

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: P624010

Luminaire Tested: **IFLD-L-SA8A-760-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

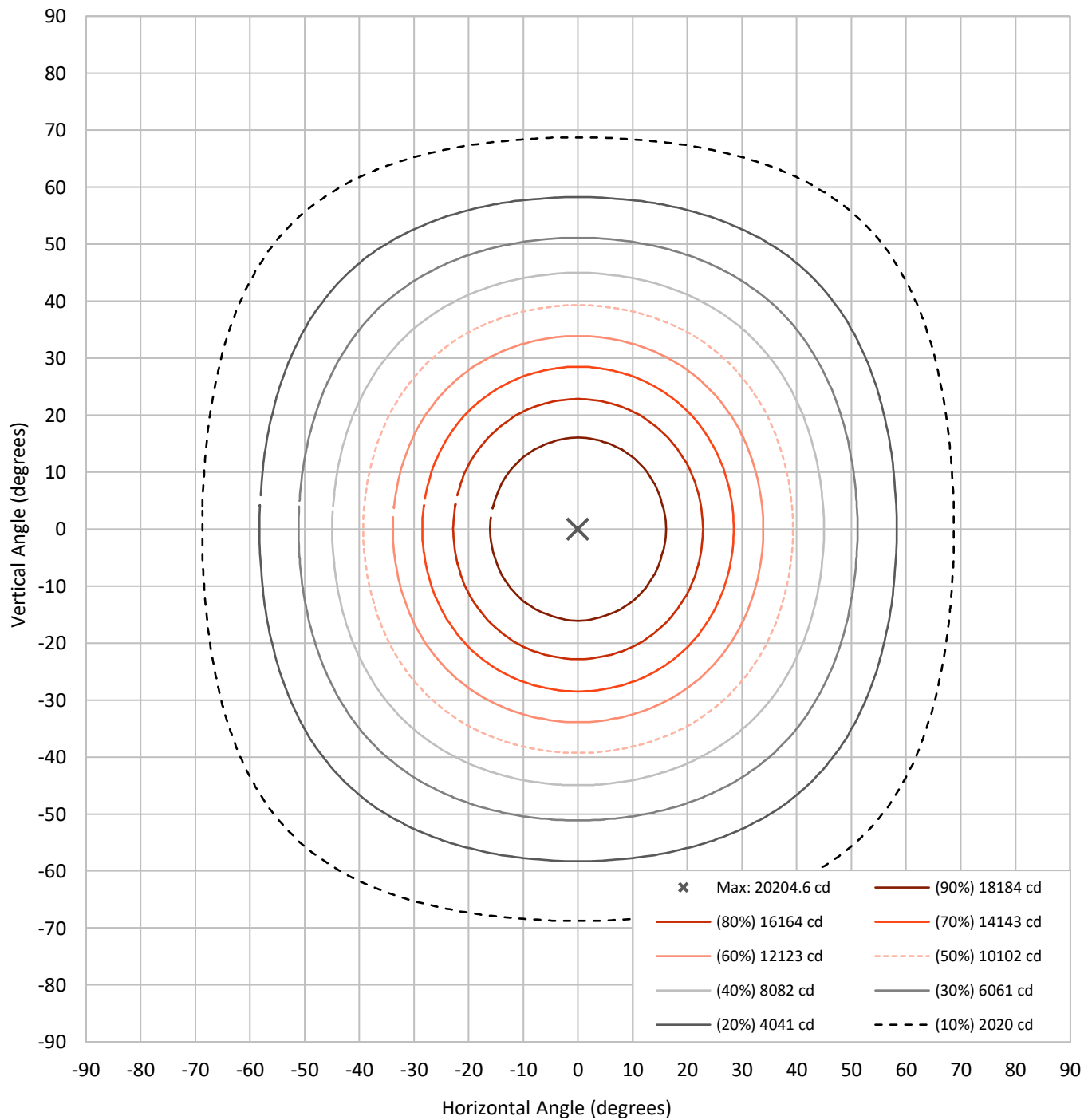
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36378.9 lumens	Max Intensity:	20204.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15740.8 lumens	Field Lumens:	25775 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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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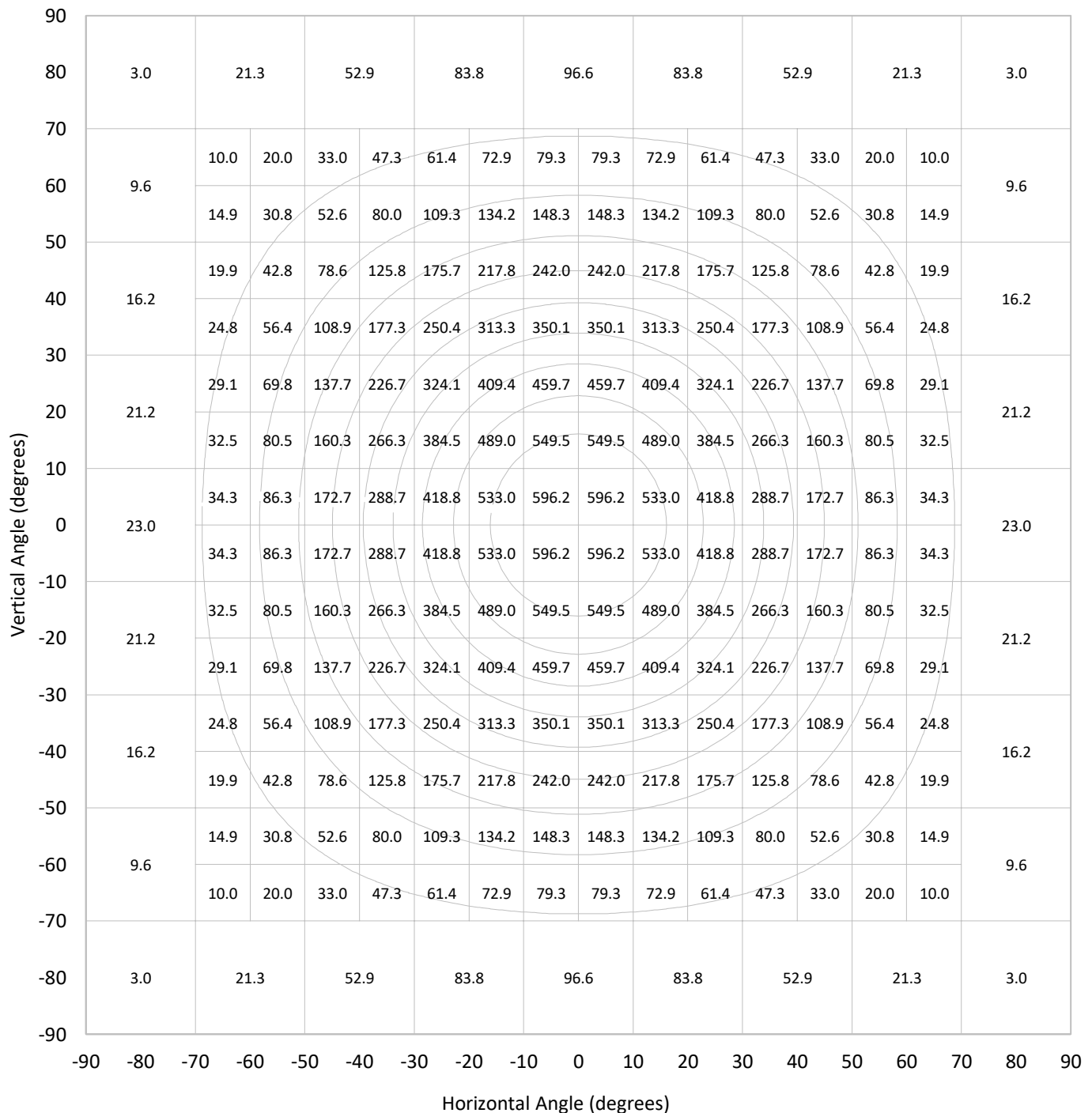
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Iso-Candela Plot



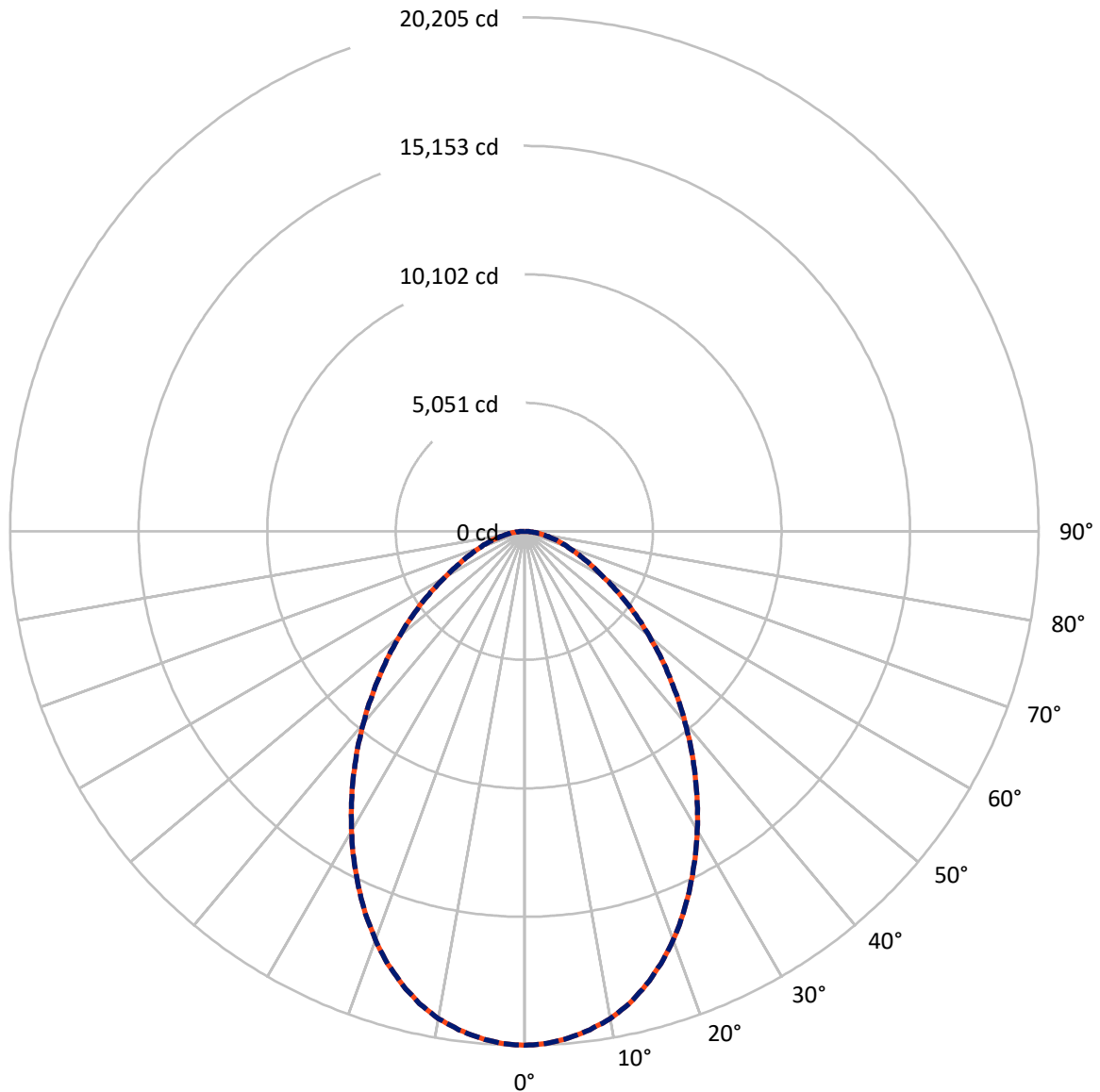
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Lumen Table



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Luminous Intensity Polar Plot

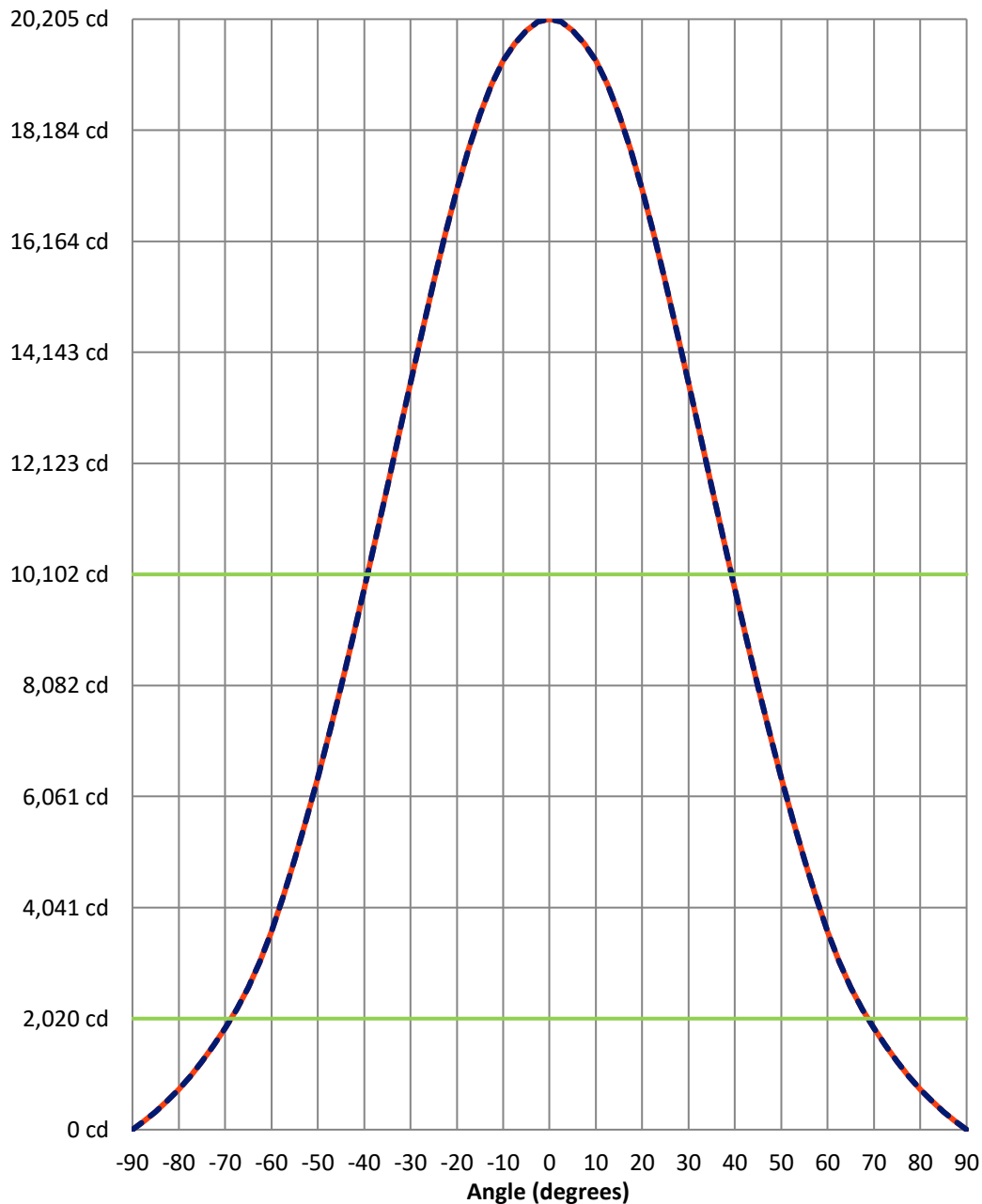


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15740.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 25775
Efficiency: 70.9%

Spill:

Lumens: 10603.9
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°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	147.9	147.9	144.1	140.3
85°	326.2	326.2	326.2	326.2	326.2	318.6	314.8	311.0	307.2	299.6	295.8
82.5°	523.4	523.4	523.4	523.4	515.8	508.2	504.5	496.9	489.3	477.9	466.5
80°	732.0	732.0	732.0	732.0	720.6	713.1	701.7	694.1	682.7	667.5	652.4
