

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: P624537

Luminaire Tested: **IFLD-S-SA6D-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30379.5 lumens	Max Intensity:	16872.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	82.5 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:	13144.9 lumens	Field Lumens:	21524.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

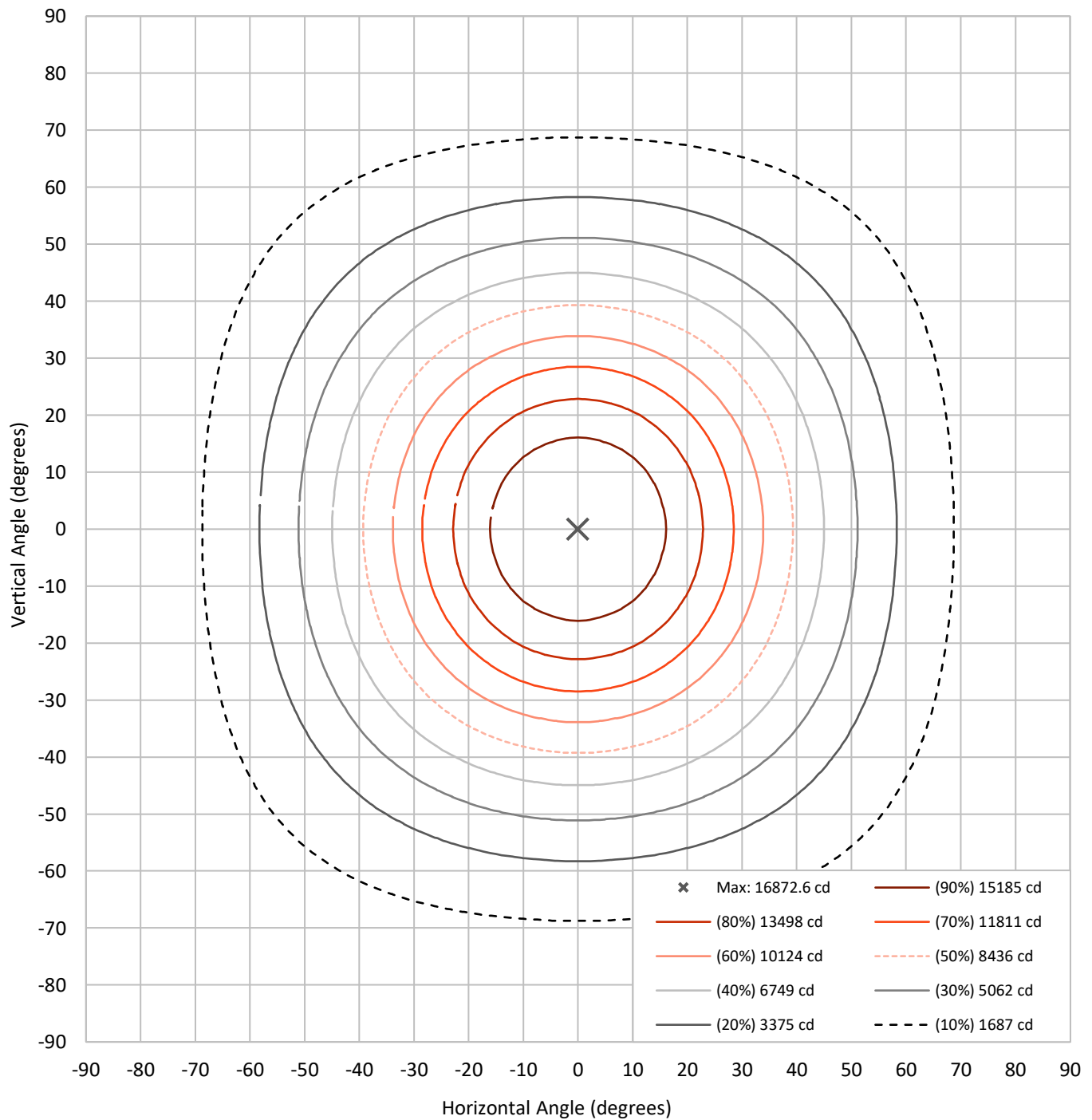
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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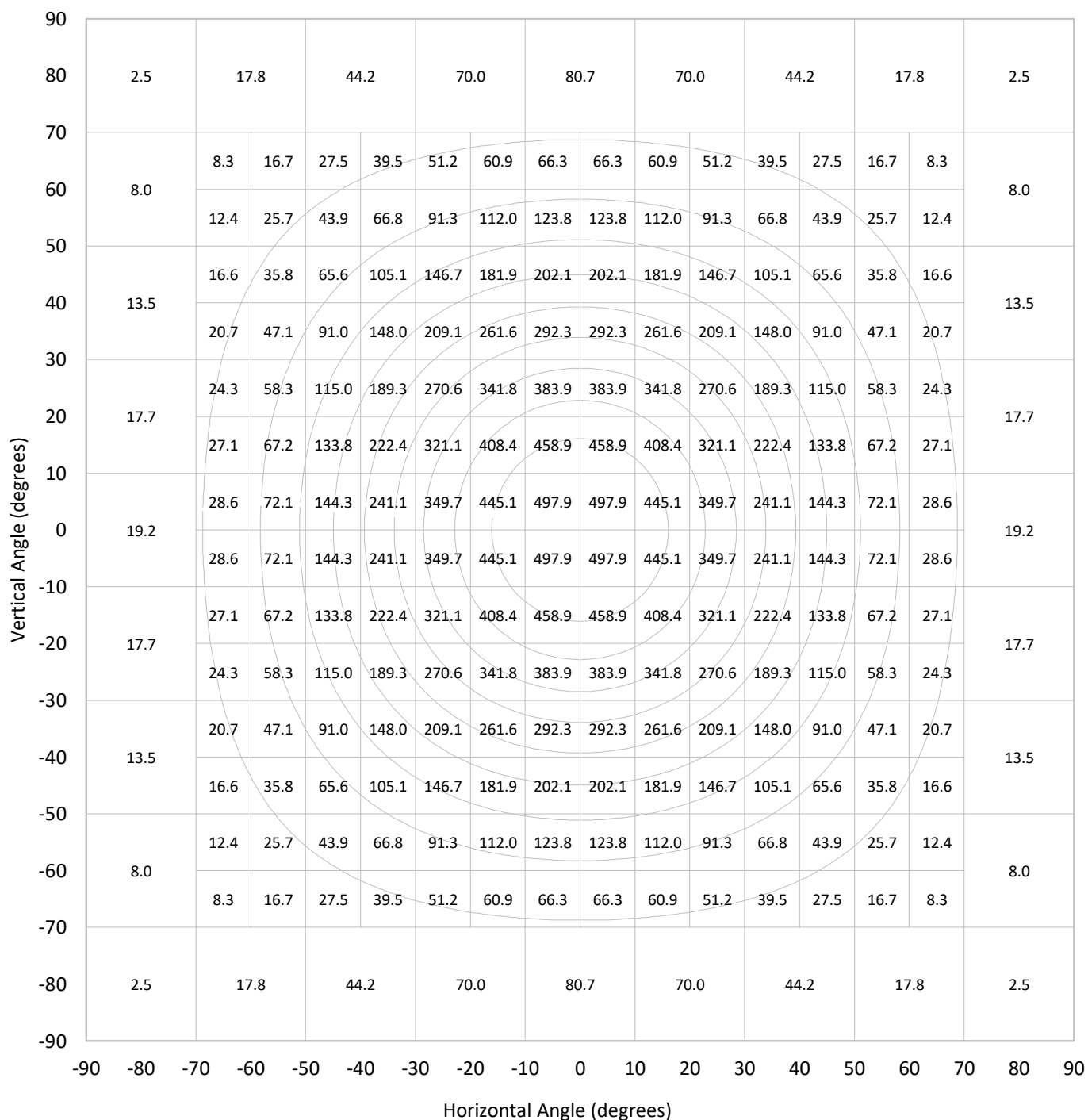
Iso-Candela Plot



