

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: P333355-927

Luminaire Tested: **S125DIW-S375D1050U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333355-927
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: S125DIW-S375D1050U927-4F0-1E-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: 4037.1 lumens
Efficiency: N/A
Efficacy: 106.2 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

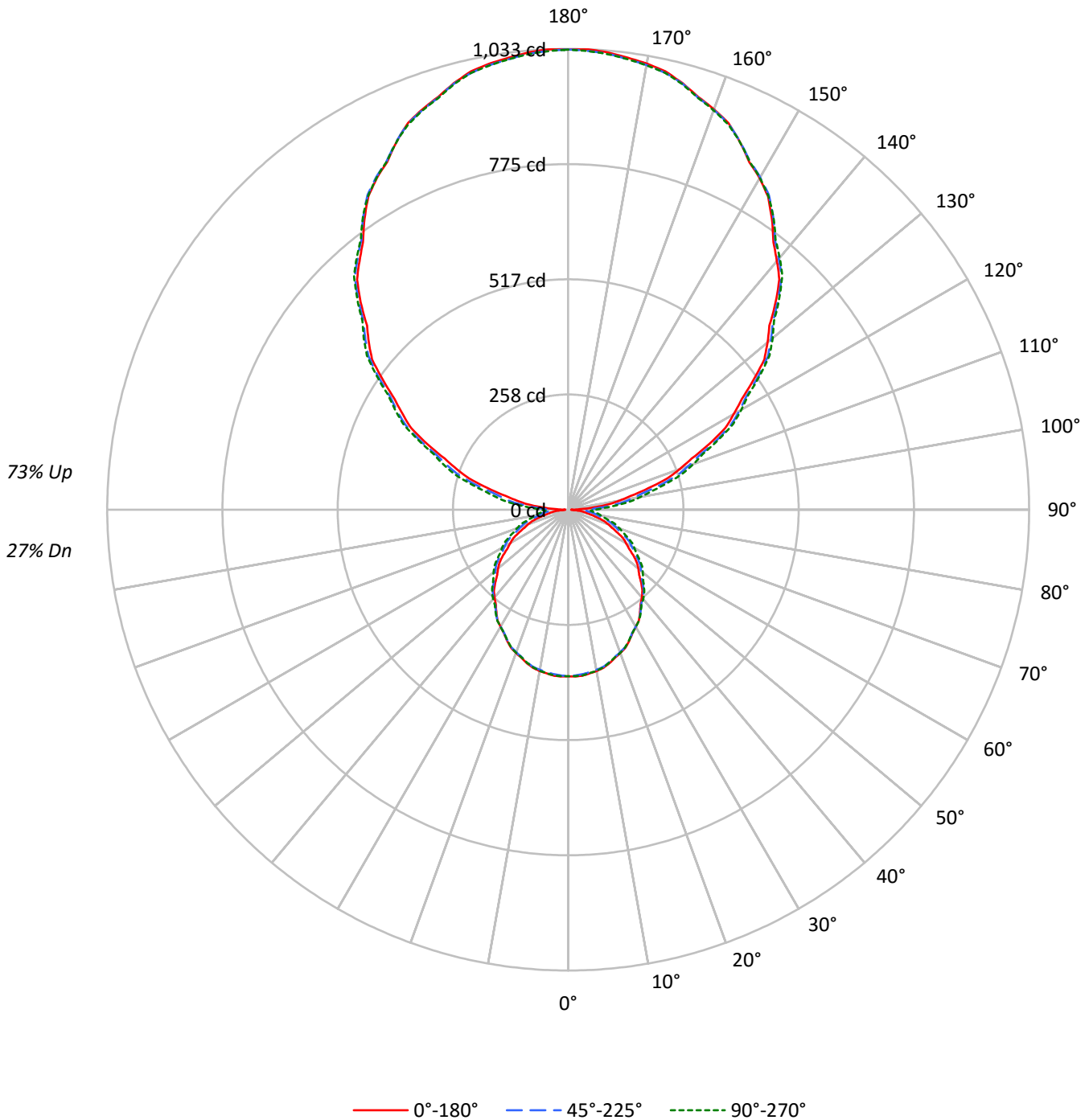
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.9
10°-20°	100.2	2.5
20°-30°	149.1	3.7
30°-40°	176.6	4.4
40°-50°	182.6	4.5
50°-60°	168.2	4.2
60°-70°	135.9	3.4
70°-80°	91.0	2.3
80°-90°	49.5	1.2
90°-100°	95.6	2.4
100°-110°	223.5	5.5
110°-120°	358.6	8.9
120°-130°	462.2	11.4
130°-140°	512.8	12.7
140°-150°	500.1	12.4
150°-160°	419.5	10.4
160°-170°	278.8	6.9
170°-180°	97.6	2.4
0°-30°	284.6	7.1
0°-40°	461.2	11.4
0°-60°	812.0	20.1
0°-90°	1088.4	27.0
90°-120°	677.8	16.8
90°-150°	2152.8	53.3
90°-180°	2949.0	73.0
0°-180°	4037.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	7	25	43	55	60	7
95°	57	69	89	102	106	59
105°	186	197	212	224	229	199
115°	348	354	365	371	372	344
125°	506	511	519	523	524	453
135°	657	662	665	670	668	506
145°	796	799	801	803	802	497
155°	910	910	911	914	910	419
165°	990	988	989	992	987	279
175°	1029	1026	1026	1030	1025	98
180°	1031	1031	1031	1031	1031	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.5	17.3	20.3	23.1	26.1	29.1	32.2	35.2	38.2	40.2
90°	6.7	10.7	14.7	18.8	22.8	26.8	30.8	34.9	38.8	42.9	45.6
92.5°	24.7	28.1	31.5	34.9	38.3	42.2	46.6	50.9	55.3	59.7	62.7
95°	57.0	59.4	61.9	64.3	66.9	70.3	74.9	79.5	84.0	88.6	91.6
97.5°	91.0	93.1	95.1	97.1	99.2	102.7	107.9	113.0	118.2	123.3	126.2
100°	116.4	118.1	119.9	121.5	123.3	126.6	131.5	136.4	141.3	146.2	149.6
102.5°	143.7	146.0	148.3	150.6	152.9	155.9	159.6	163.3	167.1	170.8	174.1
105°	186.3	188.5	190.7	192.9	195.1	198.0	201.5	204.9	208.5	212.0	214.7
107.5°	233.4	235.4	237.4	239.4	241.4	244.0	247.2	250.3	253.4	256.6	258.7
110°	265.9	267.7	269.6	271.5	273.3	275.7	278.5	281.3	284.1	286.9	289.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	299.2	300.5	301.7	303.0	304.2	306.3	309.2	312.0	315.0	317.8	319.6
