

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: P333349-935

Luminaire Tested: **S125DIW-S375D770U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333349-935
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-S375D770U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

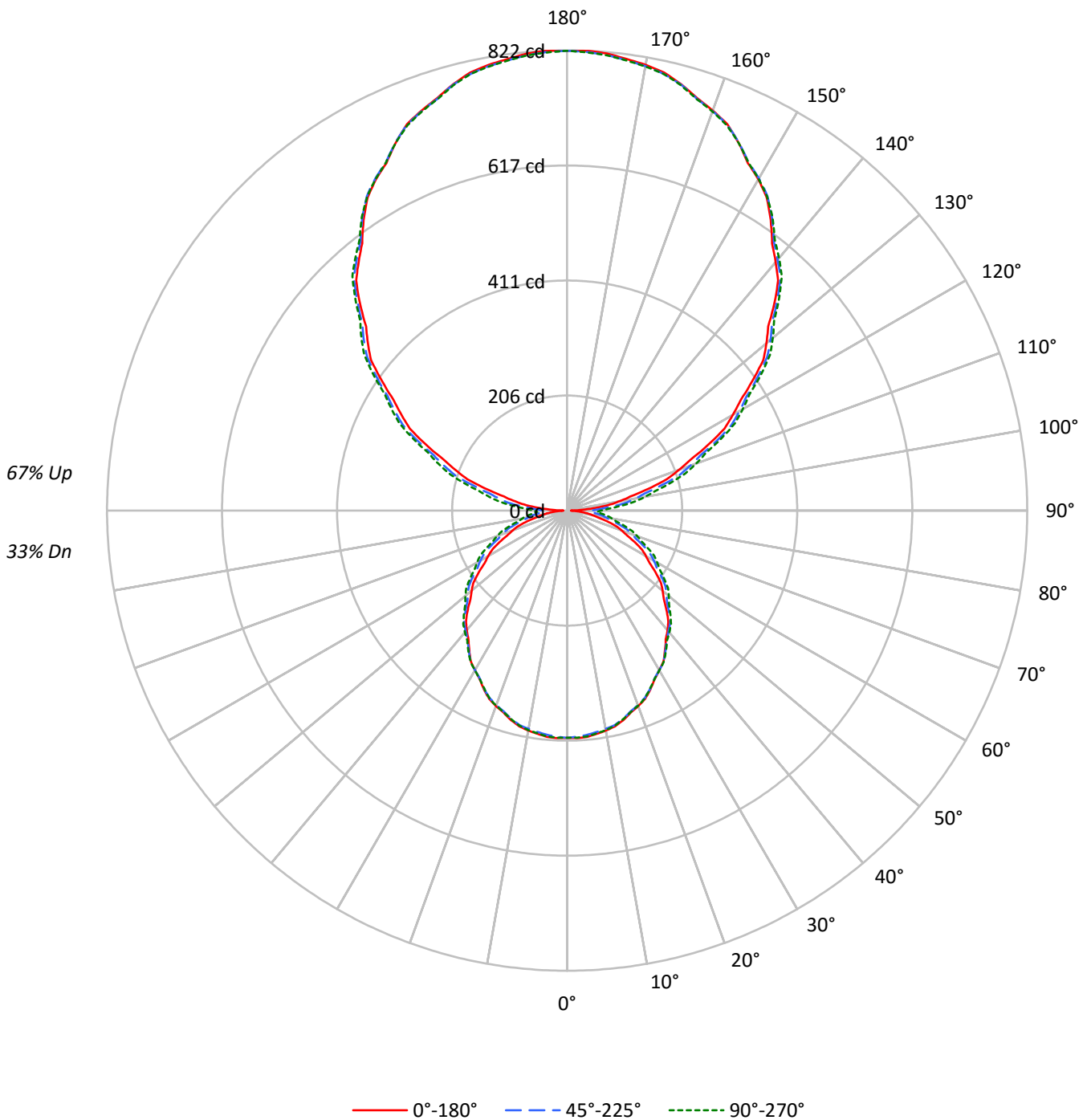
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	89	85	82	84	80	77	74	64	62	60	49	48	46	35	34	33	27
2	85	77	71	66	76	70	65	60	56	52	49	43	40	38	31	29	28	22
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	23	19
4	71	60	52	46	63	54	47	42	43	38	35	33	30	27	24	22	20	16
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17	14
6	59	48	40	34	53	43	36	31	35	30	26	27	23	20	20	17	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13	11
8	51	39	31	26	46	35	28	24	28	23	20	22	19	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	13	11	8
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2621	2621	2621
5°	2627	2573	2581
10°	2608	2527	2523
15°	2577	2472	2450
20°	2535	2404	2376
25°	2485	2331	2285
30°	2425	2251	2203
35°	2369	2178	2127
40°	2312	2100	2051
45°	2247	2033	1983
50°	2184	1962	1924
55°	2110	1894	1854
60°	2028	1817	1782
65°	1944	1736	1703
70°	1849	1625	1620
75°	1695	1518	1517
80°	1493	1389	1408
85°	1311	1301	1373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	1.1
10°-20°	108.9	3.1
20°-30°	162.0	4.6
30°-40°	191.9	5.4
40°-50°	198.4	5.6
50°-60°	182.8	5.1
60°-70°	147.8	4.2
70°-80°	99.0	2.8
80°-90°	53.1	1.5
90°-100°	83.8	2.4
100°-110°	183.7	5.2
110°-120°	289.4	8.1
120°-130°	370.2	10.4
130°-140°	409.3	11.5
140°-150°	398.4	11.2
150°-160°	334.0	9.4
160°-170°	222.0	6.3
170°-180°	77.7	2.2
0°-30°	309.4	8.7
0°-40°	501.3	14.1
0°-60°	882.5	24.9
0°-90°	1182.3	33.3
90°-120°	556.9	15.7
90°-150°	1734.7	48.9
90°-180°	2368.0	66.7
0°-180°	3550.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	405	38
15°	388	388	385	387	386	109
25°	352	353	351	352	351	162
35°	305	307	306	308	308	191
45°	251	255	257	260	261	194
55°	193	199	206	210	212	172
65°	133	142	152	157	159	132
75°	73	84	96	104	106	78
85°	22	35	49	57	61	23
90°	7	25	43	55	60	7
95°	47	59	78	91	96	48
105°	149	159	175	186	191	159
115°	278	284	295	301	303	275
125°	404	407	416	421	422	361
135°	524	527	530	535	535	403
145°	634	636	638	640	640	396
155°	725	725	726	728	725	334
