

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: P623951

Luminaire Tested: **IFLD-L-SA7E-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623951
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

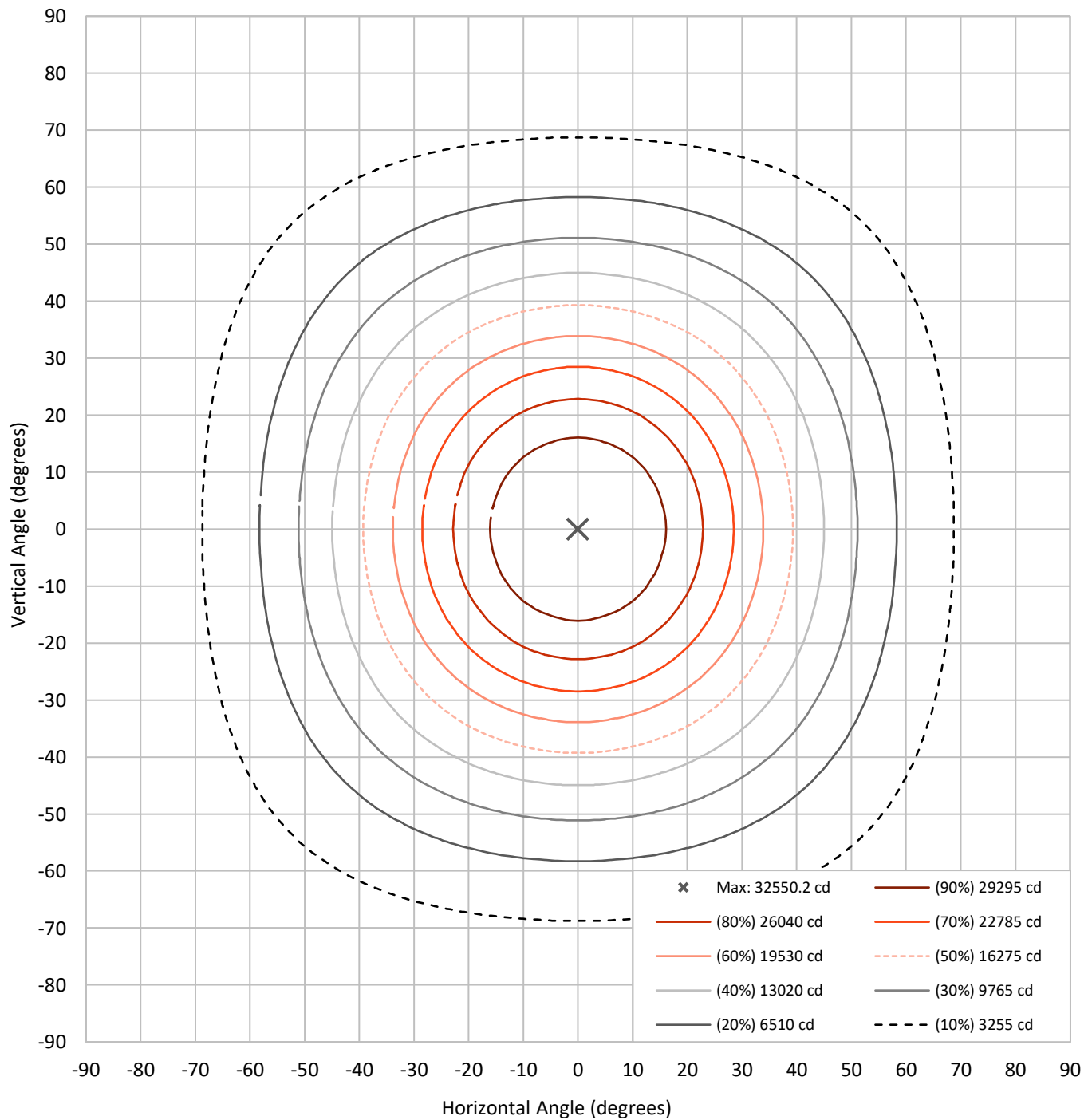
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	58607.3 lumens	Max Intensity:	32550.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	110.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	25358.8 lumens	Field Lumens:	41524.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	532.7		
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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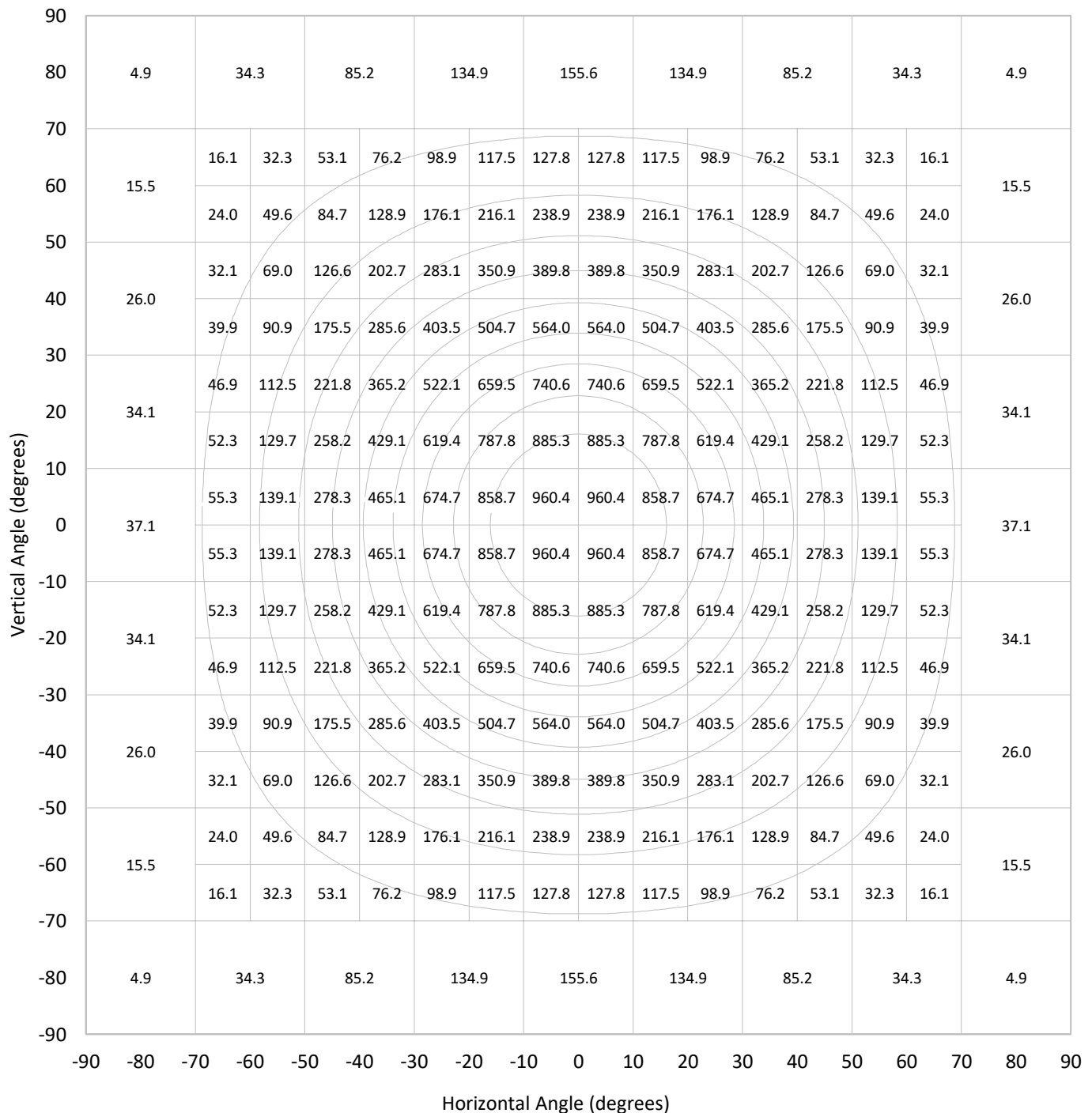
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Iso-Candela Plot



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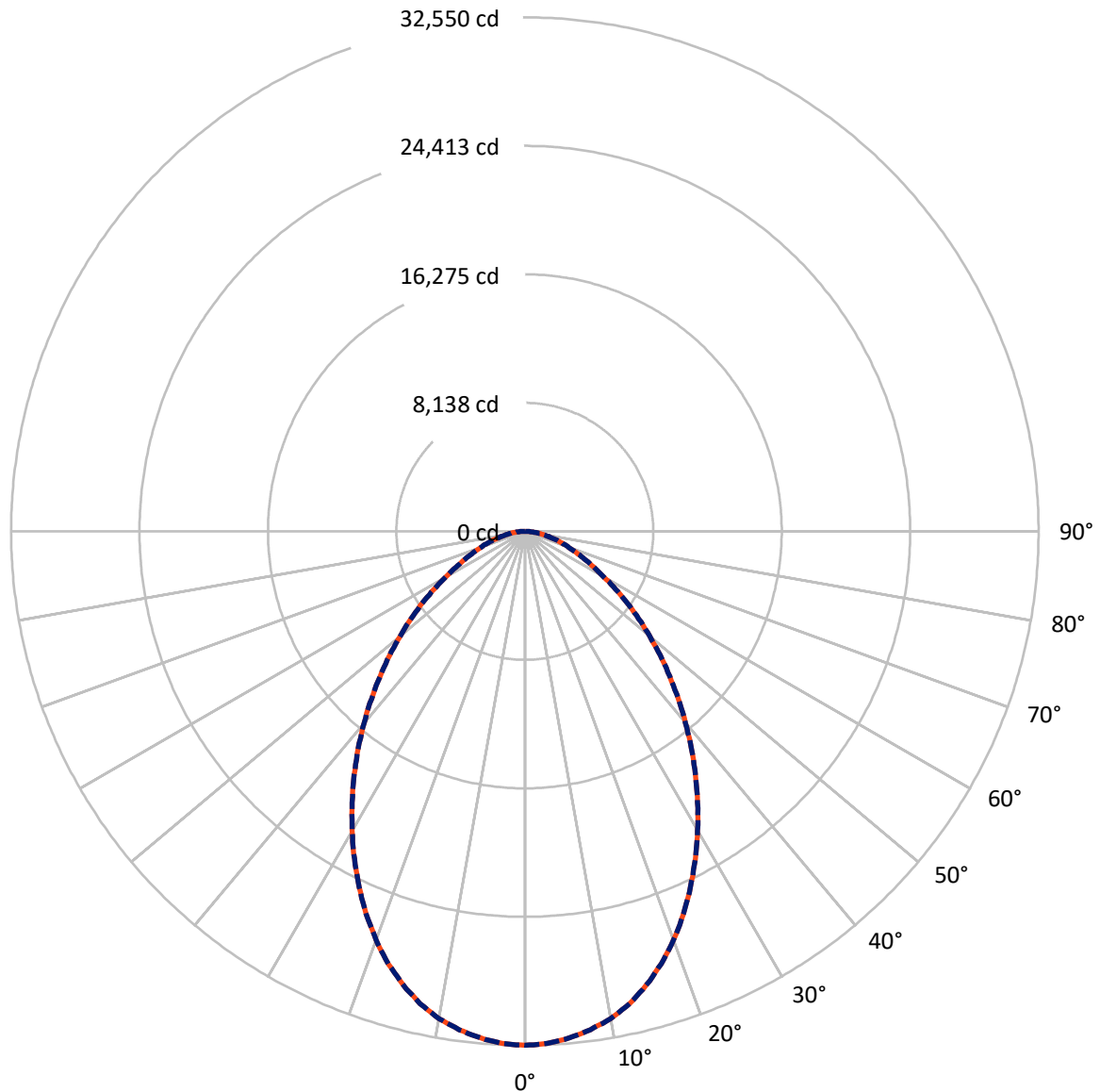
Lumen Table



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Luminous Intensity Polar Plot

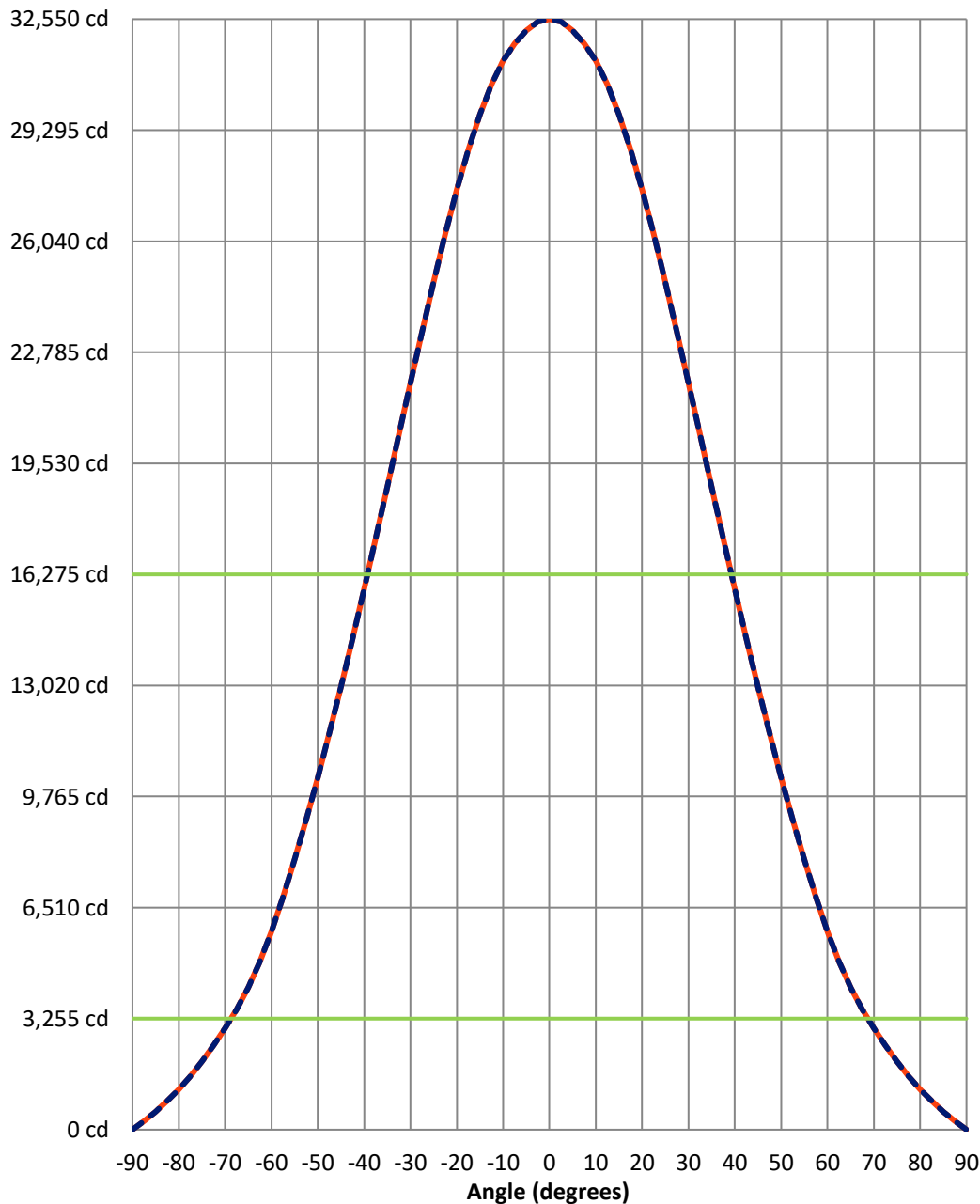


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 25358.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 41524.2
Efficiency: 70.9%

Spill:

Lumens: 17083.1
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°	250.5	250.5	250.5	250.5	250.5	250.5	250.5	238.3	238.3	232.2	226.1
85°	525.5	525.5	525.5	525.5	525.5	513.3	507.2	501.1	494.9	482.7	476.6
82.5°	843.2	843.2	843.2	843.2	831.0	818.8	812.7	800.5	788.2	769.9	751.6