115°	348.2	349.4	350.7	352.0	353.3	355.1	357.7	360.1	362.6	365.0	366.3
117.5°	397.2	397.9	398.6	399.3	400.1	401.6	403.9	406.2	408.5	410.8	412.3
120°	428.1	429.2	430.3	431.5	432.6	434.2	436.3	438.3	440.4	442.4	443.8
122.5°	461.1	461.6	462.0	462.5	462.9	464.2	466.5	468.8	471.0	473.3	474.5
125°	506.4	507.3	508.3	509.3	510.3	511.7	513.5	515.3	517.1	519.0	519.9
127.5°	554.1	554.7	555.2	555.7	556.3	557.3	558.8	560.4	561.9	563.5	564.5
130°	583.0	583.8	584.6	585.5	586.3	587.4	588.9	590.4	591.9	593.4	594.4
132.5°	611.6	613.1	614.6	616.0	617.4	618.5	619.4	620.2	621.0	621.8	622.7
135°	657.4	658.3	659.3	660.3	661.3	662.2	662.9	663.6	664.4	665.1	666.2
137.5°	700.3	701.2	702.2	703.2	704.2	705.0	705.7	706.3	707.0	707.7	708.8
140°	727.6	728.5	729.4	730.3	731.2	731.9	732.5	733.2	733.8	734.4	735.6
142.5°	755.2	755.9	756.6	757.2	758.0	758.7	759.3	760.0	760.7	761.4	762.4
145°	795.8	796.5	797.1	797.7	798.4	798.9	799.5	800.0	800.6	801.1	801.5
147.5°	833.1	833.5	833.9	834.2	834.6	835.0	835.4	835.8	836.3	836.7	837.3
150°	858.1	857.9	857.7	857.5	857.4	857.6	858.3	859.0	859.8	860.5	860.5
152.5°	878.6	878.8	879.1	879.4	879.6	879.9	880.2	880.4	880.7	881.1	881.5
155°	910.2	910.2	910.2	910.2	910.2	910.3	910.5	910.7	910.9	911.1	911.8
157.5°	938.5	938.1	937.7	937.3	936.9	936.8	937.0	937.2	937.4	937.5	938.3
160°	955.2	954.7	954.1	953.6	953.1	952.9	953.1	953.2	953.4	953.6	954.3
162.5°	969.9	969.6	969.2	968.8	968.4	968.2	968.3	968.3	968.4	968.4	969.2
165°	989.8	989.4	989.0	988.6	988.2	988.2	988.4	988.6	988.7	988.9	989.6
167.5°	1006.4	1005.7	1005.0	1004.2	1003.5	1003.2	1003.2	1003.2	1003.2	1003.2	1004.2
170°	1015.4	1014.7	1014.0	1013.3	1012.6	1012.2	1012.2	1012.2	1012.2	1012.2	1013.3
172.5°	1021.8	1021.1	1020.4	1019.7	1019.0	1018.6	1018.6	1018.6	1018.6	1018.6	1019.7
175°	1029.0	1028.3	1027.6	1026.9	1026.2	1025.8	1025.8	1025.8	1025.8	1025.8	1026.9
177.5°	1032.8	1032.1	1031.6	1031.0	1030.5	1030.1	1029.9	1029.8	1029.7	1029.5	1030.4
180°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	42.2	44.3	46.3	47.7	48.4	49.0	49.7	50.5
90°	48.4	51.2	53.9	55.8	57.0	58.1	59.2	60.3
