

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: P333191-935

Luminaire Tested: **S125DIP-S610D1035U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333191-935
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: S125DIP-S610D1035U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5151.3 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

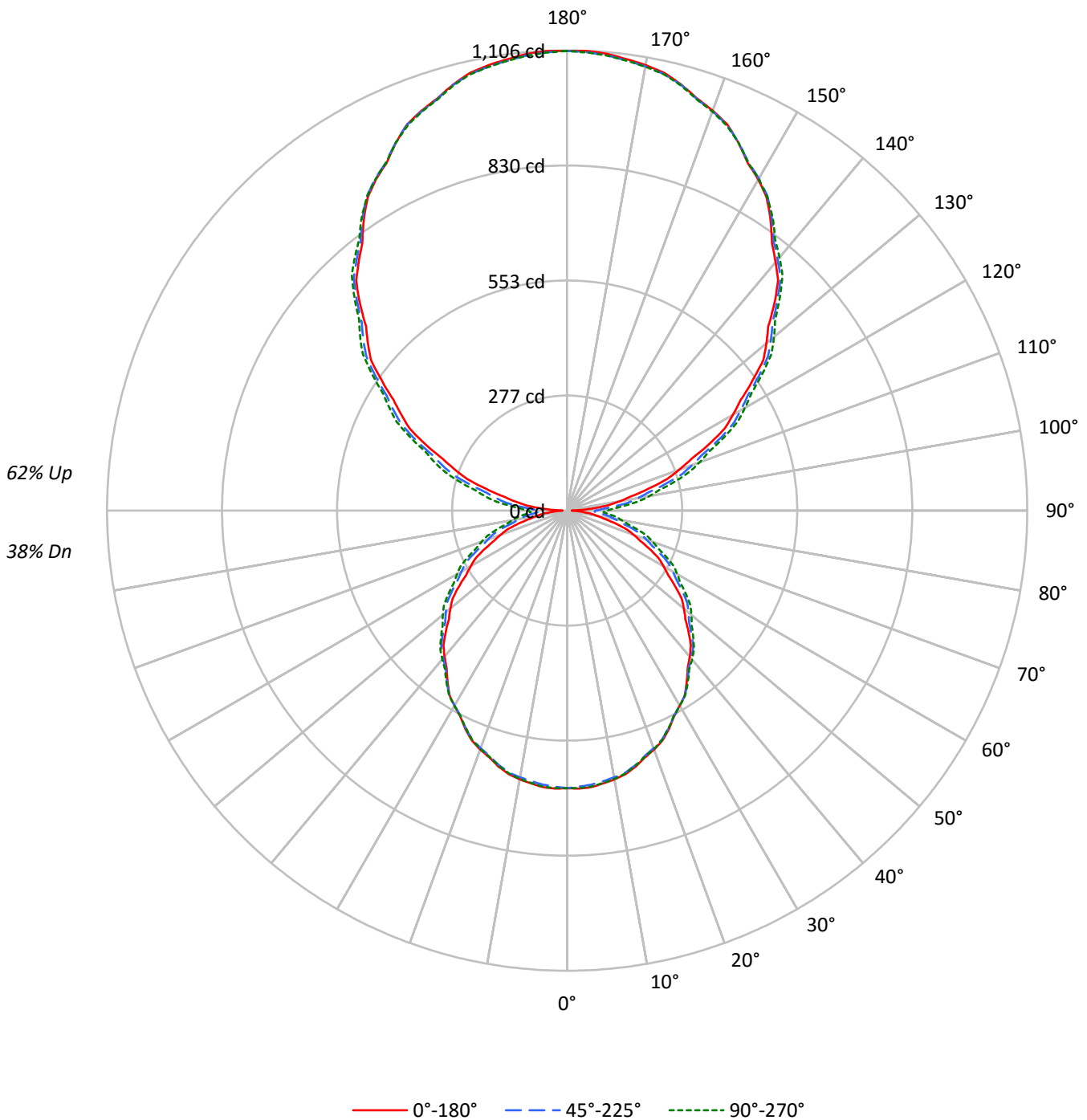
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	94	90	86	82	85	82	78	75	66	64	62	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	50	45	43	40	34	32	30
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	28	26
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	21	19	17
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4310	4310	4310
5°	4318	4229	4243
10°	4288	4154	4148
15°	4236	4064	4027
20°	4168	3952	3906
25°	4086	3833	3757
30°	3987	3701	3622
35°	3894	3580	3497
40°	3800	3452	3372
45°	3693	3344	3261
50°	3592	3225	3163
55°	3469	3114	3048
60°	3336	2986	2931
65°	3196	2854	2799
70°	3036	2672	2663
75°	2788	2496	2496
80°	2461	2284	2314
85°	2155	2142	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.2
10°-20°	179.1	3.5
20°-30°	266.4	5.2
30°-40°	315.5	6.1
40°-50°	326.2	6.3
50°-60°	300.5	5.8
60°-70°	242.9	4.7
70°-80°	162.7	3.2
80°-90°	86.8	1.7
90°-100°	121.3	2.4
100°-110°	253.4	4.9
110°-120°	393.4	7.6
120°-130°	500.3	9.7
130°-140°	551.5	10.7
140°-150°	536.0	10.4
150°-160°	449.2	8.7
160°-170°	298.6	5.8
170°-180°	104.5	2.0
0°-30°	508.6	9.9
0°-40°	824.1	16.0
0°-60°	1450.8	28.2
0°-90°	1943.2	37.7
90°-120°	768.1	14.9
90°-150°	2355.8	45.7
90°-180°	3208.0	62.3
0°-180°	5151.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	667	666	661	666	666	63
15°	637	638	633	637	635	179
25°	579	581	577	579	576	266
35°	501	505	504	506	506	313
45°	413	420	423	428	428	318
55°	317	328	338	345	348	284
65°	218	234	249	259	262	217
75°	120	138	158	171	175	128
85°	36	58	80	94	100	38
90°	11	39	67	86	94	10
95°	64	84	114	134	141	66
105°	202	217	241	259	267	216
115°	374	383	401	412	415	370
125°	543	548	562	570	573	486
135°	704	709	714	722	723	543
145°	852	855	858	861	861	533
155°	975	975	976	979	975	449
165°	1060	1058	1059	1062	1057	299
175°	1102	1099	1098	1103	1098	105
180°	1105	1105	1105	1105	1105	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3