80°	1179.3	1179.3	1179.3	1179.3	1161.0	1148.8	1130.4	1118.2	1099.9	1075.4	1051.0
77.5°	1564.3	1564.3	1564.3	1545.9	1533.7	1515.4	1497.1	1472.6	1448.2	1417.6	1381.0
75°	1998.1	1998.1	1998.1	1973.7	1955.3	1937.0	1906.4	1875.9	1839.2	1796.5	1747.6
72.5°	2468.6	2468.6	2468.6	2438.1	2419.7	2389.2	2352.5	2309.7	2267.0	2212.0	2150.9
70°	2975.8	2975.8	2975.8	2939.1	2908.6	2878.0	2829.1	2780.2	2719.1	2658.0	2584.7
67.5°	3525.7	3525.7	3525.7	3482.9	3446.3	3403.5	3348.5	3287.4	3214.1	3128.5	3043.0
65°	4167.3	4167.3	4142.9	4106.2	4063.4	4002.3	3935.1	3849.6	3757.9	3647.9	3531.8
62.5°	4925.0	4925.0	4888.3	4845.6	4790.6	4711.1	4619.5	4509.5	4381.2	4240.6	4100.1
60°	5804.9	5804.9	5762.1	5707.1	5627.7	5529.9	5407.7	5267.2	5108.3	4931.1	4760.0
57.5°	6819.2	6819.2	6764.2	6690.9	6593.1	6470.9	6318.2	6141.0	5939.3	5719.3	5505.5
55°	7919.1	7919.1	7851.9	7766.3	7650.2	7503.6	7320.3	7112.5	6868.1	6617.6	6342.6
52.5°	9086.2	9086.2	9006.8	8909.0	8774.6	8603.5	8395.7	8151.3	7870.2	7576.9	7253.1
50°	10314.4	10314.4	10222.7	10112.7	9960.0	9758.3	9520.0	9238.9	8927.3	8585.1	8212.4
47.5°	11628.1	11628.1	11524.2	11395.9	11212.6	10980.4	10699.3	10375.5	10021.1	9636.1	9214.5
45°	12978.5	12978.5	12862.4	12715.8	12514.1	12251.4	11939.7	11628.1	11175.9	10729.9	10241.1
42.5°	14383.9	14383.9	14249.5	14084.5	13852.3	13565.1	13210.7	12807.4	12361.4	11860.3	11328.7
40°	15844.3	15844.3	15691.5	15502.1	15245.5	14915.5	14518.3	14066.2	13565.1	13009.1	12422.5
