

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: P333512-927

Luminaire Tested: **S125RDIP-S375D1035U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333512-927
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: S125RDIP-S375D1035U927-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.2 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Indirect

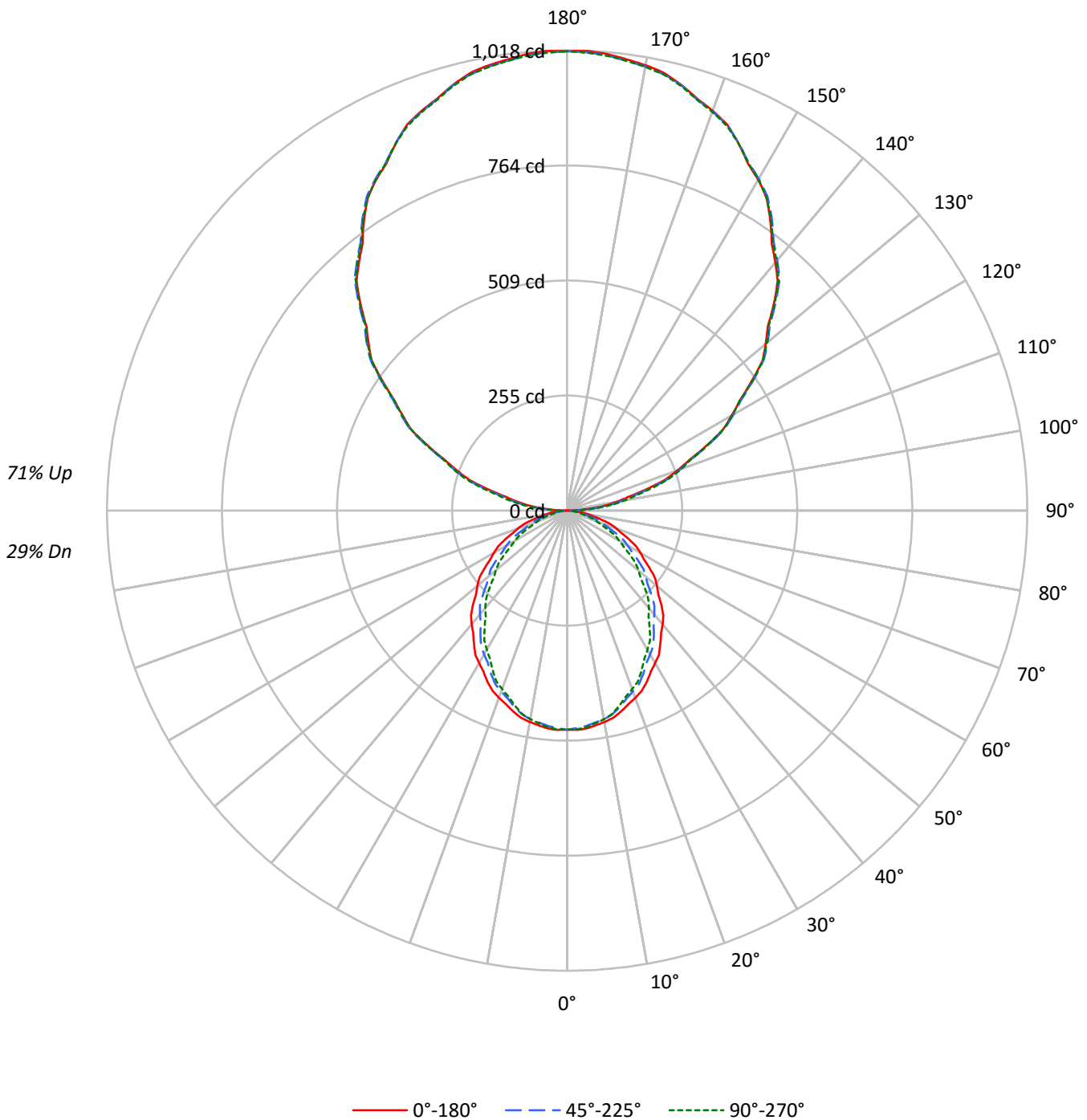
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	72	72	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	28	26	21
3	77	68	61	56	69	62	56	51	49	44	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	19	15
5	65	54	46	40	58	49	42	37	39	34	30	29	26	23	21	19	17	13
6	60	48	40	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	31	27	23	24	21	18	17	15	13	10
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3130	3130	3130
5°	3138	3102	3121
10°	3114	3074	3074
15°	3077	3011	2986
20°	3030	2924	2889
25°	2974	2838	2776
30°	2905	2738	2651
35°	2834	2636	2511
40°	2769	2528	2373
45°	2689	2408	2223
50°	2608	2277	2067
55°	2514	2152	1901
60°	2421	2001	1721
65°	2311	1825	1516
70°	2185	1603	1307
75°	2011	1352	1088
80°	1770	1060	915
85°	1489	867	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.1
10°-20°	127.4	3.2
20°-30°	184.7	4.6
30°-40°	210.5	5.3
40°-50°	205.2	5.2
50°-60°	172.7	4.3
60°-70°	121.1	3.0
70°-80°	62.2	1.6
80°-90°	17.9	0.5
90°-100°	68.1	1.7
100°-110°	201.0	5.0
110°-120°	340.5	8.5
120°-130°	448.1	11.2
130°-140°	502.1	12.6
140°-150°	492.1	12.4
150°-160°	413.3	10.4
160°-170°	274.7	6.9
170°-180°	96.1	2.4
0°-30°	357.7	9.0
0°-40°	568.2	14.3
0°-60°	946.1	23.8
0°-90°	1147.4	28.8
90°-120°	609.5	15.3
90°-150°	2051.7	51.5
90°-180°	2836.0	71.2
0°-180°	3983.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	484	482	478	482	481	46
15°	460	458	450	450	447	130
25°	417	411	398	394	390	192
35°	360	350	334	324	318	225
45°	294	283	264	249	243	227
55°	223	211	191	175	169	200
65°	151	138	119	105	99	150
75°	81	69	54	46	44	85
85°	20	14	12	11	11	23
90°	1	7	13	17	19	4
95°	51	53	61	66	68	55
105°	180	184	189	194	196	193
115°	341	344	346	345	344	337
125°	498	502	503	501	501	445
135°	647	652	652	652	649	498
145°	784	787	789	789	787	490
155°	897	897	898	900	897	413
165°	975	974	974	977	973	275
175°	1014	1011	1011	1015	1010	96