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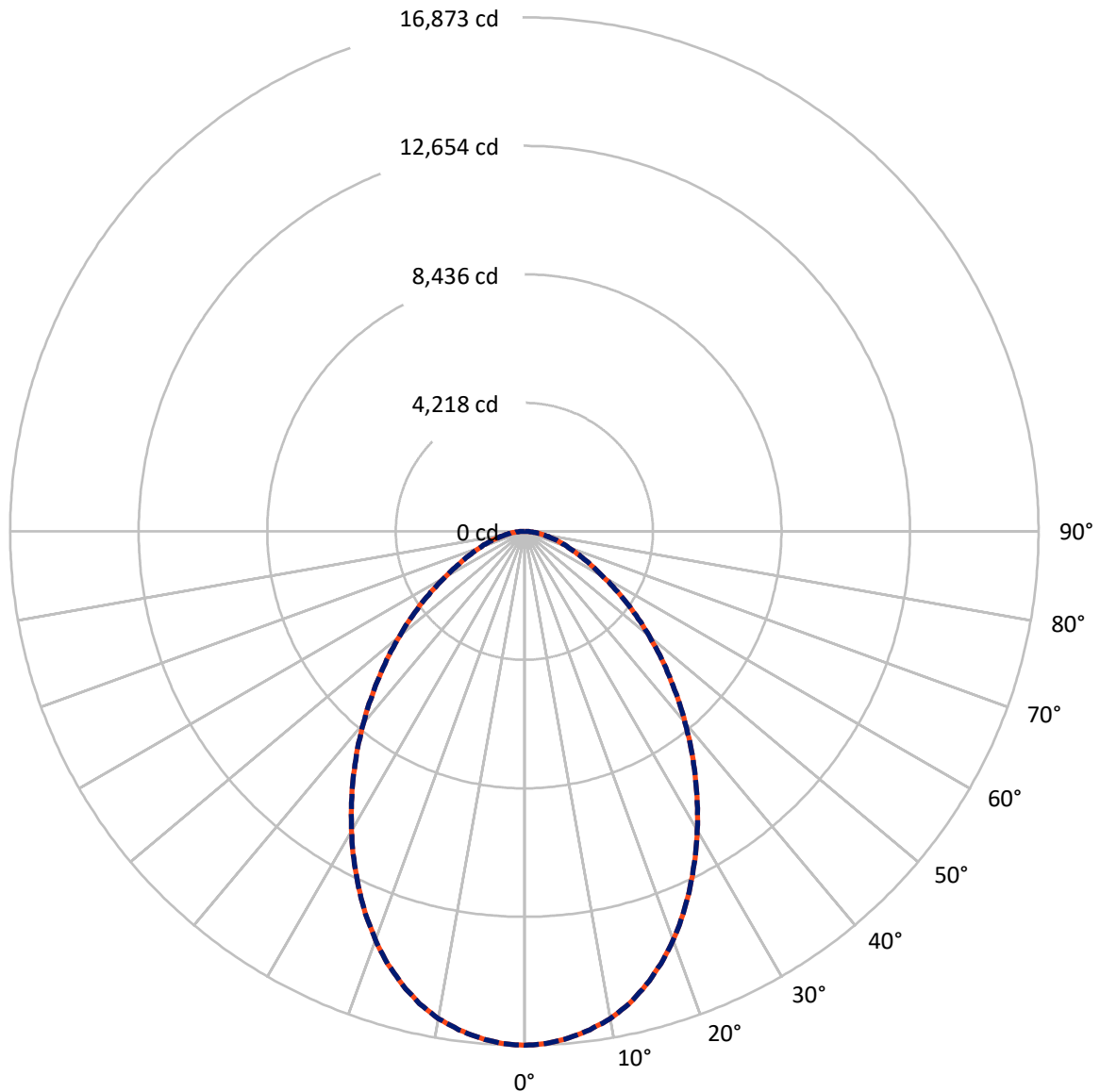
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Lumen Table



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Luminous Intensity Polar Plot