77.5°	971.0	971.0	971.0	959.6	952.0	940.6	929.3	914.1	898.9	879.9	857.2
75°	1240.3	1240.3	1240.3	1225.1	1213.7	1202.3	1183.4	1164.4	1141.7	1115.1	1084.8
72.5°	1532.3	1532.3	1532.3	1513.4	1502.0	1483.0	1460.3	1433.7	1407.2	1373.0	1335.1
70°	1847.1	1847.1	1847.1	1824.4	1805.4	1786.4	1756.1	1725.8	1687.8	1649.9	1604.4
67.5°	2188.5	2188.5	2188.5	2161.9	2139.2	2112.6	2078.5	2040.6	1995.1	1942.0	1888.9
65°	2586.7	2586.7	2571.6	2548.8	2522.3	2484.3	2442.6	2389.5	2332.6	2264.3	2192.3
62.5°	3057.1	3057.1	3034.3	3007.7	2973.6	2924.3	2867.4	2799.1	2719.5	2632.3	2545.0
60°	3603.2	3603.2	3576.7	3542.5	3493.2	3432.6	3356.7	3269.5	3170.8	3060.8	2954.6
57.5°	4232.8	4232.8	4198.7	4153.2	4092.5	4016.7	3921.8	3811.8	3686.7	3550.1	3417.4
55°	4915.6	4915.6	4873.8	4820.7	4748.7	4657.7	4543.9	4414.9	4263.2	4107.7	3937.0
52.5°	5640.0	5640.0	5590.7	5530.0	5446.6	5340.4	5211.4	5059.7	4885.2	4703.2	4502.1
50°	6402.4	6402.4	6345.5	6277.2	6182.4	6057.2	5909.3	5734.8	5541.4	5329.0	5097.6
47.5°	7217.8	7217.8	7153.4	7073.7	6959.9	6815.8	6641.3	6440.3	6220.3	5981.4	5719.7
45°	8056.1	8056.1	7984.0	7893.0	7767.8	7604.7	7411.3	7217.8	6937.2	6660.3	6356.9
42.5°	8928.4	8928.4	8845.0	8742.6	8598.4	8420.2	8200.2	7949.9	7673.0	7362.0	7032.0
40°	9834.9	9834.9	9740.1	9622.5	9463.2	9258.4	9011.9	8731.2	8420.2	8075.0	7710.9
37.5°	10760.4	10760.4	10654.2	10525.2	10347.0	10119.4	9842.5	9531.5	9182.5	8799.5	8397.4
