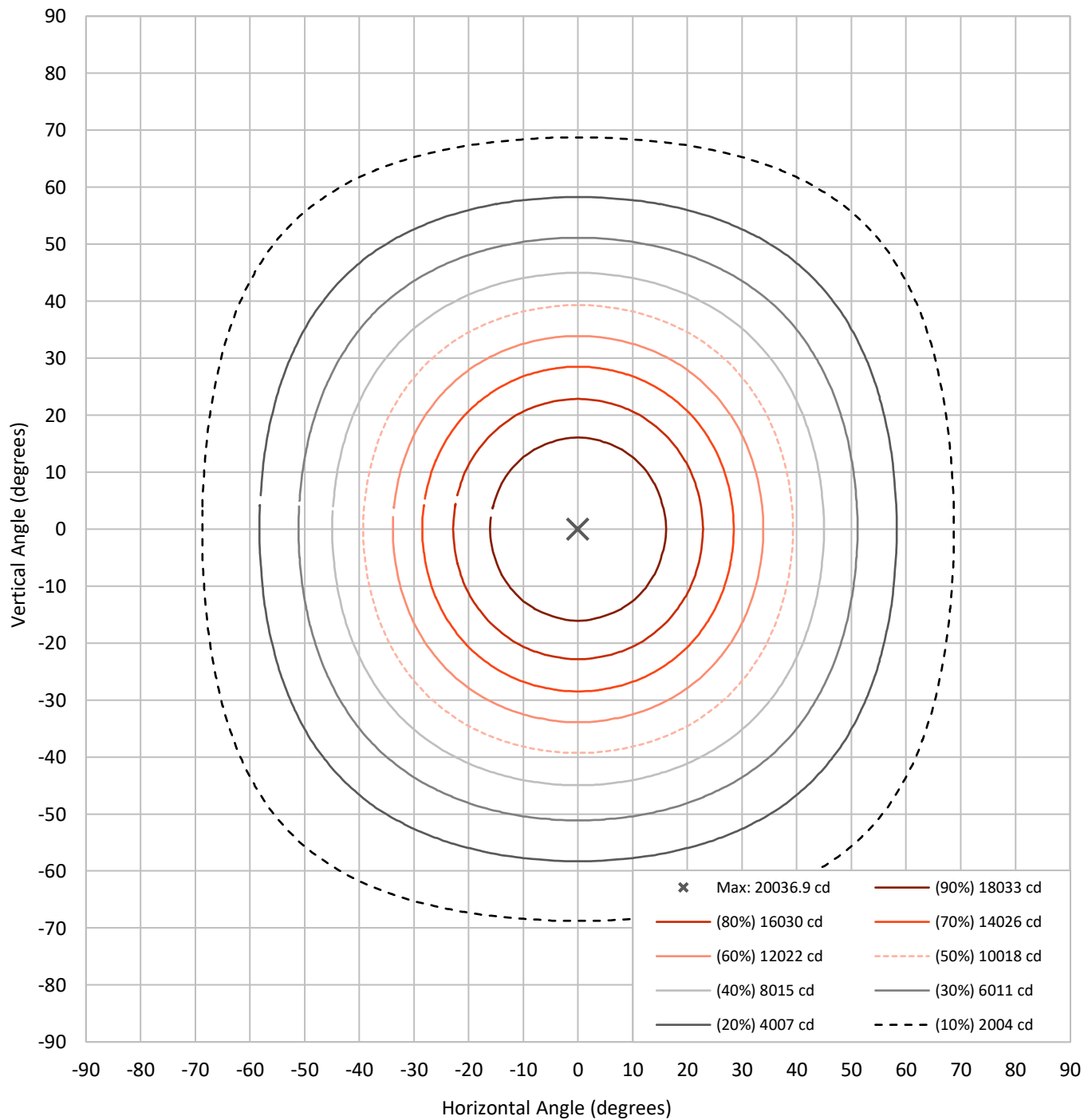
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36076.9 lumens	Max Intensity:	20036.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15610.1 lumens	Field Lumens:	25561 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	321.5		
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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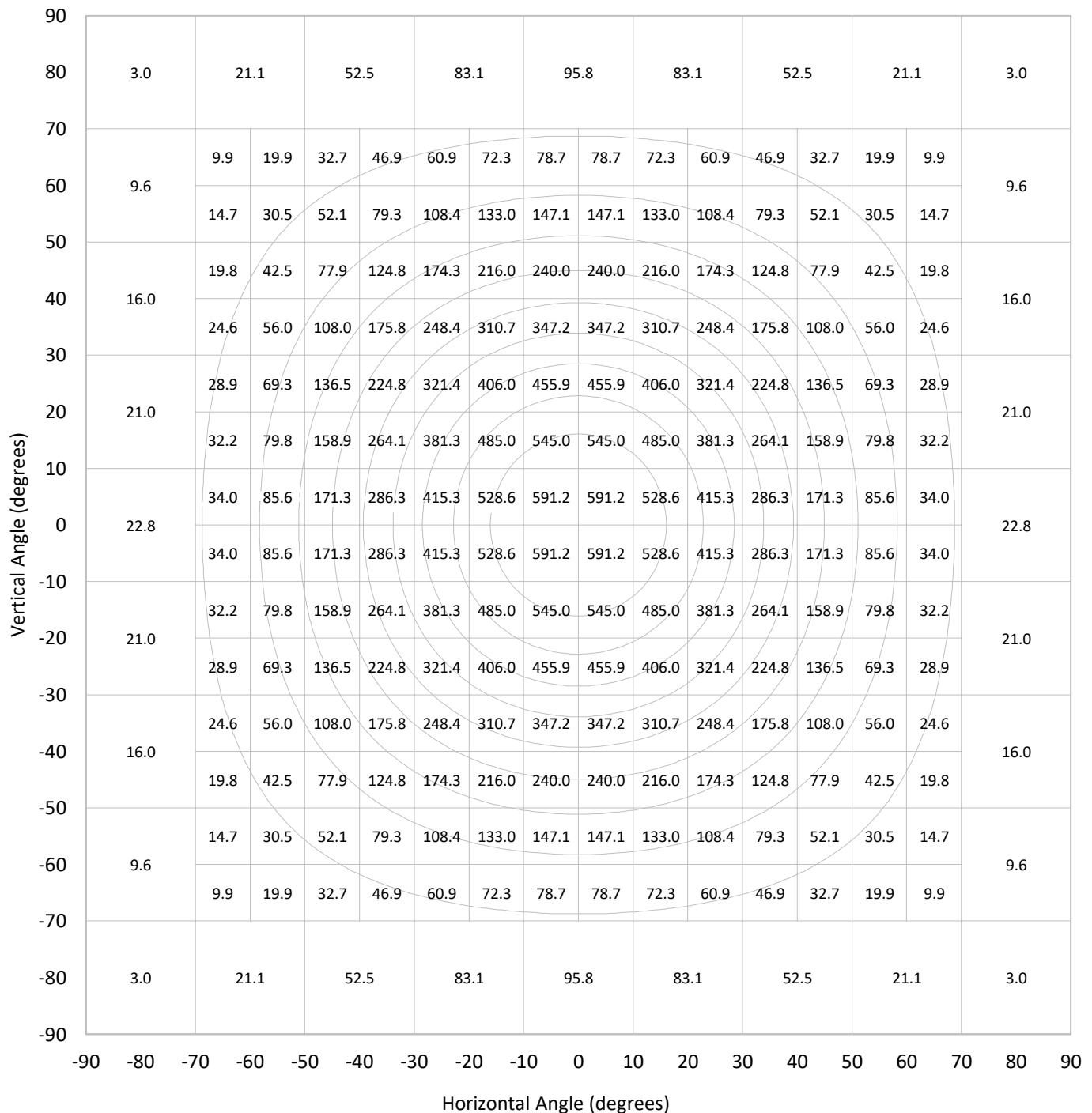
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Iso-Candela Plot



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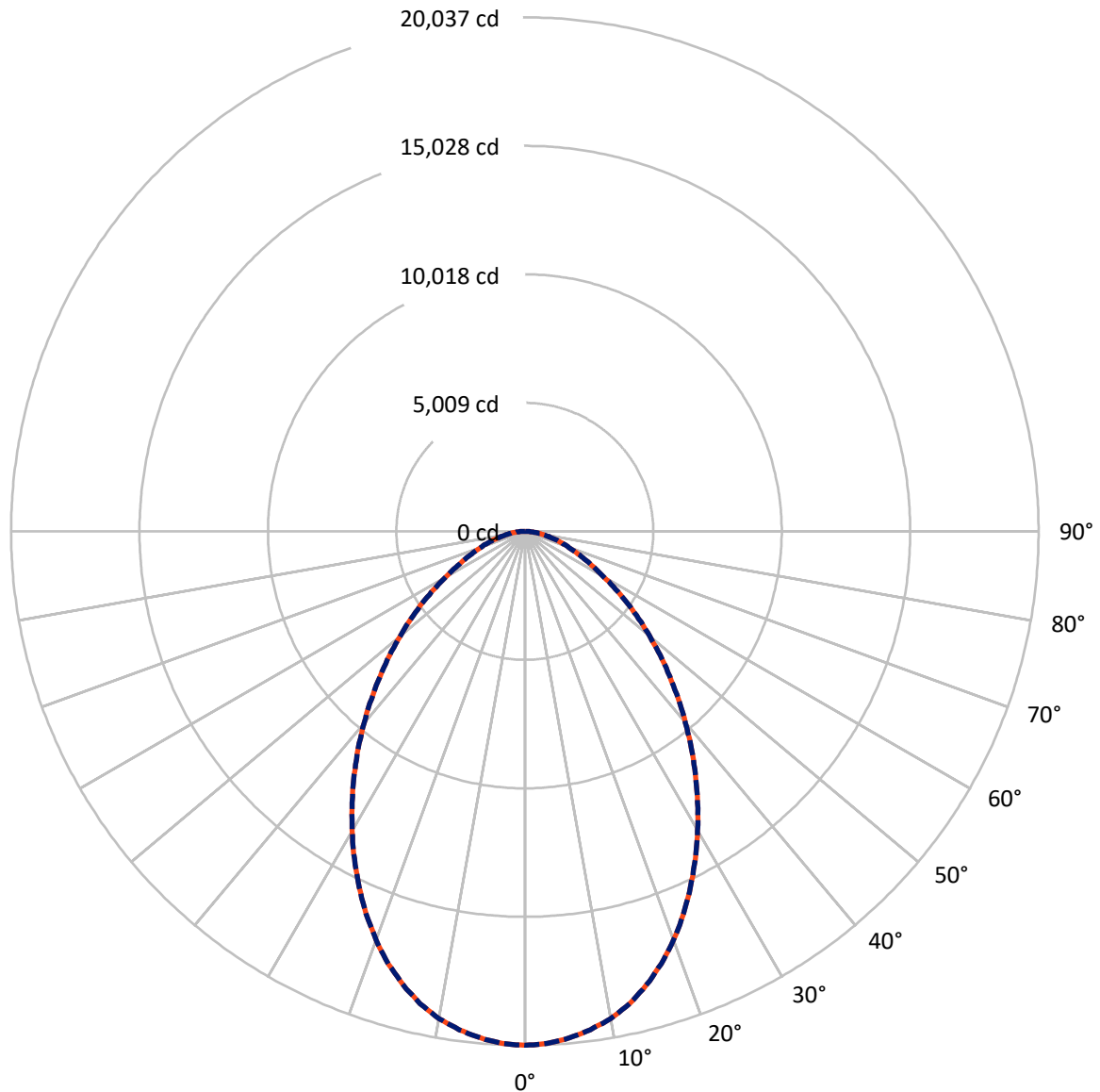
Lumen Table



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Luminous Intensity Polar Plot

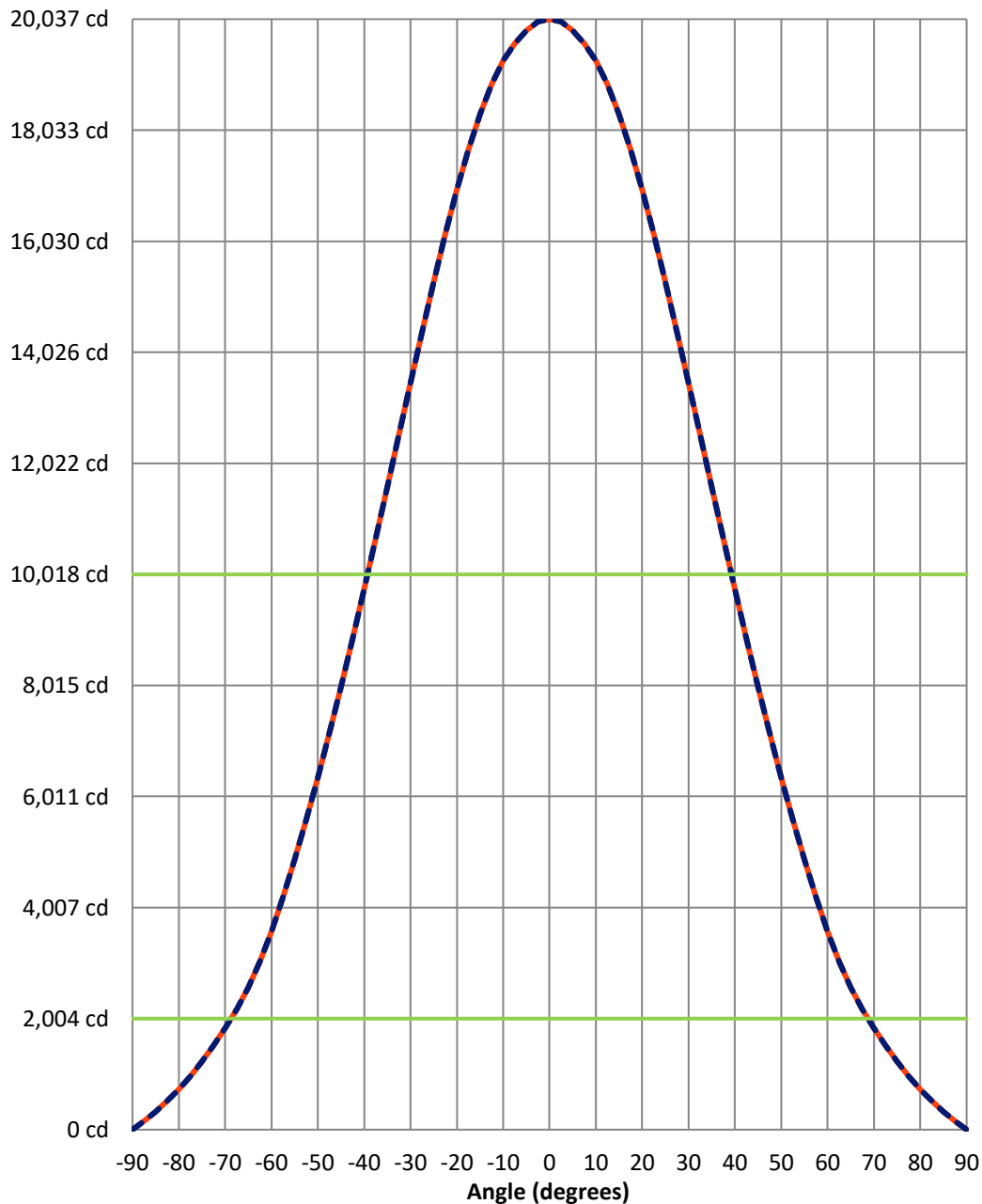


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15610.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 25561
Efficiency: 70.9%

Spill:

Lumens: 10515.9
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°	154.2	154.2	154.2	154.2	154.2	154.2	154.2	146.7	146.7	142.9	139.2
85°	323.5	323.5	323.5	323.5	323.5	316.0	312.2	308.4	304.7	297.1	293.4
82.5°	519.1	519.1	519.1	519.1	511.5	504.0	500.3	492.7	485.2	473.9	462.7
80°	725.9	725.9	725.9	725.9	714.7	707.1	695.9	688.3	677.0	662.0	647.0
77.5°	962.9	962.9	962.9	951.6	944.1	932.8	921.5	906.5	891.4	872.6	850.1
75°	1230.0	1230.0	1230.0	1214.9	1203.6	1192.4	1173.6	1154.7	1132.2	1105.8	1075.8