165°	788	787	788	790	786	222
175°	819	817	817	820	816	78
180°	821	821	821	821	821	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	406.8	406.7	406.6	406.4	406.3	406.0	405.4	404.9	404.5	404.0	404.5
5°	405.9	405.7	405.5	405.4	405.2	404.8	404.2	403.6	402.9	402.3	403.0
7.5°	402.3	402.3	402.2	402.1	402.0	401.7	401.1	400.4	399.8	399.1	399.8
10°	399.1	399.1	399.1	399.1	399.1	398.7	398.0	397.4	396.7	395.9	396.6
12.5°	394.7	394.8	394.8	394.9	394.9	394.7	394.2	393.6	393.0	392.4	392.9
15°	387.5	387.6	387.7	387.9	388.0	387.6	387.0	386.4	385.8	385.2	385.7
17.5°	378.3	378.5	378.7	378.8	379.0	378.8	378.2	377.5	376.9	376.3	376.8
20°	371.7	371.9	372.0	372.2	372.4	372.1	371.5	370.9	370.3	369.6	370.0
22.5°	364.0	364.4	364.6	365.0	365.3	365.1	364.4	363.7	363.0	362.3	362.7
25°	352.1	352.4	352.7	352.9	353.2	353.1	352.6	352.1	351.5	350.9	351.3
27.5°	339.0	339.3	339.8	340.1	340.5	340.4	339.8	339.2	338.6	338.0	338.2
30°	329.1	329.6	330.1	330.7	331.2	331.2	330.7	330.1	329.6	329.1	329.2
32.5°	320.2	320.6	321.1	321.6	322.0	322.0	321.7	321.2	320.9	320.5	320.6
35°	304.8	305.4	306.1	306.7	307.3	307.5	307.2	306.9	306.7	306.4	306.7
37.5°	289.5	290.0	290.6	291.1	291.7	292.0	291.9	291.8	291.7	291.6	292.0
40°	279.0	279.7	280.3	281.0	281.8	282.1	282.0	281.9	281.8	281.7	282.1
42.5°	267.5	268.4	269.3	270.3	271.1	271.7	271.9	272.1	272.3	272.5	272.9
45°	251.1	252.1	253.0	254.0	254.9	255.7	256.1	256.6	257.0	257.4	258.0
47.5°	234.3	235.2	236.1	237.0	237.9	238.8	239.5	240.2	241.0	241.8	242.7
50°	222.8	223.8	224.8	225.8	226.7	227.7	228.7	229.6	230.6	231.6	232.6
52.5°	210.8	211.9	213.1	214.3	215.5	216.6	217.8	219.0	220.2	221.4	222.5
55°	193.0	194.4	195.8	197.3	198.6	200.1	201.5	202.9	204.3	205.7	206.7
57.5°	174.9	176.5	178.2	179.9	181.7	183.3	184.9	186.6	188.2	189.8	190.9
60°	162.7	164.5	166.3	168.1	169.8	171.6	173.3	175.1	176.9	178.7	179.9
62.5°	150.9	152.7	154.5	156.3	158.1	159.9	161.8	163.7	165.7	167.6	169.0
65°	132.9	134.9	137.0	139.0	141.0	143.1	145.3	147.4	149.5	151.6	152.9
67.5°	115.9	117.9	119.8	121.7	123.7	125.8	127.9	130.1	132.2	134.4	136.0
70°	103.5	105.5	107.5	109.5	111.6	113.7	116.1	118.4	120.6	123.0	124.7
72.5°	91.4	93.5	95.6	97.6	99.8	102.1	104.6	107.1	109.6	112.1	114.0
75°	73.2	75.5	77.8	80.1	82.4	85.0	87.8	90.7	93.5	96.3	98.1