37.5°	17335.2	17335.2	17164.2	16956.4	16669.2	16302.6	15856.5	15355.5	14793.3	14176.2	13528.5
35°	18838.4	18838.4	18649.0	18422.9	18105.2	17701.9	17219.1	16663.1	16039.8	15367.7	14640.6
32.5°	20372.1	20372.1	20164.4	19907.7	19547.2	19101.2	18569.5	17964.6	17335.2	16553.1	15758.8
30°	21887.5	21887.5	21661.4	21380.3	20995.4	20506.6	19926.1	19260.0	18520.7	17720.2	16864.7
27.5°	23378.4	23317.3	23127.9	22828.5	22406.9	21887.5	21258.1	20537.1	19736.6	18856.7	17940.2
25°	24844.9	24777.7	24570.0	24240.0	23787.8	23219.6	22541.3	21771.4	20909.8	19981.1	18978.9
22.5°	26250.3	26177.0	25957.0	25602.6	25119.9	24502.8	23775.6	22950.7	22034.2	21038.2	19981.1
20°	27551.9	27472.4	27246.3	26873.6	26372.5	25718.7	24948.8	24062.8	23085.1	22034.2	20909.8
17.5°	28725.1	28645.6	28407.3	28022.4	27551.9	26824.7	26030.4	25095.5	24062.8	22950.7	21771.4
15°	29757.7	29672.2	29427.8	29042.8	28505.1	27820.7	26983.6	26030.4	24948.8	23775.6	22541.3
12.5°	30637.6	30552.1	30301.5	29916.6	29360.5	28676.2	27820.7	26824.7	25718.7	24502.8	23219.6
10°	31334.2	31248.7	31010.4	30643.7	30069.3	29360.5	28505.1	27551.9	26372.5	25119.9	23787.8
7.5°	31835.3	31755.8	31535.8	31169.2	30643.7	29916.6	29042.8	28022.4	26873.6	25602.6	24240.0
5°	32214.1	32122.4	31902.5	31535.8	31010.4	30301.5	29427.8	28407.3	27246.3	25957.0	24570.0
2.5°	32476.9	32366.9	32122.4	31755.8	31248.7	30552.1	29672.2	28645.6	27472.4	26177.0	24777.7