72.5°	1519.6	1519.6	1519.6	1500.8	1489.5	1470.7	1448.1	1421.8	1395.5	1361.6	1324.0
70°	1831.8	1831.8	1831.8	1809.2	1790.4	1771.6	1741.5	1711.4	1673.8	1636.2	1591.1
67.5°	2170.3	2170.3	2170.3	2144.0	2121.4	2095.1	2061.2	2023.6	1978.5	1925.8	1873.2
65°	2565.3	2565.3	2550.2	2527.7	2501.3	2463.7	2422.3	2369.7	2313.3	2245.5	2174.1
62.5°	3031.7	3031.7	3009.1	2982.8	2948.9	2900.0	2843.6	2775.9	2696.9	2610.4	2523.9
60°	3573.3	3573.3	3547.0	3513.1	3464.2	3404.1	3328.8	3242.3	3144.5	3035.4	2930.1
57.5°	4197.7	4197.7	4163.9	4118.7	4058.5	3983.3	3889.3	3780.2	3656.1	3520.7	3389.0
55°	4874.8	4874.8	4833.4	4780.7	4709.3	4619.0	4506.1	4378.3	4227.8	4073.6	3904.3
52.5°	5593.2	5593.2	5544.3	5484.1	5401.3	5296.0	5168.1	5017.7	4844.7	4664.1	4464.8
50°	6349.2	6349.2	6292.8	6225.1	6131.1	6006.9	5860.2	5687.2	5495.4	5284.7	5055.3
47.5°	7157.9	7157.9	7094.0	7015.0	6902.1	6759.2	6586.2	6386.8	6168.7	5931.7	5672.2
45°	7989.2	7989.2	7917.7	7827.4	7703.3	7541.6	7349.7	7157.9	6879.6	6605.0	6304.1
42.5°	8854.3	8854.3	8771.6	8670.0	8527.1	8350.3	8132.1	7883.9	7609.3	7300.8	6973.6
40°	9753.3	9753.3	9659.2	9542.6	9384.7	9181.5	8937.1	8658.7	8350.3	8008.0	7646.9
37.5°	10671.0	10671.0	10565.7	10437.8	10261.1	10035.4	9760.8	9452.4	9106.3	8726.4	8327.7
35°	11596.4	11596.4	11479.7	11340.6	11145.0	10896.7	10599.6	10257.3	9873.6	9459.9	9012.3
