

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: P333120-927

Luminaire Tested: **S125DIP-S375D365U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333120-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
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-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2198.8 lumens
Efficiency: N/A
Efficacy: 108.3 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: General Diffuse

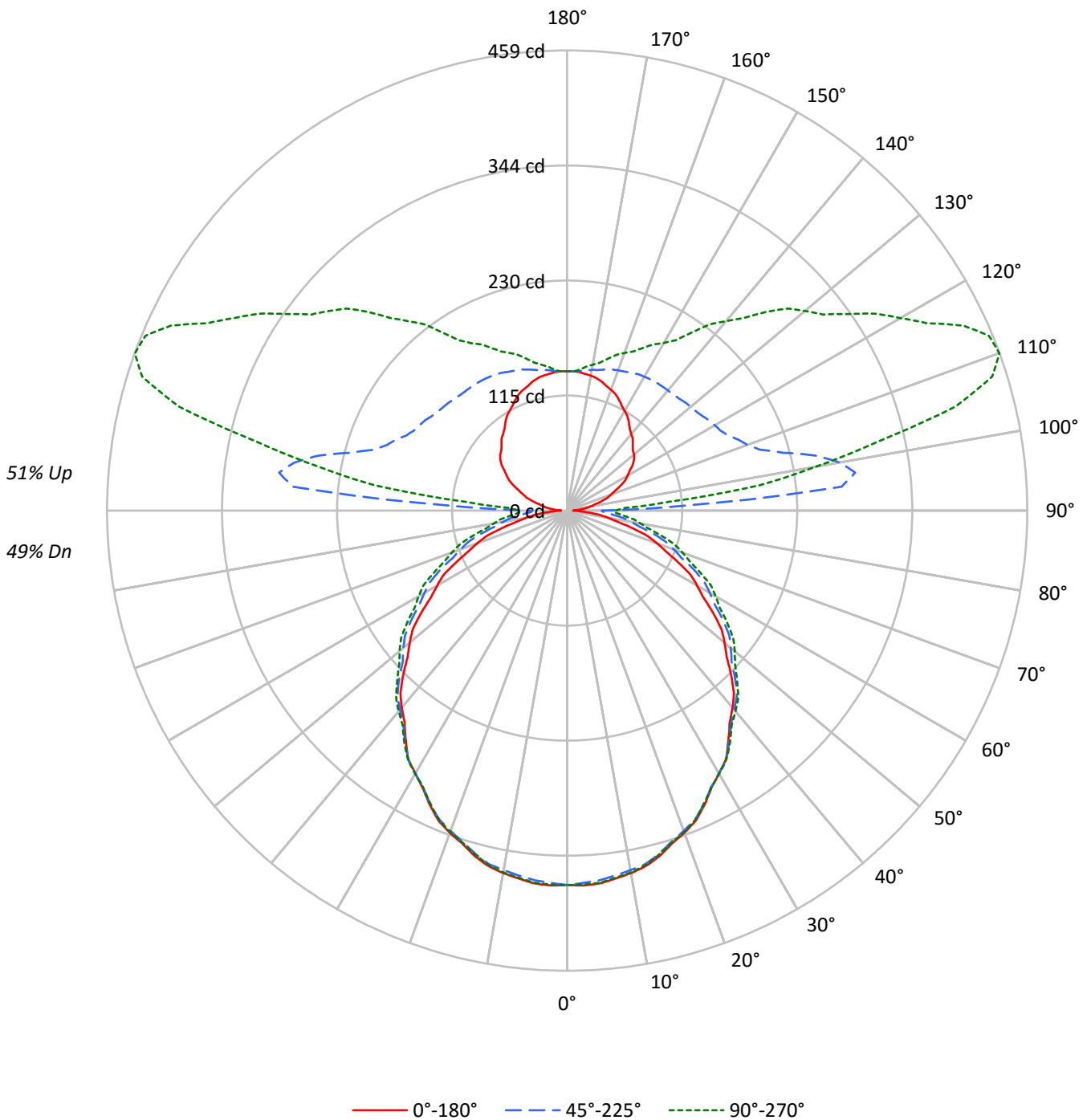
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	49
1	97	92	88	84	89	85	82	78	72	69	67		59	57	56		48	47	45	40
2	88	80	74	68	81	74	68	64	62	58	55		52	49	46		42	40	38	33
3	80	70	63	57	73	65	58	53	55	50	46		45	42	39		37	34	32	28
4	73	62	54	48	67	57	50	45	49	43	39		40	36	33		33	30	27	23
5	67	55	47	41	61	51	44	38	43	38	33		36	32	28		29	26	24	20
6	62	49	41	35	57	46	38	33	39	33	29		33	28	25		27	23	21	18
7	57	44	36	31	52	41	34	29	35	30	25		30	25	22		24	21	18	16
8	53	40	32	27	49	38	30	26	32	26	22		27	23	19		22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20		25	20	17		21	17	15	13
10	46	34	26	22	42	31	25	20	27	22	18		23	19	16		19	16	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	1.6
10°-20°	100.2	4.6
20°-30°	149.1	6.8
30°-40°	176.6	8.0
40°-50°	182.6	8.3
50°-60°	168.2	7.6
60°-70°	135.9	6.2
70°-80°	91.0	4.1
80°-90°	48.0	2.2
90°-100°	127.1	5.8
100°-110°	235.9	10.7
110°-120°	216.2	9.8
120°-130°	172.0	7.8
130°-140°	135.3	6.2
140°-150°	100.3	4.6
150°-160°	70.2	3.2
160°-170°	41.4	1.9
170°-180°	13.5	0.6
0°-30°	284.6	12.9
0°-40°	461.2	21.0
0°-60°	812.0	36.9
0°-90°	1087.0	49.4
90°-120°	579.2	26.3
90°-150°	986.9	44.9
90°-180°	1112.0	50.6
0°-180°	2198.8	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	4
95°	14	42	275	147	103	14
105°	35	54	223	427	401	37
115°	59	73	177	372	436	58
125°	80	93	165	294	342	71
135°	92	111	158	242	280	72
145°	107	122	156	196	217	67
155°	122	131	152	171	179	56
165°	133	137	146	154	157	38
175°	139	139	140	141	141	13
180°	139	139	139	139	139	