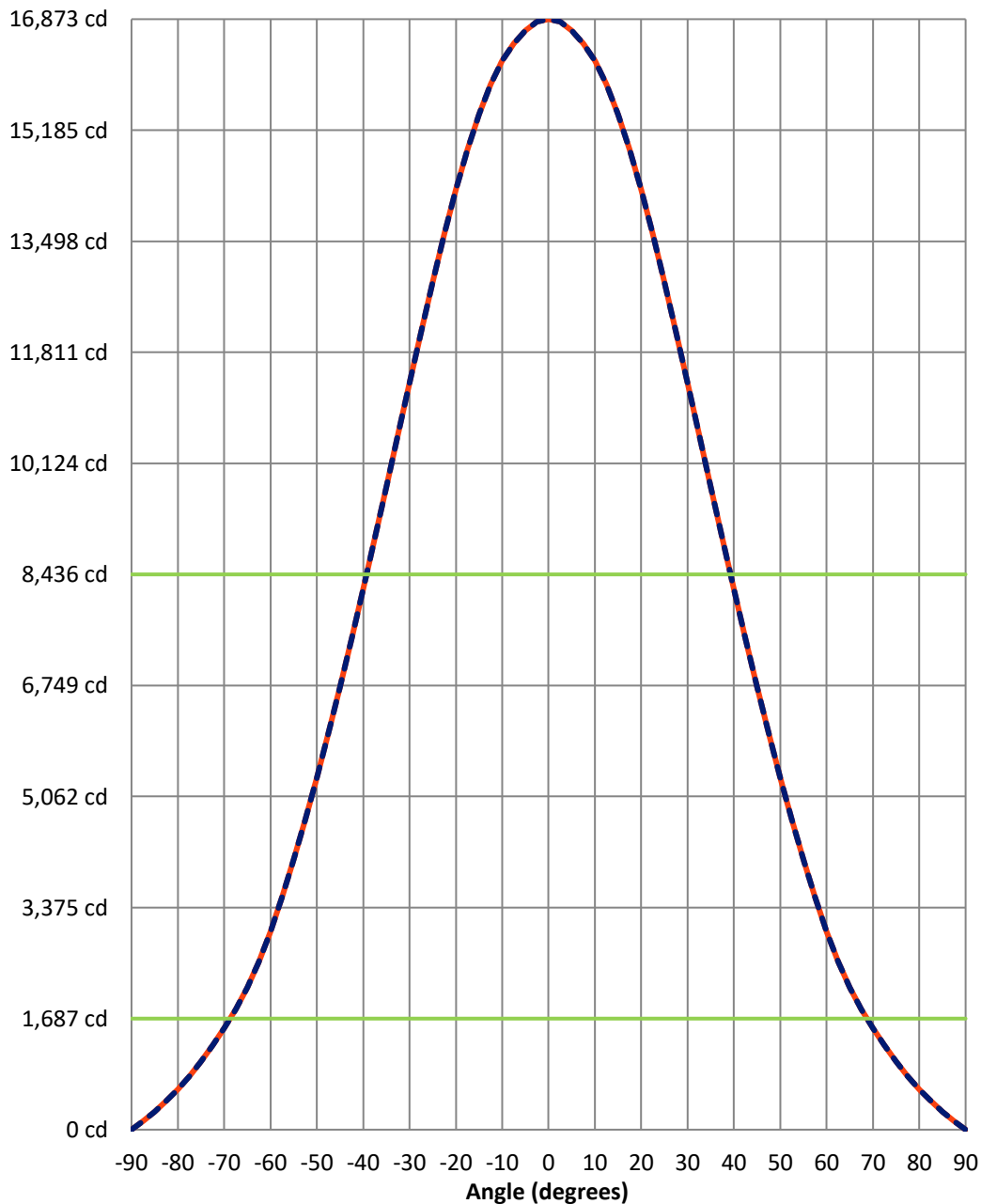


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 13144.9

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 21524.3

Efficiency: 70.9%

Spill:

Lumens: 8855.2

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°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	123.5	123.5	120.4	117.2
85°	272.4	272.4	272.4	272.4	272.4	266.1	262.9	259.7	256.6	250.2	247.1
82.5°	437.1	437.1	437.1	437.1	430.8	424.4	421.3	414.9	408.6	399.1	389.6
80°	611.3	611.3	611.3	611.3	601.8	595.5	586.0	579.6	570.1	557.5	544.8
77.5°	810.8	810.8	810.8	801.3	795.0	785.5	776.0	763.3	750.7	734.8	715.8
75°	1035.7	1035.7	1035.7	1023.1	1013.6	1004.1	988.2	972.4	953.4	931.2	905.9
72.5°	1279.6	1279.6	1279.6	1263.8	1254.3	1238.4	1219.4	1197.3	1175.1	1146.6	1114.9
70°	1542.5	1542.5	1542.5	1523.5	1507.7	1491.8	1466.5	1441.2	1409.5	1377.8	1339.8
67.5°	1827.6	1827.6	1827.6	1805.4	1786.4	1764.2	1735.7	1704.0	1666.0	1621.7	1577.4
65°	2160.1	2160.1	2147.5	2128.5	2106.3	2074.6	2039.8	1995.4	1947.9	1890.9	1830.7
62.5°	2552.9	2552.9	2533.9	2511.7	2483.2	2442.0	2394.5	2337.5	2271.0	2198.2	2125.3
60°	3009.0	3009.0	2986.8	2958.3	2917.2	2866.5	2803.1	2730.3	2647.9	2556.1	2467.4
57.5°	3534.8	3534.8	3506.3	3468.3	3417.6	3354.2	3275.1	3183.2	3078.7	2964.7	2853.8
55°	4104.9	4104.9	4070.1	4025.7	3965.6	3889.5	3794.5	3686.8	3560.1	3430.3	3287.7
52.5°	4709.9	4709.9	4668.7	4618.0	4548.3	4459.7	4352.0	4225.3	4079.6	3927.5	3759.7
50°	5346.5	5346.5	5299.0	5242.0	5162.8	5058.3	4934.8	4789.1	4627.5	4450.2	4257.0
47.5°	6027.5	6027.5	5973.7	5907.2	5812.1	5691.8	5546.1	5378.2	5194.5	4994.9	4776.4
45°	6727.5	6727.5	6667.3	6591.3	6486.8	6350.6	6189.0	6027.5	5793.1	5561.9	5308.5
42.5°	7456.0	7456.0	7386.3	7300.8	7180.4	7031.6	6847.9	6638.8	6407.6	6147.9	5872.3
40°	8213.0	8213.0	8133.8	8035.6	7902.6	7731.6	7525.7	7291.3	7031.6	6743.3	6439.3
37.5°	8985.8	8985.8	8897.2	8789.5	8640.6	8450.6	8219.3	7959.6	7668.2	7348.3	7012.6
35°	9765.0	9765.0	9666.8	9549.6	9384.9	9175.9	8925.7	8637.4	8314.4	7965.9	7589.0
32.5°	10560.0	10560.0	10452.3	10319.3	10132.4	9901.2	9625.6	9312.1	8985.8	8580.4	8168.7
30°	11345.5	11345.5	11228.3	11082.6	10883.1	10629.7	10328.8	9983.6	9600.3	9185.4	8742.0
27.5°	12118.4	12086.7	11988.5	11833.3	11614.8	11345.5	11019.3	10645.5	10230.6	9774.5	9299.4
25°	12878.5	12843.7	12736.0	12565.0	12330.6	12036.0	11684.4	11285.4	10838.8	10357.3	9837.9
22.5°	13607.0	13569.0	13455.0	13271.3	13021.1	12701.2	12324.3	11896.7	11421.5	10905.3	10357.3
20°	14281.7	14240.5	14123.3	13930.1	13670.4	13331.5	12932.4	12473.1	11966.3	11421.5	10838.8
17.5°	14889.8	14848.6	14725.1	14525.6	14281.7	13904.8	13493.0	13008.4	12473.1	11896.7	11285.4
15°	15425.1	15380.8	15254.1	15054.5	14775.8	14421.1	13987.1	13493.0	12932.4	12324.3	11684.4
12.5°	15881.2	15836.9	15707.0	15507.5	15219.2	14864.5	14421.1	13904.8	13331.5	12701.2	12036.0
10°	16242.3	16197.9	16074.4	15884.4	15586.6	15219.2	14775.8	14281.7	13670.4	13021.1	12330.6
7.5°	16502.0	16460.8	16346.8	16156.8	15884.4	15507.5	15054.5	14525.6	13930.1	13271.3	12565.0
5°	16698.4	16650.9	16536.9	16346.8	16074.4	15707.0	15254.1	14725.1	14123.3	13455.0	12736.0
2.5°	16834.6	16777.6	16650.9	16460.8	16197.9	15836.9	15380.8	14848.6	14240.5	13569.0	12843.7
0°	16872.6	16834.6	16698.4	16502.0	16242.3	15881.2	15425.1	14889.8	14281.7	13607.0	12878.5

