

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333361-930

Luminaire Tested: **S125DIW-S375D1340U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333361-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S375D1340U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4985.5 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

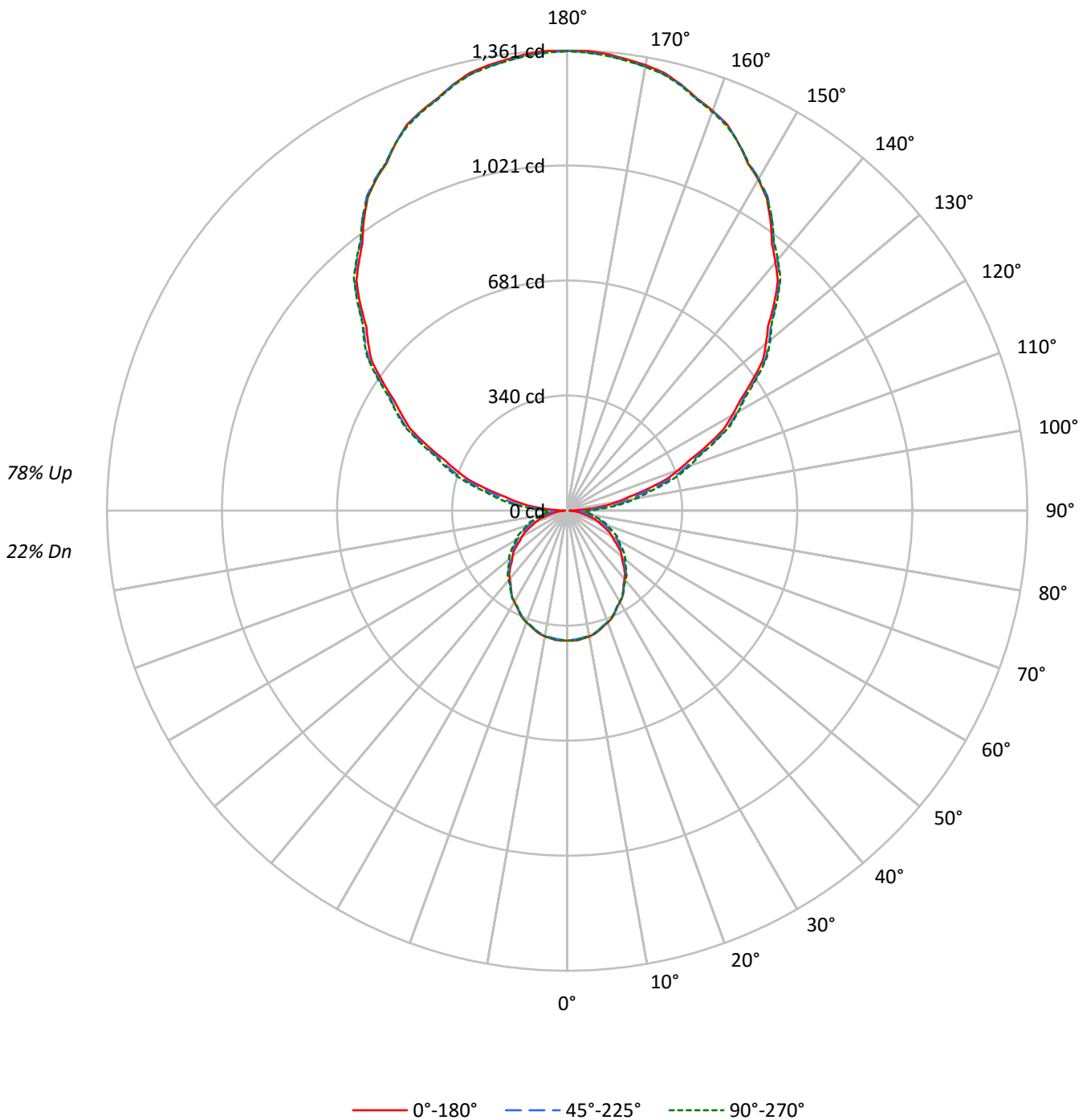
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	22
1	91	87	83	80	81	77	74	71	59	57	55	42	41	40	27	26	25	18
2	83	76	70	65	73	67	62	58	51	48	45	37	35	33	23	22	21	15
3	75	66	59	54	67	59	53	48	45	41	38	32	30	28	20	19	18	13
4	69	58	51	45	61	52	46	41	40	35	32	29	26	23	18	17	15	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	16	15	13	9
6	58	46	39	33	51	41	35	30	32	27	24	23	20	17	15	13	11	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	13	12	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	41	31	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.7
10°-20°	103.2	2.1
20°-30°	153.4	3.1
30°-40°	181.7	3.6
40°-50°	187.9	3.8
50°-60°	173.1	3.5
60°-70°	139.9	2.8
70°-80°	93.7	1.9
80°-90°	51.6	1.0
90°-100°	118.3	2.4
100°-110°	288.9	5.8
110°-120°	468.7	9.4
120°-130°	606.8	12.2
130°-140°	674.7	13.5
140°-150°	658.7	13.2
150°-160°	552.7	11.1
160°-170°	367.4	7.4
170°-180°	128.6	2.6
0°-30°	292.9	5.9
0°-40°	474.7	9.5
0°-60°	835.7	16.8
0°-90°	1120.9	22.5
90°-120°	875.9	17.6
90°-150°	2816.1	56.5
90°-180°	3865.0	77.5
0°-180°	4985.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	7	28	48	61	68	8
95°	74	86	109	124	129	77
105°	244	256	274	287	293	261
115°	458	465	477	482	484	453
125°	667	673	681	685	686	597
135°	866	872	876	880	878	667
145°	1048	1052	1056	1057	1056	655
155°	1199	1199	1200	1204	1199	552
165°	1304	1302	1303	1307	1301	368
175°	1356	1352	1352	1357	1350	129
180°	1359	1359	1359	1359	1359	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	12.0	15.0	18.1	21.1	24.2	27.3	30.5	33.7	36.9	40.0	42.2
90°	7.1	11.7	16.2	20.8	25.4	29.8	34.3	38.8	43.3	47.9	51.0
92.5°	31.0	34.8	38.6	42.4	46.2	50.5	55.5	60.4	65.4	70.3	73.7
95°	73.6	76.3	78.9	81.6	84.2	88.1	93.4	98.6	103.7	108.9	112.4
97.5°	118.6	120.8	122.9	125.1	127.3	131.3	137.3	143.3	149.3	155.3	158.6
100°	152.2	153.9	155.7	157.5	159.2	163.0	168.7	174.5	180.2	185.9	189.8
102.5°	188.3	190.9	193.4	196.0	198.5	201.9	206.1	210.3	214.4	218.6	222.6