0°	32550.2	32476.9	32214.1	31835.3	31334.2	30637.6	29757.7	28725.1	27551.9	26250.3	24844.9

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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°	220.0	220.0	213.9	207.8	201.6	189.4	183.3	177.2	171.1	158.9	152.8
85°	464.4	452.2	439.9	427.7	409.4	397.2	378.8	366.6	348.3	330.0	311.6
82.5°	733.2	714.9	690.5	672.1	647.7	617.2	592.7	562.2	531.6	507.2	476.6
80°	1026.5	996.0	965.4	934.9	898.2	861.6	824.9	788.2	745.5	702.7	659.9
77.5°	1344.3	1301.5	1258.7	1209.9	1167.1	1118.2	1069.3	1020.4	965.4	910.5	855.5
75°	1698.7	1643.7	1582.6	1521.5	1466.5	1399.3	1332.1	1264.9	1191.5	1124.3	1051.0
72.5°	2083.7	2016.4	1943.1	1869.8	1790.4	1704.8	1619.3	1527.6	1442.1	1356.5	1264.9
70°	2499.2	2419.7	2328.1	2236.4	2138.6	2034.8	1930.9	1820.9	1710.9	1600.9	1490.9
67.5°	2945.2	2847.5	2737.5	2627.5	2505.3	2383.1	2260.9	2132.5	1998.1	1863.7	1735.4
65°	3421.8	3299.6	3171.3	3030.8	2890.2	2749.7	2603.0	2450.3	2297.5	2138.6	1998.1
62.5°	3953.4	3800.7	3635.7	3464.6	3305.7	3134.6	2975.8	2786.3	2603.0	2425.8	2248.6
60°	4570.6	4368.9	4167.3	3953.4	3751.8	3531.8	3336.3	3128.5	2920.8	2719.1	2511.4
57.5°	5261.1	5004.4	4760.0	4503.4	4234.5	3990.1	3739.6	3489.0	3256.9	3018.5	2792.5
55°	6043.2	5731.6	5426.0	5108.3	4796.7	4491.2	4173.4	3892.3	3605.1	3336.3	3073.5
52.5°	6898.7	6544.3	6165.4	5804.9	5407.7	5028.9	4674.5	4320.1	3984.0	3660.1	3360.7
50°	7815.2	7399.7	6965.9	6525.9	6073.8	5627.7	5200.0	4784.5	4393.4	4014.5	3660.1
