

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: P333348

Luminaire Tested: **S125DIW-S375D770U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333348
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: S125DIW-S375D770U835-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4531.6 lumens
Efficiency: N/A
Efficacy: 149.1 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

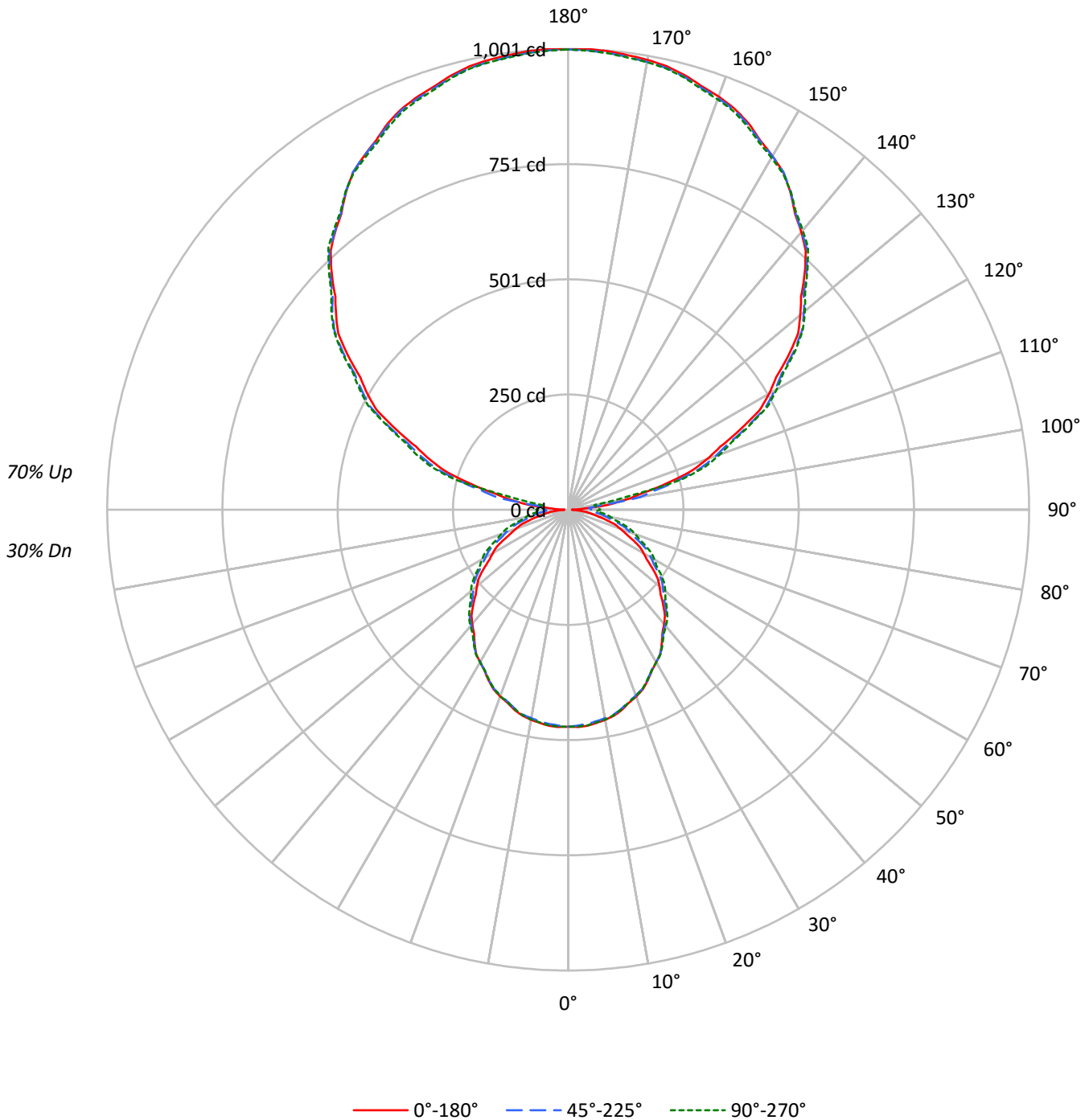
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333348

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Luminous Intensity Polar Plot