105°	244.5	247.0	249.6	252.1	254.6	257.8	261.7	265.6	269.5	273.5	276.5
107.5°	306.7	309.0	311.3	313.6	315.9	318.9	322.3	325.8	329.3	332.8	335.2
110°	349.5	351.7	353.9	356.0	358.2	360.9	363.9	367.0	370.0	373.1	375.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	393.5	394.9	396.3	397.8	399.2	401.5	404.6	407.8	411.0	414.2	416.0
115°	458.1	459.6	461.1	462.7	464.1	466.3	468.9	471.6	474.2	476.9	478.1
117.5°	522.9	523.7	524.5	525.3	526.1	527.7	530.2	532.7	535.2	537.7	539.2
120°	563.5	564.9	566.3	567.8	569.2	571.0	573.2	575.3	577.5	579.6	581.0
122.5°	607.2	607.7	608.2	608.8	609.3	610.8	613.3	615.8	618.2	620.7	621.8
125°	666.8	668.1	669.4	670.7	672.1	673.7	675.6	677.4	679.4	681.3	682.2
127.5°	729.8	730.5	731.2	732.0	732.6	733.9	735.5	737.2	738.8	740.5	741.4
130°	767.8	769.0	770.1	771.1	772.3	773.6	775.3	776.9	778.5	780.2	781.1
132.5°	805.7	807.6	809.4	811.4	813.3	814.6	815.5	816.3	817.1	817.9	818.8
135°	865.8	867.2	868.5	869.8	871.1	872.2	873.0	873.8	874.7	875.5	876.6
137.5°	922.4	923.7	925.0	926.3	927.6	928.7	929.5	930.3	931.1	931.9	933.2
140°	958.5	959.7	960.9	962.1	963.3	964.3	965.0	965.8	966.6	967.4	968.7
142.5°	994.9	995.8	996.8	997.7	998.6	999.6	1000.5	1001.4	1002.2	1003.1	1004.2
145°	1048.5	1049.3	1050.2	1051.0	1051.9	1052.6	1053.4	1054.0	1054.8	1055.5	1055.9
147.5°	1097.6	1098.0	1098.6	1099.1	1099.6	1100.2	1100.7	1101.3	1101.9	1102.4	1103.1
150°	1130.6	1130.3	1130.1	1129.8	1129.6	1129.9	1130.9	1131.9	1132.8	1133.8	1133.8
152.5°	1157.6	1158.0	1158.3	1158.6	1158.9	1159.3	1159.7	1160.0	1160.4	1160.8	1161.4
155°	1199.3	1199.3	1199.3	1199.3	1199.3	1199.4	1199.6	1199.9	1200.1	1200.4	1201.3
157.5°	1236.5	1236.0	1235.5	1234.9	1234.4	1234.3	1234.5	1234.8	1235.0	1235.3	1236.2
160°	1258.5	1257.8	1257.1	1256.4	1255.7	1255.5	1255.7	1256.0	1256.1	1256.4	1257.4
162.5°	1278.0	1277.5	1276.9	1276.4	1275.9	1275.7	1275.7	1275.8	1275.8	1275.9	1277.0
165°	1304.0	1303.5	1303.0	1302.6	1302.1	1302.0	1302.2	1302.4	1302.7	1302.9	1303.9
167.5°	1326.0	1325.0	1324.1	1323.1	1322.3	1321.8	1321.8	1321.8	1321.8	1321.8	1323.1
170°	1337.8	1336.9	1335.9	1335.1	1334.1	1333.6	1333.6	1333.6	1333.6	1333.6	1335.1
172.5°	1346.3	1345.3	1344.4	1343.5	1342.6	1342.1	1342.1	1342.1	1342.1	1342.1	1343.5
175°	1355.8	1354.9	1354.0	1353.0	1352.1	1351.6	1351.6	1351.6	1351.6	1351.6	1353.0
177.5°	1360.7	1359.9	1359.2	1358.5	1357.6	1357.2	1357.0	1356.8	1356.7	1356.4	1357.6