47.5°	8768.4	8297.9	7803.0	7301.9	6819.2	6275.4	5762.1	5291.6	4821.1	4393.4	3984.0
45°	9746.1	9214.5	8670.7	8102.4	7534.1	6947.5	6379.3	5804.9	5291.6	4784.5	4320.1
42.5°	10754.3	10155.5	9550.6	8921.2	8291.8	7650.2	7008.6	6379.3	5762.1	5200.0	4674.5
40°	11793.1	11133.2	10442.7	9758.3	9086.2	8352.9	7650.2	6947.5	6275.4	5627.7	5028.9
37.5°	12831.9	12110.8	11365.4	10595.5	9825.5	9086.2	8291.8	7534.1	6819.2	6073.8	5407.7
35°	13876.8	13082.4	12275.8	11438.7	10595.5	9758.3	8921.2	8102.4	7301.9	6525.9	5804.9
32.5°	14927.7	14060.1	13167.9	12275.8	11365.4	10442.7	9550.6	8670.7	7803.0	6965.9	6165.4
30°	15960.4	15019.4	14060.1	13082.4	12110.8	11133.2	10155.5	9214.5	8297.9	7399.7	6544.3
27.5°	16968.6	15960.4	14927.7	13876.8	12831.9	11793.1	10754.3	9746.1	8768.4	7815.2	6898.7
25°	17940.2	16864.7	15758.8	14640.6	13528.5	12422.5	11328.7	10241.1	9214.5	8212.4	7253.1
22.5°	18856.7	17720.2	16553.1	15367.7	14176.2	13009.1	11860.3	10729.9	9636.1	8585.1	7576.9
20°	19736.6	18520.7	17335.2	16039.8	14793.3	13565.1	12361.4	11175.9	10021.1	8927.3	7870.2
17.5°	20537.1	19260.0	17964.6	16663.1	15355.5	14066.2	12807.4	11628.1	10375.5	9238.9	8151.3
15°	21258.1	19926.1	18569.5	17219.1	15856.5	14518.3	13210.7	11939.7	10699.3	9520.0	8395.7
12.5°	21887.5	20506.6	19101.2	17701.9	16302.6	14915.5	13565.1	12251.4	10980.4	9758.3	8603.5
10°	22406.9	20995.4	19547.2	18105.2	16669.2	15245.5	13852.3	12514.1	11212.6	9960.0	8774.6