77.5°	55.8	58.5	61.1	63.7	66.4	69.1	71.8	74.6	77.2	80.0	82.0
80°	44.9	47.6	50.3	53.0	55.5	58.4	61.4	64.4	67.4	70.4	72.4
82.5°	35.1	37.9	40.7	43.5	46.2	49.2	52.3	55.4	58.5	61.5	63.4
85°	21.9	24.8	27.7	30.7	33.6	36.6	39.7	42.8	45.9	48.9	50.9
87.5°	12.6	15.6	18.7	21.7	24.8	27.9	31.1	34.4	37.5	40.7	42.9
90°	7.0	10.9	14.9	18.9	22.9	26.9	30.8	34.9	38.8	42.9	45.6
92.5°	21.2	24.6	28.0	31.4	34.9	38.7	43.0	47.3	51.6	55.9	58.8
95°	46.8	49.3	51.9	54.5	57.1	60.5	65.0	69.4	73.9	78.3	81.2
97.5°	73.7	75.9	78.1	80.2	82.5	86.0	90.8	95.7	100.6	105.4	108.2
100°	93.8	95.7	97.6	99.4	101.3	104.5	109.3	113.9	118.6	123.3	126.4
102.5°	115.5	117.8	120.1	122.3	124.7	127.7	131.4	135.0	138.7	142.4	145.6
105°	149.3	151.4	153.6	155.7	157.8	160.7	164.1	167.6	171.2	174.6	177.3
107.5°	186.7	188.6	190.5	192.4	194.3	196.9	200.1	203.3	206.5	209.7	211.9
110°	212.4	214.2	215.9	217.7	219.6	221.9	224.7	227.6	230.6	233.5	235.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	239.0	240.2	241.4	242.7	243.9	246.0	248.9	251.8	254.8	257.8	259.6
115°	277.8	279.1	280.3	281.5	282.6	284.5	287.1	289.6	292.2	294.8	296.3
117.5°	316.8	317.5	318.1	318.8	319.5	321.1	323.5	325.9	328.3	330.8	332.3
120°	341.4	342.3	343.4	344.3	345.3	346.9	349.0	351.2	353.4	355.6	357.1
122.5°	367.6	368.0	368.4	368.8	369.2	370.5	372.9	375.2	377.5	379.9	381.2
125°	403.6	404.4	405.2	405.9	406.7	408.0	409.9	411.8	413.7	415.7	416.8
127.5°	441.6	442.0	442.4	442.7	443.2	444.2	445.7	447.4	449.0	450.6	451.9
130°	464.6	465.2	465.8	466.5	467.1	468.1	469.7	471.2	472.7	474.2	475.4
132.5°	487.2	488.4	489.6	490.7	491.9	492.9	493.8	494.6	495.6	496.5	497.6
135°	523.7	524.4	525.1	525.9	526.7	527.4	528.2	529.0	529.7	530.5	531.7
137.5°	557.8	558.5	559.3	560.1	560.9	561.5	562.1	562.7	563.4	564.0	565.2
140°	579.5	580.2	580.9	581.6	582.3	582.9	583.4	583.9	584.4	585.0	586.3
142.5°	601.5	602.0	602.5	603.0	603.6	604.1	604.7	605.2	605.8	606.3	607.3
145°	633.8	634.3	634.7	635.2	635.8	636.2	636.6	637.1	637.5	637.9	638.3
147.5°	663.3	663.7	663.9	664.3	664.6	664.9	665.2	665.6	665.9	666.2	666.8
150°	683.3	683.1	682.9	682.9	682.7	682.9	683.5	684.1	684.6	685.2	685.2
152.5°	699.6	699.8	700.0	700.3	700.4	700.6	700.9	701.1	701.3	701.5	701.9
155°	724.8	724.8	724.8	724.8	724.8	724.9	725.0	725.1	725.3	725.5	726.0
157.5°	747.3	747.0	746.7	746.4	746.1	746.0	746.1	746.2	746.4	746.6	747.1
