

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: P333118-927

Luminaire Tested: **S125DIP-S375D365U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333118-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D365U927-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.5 lumens
Efficiency: N/A
Efficacy: 114.2 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: General Diffuse

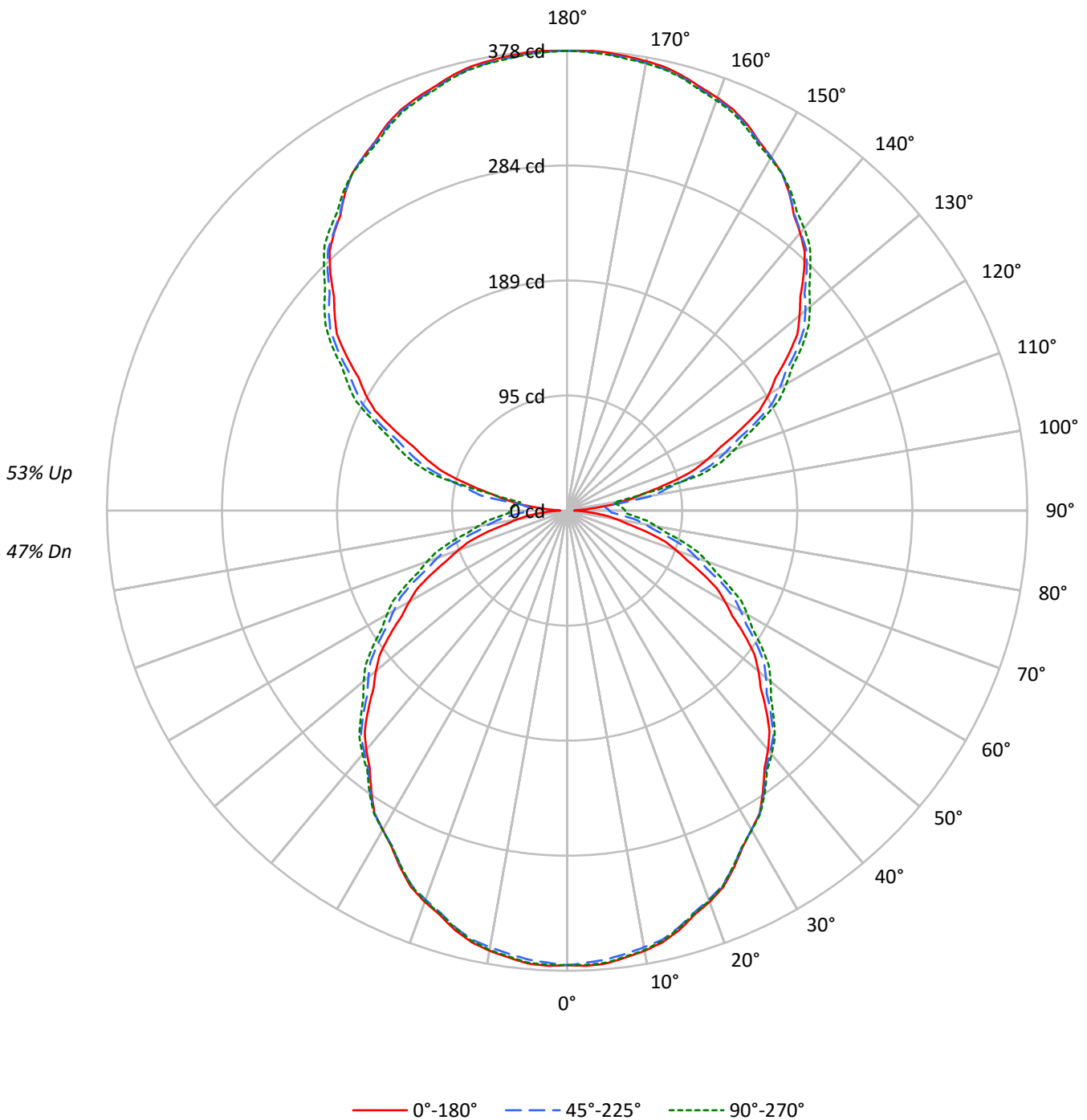
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333118-927

CATALOG NUMBER: S125DIP-S375D365U927-4F0-1E-UDD-D

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	96	92	88	84	88	84	81	78	70	68	66	58	56	54	46	45	44	38
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	30	26
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23	19
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11