2.5°	668.8	668.6	668.4	668.1	667.9	667.4	666.6	665.7	665.0	664.1	665.0
5°	667.3	666.9	666.7	666.4	666.1	665.5	664.4	663.4	662.4	661.3	662.5
7.5°	661.3	661.2	661.2	661.0	660.9	660.3	659.3	658.2	657.2	656.2	657.1
10°	656.2	656.2	656.2	656.2	656.2	655.6	654.4	653.2	652.0	650.9	651.9
12.5°	648.8	648.9	649.0	649.2	649.3	648.8	647.9	647.0	646.1	645.1	645.9
15°	637.1	637.3	637.5	637.6	637.7	637.3	636.3	635.2	634.3	633.3	634.1
17.5°	622.0	622.2	622.6	622.8	623.2	622.8	621.8	620.8	619.7	618.7	619.4
20°	611.0	611.3	611.6	611.9	612.2	611.8	610.8	609.8	608.7	607.7	608.1
22.5°	598.5	599.0	599.5	600.0	600.5	600.2	599.1	598.0	596.8	595.7	596.2
25°	578.9	579.4	579.8	580.2	580.7	580.5	579.6	578.8	577.8	577.0	577.6
27.5°	557.2	557.8	558.5	559.1	559.8	559.6	558.6	557.7	556.6	555.7	556.0
30°	541.0	541.9	542.8	543.6	544.5	544.5	543.6	542.8	541.9	541.0	541.3
32.5°	526.3	527.1	527.9	528.7	529.3	529.4	528.8	528.1	527.5	526.8	527.2
35°	501.1	502.1	503.2	504.1	505.1	505.5	505.1	504.5	504.1	503.7	504.1
37.5°	475.9	476.8	477.7	478.6	479.6	479.9	479.8	479.7	479.5	479.4	479.9
40°	458.6	459.8	460.9	462.1	463.2	463.7	463.6	463.5	463.3	463.1	463.7
42.5°	439.7	441.3	442.7	444.3	445.8	446.7	447.0	447.4	447.6	448.0	448.7
45°	412.8	414.4	415.9	417.6	419.2	420.3	421.1	421.8	422.5	423.3	424.3
47.5°	385.2	386.7	388.1	389.6	391.2	392.4	393.7	394.9	396.2	397.4	399.0
50°	366.4	367.9	369.5	371.2	372.7	374.4	375.9	377.5	379.1	380.7	382.4
52.5°	346.5	348.4	350.3	352.3	354.2	356.2	358.2	360.1	362.1	363.9	365.7
55°	317.3	319.6	321.9	324.3	326.6	328.9	331.2	333.6	335.9	338.2	339.8
57.5°	287.5	290.2	293.0	295.8	298.6	301.4	304.0	306.7	309.4	312.0	313.8
60°	267.6	270.4	273.4	276.3	279.2	282.1	285.0	287.9	290.8	293.7	295.9
62.5°	248.2	251.1	254.0	256.9	259.8	262.9	266.0	269.1	272.2	275.4	277.8
65°	218.5	221.9	225.2	228.5	231.9	235.3	238.8	242.3	245.7	249.3	251.4
67.5°	190.5	193.7	196.9	200.2	203.4	206.8	210.3	213.9	217.4	221.0	223.6
70°	170.0	173.4	176.8	180.1	183.5	187.0	190.8	194.6	198.4	202.2	204.9
72.5°	150.2	153.7	157.1	160.6	164.0	167.8	171.9	176.1	180.2	184.3	187.4
75°	120.4	124.2	127.9	131.7	135.5	139.7	144.4	149.0	153.7	158.3	161.2
77.5°	91.7	96.1	100.5	104.8	109.2	113.6	118.0	122.5	127.0	131.5	134.7
80°	74.0	78.3	82.7	87.0	91.4	96.0	101.0	105.9	110.8	115.8	119.0
82.5°	57.7	62.3	66.9	71.5	76.1	80.9	85.9	91.0	96.1	101.2	104.2