32.5°	12540.5	12540.5	12412.6	12254.6	12032.7	11758.1	11430.8	11058.5	10671.0	10189.6	9700.6
30°	13473.3	13473.3	13334.1	13161.1	12924.1	12623.2	12265.9	11855.9	11400.8	10908.0	10381.4
27.5°	14391.1	14353.4	14236.8	14052.5	13793.0	13473.3	13085.9	12642.0	12149.3	11607.6	11043.4
25°	15293.8	15252.4	15124.5	14921.4	14643.1	14293.3	13875.7	13401.8	12871.5	12299.7	11682.9
22.5°	16158.9	16113.8	15978.4	15760.2	15463.1	15083.2	14635.5	14127.8	13563.6	12950.4	12299.7
20°	16960.1	16911.2	16772.0	16542.6	16234.1	15831.7	15357.7	14812.3	14210.5	13563.6	12871.5
17.5°	17682.3	17633.4	17486.7	17249.7	16960.1	16512.5	16023.5	15448.0	14812.3	14127.8	13401.8
15°	18317.9	18265.3	18114.8	17877.9	17546.9	17125.6	16610.3	16023.5	15357.7	14635.5	13875.7
12.5°	18859.6	18806.9	18652.7	18415.7	18073.5	17652.2	17125.6	16512.5	15831.7	15083.2	14293.3
10°	19288.4	19235.7	19089.0	18863.3	18509.8	18073.5	17546.9	16960.1	16234.1	15463.1	14643.1
7.5°	19596.8	19547.9	19412.5	19186.8	18863.3	18415.7	17877.9	17249.7	16542.6	15760.2	14921.4
5°	19830.0	19773.6	19638.2	19412.5	19089.0	18652.7	18114.8	17486.7	16772.0	15978.4	15124.5
2.5°	19991.8	19924.1	19773.6	19547.9	19235.7	18806.9	18265.3	17633.4	16911.2	16113.8	15252.4
0°	20036.9	19991.8	19830.0	19596.8	19288.4	18859.6	18317.9	17682.3	16960.1	16158.9	15293.8