160°	760.6	760.2	759.7	759.3	758.9	758.7	758.9	759.1	759.1	759.3	759.9
162.5°	772.4	772.1	771.7	771.5	771.1	770.9	771.0	771.0	771.0	771.1	771.8
165°	788.1	787.8	787.6	787.2	787.0	786.9	787.0	787.1	787.3	787.5	788.0
167.5°	801.4	800.8	800.2	799.7	799.1	798.8	798.8	798.8	798.8	798.8	799.7
170°	808.6	808.0	807.4	806.8	806.2	806.0	806.0	806.0	806.0	806.0	806.8
172.5°	813.6	813.0	812.5	811.9	811.4	811.1	811.1	811.1	811.1	811.1	811.9
175°	819.4	818.8	818.3	817.7	817.1	816.8	816.8	816.8	816.8	816.8	817.7
177.5°	822.3	821.9	821.4	821.0	820.5	820.3	820.1	820.0	819.9	819.8	820.4
180°	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	404.9	405.4	406.0	406.1	406.0	406.0	406.0	405.9
5°	403.7	404.4	405.1	405.4	405.4	405.3	405.2	405.1
7.5°	400.4	401.0	401.6	401.8	401.7	401.7	401.6	401.5
10°	397.2	397.8	398.4	398.6	398.6	398.5	398.4	398.3
12.5°	393.4	393.8	394.3	394.4	394.3	394.0	393.7	393.6
15°	386.2	386.8	387.3	387.4	387.0	386.7	386.3	386.0
17.5°	377.2	377.5	378.0	378.1	377.9	377.6	377.5	377.2
20°	370.2	370.5	370.7	370.8	370.8	370.8	370.8	370.8
22.5°	363.0	363.3	363.7	363.8	363.5	363.3	363.1	362.9
25°	351.6	352.1	352.4	352.3	351.9	351.5	351.0	350.6
27.5°	338.5	338.7	339.0	339.1	338.9	338.7	338.5	338.4
30°	329.4	329.6	329.8	329.8	329.8	329.7	329.6	329.5
32.5°	320.8	321.0	321.2	321.2	321.2	321.1	321.0	320.9
35°	306.9	307.2	307.5	307.5	307.5	307.5	307.5	307.5
37.5°	292.3	292.7	293.0	293.2	293.2	293.1	293.1	293.0
40°	282.4	282.8	283.2	283.4	283.6	283.8	284.0	284.1
42.5°	273.4	273.8	274.2	274.4	274.5	274.5	274.5	274.6
45°	258.7	259.3	259.9	260.3	260.4	260.5	260.5	260.6
47.5°	243.6	244.5	245.4	245.9	246.2	246.3	246.5	246.7
50°	233.5	234.5	235.5	236.1	236.3	236.6	236.9	237.1
52.5°	223.5	224.5	225.6	226.2	226.4	226.6	226.8	227.0
55°	207.7	208.6	209.7	210.3	210.6	210.9	211.4	211.7
57.5°	192.0	193.1	194.2	194.9	195.2	195.4	195.8	196.0
60°	181.3	182.6	184.0	184.8	185.0	185.3	185.5	185.8
62.5°	170.5	171.9	173.4	174.3	174.6	175.0	175.3	175.6
65°	154.3	155.6	156.9	157.7	158.1	158.4	158.9	159.2
67.5°	137.7	139.2	140.9	141.9	142.3	142.8	143.3	143.7
70°	126.3	128.0	129.7	130.8	131.3	131.8	132.3	132.9
72.5°	115.8	117.6	119.4	120.5	120.9	121.3	121.7	122.1
75°	99.9	101.6	103.4	104.4	105.0	105.4	105.8	106.2
77.5°	83.9	85.8	87.7	88.9	89.3	89.6	90.0	90.3