180°	1016	1016	1016	1016	1016	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7
2.5°	485.6	485.4	485.2	485.1	484.8	484.4	483.8	483.1	482.4	481.8	482.4
5°	484.0	483.7	483.4	483.0	482.7	482.1	481.2	480.3	479.4	478.5	479.3
7.5°	479.3	479.0	478.6	478.3	478.0	477.3	476.3	475.2	474.1	473.0	473.6
10°	474.8	474.6	474.4	474.1	473.9	473.2	472.1	470.9	469.8	468.7	468.9
12.5°	469.8	469.5	469.3	469.0	468.7	467.7	466.2	464.7	463.1	461.6	461.8
15°	460.2	459.7	459.2	458.8	458.3	457.2	455.4	453.8	452.0	450.4	450.3
17.5°	449.3	448.5	447.8	447.0	446.3	444.9	442.7	440.5	438.4	436.3	435.9
20°	440.8	440.0	439.2	438.4	437.5	435.9	433.2	430.6	428.0	425.4	425.0
22.5°	431.4	430.6	429.8	429.0	428.2	426.4	423.7	421.0	418.2	415.5	414.7
25°	417.4	416.1	414.9	413.7	412.5	410.4	407.3	404.3	401.3	398.3	397.3
27.5°	401.2	399.8	398.3	396.8	395.3	393.0	389.8	386.5	383.3	380.1	378.6
30°	389.5	388.0	386.4	384.9	383.3	380.9	377.5	374.1	370.7	367.2	365.4
32.5°	378.1	376.3	374.5	372.7	370.9	368.3	364.8	361.3	357.8	354.3	352.3
35°	359.5	357.6	355.6	353.6	351.7	348.9	345.2	341.6	337.9	334.3	331.9
37.5°	341.3	338.9	336.5	334.1	331.8	328.7	325.0	321.2	317.4	313.6	310.8
40°	328.4	326.0	323.5	321.1	318.6	315.4	311.6	307.7	303.7	299.8	296.8
42.5°	314.9	312.4	309.9	307.4	304.9	301.7	297.6	293.6	289.5	285.5	282.6
45°	294.4	292.0	289.6	287.2	284.9	281.5	277.0	272.6	268.1	263.6	260.3
47.5°	273.1	270.5	268.1	265.5	263.1	259.6	255.1	250.6	246.1	241.5	238.2
50°	259.6	256.9	254.2	251.5	248.8	245.2	240.5	235.9	231.2	226.6	223.2
52.5°	244.9	242.2	239.4	236.7	233.9	230.4	226.0	221.6	217.2	212.9	209.2
55°	223.3	220.7	218.1	215.6	212.9	209.4	204.8	200.2	195.7	191.1	187.4
57.5°	201.5	198.8	195.9	193.1	190.4	186.8	182.4	178.0	173.6	169.2	165.6
60°	187.4	184.6	181.7	178.9	176.0	172.5	168.0	163.7	159.2	154.9	151.3
62.5°	172.5	169.8	167.1	164.4	161.6	158.0	153.6	149.2	144.7	140.2	136.9
65°	151.2	148.5	145.7	142.9	140.1	136.6	132.3	128.0	123.7	119.4	116.1
67.5°	130.1	127.3	124.5	121.8	119.0	115.5	111.4	107.3	103.1	99.0	96.0
70°	115.7	113.0	110.2	107.4	104.6	101.2	97.1	93.1	89.0	84.9	82.4
72.5°	101.6	98.9	96.3	93.6	90.9	87.5	83.7	79.9	76.1	72.3	70.0
75°	80.6	78.1	75.7	73.2	70.8	67.9	64.4	61.0	57.6	54.2	52.4
77.5°	59.6	57.7	55.7	53.7	51.8	49.4	46.7	44.0	41.3	38.5	37.2