85°	36.0	40.8	45.5	50.4	55.2	60.1	65.2	70.3	75.3	80.5	83.7
87.5°	20.6	25.6	30.5	35.5	40.4	45.5	50.7	55.9	61.1	66.3	69.9
90°	11.4	17.5	23.7	29.9	36.1	42.3	48.6	54.8	61.1	67.4	71.7
92.5°	30.2	35.6	41.0	46.3	51.7	57.8	64.5	71.1	77.8	84.6	89.0
95°	64.4	68.5	72.7	76.9	81.0	86.5	93.4	100.2	107.1	113.9	118.5
97.5°	100.6	104.1	107.6	111.2	114.8	120.3	127.7	135.1	142.5	149.9	154.2
100°	127.5	130.6	133.6	136.7	139.7	144.8	152.0	159.1	166.3	173.4	178.1
102.5°	156.6	160.1	163.8	167.4	170.9	175.6	181.4	187.2	193.0	198.8	203.6
105°	201.9	205.2	208.4	211.7	215.0	219.4	224.9	230.4	235.9	241.4	245.5
107.5°	252.0	254.9	257.9	260.8	263.7	267.7	272.8	277.8	282.9	288.0	291.4
110°	286.5	289.2	291.9	294.6	297.3	301.0	305.7	310.3	315.0	319.6	322.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	322.3	324.2	326.1	328.0	329.8	333.1	337.9	342.5	347.2	351.9	354.7
115°	374.4	376.2	378.0	379.8	381.5	384.5	388.7	392.8	397.0	401.1	403.6
117.5°	426.7	427.7	428.7	429.7	430.8	433.3	437.1	441.1	445.0	448.9	451.5
120°	459.7	461.1	462.5	463.9	465.3	467.7	471.3	474.8	478.4	481.9	484.3
122.5°	494.9	495.5	496.0	496.6	497.1	499.3	503.0	506.7	510.4	514.2	516.3
125°	543.3	544.3	545.3	546.3	547.3	549.3	552.4	555.5	558.6	561.7	563.7
127.5°	594.2	594.7	595.2	595.7	596.2	597.8	600.4	603.0	605.6	608.2	610.2
130°	625.2	625.9	626.8	627.6	628.4	630.0	632.4	634.8	637.2	639.6	641.5
132.5°	655.6	657.1	658.7	660.2	661.8	663.2	664.8	666.2	667.7	669.3	671.1
135°	704.5	705.4	706.5	707.5	708.4	709.6	710.8	712.0	713.2	714.4	716.3
137.5°	750.4	751.4	752.3	753.4	754.3	755.3	756.2	757.2	758.0	759.0	761.0
140°	779.5	780.4	781.4	782.3	783.3	784.1	784.8	785.5	786.3	787.0	788.9
142.5°	809.0	809.7	810.4	811.1	811.8	812.4	813.2	814.0	814.8	815.5	817.1
145°	852.5	853.1	853.8	854.4	855.0	855.6	856.2	856.7	857.3	857.9	858.6
147.5°	892.1	892.5	892.9	893.4	893.7	894.2	894.7	895.1	895.5	896.0	896.7
150°	918.9	918.7	918.5	918.3	918.2	918.4	919.2	920.0	920.7	921.4	921.4
152.5°	940.9	941.2	941.4	941.7	941.9	942.3	942.5	942.9	943.1	943.5	943.9
155°	974.7	974.7	974.7	974.7	974.7	974.8	975.1	975.3	975.4	975.6	976.4
157.5°	1005.0	1004.6	1004.2	1003.8	1003.3	1003.2	1003.4	1003.6	1003.8	1004.0	1004.8
160°	1022.9	1022.4	1021.7	1021.1	1020.6	1020.5	1020.6	1020.8	1021.0	1021.1	1021.9
162.5°	1038.7	1038.3	1037.8	1037.4	1037.1	1036.8	1036.9	1036.9	1037.0	1037.0	1037.9
