

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: P333355-930

Luminaire Tested: **S125DIW-S375D1050U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333355-930
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-S375D1050U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.9 lumens
Efficiency: N/A
Efficacy: 109.3 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

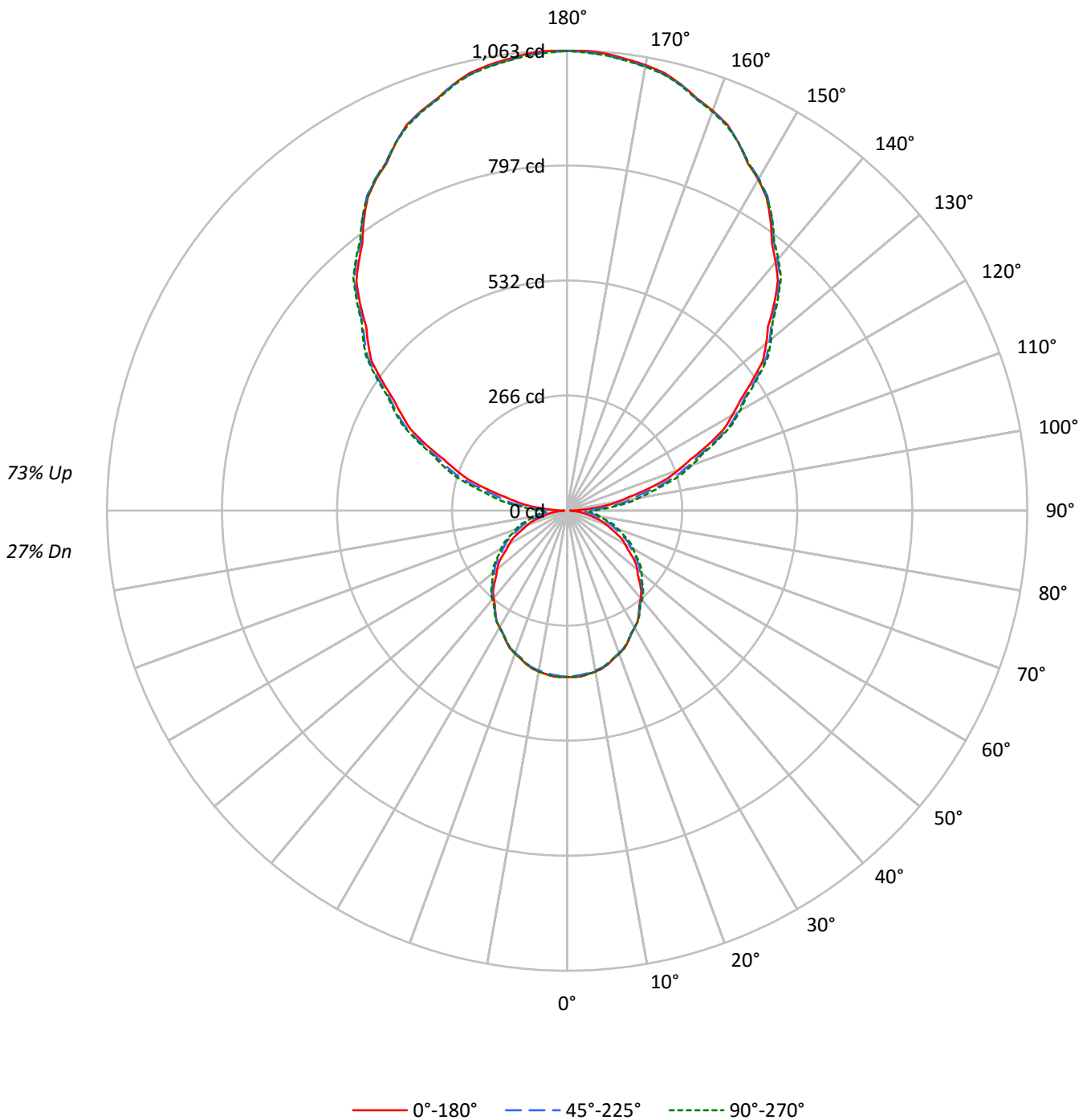
Input Watts (W): 38
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	29	29	22
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	35	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	31	27	25	21	19	17	13
5	64	52	45	39	57	47	40	35	37	32	28	27	24	21	18	16	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	9
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10	8
9	46	35	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	28	22	18	23	18	15	17	14	12	12	10	8	6