7.5°	22828.5	21380.3	19907.7	18422.9	16956.4	15502.1	14084.5	12715.8	11395.9	10112.7	8909.0
5°	23127.9	21661.4	20164.4	18649.0	17164.2	15691.5	14249.5	12862.4	11524.2	10222.7	9006.8
2.5°	23317.3	21887.5	20372.1	18838.4	17335.2	15844.3	14383.9	12978.5	11628.1	10314.4	9086.2
0°	23378.4	21887.5	20372.1	18838.4	17335.2	15844.3	14383.9	12978.5	11628.1	10314.4	9086.2

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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°	146.6	134.4	122.2	116.1	103.9	97.8	85.5	73.3	67.2	55.0	42.8
85°	293.3	268.9	250.5	232.2	213.9	189.4	171.1	152.8	128.3	110.0	85.5
82.5°	446.1	415.5	385.0	354.4	323.9	293.3	256.6	226.1	195.5	165.0	128.3
80°	617.2	568.3	525.5	482.7	439.9	397.2	348.3	305.5	256.6	213.9	171.1
77.5°	794.4	739.4	678.3	617.2	556.0	501.1	439.9	385.0	330.0	268.9	213.9
75°	983.8	910.5	843.2	763.8	690.5	611.0	537.7	464.4	397.2	330.0	256.6
72.5°	1179.3	1087.7	996.0	910.5	818.8	727.1	641.6	549.9	464.4	385.0	305.5
70°	1381.0	1271.0	1161.0	1057.1	953.2	843.2	745.5	641.6	537.7	439.9	348.3
67.5°	1594.8	1466.5	1338.2	1203.8	1087.7	965.4	843.2	727.1	611.0	501.1	397.2
65°	1827.0	1674.3	1515.4	1374.8	1222.1	1087.7	953.2	818.8	690.5	556.0	439.9
62.5°	2065.3	1888.1	1710.9	1533.7	1374.8	1203.8	1057.1	910.5	763.8	617.2	482.7
60°	2309.7	2108.1	1906.4	1710.9	1515.4	1338.2	1161.0	996.0	843.2	678.3	525.5
57.5°	2560.3	2334.2	2108.1	1888.1	1674.3	1466.5	1271.0	1087.7	910.5	739.4	568.3
55°	2816.9	2560.3	2309.7	2065.3	1827.0	1594.8	1381.0	1179.3	983.8	794.4	617.2