35°	11693.4	11693.4	11575.9	11435.5	11238.3	10988.0	10688.3	10343.2	9956.3	9539.1	9087.7
32.5°	12645.4	12645.4	12516.5	12357.2	12133.4	11856.5	11526.5	11151.1	10760.4	10274.9	9781.8
30°	13586.1	13586.1	13445.7	13271.3	13032.3	12728.9	12368.6	11955.1	11496.2	10999.3	10468.3
27.5°	14511.5	14473.6	14356.0	14170.2	13908.5	13586.1	13195.4	12747.9	12251.0	11704.8	11135.9
25°	15421.8	15380.1	15251.1	15046.3	14765.7	14412.9	13991.9	13514.0	12979.2	12402.7	11780.7
22.5°	16294.2	16248.7	16112.1	15892.1	15592.5	15209.4	14758.1	14246.0	13677.1	13058.9	12402.7
20°	17102.1	17052.8	16912.4	16681.1	16370.0	15964.2	15486.3	14936.3	14329.5	13677.1	12979.2
17.5°	17830.3	17781.0	17633.1	17394.1	17102.1	16650.7	16157.6	15577.3	14936.3	14246.0	13514.0
15°	18471.3	18418.2	18266.5	18027.5	17693.8	17269.0	16749.3	16157.6	15486.3	14758.1	13991.9
12.5°	19017.5	18964.4	18808.9	18569.9	18224.8	17800.0	17269.0	16650.7	15964.2	15209.4	14412.9
10°	19449.9	19396.8	19248.8	19021.3	18664.7	18224.8	17693.8	17102.1	16370.0	15592.5	14765.7
7.5°	19760.9	19711.6	19575.0	19347.5	19021.3	18569.9	18027.5	17394.1	16681.1	15892.1	15046.3
5°	19996.0	19939.1	19802.6	19575.0	19248.8	18808.9	18266.5	17633.1	16912.4	16112.1	15251.1
2.5°	20159.1	20090.9	19939.1	19711.6	19396.8	18964.4	18418.2	17781.0	17052.8	16248.7	15380.1
0°	20204.6	20159.1	19996.0	19760.9	19449.9	19017.5	18471.3	17830.3	17102.1	16294.2	15421.8

