

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: P333120-930

Luminaire Tested: **S125DIP-S375D365U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333120-930
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-S375D365U930-4F0-1E-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: 2262.9 lumens
Efficiency: N/A
Efficacy: 111.5 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

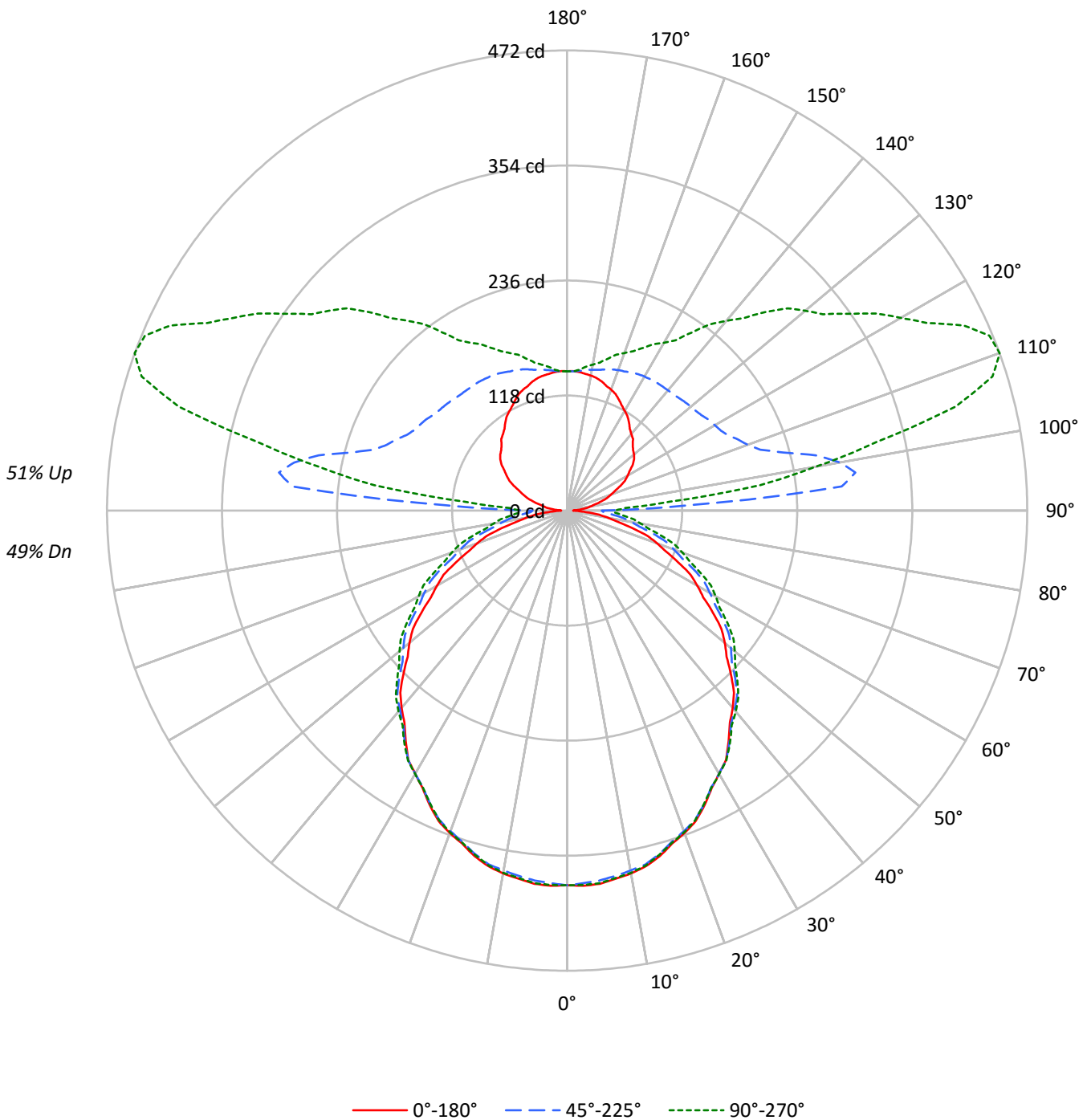
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.6
10°-20°	103.2	4.6
20°-30°	153.4	6.8
30°-40°	181.7	8.0
40°-50°	187.9	8.3
50°-60°	173.1	7.6
60°-70°	139.9	6.2
70°-80°	93.7	4.1
80°-90°	49.4	2.2
90°-100°	130.9	5.8
100°-110°	242.8	10.7
110°-120°	222.5	9.8
120°-130°	177.0	7.8
130°-140°	139.3	6.2
140°-150°	103.2	4.6
150°-160°	72.2	3.2
160°-170°	42.6	1.9
170°-180°	13.8	0.6
0°-30°	292.9	12.9
0°-40°	474.7	21.0
0°-60°	835.7	36.9
0°-90°	1118.7	49.4
90°-120°	596.1	26.3
90°-150°	1015.7	44.9
90°-180°	1144.0	50.6
0°-180°	2262.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	6	21	36	45	49	5
95°	14	43	283	151	106	14
105°	36	55	230	439	413	38
115°	60	75	182	383	449	60
125°	82	96	169	302	352	73
135°	95	114	163	249	288	74
145°	110	126	160	201	223	69
155°	126	135	156	176	184	58
165°	137	141	150	159	161	39
175°	143	143	144	146	145	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	11.8	14.5	17.4	20.1	22.9	25.8	28.7	31.7	34.6	37.6	39.5
90°	6.3	9.3	12.6	15.8	19.1	22.4	25.5	28.9	32.1	35.5	37.7
92.5°	9.0	12.1	17.0	23.2	30.6	41.7	60.3	89.6	121.2	122.6	106.7
95°	14.4	16.9	21.4	26.7	35.2	50.7	84.4	150.6	233.0	282.8	279.2
97.5°	20.2	22.5	26.1	31.2	38.9	50.6	73.7	122.9	208.9	298.2	343.5
100°	24.3	26.7	29.6	34.5	41.7	52.6	72.0	112.1	187.4	284.3	358.1
102.5°	28.9	30.8	33.3	38.4	45.0	55.6	73.1	107.1	171.0	261.2	347.2
105°	36.0	37.3	40.0	44.3	50.2	60.3	75.4	103.5	154.2	229.6	314.0
107.5°	42.9	44.6	47.1	50.6	56.5	65.6	80.2	104.6	146.3	207.6	280.6
110°	47.9	49.5	51.6	55.2	60.6	69.7	83.9	106.1	143.3	196.9	261.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	53.2	54.5	56.3	59.7	64.8	73.6	87.2	108.3	142.2	190.2	246.7