TEST NUMBER: P333348

CATALOG NUMBER: S125DIW-S375D770U835-4F0-1E-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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	93	89	85	81	83	80	76	73	63	60	58	47	46	44	33	32	31	25
2	84	77	71	66	75	69	64	60	55	51	48	41	39	37	29	27	26	20
3	77	67	60	54	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	19	14
5	64	53	45	39	57	48	41	36	38	33	29	29	25	22	20	18	16	12
6	59	47	39	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	54	42	35	29	49	38	32	27	31	26	22	23	20	17	17	14	12	10
8	50	38	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	9
9	47	35	28	23	42	32	25	21	25	21	17	20	16	14	14	12	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3044	3044	3044
5°	3051	2988	2998
10°	3028	2935	2930
15°	2993	2871	2845
20°	2945	2792	2759
25°	2886	2707	2654
30°	2816	2615	2559
35°	2751	2529	2470
40°	2685	2439	2382
45°	2609	2362	2304
50°	2537	2279	2234
55°	2450	2199	2154
60°	2356	2110	2070
65°	2259	2016	1977
70°	2147	1887	1882
75°	1968	1763	1763
80°	1736	1613	1635
85°	1520	1511	1594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	126.5	2.8
20°-30°	188.2	4.2
30°-40°	222.9	4.9
40°-50°	230.5	5.1
50°-60°	212.3	4.7
60°-70°	171.6	3.8
70°-80°	114.9	2.5
80°-90°	61.7	1.4
90°-100°	69.8	1.5
100°-110°	248.5	5.5
110°-120°	422.5	9.3
120°-130°	530.5	11.7
130°-140°	564.6	12.5
140°-150°	526.9	11.6
150°-160°	425.6	9.4
160°-170°	275.2	6.1
170°-180°	94.9	2.1
0°-30°	359.3	7.9
0°-40°	582.2	12.8
0°-60°	1025.0	22.6
0°-90°	1373.2	30.3
90°-120°	740.8	16.3
90°-150°	2362.7	52.1
90°-180°	3158.0	69.7
0°-180°	4531.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	471	470	467	471	470	45
15°	450	450	447	450	448	127
25°	409	410	408	409	407	188
35°	354	357	356	357	357	221
45°	292	297	299	302	303	225
55°	224	232	239	244	246	200
65°	154	165	176	183	185	153
75°	85	97	112	121	123	90
85°	25	41	57	67	71	27
90°	8	29	50	64	70	7
95°	48	57	46	59	63	59
105°	222	233	246	255	258	235
115°	412	419	432	436	435	408
125°	584	588	598	602	602	521
135°	726	730	732	736	734	560
145°	842	842	842	845	843	526
155°	926	922	923	925	920	427
165°	977	973	974	978	972	276
175°	1000	995	996	1001	995	95
180°	1000	1000	1000	1000	1000	