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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°	136.5	136.5	132.8	129.0	125.2	117.6	113.8	110.0	106.2	98.6	94.8
85°	288.3	280.7	273.1	265.5	254.1	246.5	235.2	227.6	216.2	204.8	193.4
82.5°	455.1	443.8	428.6	417.2	402.0	383.1	367.9	348.9	330.0	314.8	295.8
80°	637.2	618.2	599.3	580.3	557.6	534.8	512.0	489.3	462.7	436.2	409.6
77.5°	834.4	807.9	781.3	751.0	724.4	694.1	663.8	633.4	599.3	565.1	531.0
75°	1054.4	1020.3	982.4	944.4	910.3	868.6	826.8	785.1	739.6	697.9	652.4
72.5°	1293.4	1251.6	1206.1	1160.6	1111.3	1058.2	1005.1	948.2	895.1	842.0	785.1
70°	1551.3	1502.0	1445.1	1388.2	1327.5	1263.0	1198.5	1130.3	1062.0	993.7	925.5
67.5°	1828.2	1767.5	1699.2	1630.9	1555.1	1479.2	1403.4	1323.7	1240.3	1156.8	1077.2
65°	2124.0	2048.2	1968.5	1881.3	1794.0	1706.8	1615.8	1520.9	1426.1	1327.5	1240.3
62.5°	2454.0	2359.2	2256.8	2150.6	2051.9	1945.7	1847.1	1729.6	1615.8	1505.8	1395.8
60°	2837.1	2711.9	2586.7	2454.0	2328.8	2192.3	2070.9	1942.0	1813.0	1687.8	1558.9
57.5°	3265.7	3106.4	2954.6	2795.3	2628.5	2476.7	2321.2	2165.7	2021.6	1873.7	1733.3
55°	3751.2	3557.7	3368.1	3170.8	2977.4	2787.8	2590.5	2416.1	2237.8	2070.9	1907.8
52.5°	4282.2	4062.2	3827.0	3603.2	3356.7	3121.5	2901.5	2681.6	2473.0	2271.9	2086.1
50°	4851.1	4593.2	4323.9	4050.8	3770.1	3493.2	3227.7	2969.8	2727.1	2491.9	2271.9