52.5°	3073.5	2792.5	2511.4	2248.6	1998.1	1735.4	1490.9	1264.9	1051.0	855.5	659.9
50°	3336.3	3018.5	2719.1	2425.8	2138.6	1863.7	1600.9	1356.5	1124.3	910.5	702.7
47.5°	3605.1	3256.9	2920.8	2603.0	2297.5	1998.1	1710.9	1442.1	1191.5	965.4	745.5
45°	3892.3	3489.0	3128.5	2786.3	2450.3	2132.5	1820.9	1527.6	1264.9	1020.4	788.2
42.5°	4173.4	3739.6	3336.3	2975.8	2603.0	2260.9	1930.9	1619.3	1332.1	1069.3	824.9
40°	4491.2	3990.1	3531.8	3134.6	2749.7	2383.1	2034.8	1704.8	1399.3	1118.2	861.6
37.5°	4796.7	4234.5	3751.8	3305.7	2890.2	2505.3	2138.6	1790.4	1466.5	1167.1	898.2
35°	5108.3	4503.4	3953.4	3464.6	3030.8	2627.5	2236.4	1869.8	1521.5	1209.9	934.9
32.5°	5426.0	4760.0	4167.3	3635.7	3171.3	2737.5	2328.1	1943.1	1582.6	1258.7	965.4
30°	5731.6	5004.4	4368.9	3800.7	3299.6	2847.5	2419.7	2016.4	1643.7	1301.5	996.0
27.5°	6043.2	5261.1	4570.6	3953.4	3421.8	2945.2	2499.2	2083.7	1698.7	1344.3	1026.5
25°	6342.6	5505.5	4760.0	4100.1	3531.8	3043.0	2584.7	2150.9	1747.6	1381.0	1051.0
22.5°	6617.6	5719.3	4931.1	4240.6	3647.9	3128.5	2658.0	2212.0	1796.5	1417.6	1075.4
20°	6868.1	5939.3	5108.3	4381.2	3757.9	3214.1	2719.1	2267.0	1839.2	1448.2	1099.9
17.5°	7112.5	6141.0	5267.2	4509.5	3849.6	3287.4	2780.2	2309.7	1875.9	1472.6	1118.2
15°	7320.3	6318.2	5407.7	4619.5	3935.1	3348.5	2829.1	2352.5	1906.4	1497.1	1130.4
12.5°	7503.6	6470.9	5529.9	4711.1	4002.3	3403.5	2878.0	2389.2	1937.0	1515.4	1148.8