TEST NUMBER: P333348

CATALOG NUMBER: S125DIW-S375D770U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	472.5	472.3	472.2	472.0	471.9	471.5	470.9	470.3	469.8	469.2	469.8
5°	471.4	471.2	471.0	470.8	470.6	470.1	469.4	468.7	468.0	467.2	468.1
7.5°	467.2	467.2	467.1	467.0	466.9	466.5	465.8	465.0	464.3	463.5	464.3
10°	463.5	463.5	463.5	463.5	463.5	463.1	462.3	461.5	460.7	459.8	460.6
12.5°	458.4	458.5	458.5	458.6	458.7	458.4	457.8	457.1	456.4	455.8	456.3
15°	450.1	450.2	450.3	450.5	450.6	450.2	449.5	448.8	448.1	447.4	448.0
17.5°	439.4	439.6	439.8	440.0	440.2	440.0	439.3	438.5	437.8	437.1	437.6
20°	431.7	431.9	432.1	432.3	432.5	432.2	431.5	430.8	430.1	429.3	429.7
22.5°	422.8	423.2	423.5	423.9	424.3	424.0	423.2	422.4	421.6	420.8	421.2
25°	409.0	409.3	409.6	409.9	410.2	410.1	409.5	408.9	408.2	407.6	408.0
27.5°	393.7	394.1	394.6	395.0	395.5	395.4	394.7	394.0	393.3	392.6	392.8
30°	382.2	382.8	383.4	384.1	384.7	384.7	384.1	383.4	382.8	382.2	382.4
32.5°	371.9	372.4	372.9	373.5	374.0	374.0	373.6	373.1	372.7	372.2	372.4
35°	354.0	354.7	355.5	356.2	356.9	357.1	356.8	356.5	356.2	355.9	356.2
37.5°	336.2	336.8	337.5	338.1	338.8	339.1	339.0	338.9	338.8	338.7	339.1
40°	324.0	324.8	325.6	326.4	327.3	327.6	327.5	327.4	327.3	327.2	327.6
42.5°	310.7	311.7	312.8	313.9	314.9	315.6	315.8	316.0	316.3	316.5	317.0
45°	291.6	292.8	293.9	295.0	296.1	297.0	297.5	298.0	298.5	299.0	299.7
47.5°	272.1	273.2	274.2	275.3	276.3	277.3	278.2	279.0	279.9	280.8	281.9
50°	258.8	259.9	261.1	262.2	263.3	264.5	265.6	266.7	267.8	269.0	270.1
52.5°	244.8	246.1	247.5	248.9	250.3	251.6	253.0	254.4	255.8	257.1	258.4
55°	224.1	225.8	227.4	229.1	230.7	232.4	234.0	235.6	237.3	238.9	240.1
57.5°	203.1	205.0	207.0	209.0	211.0	212.9	214.8	216.7	218.6	220.4	221.7
60°	189.0	191.1	193.1	195.2	197.2	199.3	201.3	203.4	205.5	207.5	209.0
62.5°	175.3	177.4	179.5	181.5	183.6	185.7	187.9	190.1	192.4	194.6	196.3
65°	154.4	156.7	159.1	161.4	163.8	166.2	168.7	171.2	173.6	176.1	177.6
67.5°	134.6	136.9	139.1	141.4	143.7	146.1	148.6	151.1	153.6	156.1	158.0
70°	120.2	122.5	124.9	127.2	129.6	132.1	134.8	137.5	140.1	142.8	144.8
72.5°	106.1	108.6	111.0	113.4	115.9	118.6	121.5	124.4	127.3	130.2	132.4
75°	85.0	87.7	90.4	93.0	95.7	98.7	102.0	105.3	108.6	111.8	113.9
77.5°	64.8	67.9	71.0	74.0	77.1	80.2	83.4	86.6	89.7	92.9	95.2
80°	52.2	55.3	58.4	61.5	64.5	67.8	71.3	74.8	78.3	81.8	84.1
82.5°	40.8	44.0	47.3	50.5	53.7	57.2	60.7	64.3	67.9	71.4	73.6
85°	25.4	28.8	32.2	35.6	39.0	42.5	46.1	49.7	53.3	56.8	59.1
87.5°	14.6	18.1	21.7	25.2	28.8	32.4	36.1	39.8	43.6	47.3	49.8
90°	8.1	12.7	17.3	21.9	26.6	31.2	35.8	40.5	45.1	49.8	52.9
92.5°	18.1	20.2	22.3	24.4	26.5	29.9	34.5	39.1	43.7	48.3	51.4
95°	48.2	50.4	52.6	54.8	56.9	56.7	53.9	51.1	48.4	45.6	48.7
97.5°	93.6	96.9	100.2	103.5	106.8	103.9	94.9	85.9	76.9	67.9	65.4
100°	128.8	131.5	134.1	136.8	139.4	142.7	146.7	150.6	154.6	158.5	136.1
102.5°	164.6	167.2	169.9	172.5	175.1	178.2	181.8	185.4	189.0	192.6	190.0
105°	222.0	224.3	226.6	228.9	231.2	233.9	237.0	240.1	243.1	246.2	248.3
107.5°	281.6	283.0	284.4	285.8	287.2	289.5	292.8	296.1	299.4	302.7	304.8