47.5°	5442.8	5150.7	4843.5	4532.5	4232.8	3895.3	3576.7	3284.6	2992.6	2727.1	2473.0
45°	6049.6	5719.7	5382.1	5029.4	4676.6	4312.5	3959.8	3603.2	3284.6	2969.8	2681.6
42.5°	6675.5	6303.8	5928.3	5537.6	5146.9	4748.7	4350.4	3959.8	3576.7	3227.7	2901.5
40°	7320.2	6910.6	6482.0	6057.2	5640.0	5184.9	4748.7	4312.5	3895.3	3493.2	3121.5
37.5°	7965.0	7517.5	7054.7	6576.8	6098.9	5640.0	5146.9	4676.6	4232.8	3770.1	3356.7
35°	8613.6	8120.5	7619.9	7100.3	6576.8	6057.2	5537.6	5029.4	4532.5	4050.8	3603.2
32.5°	9266.0	8727.4	8173.6	7619.9	7054.7	6482.0	5928.3	5382.1	4843.5	4323.9	3827.0
30°	9907.0	9322.9	8727.4	8120.5	7517.5	6910.6	6303.8	5719.7	5150.7	4593.2	4062.2
27.5°	10532.8	9907.0	9266.0	8613.6	7965.0	7320.2	6675.5	6049.6	5442.8	4851.1	4282.2
25°	11135.9	10468.3	9781.8	9087.7	8397.4	7710.9	7032.0	6356.9	5719.7	5097.6	4502.1
22.5°	11704.8	10999.3	10274.9	9539.1	8799.5	8075.0	7362.0	6660.3	5981.4	5329.0	4703.2
20°	12251.0	11496.2	10760.4	9956.3	9182.5	8420.2	7673.0	6937.2	6220.3	5541.4	4885.2
17.5°	12747.9	11955.1	11151.1	10343.2	9531.5	8731.2	7949.9	7217.8	6440.3	5734.8	5059.7
15°	13195.4	12368.6	11526.5	10688.3	9842.5	9011.9	8200.2	7411.3	6641.3	5909.3	5211.4
12.5°	13586.1	12728.9	11856.5	10988.0	10119.4	9258.4	8420.2	7604.7	6815.8	6057.2	5340.4
10°	13908.5	13032.3	12133.4	11238.3	10347.0	9463.2	8598.4	7767.8	6959.9	6182.4	5446.6
7.5°	14170.2	13271.3	12357.2	11435.5	10525.2	9622.5	8742.6	7893.0	7073.7	6277.2	5530.0