165°	1059.9	1059.5	1059.1	1058.7	1058.3	1058.3	1058.4	1058.6	1058.8	1059.0	1059.8
167.5°	1077.7	1076.9	1076.2	1075.5	1074.7	1074.3	1074.3	1074.3	1074.3	1074.3	1075.5
170°	1087.4	1086.6	1085.8	1085.1	1084.3	1083.9	1083.9	1083.9	1083.9	1083.9	1085.1
172.5°	1094.2	1093.5	1092.7	1091.9	1091.2	1090.8	1090.8	1090.8	1090.8	1090.8	1091.9
175°	1102.0	1101.2	1100.4	1099.7	1098.9	1098.5	1098.5	1098.5	1098.5	1098.5	1099.7
177.5°	1106.0	1105.4	1104.7	1104.1	1103.5	1103.1	1102.9	1102.8	1102.7	1102.5	1103.5
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	667.3	667.3	667.3	667.3	667.3	667.3	667.3	667.3
2.5°	665.7	666.6	667.4	667.7	667.6	667.5	667.4	667.3
5°	663.7	664.9	666.0	666.5	666.4	666.2	666.1	666.0
7.5°	658.1	659.2	660.2	660.6	660.5	660.4	660.2	660.0
10°	653.0	653.9	655.0	655.4	655.3	655.1	655.0	654.8
12.5°	646.7	647.5	648.3	648.5	648.1	647.7	647.4	647.0
15°	635.0	635.8	636.7	636.9	636.3	635.7	635.2	634.6
17.5°	620.1	620.7	621.4	621.6	621.2	620.9	620.5	620.2
20°	608.6	609.1	609.5	609.7	609.7	609.7	609.7	609.7
22.5°	596.8	597.4	597.9	598.0	597.6	597.3	596.9	596.6
25°	578.2	578.8	579.3	579.3	578.5	577.8	577.0	576.4
27.5°	556.5	556.9	557.3	557.3	557.1	556.8	556.6	556.3
30°	541.6	541.9	542.2	542.3	542.1	541.9	541.8	541.7
32.5°	527.4	527.7	528.1	528.1	528.0	527.8	527.7	527.5
35°	504.5	505.1	505.5	505.7	505.7	505.7	505.7	505.7
37.5°	480.5	481.1	481.7	482.0	481.9	481.8	481.8	481.7
40°	464.3	464.9	465.5	465.9	466.2	466.5	466.8	467.1
42.5°	449.4	450.0	450.7	451.2	451.3	451.3	451.3	451.4
45°	425.2	426.3	427.3	427.9	428.1	428.2	428.3	428.5
47.5°	400.5	401.9	403.4	404.3	404.7	404.9	405.3	405.6
50°	383.9	385.6	387.1	388.1	388.6	389.0	389.4	389.9
52.5°	367.4	369.1	370.8	371.9	372.2	372.5	372.8	373.2
55°	341.4	343.0	344.6	345.7	346.3	346.9	347.4	348.0
57.5°	315.7	317.5	319.3	320.5	321.0	321.4	321.8	322.3
60°	298.1	300.2	302.5	303.8	304.2	304.6	305.1	305.5
62.5°	280.3	282.7	285.1	286.5	287.1	287.7	288.2	288.8
65°	253.6	255.8	258.0	259.3	259.9	260.5	261.1	261.7
67.5°	226.3	228.9	231.5	233.2	234.0	234.8	235.6	236.3
70°	207.7	210.4	213.2	215.0	215.9	216.7	217.7	218.5
72.5°	190.4	193.3	196.3	198.1	198.8	199.4	200.1	200.7
75°	164.1	167.0	170.0	171.8	172.5	173.2	173.9	174.7
77.5°	137.8	141.1	144.3	146.2	146.7	147.3	147.9	148.5
80°	122.2	125.4	128.5	130.4	131.0	131.6	132.2	132.8