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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°	135.4	135.4	131.6	127.9	124.1	116.6	112.8	109.1	105.3	97.8	94.0
85°	285.9	278.3	270.8	263.3	252.0	244.5	233.2	225.7	214.4	203.1	191.8
82.5°	451.4	440.1	425.0	413.8	398.7	379.9	364.9	346.0	327.2	312.2	293.4
80°	631.9	613.1	594.3	575.5	552.9	530.4	507.8	485.2	458.9	432.6	406.2
77.5°	827.5	801.2	774.8	744.8	718.4	688.3	658.2	628.2	594.3	560.4	526.6
75°	1045.7	1011.8	974.2	936.6	902.7	861.4	820.0	778.6	733.5	692.1	647.0
72.5°	1282.6	1241.3	1196.1	1151.0	1102.1	1049.4	996.8	940.3	887.7	835.0	778.6
70°	1538.4	1489.5	1433.1	1376.7	1316.5	1252.5	1188.6	1120.9	1053.2	985.5	917.8
67.5°	1813.0	1752.8	1685.1	1617.4	1542.2	1466.9	1391.7	1312.7	1230.0	1147.2	1068.2
65°	2106.4	2031.1	1952.2	1865.6	1779.1	1692.6	1602.4	1508.3	1414.3	1316.5	1230.0
62.5°	2433.6	2339.6	2238.0	2132.7	2034.9	1929.6	1831.8	1715.2	1602.4	1493.3	1384.2
60°	2813.5	2689.4	2565.3	2433.6	2309.5	2174.1	2053.7	1925.8	1797.9	1673.8	1545.9
57.5°	3238.6	3080.6	2930.1	2772.1	2606.6	2456.2	2302.0	2147.8	2004.8	1858.1	1719.0
55°	3720.0	3528.2	3340.1	3144.5	2952.7	2764.6	2569.0	2396.0	2219.2	2053.7	1892.0
52.5°	4246.6	4028.4	3795.2	3573.3	3328.8	3095.6	2877.5	2659.3	2452.4	2253.1	2068.8
50°	4810.8	4555.0	4288.0	4017.2	3738.8	3464.2	3200.9	2945.2	2704.4	2471.2	2253.1
47.5°	5397.6	5108.0	4803.3	4494.9	4197.7	3862.9	3547.0	3257.4	2967.7	2704.4	2452.4