5°	14356.0	13445.7	12516.5	11575.9	10654.2	9740.1	8845.0	7984.0	7153.4	6345.5	5590.7
2.5°	14473.6	13586.1	12645.4	11693.4	10760.4	9834.9	8928.4	8056.1	7217.8	6402.4	5640.0
0°	14511.5	13586.1	12645.4	11693.4	10760.4	9834.9	8928.4	8056.1	7217.8	6402.4	5640.0

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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°	91.0	83.4	75.9	72.1	64.5	60.7	53.1	45.5	41.7	34.1	26.6
85°	182.1	166.9	155.5	144.1	132.8	117.6	106.2	94.8	79.7	68.3	53.1
82.5°	276.9	257.9	239.0	220.0	201.0	182.1	159.3	140.3	121.4	102.4	79.7
80°	383.1	352.7	326.2	299.6	273.1	246.5	216.2	189.6	159.3	132.8	106.2
77.5°	493.1	458.9	421.0	383.1	345.2	311.0	273.1	239.0	204.8	166.9	132.8
75°	610.7	565.1	523.4	474.1	428.6	379.3	333.8	288.3	246.5	204.8	159.3
72.5°	732.0	675.1	618.2	565.1	508.2	451.4	398.3	341.4	288.3	239.0	189.6
70°	857.2	788.9	720.6	656.2	591.7	523.4	462.7	398.3	333.8	273.1	216.2
67.5°	989.9	910.3	830.6	747.2	675.1	599.3	523.4	451.4	379.3	311.0	246.5
65°	1134.1	1039.2	940.6	853.4	758.6	675.1	591.7	508.2	428.6	345.2	273.1
62.5°	1282.0	1172.0	1062.0	952.0	853.4	747.2	656.2	565.1	474.1	383.1	299.6
60°	1433.7	1308.5	1183.4	1062.0	940.6	830.6	720.6	618.2	523.4	421.0	326.2
57.5°	1589.2	1448.9	1308.5	1172.0	1039.2	910.3	788.9	675.1	565.1	458.9	352.7
55°	1748.5	1589.2	1433.7	1282.0	1134.1	989.9	857.2	732.0	610.7	493.1	383.1