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	1.5
10°-20°	100.2	4.3
20°-30°	149.1	6.4
30°-40°	176.6	7.6
40°-50°	182.6	7.9
50°-60°	168.2	7.3
60°-70°	135.9	5.9
70°-80°	91.0	3.9
80°-90°	48.0	2.1
90°-100°	40.2	1.7
100°-110°	104.1	4.5
110°-120°	166.5	7.2
120°-130°	204.4	8.8
130°-140°	215.1	9.3
140°-150°	199.5	8.6
150°-160°	160.8	6.9
160°-170°	104.0	4.5
170°-180°	35.9	1.5
0°-30°	284.6	12.3
0°-40°	461.2	19.9
0°-60°	812.0	35.0
0°-90°	1087.0	46.9
90°-120°	310.9	13.4
90°-150°	929.8	40.1
90°-180°	1230.0	53.1
0°-180°	2317.5	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°	6	20	34	44	48	5
95°	21	29	31	40	43	24
105°	86	93	104	111	113	91
115°	157	161	171	176	176	155
125°	221	223	230	235	236	198
135°	275	276	278	282	283	212
145°	318	318	318	320	320	199
155°	350	348	349	350	348	161
165°	369	368	368	369	367	104
175°	378	376	376	378	376	36
180°	378	378	378	378	378	



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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°	11.5	14.2	16.9	19.6	22.3	25.0	27.9	30.7	33.7	36.5	38.4
90°	6.1	9.3	12.4	15.4	18.5	21.7	24.9	28.1	31.3	34.5	36.7
92.5°	9.6	11.6	13.7	15.8	17.8	20.4	23.7	26.9	30.1	33.4	35.4
95°	20.8	22.7	24.6	26.5	28.4	29.6	30.0	30.4	30.8	31.2	33.3
97.5°	37.6	39.8	42.1	44.4	46.6	46.7	44.7	42.7	40.7	38.7	38.7
100°	50.8	52.7	54.6	56.5	58.4	60.8	63.6	66.5	69.3	72.2	64.6
102.5°	64.2	66.0	67.8	69.6	71.5	73.7	76.4	79.1	81.8	84.4	84.3
105°	85.6	87.1	88.7	90.3	91.8	93.8	96.3	98.7	101.2	103.6	105.2
107.5°	107.9	109.0	110.1	111.2	112.3	114.2	116.6	119.1	121.5	124.0	125.6
110°	122.4	123.4	124.4	125.3	126.4	128.0	130.4	132.8	135.2	137.6	138.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	136.3	137.2	138.2	139.1	140.1	141.6	143.9	146.2	148.5	150.8	152.0
115°	156.8	157.6	158.5	159.4	160.3	161.8	164.0	166.2	168.3	170.6	171.7
117.5°	178.0	178.3	178.7	179.0	179.4	180.7	182.9	185.2	187.4	189.6	190.8
120°	191.4	191.5	191.8	191.9	192.1	193.3	195.3	197.3	199.4	201.5	202.7
122.5°	203.0	203.4	203.7	204.1	204.4	205.5	207.4	209.3	211.2	213.1	214.3
125°	221.3	221.7	222.0	222.4	222.7	223.7	225.3	227.0	228.5	230.2	231.2
127.5°	238.4	238.7	238.9	239.2	239.4	240.1	241.5	242.7	244.0	245.3	246.4
130°	249.2	249.5	249.7	249.9	250.1	250.8	252.1	253.3	254.4	255.6	256.6
132.5°	259.7	260.0	260.3	260.7	261.0	261.6	262.3	263.1	263.8	264.5	265.6
135°	274.9	275.2	275.4	275.8	276.1	276.4	276.9	277.3	277.7	278.2	279.1
137.5°	288.8	289.1	289.4	289.6	289.9	290.1	290.3	290.4	290.6	290.7	291.8
140°	297.8	297.9	298.0	298.1	298.3	298.3	298.3	298.3	298.4	298.4	299.4
142.5°	306.0	306.0	306.0	306.1	306.1	306.1	306.3	306.3	306.4	306.6	307.4
145°	318.2	318.2	318.3	318.3	318.4	318.4	318.4	318.4	318.4	318.4	318.9
147.5°	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.5	328.6	328.7	328.9
150°	335.2	335.1	334.9	334.8	334.7	334.7	334.8	334.9	335.1	335.2	335.3
152.5°	341.7	341.4	341.1	340.9	340.6	340.5	340.6	340.8	340.9	341.0	341.1
155°	350.1	349.7	349.3	348.9	348.6	348.4	348.6	348.6	348.8	348.9	349.1
157.5°	356.5	356.2	356.0	355.8	355.6	355.5	355.5	355.5	355.5	355.5	355.7
160°	360.9	360.6	360.2	359.8	359.5	359.3	359.3	359.4	359.5	359.6	359.8
162.5°	364.6	364.2	363.8	363.4	363.1	362.9	363.0	363.0	363.1	363.1	363.5
165°	369.3	369.0	368.6	368.2	367.9	367.7	367.7	367.8	367.9	368.0	368.3
167.5°	373.0	372.6	372.2	371.8	371.4	371.2	371.3	371.4	371.5	371.5	371.9
170°	374.9	374.5	374.1	373.7	373.2	373.0	373.1	373.1	373.2	373.3	373.8
172.5°	376.3	375.9	375.4	375.0	374.5	374.4	374.5	374.6	374.7	374.9	375.3
175°	377.7	377.4	377.0	376.6	376.3	376.1	376.1	376.2	376.3	376.4	376.8
177.5°	378.4	378.1	377.8	377.6	377.2	377.1	377.2	377.2	377.2	377.3	377.6
180°	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7