80°	47.6	45.6	43.7	41.7	39.8	37.7	35.4	33.1	30.8	28.5	27.8
82.5°	35.9	34.1	32.4	30.6	28.8	27.2	25.7	24.1	22.5	20.9	20.6
85°	20.1	18.7	17.2	15.8	14.3	13.3	12.9	12.5	12.1	11.7	11.6
87.5°	6.9	6.7	6.6	6.3	6.2	6.2	6.4	6.6	6.7	6.9	7.1
90°	0.8	2.2	3.6	5.0	6.4	7.8	9.0	10.2	11.4	12.7	13.5
92.5°	19.2	20.1	21.1	22.1	23.1	24.3	25.8	27.3	28.8	30.3	31.5
95°	51.4	51.7	52.1	52.4	52.8	53.9	55.6	57.4	59.2	60.9	62.1
97.5°	85.4	85.6	85.7	85.9	86.0	87.3	89.7	92.1	94.5	97.0	98.2
100°	110.7	110.7	110.7	110.7	110.7	111.9	114.2	116.5	118.7	121.0	122.6
102.5°	137.9	138.6	139.3	140.1	140.8	141.6	142.8	144.0	145.1	146.3	148.1
105°	180.3	181.2	182.0	183.0	183.9	184.8	185.8	186.9	188.0	189.0	190.0
107.5°	227.1	228.0	228.9	229.8	230.7	231.5	232.3	233.1	233.9	234.7	235.3
110°	259.4	260.3	261.2	262.1	262.9	263.6	264.1	264.7	265.2	265.7	266.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	292.3	292.8	293.2	293.7	294.1	294.7	295.4	296.0	296.7	297.4	297.6
115°	340.9	341.6	342.3	343.0	343.6	344.2	344.5	344.9	345.2	345.6	345.5
117.5°	389.6	389.9	390.2	390.5	390.9	391.2	391.5	391.8	392.1	392.4	392.6
120°	419.9	420.8	421.7	422.6	423.5	424.0	424.1	424.4	424.5	424.7	424.7
122.5°	452.9	453.2	453.5	453.8	454.2	454.5	455.0	455.4	455.9	456.3	456.2
125°	497.5	498.5	499.6	500.7	501.7	502.3	502.5	502.6	502.8	503.0	502.6
127.5°	544.9	545.5	546.1	546.7	547.3	547.7	548.0	548.1	548.3	548.6	548.3
130°	573.4	574.3	575.1	576.0	576.9	577.5	577.9	578.2	578.5	578.9	578.8
132.5°	601.8	603.3	604.8	606.2	607.6	608.3	608.2	608.2	608.1	608.0	607.8
135°	647.0	648.0	649.0	650.1	651.2	651.8	652.0	652.1	652.3	652.4	652.4
137.5°	689.4	690.3	691.3	692.4	693.4	694.1	694.5	694.9	695.3	695.6	695.9
140°	716.5	717.4	718.3	719.1	720.0	720.7	721.3	721.8	722.3	722.9	723.2
142.5°	743.7	744.5	745.2	745.9	746.7	747.4	748.1	748.8	749.4	750.0	750.3
145°	783.8	784.5	785.1	785.8	786.6	787.2	787.7	788.2	788.8	789.3	789.3
147.5°	820.8	821.2	821.6	822.0	822.3	822.8	823.2	823.6	823.9	824.4	824.8
150°	845.4	845.3	845.1	844.9	844.8	845.0	845.7	846.4	847.1	847.8	847.8
152.5°	865.7	865.9	866.2	866.4	866.6	867.0	867.2	867.5	867.8	868.1	868.5
155°	896.8	896.8	896.8	896.8	896.8	896.9	897.1	897.3	897.5	897.6	898.3
157.5°	924.7	924.3	923.9	923.5	923.1	923.1	923.2	923.4	923.6	923.8	924.5