52.5°	1907.8	1733.3	1558.9	1395.8	1240.3	1077.2	925.5	785.1	652.4	531.0	409.6
50°	2070.9	1873.7	1687.8	1505.8	1327.5	1156.8	993.7	842.0	697.9	565.1	436.2
47.5°	2237.8	2021.6	1813.0	1615.8	1426.1	1240.3	1062.0	895.1	739.6	599.3	462.7
45°	2416.1	2165.7	1942.0	1729.6	1520.9	1323.7	1130.3	948.2	785.1	633.4	489.3
42.5°	2590.5	2321.2	2070.9	1847.1	1615.8	1403.4	1198.5	1005.1	826.8	663.8	512.0
40°	2787.8	2476.7	2192.3	1945.7	1706.8	1479.2	1263.0	1058.2	868.6	694.1	534.8
37.5°	2977.4	2628.5	2328.8	2051.9	1794.0	1555.1	1327.5	1111.3	910.3	724.4	557.6
35°	3170.8	2795.3	2454.0	2150.6	1881.3	1630.9	1388.2	1160.6	944.4	751.0	580.3
32.5°	3368.1	2954.6	2586.7	2256.8	1968.5	1699.2	1445.1	1206.1	982.4	781.3	599.3
30°	3557.7	3106.4	2711.9	2359.2	2048.2	1767.5	1502.0	1251.6	1020.3	807.9	618.2
27.5°	3751.2	3265.7	2837.1	2454.0	2124.0	1828.2	1551.3	1293.4	1054.4	834.4	637.2
25°	3937.0	3417.4	2954.6	2545.0	2192.3	1888.9	1604.4	1335.1	1084.8	857.2	652.4
22.5°	4107.7	3550.1	3060.8	2632.3	2264.3	1942.0	1649.9	1373.0	1115.1	879.9	667.5
20°	4263.2	3686.7	3170.8	2719.5	2332.6	1995.1	1687.8	1407.2	1141.7	898.9	682.7
17.5°	4414.9	3811.8	3269.5	2799.1	2389.5	2040.6	1725.8	1433.7	1164.4	914.1	694.1
15°	4543.9	3921.8	3356.7	2867.4	2442.6	2078.5	1756.1	1460.3	1183.4	929.3	701.7
12.5°	4657.7	4016.7	3432.6	2924.3	2484.3	2112.6	1786.4	1483.0	1202.3	940.6	713.1
10°	4748.7	4092.5	3493.2	2973.6	2522.3	2139.2	1805.4	1502.0	1213.7	952.0	720.6