82.5°	107.3	110.4	113.5	115.5	116.6	117.6	118.6	119.7
85°	86.9	90.1	93.2	95.4	96.6	97.7	98.9	100.0
87.5°	73.4	77.0	80.5	82.8	83.9	85.1	86.2	87.3
90°	76.0	80.3	84.6	87.6	89.1	90.7	92.3	93.9
92.5°	93.5	98.0	102.5	105.5	106.9	108.3	109.8	111.2
95°	123.0	127.5	132.1	135.1	136.5	137.8	139.2	140.7
97.5°	158.5	162.8	167.1	169.9	171.1	172.3	173.6	174.8
100°	183.0	187.7	192.4	195.4	196.7	198.0	199.2	200.5
102.5°	208.4	213.2	218.0	221.1	222.6	223.9	225.3	226.8
105°	249.5	253.6	257.6	260.5	262.1	263.6	265.2	266.8
107.5°	294.9	298.3	301.8	303.9	304.8	305.7	306.5	307.4
110°	326.2	329.6	332.9	335.0	335.8	336.7	337.4	338.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	357.7	360.6	363.5	365.3	366.0	366.6	367.3	368.0
115°	406.0	408.5	410.9	412.4	413.1	413.8	414.5	415.1
117.5°	454.2	456.8	459.4	460.8	461.1	461.2	461.5	461.8
120°	486.8	489.3	491.7	493.0	493.2	493.3	493.4	493.4
122.5°	518.6	520.7	523.0	524.2	524.4	524.7	525.0	525.2
125°	565.6	567.6	569.6	570.8	571.3	571.8	572.4	572.9
127.5°	612.2	614.2	616.0	617.3	617.8	618.2	618.7	619.1
130°	643.3	645.2	647.0	648.2	648.5	648.8	649.2	649.5
132.5°	672.9	674.8	676.6	677.5	677.6	677.7	677.8	677.9
135°	718.2	720.1	721.9	722.9	722.8	722.8	722.7	722.7
137.5°	762.8	764.8	766.7	767.5	767.2	766.8	766.4	766.0
140°	790.9	792.9	794.9	795.7	795.3	795.0	794.5	794.2
142.5°	818.6	820.3	821.9	822.5	822.1	821.7	821.4	821.0
145°	859.3	860.1	860.7	861.2	861.2	861.2	861.2	861.2
147.5°	897.4	898.1	898.8	898.6	897.6	896.6	895.5	894.5
150°	921.4	921.4	921.4	921.4	921.1	920.8	920.7	920.4
152.5°	944.4	944.9	945.3	945.2	944.5	943.9	943.2	942.5
155°	977.1	977.9	978.7	978.6	977.7	976.6	975.7	974.7
157.5°	1005.5	1006.3	1007.0	1006.8	1005.6	1004.3	1003.0	1001.8
160°	1022.7	1023.5	1024.2	1024.2	1023.2	1022.3	1021.3	1020.3
162.5°	1038.8	1039.7	1040.7	1040.6	1039.5	1038.4	1037.2	1036.1
165°	1060.5	1061.3	1062.0	1061.9	1060.8	1059.5	1058.4	1057.3
167.5°	1076.6	1077.7	1078.9	1078.8	1077.7	1076.5	1075.3	1074.1
170°	1086.2	1087.4	1088.5	1088.4	1087.1	1085.7	1084.4	1083.1
172.5°	1093.1	1094.2	1095.4	1095.4	1094.2	1093.0	1091.8	1090.6
175°	1100.9	1102.0	1103.1	1103.0	1101.7	1100.4	1099.0	1097.7
177.5°	1104.3	1105.3	1106.1	1106.1	1105.0	1104.0	1102.9	1101.8
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6

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