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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	14.1	16.9	19.6	22.3	25.1	27.9	30.8	33.6	36.5	38.4
90°	6.1	9.0	12.2	15.4	18.5	21.8	24.8	28.1	31.2	34.5	36.7
92.5°	8.7	11.8	16.6	22.5	29.7	40.5	58.6	87.1	117.7	119.1	103.7
95°	14.0	16.4	20.8	25.9	34.2	49.3	82.0	146.3	226.4	274.8	271.2
97.5°	19.6	21.9	25.3	30.3	37.8	49.2	71.6	119.5	203.0	289.8	333.7
100°	23.6	25.9	28.8	33.5	40.6	51.1	69.9	108.9	182.1	276.2	347.9
102.5°	28.0	29.9	32.4	37.3	43.7	54.0	71.0	104.1	166.2	253.8	337.3
105°	34.9	36.2	38.9	43.0	48.8	58.5	73.3	100.6	149.8	223.1	305.1
107.5°	41.7	43.3	45.8	49.2	54.9	63.7	78.0	101.6	142.1	201.7	272.7
110°	46.5	48.1	50.1	53.6	58.9	67.7	81.5	103.1	139.3	191.3	253.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	51.7	53.0	54.7	58.0	63.0	71.5	84.8	105.2	138.2	184.8	239.7
115°	58.8	59.9	61.3	64.4	69.2	77.5	90.0	108.3	137.3	177.2	223.8
117.5°	65.1	66.3	67.6	70.5	75.7	83.6	95.4	112.2	137.5	172.6	213.5
120°	69.6	70.7	72.0	74.8	79.8	87.9	99.5	114.9	138.2	170.1	207.6
122.5°	74.0	74.7	75.7	78.3	83.7	91.7	103.2	117.8	138.7	167.8	202.3
125°	79.9	80.3	81.7	84.1	89.4	97.4	108.2	121.9	139.7	164.6	195.0
127.5°	84.1	84.9	86.6	89.8	95.3	103.2	113.4	125.9	141.3	162.3	188.2
130°	87.1	87.8	90.0	93.6	99.3	107.1	116.9	128.7	142.4	161.0	183.9
132.5°	89.0	90.1	92.7	96.8	102.9	110.6	120.2	130.9	143.5	159.8	180.1
135°	92.5	93.6	96.9	101.2	107.1	114.9	124.1	134.0	144.9	158.0	175.1
137.5°	97.0	97.8	100.9	105.4	111.1	118.9	127.1	136.3	146.4	157.0	170.8
140°	99.5	100.3	103.7	108.1	113.4	121.0	129.3	137.8	146.8	156.4	168.5
142.5°	102.6	103.1	106.2	110.7	115.7	122.8	130.5	138.4	146.9	156.1	166.7
145°	107.3	107.8	110.5	114.3	119.3	125.7	133.0	140.0	147.5	155.7	164.5
147.5°	111.9	112.2	114.6	118.3	122.6	128.3	134.7	141.0	147.8	155.0	162.5
150°	114.8	115.3	117.3	121.0	124.8	129.6	135.8	141.6	147.8	154.2	161.0
152.5°	118.0	118.3	120.0	123.2	126.9	131.2	136.9	142.1	147.6	153.4	159.4
155°	122.1	122.1	123.7	126.5	129.4	133.2	138.0	142.5	146.9	151.8	156.8
157.5°	125.8	125.7	127.1	129.4	131.9	134.9	138.9	142.8	146.2	150.0	154.3
160°	128.3	127.9	129.0	131.0	133.2	135.8	139.4	142.8	145.6	148.9	152.3
162.5°	130.2	130.0	131.1	132.8	134.6	136.7	139.9	142.6	144.9	147.6	150.5
165°	133.2	132.7	133.6	134.9	136.1	137.8	140.0	142.2	143.9	145.6	147.8
167.5°	135.3	135.0	135.5	136.3	137.0	138.2	140.0	141.6	142.4	143.6	145.2
170°	136.7	136.3	136.7	137.2	137.8	138.6	140.0	141.1	141.6	142.5	143.6
172.5°	137.5	137.0	137.3	137.8	138.2	138.6	139.7	140.7	140.8	141.2	142.0
175°	138.6	138.0	138.3	138.6	138.6	138.6	139.4	140.0	139.7	139.7	140.0
177.5°	139.1	138.6	138.6	138.9	138.6	138.6	139.1	139.3	138.9	138.9	139.1
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9