45°	5999.4	5672.2	5337.4	4987.6	4637.8	4276.7	3926.9	3573.3	3257.4	2945.2	2659.3
42.5°	6620.0	6251.4	5879.0	5491.6	5104.2	4709.3	4314.3	3926.9	3547.0	3200.9	2877.5
40°	7259.5	6853.2	6428.2	6006.9	5593.2	5141.8	4709.3	4276.7	3862.9	3464.2	3095.6
37.5°	7898.9	7455.1	6996.2	6522.2	6048.3	5593.2	5104.2	4637.8	4197.7	3738.8	3328.8
35°	8542.1	8053.1	7556.6	7041.3	6522.2	6006.9	5491.6	4987.6	4494.9	4017.2	3573.3
32.5°	9189.1	8654.9	8105.8	7556.6	6996.2	6428.2	5879.0	5337.4	4803.3	4288.0	3795.2
30°	9824.7	9245.5	8654.9	8053.1	7455.1	6853.2	6251.4	5672.2	5108.0	4555.0	4028.4
27.5°	10445.4	9824.7	9189.1	8542.1	7898.9	7259.5	6620.0	5999.4	5397.6	4810.8	4246.6
25°	11043.4	10381.4	9700.6	9012.3	8327.7	7646.9	6973.6	6304.1	5672.2	5055.3	4464.8
22.5°	11607.6	10908.0	10189.6	9459.9	8726.4	8008.0	7300.8	6605.0	5931.7	5284.7	4664.1
20°	12149.3	11400.8	10671.0	9873.6	9106.3	8350.3	7609.3	6879.6	6168.7	5495.4	4844.7
17.5°	12642.0	11855.9	11058.5	10257.3	9452.4	8658.7	7883.9	7157.9	6386.8	5687.2	5017.7
15°	13085.9	12265.9	11430.8	10599.6	9760.8	8937.1	8132.1	7349.7	6586.2	5860.2	5168.1
12.5°	13473.3	12623.2	11758.1	10896.7	10035.4	9181.5	8350.3	7541.6	6759.2	6006.9	5296.0
10°	13793.0	12924.1	12032.7	11145.0	10261.1	9384.7	8527.1	7703.3	6902.1	6131.1	5401.3
7.5°	14052.5	13161.1	12254.6	11340.6	10437.8	9542.6	8670.0	7827.4	7015.0	6225.1	5484.1
5°	14236.8	13334.1	12412.6	11479.7	10565.7	9659.2	8771.6	7917.7	7094.0	6292.8	5544.3