92.5°	65.7	68.6	71.6	73.6	74.5	75.5	76.4	77.4
95°	94.6	97.7	100.7	102.7	103.6	104.5	105.4	106.4
97.5°	129.0	132.0	134.8	136.7	137.4	138.2	138.9	139.7
100°	152.9	156.2	159.5	161.6	162.4	163.3	164.1	164.9
102.5°	177.5	180.9	184.3	186.5	187.5	188.5	189.5	190.4
105°	217.4	220.1	222.8	224.7	225.8	226.9	228.0	229.1
107.5°	260.9	263.1	265.2	266.5	267.0	267.4	267.9	268.4
110°	291.0	293.2	295.2	296.4	296.8	297.2	297.6	298.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	321.3	323.1	324.8	325.7	326.0	326.2	326.5	326.8
115°	367.7	368.9	370.2	371.0	371.3	371.6	371.9	372.2
117.5°	413.8	415.4	416.9	417.6	417.4	417.2	417.1	416.9
120°	445.1	446.6	447.9	448.5	448.3	448.1	447.8	447.6
122.5°	475.7	476.9	478.0	478.6	478.5	478.4	478.3	478.2
125°	520.8	521.7	522.7	523.3	523.6	523.8	523.9	524.2
127.5°	565.5	566.6	567.6	568.2	568.2	568.4	568.5	568.6
130°	595.3	596.3	597.3	597.8	597.9	597.9	597.9	597.9
132.5°	623.7	624.6	625.7	626.1	625.9	625.7	625.6	625.4
135°	667.3	668.3	669.4	669.8	669.5	669.2	668.8	668.5
137.5°	710.0	711.1	712.3	712.6	712.1	711.5	711.0	710.3
140°	736.9	738.2	739.4	739.7	739.2	738.6	738.1	737.4
142.5°	763.3	764.4	765.3	765.6	764.9	764.4	763.8	763.3
145°	801.9	802.3	802.7	802.8	802.6	802.4	802.2	802.0
147.5°	837.8	838.4	838.9	838.7	837.7	836.5	835.5	834.4
150°	860.5	860.5	860.5	860.3	860.1	859.8	859.5	859.3
152.5°	881.9	882.3	882.7	882.6	882.0	881.4	880.7	880.1
155°	912.5	913.2	913.9	913.8	912.9	912.0	911.2	910.2
157.5°	939.0	939.7	940.4	940.2	939.0	937.8	936.6	935.5
160°	955.1	955.8	956.5	956.3	955.5	954.6	953.7	952.8
162.5°	970.1	970.9	971.8	971.7	970.7	969.6	968.6	967.6
165°	990.3	991.0	991.7	991.6	990.5	989.4	988.4	987.3
167.5°	1005.4	1006.4	1007.5	1007.5	1006.4	1005.3	1004.2	1003.1
170°	1014.3	1015.4	1016.4	1016.4	1015.1	1013.9	1012.6	1011.4
172.5°	1020.7	1021.8	1022.9	1022.9	1021.8	1020.6	1019.5	1018.4
175°	1027.9	1029.0	1030.2	1030.0	1028.8	1027.5	1026.3	1025.0
177.5°	1031.3	1032.1	1032.9	1032.8	1031.9	1030.9	1029.9	1028.9
180°	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4	1031.4

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