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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	45.6	46.1	46.7	47.3	47.8
90°	38.8	41.0	43.1	44.9	45.5	46.0	46.9	47.5
92.5°	82.1	70.3	63.1	60.2	57.2	57.1	57.3	57.4
95°	231.6	190.8	158.2	135.9	116.5	108.7	107.0	103.1
97.5°	328.1	300.0	268.2	236.5	219.8	204.7	197.1	194.1
100°	371.2	359.2	332.1	304.0	285.2	265.5	255.7	251.7
102.5°	384.9	395.0	382.9	364.2	344.0	330.2	319.4	316.6
105°	373.9	413.9	427.9	425.9	417.5	408.8	403.8	401.0
107.5°	340.6	393.3	426.6	442.3	447.3	447.7	446.4	444.7
110°	315.9	370.7	411.7	436.6	449.7	455.6	458.1	458.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	296.3	348.2	389.7	418.7	437.8	447.4	452.9	455.4
115°	271.4	316.2	356.1	387.6	410.0	423.8	432.1	436.3
117.5°	254.6	293.4	327.8	356.8	379.1	393.6	402.0	404.7
120°	245.3	280.4	312.5	338.1	359.3	373.2	381.3	384.0
122.5°	238.1	270.5	299.2	323.2	342.1	355.0	363.1	365.5
125°	227.4	257.3	283.0	304.0	320.0	331.9	338.5	341.7
127.5°	216.6	244.5	268.4	288.1	302.8	313.4	319.7	321.4
130°	210.0	235.8	258.7	277.7	292.2	301.7	307.8	309.8
132.5°	203.2	227.4	248.4	266.6	281.0	290.6	296.0	298.3
135°	194.0	214.4	233.4	250.1	262.8	272.4	277.9	280.0
137.5°	186.3	203.0	218.8	233.0	244.3	253.0	258.0	260.2
140°	182.0	196.1	209.8	222.2	232.9	240.4	245.0	246.7
142.5°	178.2	190.1	202.0	212.7	221.8	228.3	232.6	234.1
145°	173.6	182.7	191.7	199.6	206.7	211.8	215.2	216.7
147.5°	169.4	176.6	183.4	189.3	194.7	198.7	200.6	201.3
150°	167.2	173.3	178.6	183.7	188.0	191.4	192.7	193.0
152.5°	164.9	170.4	175.2	179.2	182.8	185.4	186.6	186.9
155°	161.5	166.0	169.9	173.0	175.8	177.8	178.6	178.9
157.5°	158.2	161.8	164.9	167.3	169.5	171.1	171.9	171.8
160°	156.0	158.8	161.5	163.5	165.5	166.8	167.4	167.2
162.5°	153.4	156.1	158.4	160.2	161.7	162.8	163.0	162.9
165°	150.0	152.0	153.7	155.1	156.2	156.8	156.8	156.8
167.5°	146.8	148.1	149.4	150.4	151.0	151.5	151.2	151.1
170°	145.0	145.8	146.7	147.3	147.8	148.1	148.1	147.8
172.5°	143.0	143.9	144.5	144.8	144.9	145.4	145.0	144.7
175°	140.9	140.9	141.4	141.4	141.4	141.6	141.1	140.9
177.5°	139.3	139.5	139.5	139.5	139.3	139.5	138.9	138.9
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9

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