110°	320.4	321.6	322.8	324.1	325.3	327.5	330.7	333.9	337.1	340.3	341.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	357.1	358.5	359.9	361.3	362.6	364.8	367.8	370.8	373.8	376.8	378.0
115°	411.8	413.3	414.9	416.4	418.0	420.1	423.0	425.8	428.6	431.5	432.7
117.5°	468.4	468.8	469.3	469.7	470.1	471.9	475.1	478.2	481.4	484.5	485.4
120°	503.9	504.1	504.2	504.4	504.5	506.0	508.9	511.7	514.6	517.4	518.9
122.5°	535.0	535.8	536.5	537.3	538.1	539.7	542.2	544.7	547.2	549.8	551.1
125°	583.5	584.6	585.6	586.7	587.7	589.3	591.3	593.4	595.4	597.5	598.5
127.5°	629.4	630.1	630.9	631.6	632.3	633.5	635.0	636.6	638.2	639.8	641.0
130°	657.9	658.6	659.3	660.0	660.8	661.9	663.5	665.1	666.7	668.3	669.3
132.5°	686.0	686.9	687.8	688.8	689.7	690.5	691.3	692.0	692.8	693.5	694.9
135°	726.3	727.2	728.1	729.0	729.9	730.5	730.9	731.3	731.7	732.1	733.1
137.5°	763.4	764.2	765.0	765.8	766.5	766.9	767.0	767.0	767.1	767.2	768.4
140°	787.4	787.7	788.0	788.4	788.7	788.8	788.8	788.7	788.6	788.6	790.0
142.5°	809.3	809.4	809.5	809.6	809.8	809.9	810.2	810.4	810.7	810.9	812.0
145°	841.5	841.7	841.9	842.1	842.4	842.5	842.5	842.5	842.5	842.5	843.2
147.5°	869.2	869.1	869.0	869.0	868.9	869.0	869.2	869.3	869.5	869.7	870.1
150°	886.9	886.6	886.3	885.9	885.6	885.6	885.9	886.3	886.6	886.9	887.3
152.5°	904.1	903.4	902.7	902.0	901.2	901.0	901.4	901.7	902.0	902.3	902.7
155°	926.2	925.2	924.2	923.2	922.3	921.9	922.3	922.6	922.9	923.2	923.7
157.5°	943.2	942.7	942.1	941.5	940.9	940.6	940.6	940.7	940.7	940.7	941.3
160°	955.1	954.1	953.1	952.1	951.2	950.7	950.9	951.1	951.2	951.4	952.1
162.5°	964.6	963.6	962.6	961.6	960.6	960.2	960.4	960.6	960.7	960.9	961.8
165°	977.3	976.3	975.4	974.4	973.4	973.0	973.1	973.3	973.5	973.6	974.6
167.5°	986.8	985.8	984.8	983.8	982.7	982.3	982.5	982.6	982.8	983.0	984.1
170°	992.2	991.0	989.8	988.7	987.5	987.0	987.2	987.4	987.5	987.7	989.0
172.5°	995.7	994.6	993.4	992.2	991.1	990.7	991.0	991.3	991.6	991.9	993.0
175°	999.6	998.6	997.6	996.6	995.6	995.2	995.4	995.5	995.7	995.9	997.2
177.5°	1001.3	1000.5	999.8	999.0	998.2	997.8	998.0	998.1	998.2	998.4	999.3
180°	999.6	999.6	999.6	999.6	999.6	999.6	999.6	999.6	999.6	999.6	999.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	470.3	470.9	471.5	471.7	471.6	471.6	471.5	471.4
5°	468.9	469.7	470.5	470.9	470.8	470.7	470.6	470.5
7.5°	465.0	465.7	466.4	466.7	466.6	466.5	466.4	466.3
10°	461.3	462.0	462.7	463.0	462.9	462.8	462.7	462.6
12.5°	456.9	457.4	458.0	458.1	457.9	457.6	457.3	457.1
15°	448.6	449.2	449.8	449.9	449.5	449.1	448.7	448.3
17.5°	438.1	438.5	439.0	439.1	438.9	438.6	438.4	438.1
20°	430.0	430.3	430.6	430.7	430.7	430.7	430.7	430.7
22.5°	421.6	422.0	422.4	422.5	422.2	422.0	421.7	421.5
25°	408.4	408.9	409.3	409.2	408.7	408.2	407.7	407.2
27.5°	393.1	393.4	393.7	393.8	393.6	393.4	393.2	393.0
30°	382.6	382.8	383.0	383.1	383.0	382.9	382.8	382.7
32.5°	372.6	372.8	373.0	373.1	373.0	372.9	372.8	372.7
35°	356.5	356.8	357.1	357.2	357.2	357.2	357.2	357.2
37.5°	339.5	339.9	340.3	340.5	340.5	340.4	340.4	340.3
40°	328.0	328.4	328.9	329.2	329.4	329.6	329.8	330.0