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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°	114.0	114.0	110.9	107.7	104.5	98.2	95.0	91.9	88.7	82.4	79.2
85°	240.7	234.4	228.1	221.7	212.2	205.9	196.4	190.0	180.5	171.0	161.5
82.5°	380.1	370.6	357.9	348.4	335.7	319.9	307.2	291.4	275.6	262.9	247.1
80°	532.1	516.3	500.4	484.6	465.6	446.6	427.6	408.6	386.4	364.2	342.1
77.5°	696.8	674.7	652.5	627.1	605.0	579.6	554.3	529.0	500.4	471.9	443.4
75°	880.5	852.0	820.3	788.7	760.2	725.3	690.5	655.6	617.6	582.8	544.8
72.5°	1080.1	1045.2	1007.2	969.2	928.0	883.7	839.4	791.8	747.5	703.2	655.6
70°	1295.5	1254.3	1206.8	1159.3	1108.6	1054.7	1000.9	943.9	886.9	829.9	772.8
67.5°	1526.7	1476.0	1419.0	1362.0	1298.6	1235.3	1171.9	1105.4	1035.7	966.0	899.5
65°	1773.7	1710.4	1643.9	1571.0	1498.2	1425.3	1349.3	1270.1	1190.9	1108.6	1035.7
62.5°	2049.3	1970.1	1884.6	1795.9	1713.5	1624.9	1542.5	1444.3	1349.3	1257.4	1165.6
60°	2369.2	2264.7	2160.1	2049.3	1944.8	1830.7	1729.4	1621.7	1514.0	1409.5	1301.8
57.5°	2727.1	2594.1	2467.4	2334.4	2195.0	2068.3	1938.4	1808.6	1688.2	1564.7	1447.5
55°	3132.5	2971.0	2812.6	2647.9	2486.4	2328.0	2163.3	2017.6	1868.8	1729.4	1593.2
52.5°	3576.0	3392.3	3195.9	3009.0	2803.1	2606.7	2423.0	2239.3	2065.1	1897.3	1742.1
50°	4051.1	3835.7	3610.8	3382.8	3148.4	2917.2	2695.4	2480.1	2277.3	2081.0	1897.3
47.5°	4545.2	4301.3	4044.7	3785.0	3534.8	3252.9	2986.8	2742.9	2499.1	2277.3	2065.1
45°	5052.0	4776.4	4494.5	4199.9	3905.4	3601.3	3306.7	3009.0	2742.9	2480.1	2239.3
42.5°	5574.6	5264.2	4950.6	4624.4	4298.1	3965.6	3633.0	3306.7	2986.8	2695.4	2423.0
40°	6113.0	5771.0	5413.0	5058.3	4709.9	4329.8	3965.6	3601.3	3252.9	2917.2	2606.7
37.5°	6651.5	6277.7	5891.3	5492.2	5093.1	4709.9	4298.1	3905.4	3534.8	3148.4	2803.1
35°	7193.1	6781.3	6363.3	5929.3	5492.2	5058.3	4624.4	4199.9	3785.0	3382.8	3009.0
32.5°	7737.9	7288.1	6825.7	6363.3	5891.3	5413.0	4950.6	4494.5	4044.7	3610.8	3195.9
30°	8273.2	7785.4	7288.1	6781.3	6277.7	5771.0	5264.2	4776.4	4301.3	3835.7	3392.3
27.5°	8795.8	8273.2	7737.9	7193.1	6651.5	6113.0	5574.6	5052.0	4545.2	4051.1	3576.0
25°	9299.4	8742.0	8168.7	7589.0	7012.6	6439.3	5872.3	5308.5	4776.4	4257.0	3759.7
22.5°	9774.5	9185.4	8580.4	7965.9	7348.3	6743.3	6147.9	5561.9	4994.9	4450.2	3927.5
20°	10230.6	9600.3	8985.8	8314.4	7668.2	7031.6	6407.6	5793.1	5194.5	4627.5	4079.6
17.5°	10645.5	9983.6	9312.1	8637.4	7959.6	7291.3	6638.8	6027.5	5378.2	4789.1	4225.3
15°	11019.3	10328.8	9625.6	8925.7	8219.3	7525.7	6847.9	6189.0	5546.1	4934.8	4352.0
12.5°	11345.5	10629.7	9901.2	9175.9	8450.6	7731.6	7031.6	6350.6	5691.8	5058.3	4459.7
10°	11614.8	10883.1	10132.4	9384.9	8640.6	7902.6	7180.4	6486.8	5812.1	5162.8	4548.3
7.5°	11833.3	11082.6	10319.3	9549.6	8789.5	8035.6	7300.8	6591.3	5907.2	5242.0	4618.0
5°	11988.5	11228.3	10452.3	9666.8	8897.2	8133.8	7386.3	6667.3	5973.7	5299.0	4668.7
2.5°	12086.7	11345.5	10560.0	9765.0	8985.8	8213.0	7456.0	6727.5	6027.5	5346.5	4709.9
0°	12118.4	11345.5	10560.0	9765.0	8985.8	8213.0	7456.0	6727.5	6027.5	5346.5	4709.9