80°	74.3	76.3	78.2	79.4	79.7	80.1	80.4	80.8
82.5°	65.3	67.2	69.1	70.3	70.9	71.5	72.2	72.8
85°	52.9	54.8	56.7	58.0	58.7	59.5	60.2	60.9
87.5°	45.1	47.3	49.4	50.9	51.6	52.3	53.0	53.6
90°	48.3	51.1	53.8	55.7	56.7	57.9	58.9	59.9
92.5°	61.7	64.6	67.5	69.4	70.3	71.3	72.2	73.2
95°	84.1	87.0	90.1	92.0	92.8	93.8	94.6	95.6
97.5°	111.0	113.8	116.6	118.4	119.2	119.9	120.7	121.5
100°	129.5	132.7	135.8	137.8	138.6	139.4	140.3	141.0
102.5°	148.8	152.0	155.2	157.2	158.2	159.0	160.0	160.9
105°	179.9	182.5	185.1	186.9	188.0	189.1	190.1	191.1
107.5°	214.0	216.2	218.3	219.7	220.2	220.8	221.3	221.8
110°	237.6	239.8	241.9	243.1	243.7	244.1	244.6	245.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	261.4	263.2	265.0	266.0	266.4	266.8	267.2	267.5
115°	297.7	299.2	300.7	301.5	302.0	302.3	302.7	303.1
117.5°	334.0	335.6	337.3	338.0	338.1	338.1	338.1	338.2
120°	358.6	360.1	361.6	362.3	362.3	362.2	362.2	362.1
122.5°	382.5	383.8	385.1	385.8	385.9	386.0	386.1	386.2
125°	417.9	419.0	420.2	420.9	421.2	421.5	421.8	422.1
127.5°	453.0	454.2	455.3	456.0	456.2	456.5	456.7	456.9
130°	476.4	477.5	478.6	479.2	479.4	479.6	479.7	479.8
132.5°	498.7	499.8	500.8	501.4	501.4	501.4	501.4	501.3
135°	532.8	533.9	535.1	535.6	535.5	535.4	535.2	535.1
137.5°	566.4	567.6	568.8	569.2	568.9	568.5	568.2	567.8
140°	587.5	588.8	590.0	590.5	590.1	589.8	589.4	589.0
142.5°	608.4	609.3	610.4	610.7	610.3	609.9	609.6	609.2
145°	638.8	639.2	639.6	639.8	639.7	639.7	639.6	639.6
147.5°	667.2	667.7	668.2	668.0	667.2	666.4	665.6	664.8
150°	685.2	685.2	685.2	685.1	684.9	684.7	684.5	684.3
152.5°	702.2	702.6	702.9	702.8	702.3	701.8	701.4	700.9
155°	726.6	727.1	727.7	727.6	726.9	726.3	725.5	724.8
157.5°	747.7	748.2	748.8	748.6	747.7	746.7	745.8	744.9
160°	760.4	761.0	761.6	761.6	760.8	760.1	759.4	758.7
162.5°	772.5	773.1	773.8	773.8	772.9	772.1	771.3	770.4
165°	788.6	789.2	789.7	789.5	788.8	787.9	787.0	786.2
167.5°	800.6	801.4	802.2	802.2	801.3	800.5	799.6	798.7
170°	807.7	808.6	809.4	809.3	808.3	807.4	806.3	805.4
172.5°	812.8	813.6	814.5	814.5	813.6	812.7	811.8	811.0
175°	818.6	819.4	820.3	820.2	819.2	818.2	817.2	816.2
177.5°	821.1	821.8	822.5	822.4	821.7	820.9	820.1	819.2
180°	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3

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