180°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	44.4	46.5	48.7	50.1	50.8	51.5	52.3	53.0
90°	54.1	57.2	60.3	62.5	63.7	65.0	66.3	67.6
92.5°	77.1	80.6	84.0	86.2	87.3	88.4	89.5	90.6
95°	115.9	119.4	122.9	125.1	126.2	127.3	128.3	129.4
97.5°	161.9	165.2	168.5	170.6	171.5	172.3	173.2	174.0
100°	193.6	197.5	201.4	203.8	204.8	205.8	206.8	207.7
102.5°	226.6	230.6	234.6	237.1	238.3	239.5	240.6	241.7
105°	279.6	282.7	285.8	288.0	289.3	290.6	291.9	293.2
107.5°	337.5	339.9	342.3	343.6	344.1	344.6	345.1	345.5
110°	377.6	379.9	382.2	383.6	383.9	384.3	384.6	385.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	417.8	419.7	421.6	422.6	422.7	422.9	423.1	423.2
115°	479.4	480.7	481.9	482.7	483.0	483.2	483.6	483.8
117.5°	540.9	542.5	544.1	544.7	544.4	544.0	543.6	543.2
120°	582.4	583.8	585.3	585.8	585.4	584.9	584.5	584.0
122.5°	623.1	624.2	625.3	625.8	625.6	625.3	625.1	624.8
125°	683.1	683.9	684.8	685.3	685.5	685.7	685.8	686.0
127.5°	742.5	743.5	744.4	745.0	745.0	745.0	745.0	745.0
130°	782.0	783.0	783.9	784.4	784.3	784.2	784.2	784.2
132.5°	819.8	820.7	821.7	822.0	821.7	821.3	821.0	820.8
135°	877.7	878.8	879.9	880.1	879.6	879.1	878.6	878.1
137.5°	934.4	935.7	936.9	937.2	936.4	935.6	934.7	933.8
140°	970.1	971.6	973.0	973.2	972.4	971.5	970.7	969.9
142.5°	1005.3	1006.3	1007.5	1007.5	1006.7	1005.8	1005.0	1004.2
145°	1056.3	1056.7	1057.1	1057.2	1056.8	1056.4	1056.1	1055.6
147.5°	1103.8	1104.5	1105.2	1104.8	1103.4	1102.0	1100.5	1099.0
150°	1133.8	1133.8	1133.8	1133.5	1133.1	1132.8	1132.4	1132.0
152.5°	1161.9	1162.5	1163.0	1162.9	1162.1	1161.2	1160.4	1159.6
155°	1202.2	1203.1	1204.1	1204.0	1202.8	1201.7	1200.4	1199.3
157.5°	1237.1	1238.0	1239.0	1238.7	1237.1	1235.6	1234.0	1232.5
160°	1258.3	1259.2	1260.1	1260.0	1258.9	1257.7	1256.5	1255.3
162.5°	1278.1	1279.2	1280.3	1280.3	1278.9	1277.5	1276.2	1274.8
165°	1304.8	1305.8	1306.7	1306.4	1305.0	1303.7	1302.2	1300.8
167.5°	1324.6	1326.0	1327.4	1327.4	1325.9	1324.5	1323.0	1321.5
170°	1336.4	1337.8	1339.2	1339.1	1337.5	1335.9	1334.2	1332.5
172.5°	1344.9	1346.3	1347.7	1347.7	1346.2	1344.8	1343.3	1341.8
175°	1354.4	1355.8	1357.2	1357.1	1355.4	1353.8	1352.2	1350.5
177.5°	1358.7	1359.8	1361.0	1360.9	1359.5	1358.2	1356.9	1355.6
180°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0

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