115°	60.5	61.6	63.1	66.3	71.2	79.7	92.6	111.5	141.3	182.4	230.3
117.5°	67.0	68.2	69.5	72.6	77.9	86.0	98.2	115.4	141.5	177.7	219.7
120°	71.6	72.7	74.1	77.0	82.1	90.4	102.4	118.2	142.3	175.0	213.6
122.5°	76.1	76.9	77.9	80.6	86.1	94.3	106.2	121.2	142.8	172.7	208.2
125°	82.2	82.7	84.1	86.6	92.0	100.2	111.4	125.5	143.8	169.4	200.7
127.5°	86.6	87.4	89.1	92.4	98.1	106.2	116.8	129.6	145.4	167.1	193.7
130°	89.6	90.3	92.6	96.3	102.2	110.2	120.3	132.5	146.6	165.7	189.3
132.5°	91.6	92.7	95.4	99.6	105.9	113.8	123.7	134.8	147.7	164.4	185.3
135°	95.2	96.4	99.7	104.2	110.2	118.2	127.8	137.9	149.1	162.7	180.2
137.5°	99.9	100.7	103.9	108.4	114.3	122.4	130.8	140.2	150.7	161.6	175.8
140°	102.4	103.2	106.7	111.3	116.8	124.6	133.1	141.8	151.1	160.9	173.4
142.5°	105.6	106.2	109.3	113.9	119.0	126.4	134.3	142.4	151.2	160.6	171.5
145°	110.5	111.0	113.7	117.6	122.8	129.4	136.9	144.1	151.8	160.2	169.3
147.5°	115.1	115.4	118.0	121.7	126.2	132.0	138.6	145.1	152.1	159.5	167.2
150°	118.1	118.7	120.7	124.5	128.5	133.4	139.7	145.8	152.1	158.7	165.7
152.5°	121.4	121.7	123.5	126.8	130.6	135.0	140.9	146.3	151.9	157.8	164.0
155°	125.6	125.6	127.3	130.2	133.1	137.1	142.0	146.7	151.2	156.2	161.3
157.5°	129.5	129.4	130.8	133.2	135.7	138.8	143.0	146.9	150.5	154.4	158.8
160°	132.0	131.7	132.8	134.9	137.1	139.7	143.5	146.9	149.9	153.3	156.8
162.5°	134.0	133.8	134.9	136.7	138.5	140.6	144.0	146.8	149.1	151.9	154.9
165°	137.1	136.6	137.5	138.8	140.1	141.8	144.1	146.3	148.1	149.9	152.1
167.5°	139.3	138.9	139.5	140.2	141.0	142.2	144.1	145.7	146.5	147.8	149.4
170°	140.6	140.3	140.6	141.2	141.8	142.6	144.1	145.2	145.8	146.7	147.8
172.5°	141.5	141.0	141.3	141.9	142.2	142.6	143.8	144.8	144.9	145.3	146.2
175°	142.6	142.0	142.4	142.6	142.6	142.6	143.5	144.1	143.8	143.8	144.1
177.5°	143.2	142.7	142.7	142.9	142.7	142.7	143.2	143.4	142.9	142.9	143.2
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	41.5	43.5	45.5	46.9	47.5	48.0	48.7	49.2
90°	39.9	42.2	44.4	46.2	46.8	47.4	48.3	48.8