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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°	40.3	42.3	44.2	45.5	46.1	46.7	47.3	47.9
90°	38.9	41.0	43.3	44.7	45.5	46.2	47.0	47.7
92.5°	37.5	39.7	41.8	43.2	43.8	44.5	45.2	45.8
95°	35.4	37.5	39.6	41.0	41.5	42.1	42.6	43.3
97.5°	38.6	38.5	38.5	38.7	39.3	39.8	40.4	41.0
100°	57.0	49.4	41.9	38.3	38.5	38.7	39.0	39.2
102.5°	84.2	84.1	84.0	82.1	78.3	74.5	70.8	67.1
105°	106.9	108.4	110.1	111.1	111.7	112.2	112.6	113.2
107.5°	127.2	128.9	130.5	131.5	131.8	132.1	132.5	132.8
110°	140.4	141.7	143.1	144.0	144.7	145.3	145.9	146.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	153.3	154.6	155.7	156.6	157.1	157.6	158.0	158.5
115°	172.9	174.2	175.4	176.0	176.2	176.3	176.4	176.5
117.5°	191.8	192.8	193.9	194.6	195.0	195.4	195.8	196.2
120°	204.0	205.3	206.5	207.2	207.4	207.6	207.8	207.9
122.5°	215.5	216.7	217.9	218.5	218.6	218.8	218.9	219.0
125°	232.3	233.4	234.4	235.0	235.3	235.5	235.7	235.9
127.5°	247.5	248.5	249.6	250.1	250.2	250.2	250.2	250.2
130°	257.5	258.5	259.4	260.0	260.1	260.2	260.2	260.4
132.5°	266.7	267.8	268.9	269.5	269.6	269.6	269.6	269.7
135°	280.0	281.0	281.9	282.4	282.4	282.5	282.5	282.6
137.5°	292.7	293.7	294.7	295.2	295.2	295.2	295.2	295.2
140°	300.5	301.4	302.5	302.9	302.9	302.9	302.9	302.8
142.5°	308.2	309.0	309.7	310.1	310.1	310.0	309.9	309.9
145°	319.3	319.8	320.3	320.4	320.4	320.4	320.4	320.3
147.5°	329.1	329.3	329.5	329.5	329.2	328.8	328.5	328.3
150°	335.4	335.6	335.6	335.6	335.1	334.7	334.3	333.9
152.5°	341.3	341.4	341.5	341.4	341.0	340.5	340.1	339.6
155°	349.3	349.4	349.7	349.5	349.0	348.5	348.0	347.5
157.5°	355.9	356.1	356.3	356.2	355.7	355.1	354.7	354.2
160°	360.0	360.3	360.5	360.4	359.9	359.4	358.9	358.5
162.5°	363.8	364.2	364.6	364.4	363.8	363.3	362.8	362.3
165°	368.7	369.1	369.5	369.4	368.9	368.4	367.9	367.4
167.5°	372.4	372.8	373.3	373.2	372.6	372.1	371.5	371.0
170°	374.2	374.8	375.3	375.3	374.7	374.1	373.5	373.0
172.5°	375.7	376.2	376.6	376.6	376.0	375.4	374.9	374.3
175°	377.3	377.9	378.3	378.3	377.7	377.2	376.6	376.0
177.5°	378.0	378.3	378.7	378.7	378.3	377.9	377.5	377.1
180°	377.7	377.7	377.7	377.7	377.7	377.7	377.7	377.7

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