2.5°	14353.4	13473.3	12540.5	11596.4	10671.0	9753.3	8854.3	7989.2	7157.9	6349.2	5593.2
0°	14391.1	13473.3	12540.5	11596.4	10671.0	9753.3	8854.3	7989.2	7157.9	6349.2	5593.2

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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°	90.3	82.8	75.2	71.5	63.9	60.2	52.7	45.1	41.4	33.9	26.3
85°	180.5	165.5	154.2	142.9	131.6	116.6	105.3	94.0	79.0	67.7	52.7
82.5°	274.6	255.8	237.0	218.2	199.4	180.5	158.0	139.2	120.4	101.6	79.0
80°	379.9	349.8	323.5	297.1	270.8	244.5	214.4	188.1	158.0	131.6	105.3
77.5°	489.0	455.1	417.5	379.9	342.3	308.4	270.8	237.0	203.1	165.5	131.6
75°	605.6	560.4	519.1	470.2	425.0	376.1	331.0	285.9	244.5	203.1	158.0
72.5°	725.9	669.5	613.1	560.4	504.0	447.6	394.9	338.5	285.9	237.0	188.1
70°	850.1	782.4	714.7	650.7	586.8	519.1	458.9	394.9	331.0	270.8	214.4
67.5°	981.7	902.7	823.7	741.0	669.5	594.3	519.1	447.6	376.1	308.4	244.5
65°	1124.7	1030.6	932.8	846.3	752.3	669.5	586.8	504.0	425.0	342.3	270.8
62.5°	1271.3	1162.3	1053.2	944.1	846.3	741.0	650.7	560.4	470.2	379.9	297.1
60°	1421.8	1297.7	1173.6	1053.2	932.8	823.7	714.7	613.1	519.1	417.5	323.5
57.5°	1576.0	1436.8	1297.7	1162.3	1030.6	902.7	782.4	669.5	560.4	455.1	349.8
55°	1734.0	1576.0	1421.8	1271.3	1124.7	981.7	850.1	725.9	605.6	489.0	379.9
52.5°	1892.0	1719.0	1545.9	1384.2	1230.0	1068.2	917.8	778.6	647.0	526.6	406.2