10°	7650.2	6593.1	5627.7	4790.6	4063.4	3446.3	2908.6	2419.7	1955.3	1533.7	1161.0
7.5°	7766.3	6690.9	5707.1	4845.6	4106.2	3482.9	2939.1	2438.1	1973.7	1545.9	1179.3
5°	7851.9	6764.2	5762.1	4888.3	4142.9	3525.7	2975.8	2468.6	1998.1	1564.3	1179.3
2.5°	7919.1	6819.2	5804.9	4925.0	4167.3	3525.7	2975.8	2468.6	1998.1	1564.3	1179.3
0°	7919.1	6819.2	5804.9	4925.0	4167.3	3525.7	2975.8	2468.6	1998.1	1564.3	1179.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	30.6	24.4	12.2	0.0
85°	67.2	42.8	24.4	0.0
82.5°	97.8	67.2	30.6	0.0
80°	128.3	85.5	42.8	0.0
77.5°	165.0	110.0	55.0	0.0
75°	195.5	128.3	67.2	0.0
72.5°	226.1	152.8	73.3	0.0
70°	256.6	171.1	85.5	0.0
67.5°	293.3	189.4	97.8	0.0
65°	323.9	213.9	103.9	0.0
62.5°	354.4	232.2	116.1	0.0
60°	385.0	250.5	122.2	0.0
57.5°	415.5	268.9	134.4	0.0
55°	446.1	293.3	146.6	0.0
52.5°	476.6	311.6	152.8	0.0
50°	507.2	330.0	158.9	0.0
47.5°	531.6	348.3	171.1	0.0
45°	562.2	366.6	177.2	0.0
42.5°	592.7	378.8	183.3	0.0
40°	617.2	397.2	189.4	0.0
37.5°	647.7	409.4	201.6	0.0
35°	672.1	427.7	207.8	0.0
32.5°	690.5	439.9	213.9	0.0
30°	714.9	452.2	220.0	0.0
27.5°	733.2	464.4	220.0	0.0
25°	751.6	476.6	226.1	0.0
22.5°	769.9	482.7	232.2	0.0
20°	788.2	494.9	238.3	0.0
17.5°	800.5	501.1	238.3	0.0
15°	812.7	507.2	250.5	0.0
12.5°	818.8	513.3	250.5	0.0
10°	831.0	525.5	250.5	0.0
7.5°	843.2	525.5	250.5	0.0
5°	843.2	525.5	250.5	0.0
2.5°	843.2	525.5	250.5	0.0
0°	843.2	525.5	250.5	0.0

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