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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°	76.0	69.7	63.3	60.2	53.8	50.7	44.3	38.0	34.8	28.5	22.2
85°	152.0	139.4	129.9	120.4	110.9	98.2	88.7	79.2	66.5	57.0	44.3
82.5°	231.2	215.4	199.5	183.7	167.9	152.0	133.0	117.2	101.4	85.5	66.5
80°	319.9	294.6	272.4	250.2	228.1	205.9	180.5	158.4	133.0	110.9	88.7
77.5°	411.8	383.3	351.6	319.9	288.2	259.7	228.1	199.5	171.0	139.4	110.9
75°	509.9	471.9	437.1	395.9	357.9	316.7	278.7	240.7	205.9	171.0	133.0
72.5°	611.3	563.8	516.3	471.9	424.4	376.9	332.6	285.1	240.7	199.5	158.4
70°	715.8	658.8	601.8	548.0	494.1	437.1	386.4	332.6	278.7	228.1	180.5
67.5°	826.7	760.2	693.7	624.0	563.8	500.4	437.1	376.9	316.7	259.7	205.9
65°	947.0	867.9	785.5	712.7	633.5	563.8	494.1	424.4	357.9	288.2	228.1
62.5°	1070.6	978.7	886.9	795.0	712.7	624.0	548.0	471.9	395.9	319.9	250.2
60°	1197.3	1092.7	988.2	886.9	785.5	693.7	601.8	516.3	437.1	351.6	272.4
57.5°	1327.1	1209.9	1092.7	978.7	867.9	760.2	658.8	563.8	471.9	383.3	294.6
55°	1460.2	1327.1	1197.3	1070.6	947.0	826.7	715.8	611.3	509.9	411.8	319.9
52.5°	1593.2	1447.5	1301.8	1165.6	1035.7	899.5	772.8	655.6	544.8	443.4	342.1
50°	1729.4	1564.7	1409.5	1257.4	1108.6	966.0	829.9	703.2	582.8	471.9	364.2
47.5°	1868.8	1688.2	1514.0	1349.3	1190.9	1035.7	886.9	747.5	617.6	500.4	386.4
45°	2017.6	1808.6	1621.7	1444.3	1270.1	1105.4	943.9	791.8	655.6	529.0	408.6
42.5°	2163.3	1938.4	1729.4	1542.5	1349.3	1171.9	1000.9	839.4	690.5	554.3	427.6
40°	2328.0	2068.3	1830.7	1624.9	1425.3	1235.3	1054.7	883.7	725.3	579.6	446.6
37.5°	2486.4	2195.0	1944.8	1713.5	1498.2	1298.6	1108.6	928.0	760.2	605.0	465.6
35°	2647.9	2334.4	2049.3	1795.9	1571.0	1362.0	1159.3	969.2	788.7	627.1	484.6
32.5°	2812.6	2467.4	2160.1	1884.6	1643.9	1419.0	1206.8	1007.2	820.3	652.5	500.4
30°	2971.0	2594.1	2264.7	1970.1	1710.4	1476.0	1254.3	1045.2	852.0	674.7	516.3
27.5°	3132.5	2727.1	2369.2	2049.3	1773.7	1526.7	1295.5	1080.1	880.5	696.8	532.1