50°	2053.7	1858.1	1673.8	1493.3	1316.5	1147.2	985.5	835.0	692.1	560.4	432.6
47.5°	2219.2	2004.8	1797.9	1602.4	1414.3	1230.0	1053.2	887.7	733.5	594.3	458.9
45°	2396.0	2147.8	1925.8	1715.2	1508.3	1312.7	1120.9	940.3	778.6	628.2	485.2
42.5°	2569.0	2302.0	2053.7	1831.8	1602.4	1391.7	1188.6	996.8	820.0	658.2	507.8
40°	2764.6	2456.2	2174.1	1929.6	1692.6	1466.9	1252.5	1049.4	861.4	688.3	530.4
37.5°	2952.7	2606.6	2309.5	2034.9	1779.1	1542.2	1316.5	1102.1	902.7	718.4	552.9
35°	3144.5	2772.1	2433.6	2132.7	1865.6	1617.4	1376.7	1151.0	936.6	744.8	575.5
32.5°	3340.1	2930.1	2565.3	2238.0	1952.2	1685.1	1433.1	1196.1	974.2	774.8	594.3
30°	3528.2	3080.6	2689.4	2339.6	2031.1	1752.8	1489.5	1241.3	1011.8	801.2	613.1
27.5°	3720.0	3238.6	2813.5	2433.6	2106.4	1813.0	1538.4	1282.6	1045.7	827.5	631.9
25°	3904.3	3389.0	2930.1	2523.9	2174.1	1873.2	1591.1	1324.0	1075.8	850.1	647.0
22.5°	4073.6	3520.7	3035.4	2610.4	2245.5	1925.8	1636.2	1361.6	1105.8	872.6	662.0
20°	4227.8	3656.1	3144.5	2696.9	2313.3	1978.5	1673.8	1395.5	1132.2	891.4	677.0
17.5°	4378.3	3780.2	3242.3	2775.9	2369.7	2023.6	1711.4	1421.8	1154.7	906.5	688.3
15°	4506.1	3889.3	3328.8	2843.6	2422.3	2061.2	1741.5	1448.1	1173.6	921.5	695.9
12.5°	4619.0	3983.3	3404.1	2900.0	2463.7	2095.1	1771.6	1470.7	1192.4	932.8	707.1
10°	4709.3	4058.5	3464.2	2948.9	2501.3	2121.4	1790.4	1489.5	1203.6	944.1	714.7