92.5°	84.5	72.3	65.0	62.0	58.9	58.8	58.9	59.1
95°	238.4	196.4	162.8	139.8	119.9	111.9	110.1	106.2
97.5°	337.7	308.8	276.0	243.4	226.2	210.7	202.8	199.7
100°	382.0	369.7	341.8	312.9	293.5	273.3	263.2	259.0
102.5°	396.2	406.5	394.0	374.8	354.1	339.8	328.7	325.8
105°	384.8	426.0	440.3	438.3	429.7	420.7	415.6	412.7
107.5°	350.5	404.8	439.0	455.2	460.3	460.8	459.4	457.6
110°	325.1	381.5	423.7	449.3	462.8	468.9	471.5	472.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	304.9	358.4	401.0	431.0	450.5	460.5	466.1	468.7
115°	279.3	325.5	366.5	398.9	421.9	436.2	444.7	449.1
117.5°	262.0	302.0	337.4	367.2	390.2	405.1	413.7	416.5
120°	252.5	288.5	321.6	348.0	369.8	384.1	392.4	395.2
122.5°	245.0	278.3	307.9	332.6	352.1	365.3	373.7	376.2
125°	234.1	264.8	291.2	312.8	329.4	341.6	348.4	351.7
127.5°	222.9	251.6	276.2	296.5	311.6	322.5	329.1	330.8
130°	216.1	242.6	266.3	285.8	300.7	310.5	316.7	318.9
132.5°	209.1	234.1	255.7	274.4	289.2	299.1	304.7	307.0
135°	199.7	220.6	240.2	257.4	270.4	280.4	286.0	288.1
137.5°	191.8	208.9	225.2	239.8	251.4	260.4	265.5	267.8
140°	187.3	201.8	215.9	228.7	239.7	247.4	252.2	253.9
142.5°	183.4	195.7	207.9	218.9	228.3	235.0	239.4	240.9
145°	178.6	188.0	197.3	205.5	212.7	217.9	221.4	223.0
147.5°	174.4	181.7	188.7	194.8	200.4	204.5	206.4	207.2
150°	172.0	178.4	183.8	189.1	193.5	197.0	198.3	198.6
152.5°	169.7	175.4	180.3	184.4	188.1	190.9	192.0	192.3
155°	166.2	170.9	174.9	178.1	180.9	183.0	183.8	184.1
157.5°	162.8	166.6	169.7	172.2	174.5	176.1	176.9	176.8
160°	160.5	163.4	166.2	168.3	170.3	171.7	172.3	172.0
162.5°	157.9	160.6	163.1	164.9	166.4	167.5	167.7	167.6
165°	154.4	156.5	158.2	159.6	160.8	161.3	161.3	161.3
167.5°	151.1	152.5	153.8	154.8	155.4	155.9	155.6	155.6
170°	149.3	150.1	151.0	151.6	152.1	152.5	152.5	152.1
172.5°	147.2	148.1	148.7	149.0	149.1	149.7	149.2	148.9
175°	145.0	145.0	145.5	145.5	145.5	145.8	145.2	145.0
177.5°	143.4	143.6	143.6	143.6	143.4	143.6	142.9	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9

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