160°	941.1	940.6	940.1	939.5	939.1	938.9	939.1	939.2	939.4	939.5	940.2
162.5°	955.7	955.3	954.9	954.5	954.2	953.9	954.0	954.0	954.1	954.1	955.0
165°	975.2	974.8	974.5	974.1	973.8	973.7	973.8	974.0	974.1	974.4	975.1
167.5°	991.6	990.9	990.2	989.5	988.8	988.4	988.4	988.4	988.4	988.4	989.5
170°	1000.4	999.7	999.0	998.4	997.7	997.3	997.3	997.3	997.3	997.3	998.4
172.5°	1006.8	1006.1	1005.4	1004.6	1004.0	1003.6	1003.6	1003.6	1003.6	1003.6	1004.6
175°	1013.9	1013.2	1012.5	1011.8	1011.1	1010.7	1010.7	1010.7	1010.7	1010.7	1011.8
177.5°	1017.6	1017.0	1016.4	1015.8	1015.3	1014.9	1014.8	1014.6	1014.5	1014.4	1015.3
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7
2.5°	483.1	483.8	484.4	484.7	484.7	484.6	484.5	484.4
5°	480.1	480.9	481.7	482.1	482.0	481.7	481.6	481.4
7.5°	474.1	474.8	475.3	475.5	475.3	475.2	475.0	474.8
10°	469.1	469.4	469.6	469.6	469.4	469.1	468.9	468.7
12.5°	461.9	462.2	462.3	462.2	461.8	461.4	461.1	460.7
15°	450.1	450.0	450.0	449.6	448.9	448.1	447.4	446.6
17.5°	435.5	435.1	434.7	434.1	433.6	432.9	432.3	431.7
20°	424.6	424.2	423.8	423.3	422.5	421.8	421.0	420.3
22.5°	413.8	413.0	412.3	411.5	411.0	410.4	409.8	409.2
25°	396.2	395.1	394.1	393.2	392.2	391.3	390.5	389.5
27.5°	377.2	375.7	374.1	373.0	372.2	371.3	370.4	369.6
30°	363.5	361.6	359.7	358.5	357.7	357.0	356.2	355.5
32.5°	350.2	348.2	346.0	344.6	343.6	342.7	341.7	340.9
35°	329.5	327.2	324.8	323.1	321.9	320.8	319.6	318.5
37.5°	307.9	305.1	302.3	300.3	299.2	298.1	297.0	295.9
40°	293.7	290.6	287.5	285.4	284.5	283.5	282.5	281.5
42.5°	279.6	276.6	273.6	271.5	270.1	268.5	267.1	265.7
45°	257.1	253.8	250.6	248.3	247.2	245.9	244.7	243.4
47.5°	234.9	231.5	228.1	225.8	224.4	223.1	221.7	220.4
50°	219.8	216.3	212.9	210.6	209.5	208.2	207.0	205.7
52.5°	205.5	201.8	198.1	195.7	194.5	193.3	192.0	190.8
55°	183.8	180.1	176.5	174.0	172.7	171.3	170.1	168.8
57.5°	162.1	158.5	154.9	152.5	151.4	150.2	149.1	147.9
60°	147.7	144.1	140.5	138.2	136.9	135.7	134.5	133.2
62.5°	133.6	130.2	126.9	124.7	123.4	122.2	121.0	119.8
65°	112.8	109.6	106.3	104.1	102.9	101.6	100.4	99.2
67.5°	93.0	90.1	87.1	85.1	84.1	83.2	82.1	81.2
70°	79.9	77.4	74.9	73.1	72.1	71.1	70.2	69.2
72.5°	67.7	65.4	63.1	61.6	60.9	60.3	59.6	58.9
75°	50.6	48.8	47.1	45.9	45.3	44.7	44.1	43.6
77.5°	36.0	34.8	33.5	32.6	32.2	31.8	31.4	31.0