7.5°	4780.7	4118.7	3513.1	2982.8	2527.7	2144.0	1809.2	1500.8	1214.9	951.6	725.9
5°	4833.4	4163.9	3547.0	3009.1	2550.2	2170.3	1831.8	1519.6	1230.0	962.9	725.9
2.5°	4874.8	4197.7	3573.3	3031.7	2565.3	2170.3	1831.8	1519.6	1230.0	962.9	725.9
0°	4874.8	4197.7	3573.3	3031.7	2565.3	2170.3	1831.8	1519.6	1230.0	962.9	725.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.8	15.0	7.5	0.0
85°	41.4	26.3	15.0	0.0
82.5°	60.2	41.4	18.8	0.0
80°	79.0	52.7	26.3	0.0
77.5°	101.6	67.7	33.9	0.0
75°	120.4	79.0	41.4	0.0
72.5°	139.2	94.0	45.1	0.0
70°	158.0	105.3	52.7	0.0
67.5°	180.5	116.6	60.2	0.0
65°	199.4	131.6	63.9	0.0
62.5°	218.2	142.9	71.5	0.0
60°	237.0	154.2	75.2	0.0
57.5°	255.8	165.5	82.8	0.0
55°	274.6	180.5	90.3	0.0
52.5°	293.4	191.8	94.0	0.0
50°	312.2	203.1	97.8	0.0
47.5°	327.2	214.4	105.3	0.0
45°	346.0	225.7	109.1	0.0
42.5°	364.9	233.2	112.8	0.0
40°	379.9	244.5	116.6	0.0
37.5°	398.7	252.0	124.1	0.0
35°	413.8	263.3	127.9	0.0
32.5°	425.0	270.8	131.6	0.0
30°	440.1	278.3	135.4	0.0
27.5°	451.4	285.9	135.4	0.0
25°	462.7	293.4	139.2	0.0
22.5°	473.9	297.1	142.9	0.0
20°	485.2	304.7	146.7	0.0
17.5°	492.7	308.4	146.7	0.0
15°	500.3	312.2	154.2	0.0
12.5°	504.0	316.0	154.2	0.0
10°	511.5	323.5	154.2	0.0
7.5°	519.1	323.5	154.2	0.0
5°	519.1	323.5	154.2	0.0
2.5°	519.1	323.5	154.2	0.0
0°	519.1	323.5	154.2	0.0

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