25°	3287.7	2853.8	2467.4	2125.3	1830.7	1577.4	1339.8	1114.9	905.9	715.8	544.8
22.5°	3430.3	2964.7	2556.1	2198.2	1890.9	1621.7	1377.8	1146.6	931.2	734.8	557.5
20°	3560.1	3078.7	2647.9	2271.0	1947.9	1666.0	1409.5	1175.1	953.4	750.7	570.1
17.5°	3686.8	3183.2	2730.3	2337.5	1995.4	1704.0	1441.2	1197.3	972.4	763.3	579.6
15°	3794.5	3275.1	2803.1	2394.5	2039.8	1735.7	1466.5	1219.4	988.2	776.0	586.0
12.5°	3889.5	3354.2	2866.5	2442.0	2074.6	1764.2	1491.8	1238.4	1004.1	785.5	595.5
10°	3965.6	3417.6	2917.2	2483.2	2106.3	1786.4	1507.7	1254.3	1013.6	795.0	601.8
7.5°	4025.7	3468.3	2958.3	2511.7	2128.5	1805.4	1523.5	1263.8	1023.1	801.3	611.3
5°	4070.1	3506.3	2986.8	2533.9	2147.5	1827.6	1542.5	1279.6	1035.7	810.8	611.3
2.5°	4104.9	3534.8	3009.0	2552.9	2160.1	1827.6	1542.5	1279.6	1035.7	810.8	611.3
0°	4104.9	3534.8	3009.0	2552.9	2160.1	1827.6	1542.5	1279.6	1035.7	810.8	611.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.8	12.7	6.3	0.0
85°	34.8	22.2	12.7	0.0
82.5°	50.7	34.8	15.8	0.0
80°	66.5	44.3	22.2	0.0
77.5°	85.5	57.0	28.5	0.0
75°	101.4	66.5	34.8	0.0
72.5°	117.2	79.2	38.0	0.0
70°	133.0	88.7	44.3	0.0
67.5°	152.0	98.2	50.7	0.0
65°	167.9	110.9	53.8	0.0
62.5°	183.7	120.4	60.2	0.0
60°	199.5	129.9	63.3	0.0
57.5°	215.4	139.4	69.7	0.0
55°	231.2	152.0	76.0	0.0
52.5°	247.1	161.5	79.2	0.0
50°	262.9	171.0	82.4	0.0
47.5°	275.6	180.5	88.7	0.0
45°	291.4	190.0	91.9	0.0
42.5°	307.2	196.4	95.0	0.0
40°	319.9	205.9	98.2	0.0
37.5°	335.7	212.2	104.5	0.0
35°	348.4	221.7	107.7	0.0
32.5°	357.9	228.1	110.9	0.0
30°	370.6	234.4	114.0	0.0
27.5°	380.1	240.7	114.0	0.0
25°	389.6	247.1	117.2	0.0
22.5°	399.1	250.2	120.4	0.0
20°	408.6	256.6	123.5	0.0
17.5°	414.9	259.7	123.5	0.0
15°	421.3	262.9	129.9	0.0
12.5°	424.4	266.1	129.9	0.0
10°	430.8	272.4	129.9	0.0
7.5°	437.1	272.4	129.9	0.0
5°	437.1	272.4	129.9	0.0
2.5°	437.1	272.4	129.9	0.0
0°	437.1	272.4	129.9	0.0

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