42.5°	317.5	318.0	318.5	318.7	318.8	318.8	318.8	318.9
45°	300.5	301.2	301.9	302.3	302.4	302.5	302.6	302.7
47.5°	282.9	284.0	285.0	285.6	285.9	286.1	286.3	286.5
50°	271.2	272.4	273.5	274.2	274.5	274.8	275.1	275.4
52.5°	259.6	260.8	262.0	262.7	262.9	263.2	263.4	263.6
55°	241.2	242.3	243.5	244.2	244.6	245.0	245.5	245.9
57.5°	223.0	224.3	225.6	226.4	226.7	227.0	227.4	227.7
60°	210.6	212.1	213.7	214.6	214.9	215.2	215.5	215.8
62.5°	198.0	199.7	201.4	202.4	202.8	203.2	203.6	204.0
65°	179.2	180.7	182.2	183.2	183.6	184.0	184.5	184.9
67.5°	159.9	161.7	163.6	164.8	165.3	165.9	166.4	166.9
70°	146.7	148.7	150.6	151.9	152.5	153.1	153.7	154.4
72.5°	134.5	136.6	138.7	140.0	140.4	140.9	141.3	141.8
75°	116.0	118.0	120.1	121.3	121.9	122.4	122.9	123.4
77.5°	97.4	99.7	101.9	103.3	103.7	104.1	104.5	104.9
80°	86.3	88.6	90.8	92.2	92.6	93.0	93.4	93.8
82.5°	75.8	78.0	80.2	81.6	82.4	83.1	83.8	84.6
85°	61.4	63.6	65.9	67.4	68.2	69.1	69.9	70.7
87.5°	52.3	54.9	57.4	59.1	59.9	60.7	61.5	62.3
90°	56.1	59.3	62.5	64.7	65.9	67.1	68.3	69.5
92.5°	54.5	57.6	60.7	62.7	63.7	64.6	65.6	66.5
95°	51.8	54.8	57.9	59.8	60.5	61.3	62.0	62.7
97.5°	62.9	60.4	57.9	57.0	57.7	58.4	59.1	59.8
100°	113.8	91.4	69.0	57.8	57.7	57.7	57.7	57.6
102.5°	187.5	184.9	182.3	175.7	165.2	154.6	144.0	133.4
105°	250.3	252.4	254.4	255.7	256.3	256.9	257.4	258.0
107.5°	306.8	308.9	311.0	312.1	312.2	312.3	312.5	312.6
110°	343.3	344.7	346.2	347.3	348.2	349.1	350.0	350.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	379.3	380.5	381.8	382.6	383.1	383.6	384.1	384.6
115°	433.9	435.1	436.2	436.7	436.3	435.9	435.5	435.2
117.5°	486.3	487.2	488.1	488.7	488.9	489.2	489.5	489.8
120°	520.3	521.7	523.1	523.7	523.5	523.3	523.1	522.9
122.5°	552.4	553.8	555.1	555.6	555.2	554.9	554.6	554.2
125°	599.4	600.4	601.4	601.9	601.9	602.0	602.0	602.0
127.5°	642.1	643.3	644.4	644.7	644.1	643.5	642.8	642.2
130°	670.2	671.2	672.1	672.4	672.1	671.8	671.5	671.2
132.5°	696.2	697.5	698.9	699.4	699.0	698.6	698.2	697.8
135°	734.1	735.1	736.1	736.4	735.9	735.4	734.9	734.5
137.5°	769.7	771.0	772.3	772.7	772.2	771.8	771.3	770.9
140°	791.5	792.9	794.4	794.8	794.3	793.7	793.1	792.5
142.5°	813.0	814.0	815.1	815.3	814.7	814.1	813.6	813.0
145°	843.8	844.5	845.2	845.2	844.7	844.1	843.5	842.9
147.5°	870.5	870.8	871.2	870.9	869.9	868.9	867.9	866.9
150°	887.6	887.9	888.3	887.8	886.6	885.4	884.2	883.0
152.5°	903.0	903.3	903.7	903.2	902.1	900.9	899.8	898.6
155°	924.2	924.7	925.2	924.8	923.5	922.2	920.9	919.5
157.5°	941.8	942.3	942.8	942.4	941.1	939.8	938.5	937.2
160°	952.7	953.4	954.0	953.7	952.4	951.1	949.8	948.4
162.5°	962.7	963.6	964.6	964.3	962.9	961.4	960.0	958.5
165°	975.6	976.6	977.6	977.4	976.1	974.8	973.5	972.1
167.5°	985.3	986.5	987.7	987.6	986.1	984.6	983.1	981.6
170°	990.3	991.7	993.0	992.9	991.4	989.9	988.4	987.0
172.5°	994.2	995.4	996.6	996.4	995.0	993.5	992.0	990.5
175°	998.5	999.8	1001.1	1001.0	999.6	998.1	996.6	995.1
177.5°	1000.2	1001.1	1002.1	1002.0	1000.9	999.9	998.8	997.8
180°	999.6	999.6	999.6	999.6	999.6	999.6	999.6	999.6

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