7.5°	4820.7	4153.2	3542.5	3007.7	2548.8	2161.9	1824.4	1513.4	1225.1	959.6	732.0
5°	4873.8	4198.7	3576.7	3034.3	2571.6	2188.5	1847.1	1532.3	1240.3	971.0	732.0
2.5°	4915.6	4232.8	3603.2	3057.1	2586.7	2188.5	1847.1	1532.3	1240.3	971.0	732.0
0°	4915.6	4232.8	3603.2	3057.1	2586.7	2188.5	1847.1	1532.3	1240.3	971.0	732.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.0	15.2	7.6	0.0
85°	41.7	26.6	15.2	0.0
82.5°	60.7	41.7	19.0	0.0
80°	79.7	53.1	26.6	0.0
77.5°	102.4	68.3	34.1	0.0
75°	121.4	79.7	41.7	0.0
72.5°	140.3	94.8	45.5	0.0
70°	159.3	106.2	53.1	0.0
67.5°	182.1	117.6	60.7	0.0
65°	201.0	132.8	64.5	0.0
62.5°	220.0	144.1	72.1	0.0
60°	239.0	155.5	75.9	0.0
57.5°	257.9	166.9	83.4	0.0
55°	276.9	182.1	91.0	0.0
52.5°	295.8	193.4	94.8	0.0
50°	314.8	204.8	98.6	0.0
47.5°	330.0	216.2	106.2	0.0
45°	348.9	227.6	110.0	0.0
42.5°	367.9	235.2	113.8	0.0
40°	383.1	246.5	117.6	0.0
37.5°	402.0	254.1	125.2	0.0
35°	417.2	265.5	129.0	0.0
32.5°	428.6	273.1	132.8	0.0
30°	443.8	280.7	136.5	0.0
27.5°	455.1	288.3	136.5	0.0
25°	466.5	295.8	140.3	0.0
22.5°	477.9	299.6	144.1	0.0
20°	489.3	307.2	147.9	0.0
17.5°	496.9	311.0	147.9	0.0
15°	504.5	314.8	155.5	0.0
12.5°	508.2	318.6	155.5	0.0
10°	515.8	326.2	155.5	0.0
7.5°	523.4	326.2	155.5	0.0
5°	523.4	326.2	155.5	0.0
2.5°	523.4	326.2	155.5	0.0
0°	523.4	326.2	155.5	0.0

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