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	0.9
10°-20°	103.2	2.5
20°-30°	153.4	3.7
30°-40°	181.7	4.4
40°-50°	187.9	4.5
50°-60°	173.1	4.2
60°-70°	139.9	3.4
70°-80°	93.7	2.3
80°-90°	50.9	1.2
90°-100°	98.4	2.4
100°-110°	230.1	5.5
110°-120°	369.1	8.9
120°-130°	475.7	11.4
130°-140°	527.8	12.7
140°-150°	514.7	12.4
150°-160°	431.7	10.4
160°-170°	287.0	6.9
170°-180°	100.4	2.4
0°-30°	292.9	7.1
0°-40°	474.7	11.4
0°-60°	835.7	20.1
0°-90°	1120.2	27.0
90°-120°	697.5	16.8
90°-150°	2215.6	53.3
90°-180°	3035.0	73.0
0°-180°	4154.9	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	26	44	56	62	7
95°	59	71	91	105	110	61
105°	192	202	218	230	236	205
115°	358	365	376	381	383	354
125°	521	526	534	538	540	466
135°	676	681	684	689	688	521
145°	819	822	824	826	825	512
155°	937	937	938	940	937	431
165°	1019	1017	1018	1021	1016	287
175°	1059	1056	1056	1060	1055	101
180°	1062	1062	1062	1062	1062	



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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°	11.9	14.9	17.9	20.9	23.8	26.8	29.9	33.1	36.2	39.3	41.4
90°	6.8	11.0	15.2	19.3	23.5	27.6	31.7	35.9	39.9	44.1	47.0
92.5°	25.4	28.9	32.4	36.0	39.5	43.5	47.9	52.4	56.9	61.4	64.5
95°	58.6	61.1	63.7	66.2	68.8	72.4	77.0	81.8	86.4	91.2	94.2
97.5°	93.7	95.8	97.9	100.0	102.1	105.7	111.0	116.3	121.6	126.9	129.9
100°	119.8	121.6	123.4	125.1	126.9	130.3	135.3	140.4	145.4	150.5	153.9
102.5°	147.9	150.3	152.6	155.0	157.4	160.5	164.3	168.1	171.9	175.8	179.2
105°	191.8	194.0	196.2	198.5	200.8	203.7	207.3	210.9	214.6	218.2	220.9
107.5°	240.2	242.2	244.3	246.4	248.4	251.1	254.4	257.6	260.8	264.1	266.3
110°	273.6	275.5	277.4	279.4	281.3	283.7	286.6	289.5	292.4	295.3	297.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	307.9	309.2	310.5	311.9	313.1	315.2	318.2	321.1	324.2	327.1	328.9
115°	358.3	359.6	360.9	362.2	363.6	365.5	368.1	370.6	373.2	375.7	377.0
117.5°	408.8	409.5	410.3	411.0	411.7	413.3	415.6	418.0	420.4	422.8	424.4
120°	440.6	441.7	442.9	444.1	445.2	446.9	449.0	451.1	453.2	455.3	456.7
122.5°	474.6	475.1	475.5	476.0	476.4	477.8	480.1	482.5	484.8	487.1	488.4
125°	521.1	522.1	523.2	524.2	525.2	526.6	528.5	530.4	532.2	534.1	535.1
127.5°	570.3	570.9	571.4	571.9	572.5	573.6	575.1	576.7	578.3	579.9	581.0
130°	600.1	600.9	601.7	602.6	603.4	604.5	606.1	607.6	609.2	610.7	611.7
132.5°	629.5	631.0	632.5	634.0	635.4	636.6	637.5	638.3	639.1	639.9	640.9
135°	676.5	677.5	678.6	679.6	680.6	681.5	682.2	683.0	683.8	684.5	685.7
137.5°	720.7	721.7	722.7	723.7	724.7	725.5	726.3	726.9	727.7	728.3	729.5
140°	748.9	749.7	750.6	751.6	752.5	753.3	753.9	754.6	755.2	755.8	757.1
142.5°	777.2	778.0	778.7	779.3	780.1	780.8	781.5	782.2	782.9	783.7	784.6
145°	819.0	819.7	820.4	821.0	821.7	822.2	822.8	823.4	823.9	824.4	824.8
147.5°	857.4	857.8	858.2	858.5	858.9	859.4	859.8	860.2	860.7	861.1	861.7
150°	883.1	883.0	882.7	882.6	882.4	882.6	883.4	884.1	884.8	885.6	885.6
152.5°	904.2	904.5	904.7	905.1	905.3	905.6	905.9	906.1	906.4	906.8	907.2
155°	936.8	936.8	936.8	936.8	936.8	936.9	937.1	937.3	937.4	937.7	938.4
157.5°	965.9	965.5	965.1	964.7	964.3	964.2	964.3	964.5	964.7	964.9	965.6
160°	983.1	982.5	981.9	981.5	980.9	980.7	980.9	981.0	981.2	981.5	982.2
162.5°	998.3	997.8	997.4	997.0	996.6	996.5	996.5	996.5	996.6	996.6	997.5
165°	1018.6	1018.2	1017.8	1017.5	1017.1	1017.0	1017.2	1017.4	1017.6	1017.7	1018.5
167.5°	1035.8	1035.0	1034.3	1033.6	1032.8	1032.5	1032.5	1032.5	1032.5	1032.5	1033.6
170°	1045.1	1044.3	1043.6	1042.8	1042.1	1041.7	1041.7	1041.7	1041.7	1041.7	1042.8
172.5°	1051.7	1050.9	1050.2	1049.5	1048.7	1048.3	1048.3	1048.3	1048.3	1048.3	1049.5
175°	1059.1	1058.3	1057.6	1056.9	1056.1	1055.7	1055.7	1055.7	1055.7	1055.7	1056.9
177.5°	1062.9	1062.3	1061.7	1061.1	1060.5	1060.1	1060.0	1059.9	1059.7	1059.6	1060.5
180°	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5