80°	27.1	26.4	25.7	25.2	25.0	24.9	24.7	24.6
82.5°	20.3	19.9	19.6	19.3	19.3	19.2	19.1	18.9
85°	11.6	11.5	11.4	11.3	11.2	11.2	11.1	11.0
87.5°	7.3	7.4	7.6	7.8	7.8	7.8	7.8	7.9
90°	14.4	15.3	16.2	16.9	17.4	17.9	18.5	19.0
92.5°	32.7	33.8	35.0	35.8	36.2	36.5	36.9	37.3
95°	63.4	64.6	65.8	66.6	66.9	67.3	67.7	68.0
97.5°	99.3	100.4	101.6	102.3	102.5	102.7	102.9	103.1
100°	124.1	125.7	127.3	128.3	128.7	129.0	129.4	129.7
102.5°	149.7	151.5	153.2	154.3	154.8	155.3	155.8	156.3
105°	191.2	192.2	193.2	194.0	194.6	195.1	195.6	196.1
107.5°	235.8	236.3	236.9	237.1	237.0	237.0	237.0	236.9
110°	266.8	267.3	267.8	268.0	267.8	267.7	267.5	267.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	297.9	298.1	298.3	298.3	298.0	297.7	297.4	297.1
115°	345.2	345.1	344.9	344.8	344.5	344.4	344.2	344.0
117.5°	392.7	392.8	393.0	392.7	392.0	391.3	390.6	389.9
120°	424.7	424.7	424.7	424.4	423.7	422.9	422.2	421.5
122.5°	456.1	455.9	455.7	455.4	454.9	454.3	453.8	453.2
125°	502.3	501.9	501.6	501.3	501.1	501.0	500.8	500.7
127.5°	548.2	548.0	547.9	547.6	547.2	546.8	546.5	546.2
130°	578.5	578.4	578.2	578.0	577.6	577.3	576.9	576.6
132.5°	607.7	607.5	607.3	607.0	606.5	606.0	605.5	605.0
135°	652.4	652.4	652.4	652.1	651.4	650.7	650.0	649.3
137.5°	696.1	696.2	696.5	696.2	695.3	694.4	693.6	692.7
140°	723.6	723.9	724.3	724.0	723.1	722.2	721.4	720.5
142.5°	750.5	750.7	750.9	750.6	749.7	748.8	748.0	747.0
145°	789.3	789.3	789.3	789.0	788.5	788.0	787.4	787.0
147.5°	825.2	825.7	826.1	825.7	824.5	823.3	822.1	820.9
150°	847.8	847.8	847.8	847.6	847.3	846.9	846.6	846.2
152.5°	868.9	869.3	869.7	869.7	869.0	868.4	867.8	867.1
155°	899.0	899.8	900.5	900.4	899.5	898.6	897.7	896.8
157.5°	925.1	925.8	926.5	926.3	925.2	924.0	922.8	921.7
160°	941.0	941.7	942.4	942.3	941.4	940.6	939.7	938.7
162.5°	955.8	956.6	957.5	957.4	956.4	955.4	954.3	953.3
165°	975.7	976.4	977.2	977.0	976.0	974.9	973.8	972.8
167.5°	990.5	991.6	992.7	992.6	991.6	990.5	989.4	988.2
170°	999.4	1000.4	1001.5	1001.4	1000.2	998.9	997.8	996.5
172.5°	1005.8	1006.8	1007.8	1007.8	1006.7	1005.7	1004.6	1003.5
175°	1012.9	1013.9	1014.9	1014.9	1013.7	1012.4	1011.1	1010.0
177.5°	1016.1	1016.9	1017.7	1017.7	1016.7	1015.7	1014.7	1013.8
180°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3

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