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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°	43.5	45.6	47.7	49.1	49.8	50.5	51.2	51.9
90°	49.8	52.7	55.5	57.5	58.6	59.8	60.9	62.0
92.5°	67.6	70.6	73.7	75.7	76.7	77.7	78.7	79.7
95°	97.3	100.5	103.6	105.7	106.6	107.5	108.5	109.5
97.5°	132.8	135.8	138.8	140.6	141.5	142.3	143.0	143.8
100°	157.4	160.8	164.1	166.3	167.1	168.0	168.9	169.7
102.5°	182.7	186.2	189.7	191.9	193.0	194.0	195.0	196.0
105°	223.7	226.5	229.3	231.2	232.4	233.5	234.6	235.8
107.5°	268.6	270.8	273.0	274.3	274.8	275.2	275.7	276.2
110°	299.5	301.7	303.9	305.1	305.5	305.9	306.3	306.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	330.7	332.5	334.3	335.3	335.5	335.7	336.1	336.3
115°	378.4	379.7	381.0	381.8	382.1	382.5	382.8	383.1
117.5°	425.9	427.5	429.1	429.8	429.6	429.4	429.3	429.1
120°	458.1	459.6	461.0	461.6	461.4	461.1	460.9	460.6
122.5°	489.6	490.8	492.0	492.5	492.4	492.4	492.3	492.2
125°	536.0	537.0	537.9	538.6	538.8	539.1	539.2	539.5
127.5°	582.0	583.1	584.2	584.7	584.8	585.0	585.1	585.2
130°	612.7	613.7	614.7	615.2	615.3	615.3	615.4	615.4
132.5°	641.9	642.9	643.9	644.3	644.2	644.0	643.8	643.7
135°	686.7	687.8	688.9	689.3	689.0	688.7	688.4	688.0
137.5°	730.8	731.9	733.1	733.4	732.9	732.3	731.7	731.1
140°	758.4	759.7	761.0	761.3	760.8	760.2	759.6	759.0
142.5°	785.6	786.7	787.7	787.9	787.3	786.7	786.1	785.5
145°	825.3	825.7	826.1	826.2	826.0	825.8	825.6	825.4
147.5°	862.3	862.8	863.4	863.2	862.1	861.0	859.9	858.8
150°	885.6	885.6	885.6	885.4	885.2	884.8	884.6	884.4
152.5°	907.6	908.1	908.5	908.4	907.8	907.1	906.4	905.8
155°	939.1	939.9	940.6	940.4	939.6	938.7	937.8	936.8
157.5°	966.4	967.1	967.8	967.6	966.4	965.2	963.9	962.8
160°	982.9	983.7	984.4	984.2	983.3	982.4	981.5	980.6
162.5°	998.4	999.2	1000.1	1000.0	999.0	997.9	996.9	995.8
165°	1019.2	1019.9	1020.7	1020.5	1019.5	1018.3	1017.2	1016.1
167.5°	1034.7	1035.8	1036.9	1036.9	1035.8	1034.6	1033.5	1032.3
170°	1043.9	1045.1	1046.1	1046.0	1044.7	1043.5	1042.2	1040.9
172.5°	1050.5	1051.7	1052.7	1052.7	1051.6	1050.4	1049.3	1048.1
175°	1057.9	1059.1	1060.2	1060.1	1058.8	1057.5	1056.2	1054.9
177.5°	1061.4	1062.3	1063.1	1063.0	1062.0	1060.9	1060.0	1058.9
180°	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5

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