

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: P333146-935

Luminaire Tested: **S125DIP-S375D1035U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333146-935
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: S125DIP-S375D1035U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.7 lumens
Efficiency: N/A
Efficacy: 116.4 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

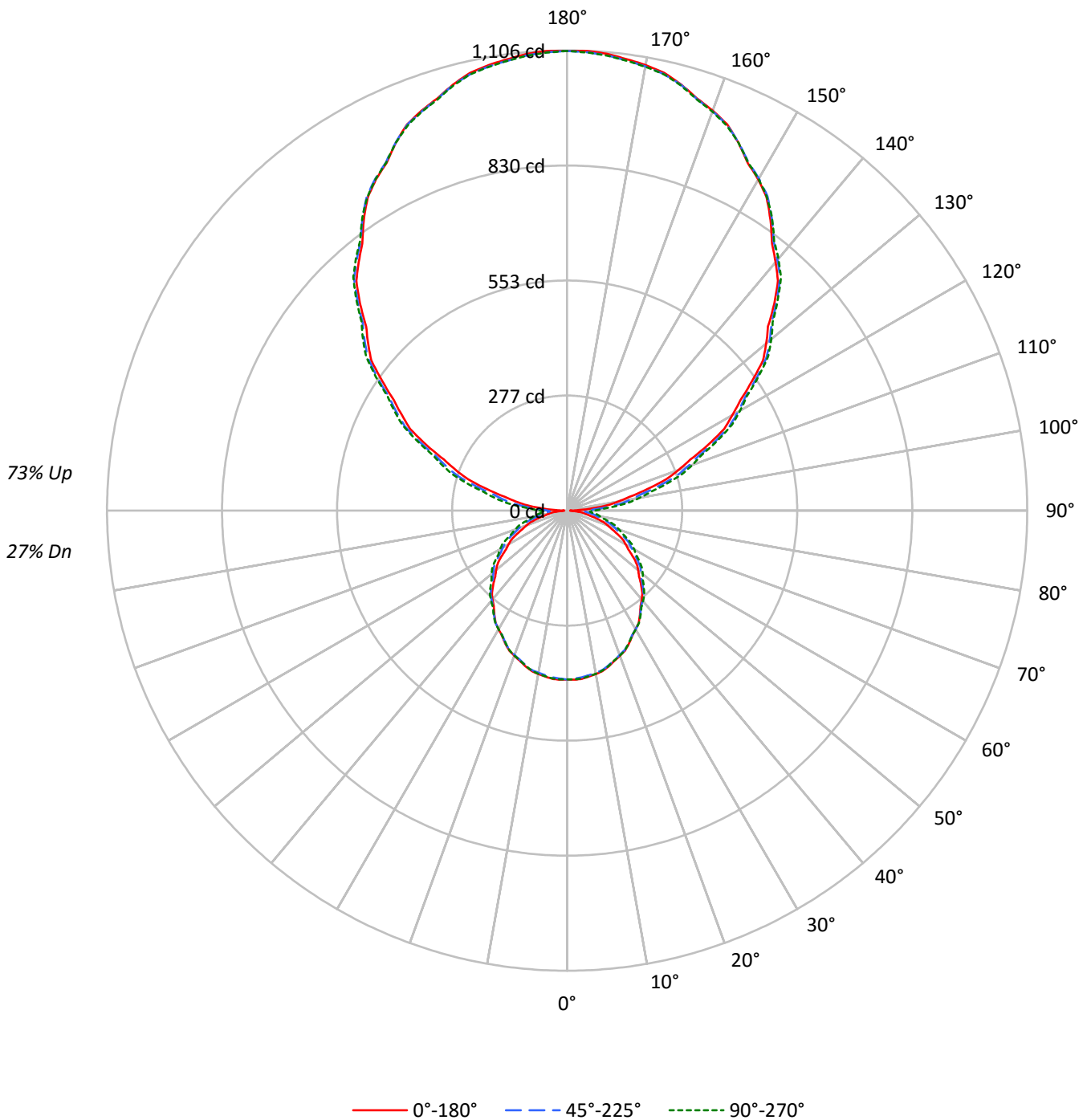
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	30	29	22
2	84	76	70	65	75	68	63	59	53	50	47	39	37	35	27	25	24	18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	22	20	15
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17	13
5	64	52	45	39	57	47	40	35	37	32	28	27	24	22	19	17	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12	9
8	50	38	31	25	45	34	28	23	27	22	19	20	17	15	14	12	10	8
9	46	35	27	22	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	22	18	23	18	15	17	14	12	12	10	8	6

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	0.9
10°-20°	108.9	2.5
20°-30°	162.0	3.7
30°-40°	191.9	4.4
40°-50°	198.4	4.6
50°-60°	182.8	4.2
60°-70°	147.8	3.4
70°-80°	99.0	2.3
80°-90°	53.7	1.2
90°-100°	102.8	2.4
100°-110°	239.7	5.5
110°-120°	384.3	8.9
120°-130°	495.1	11.4
130°-140°	549.2	12.6
140°-150°	535.5	12.3
150°-160°	449.2	10.3
160°-170°	298.6	6.9
170°-180°	104.5	2.4
0°-30°	309.4	7.1
0°-40°	501.3	11.5
0°-60°	882.5	20.3
0°-90°	1183.0	27.2
90°-120°	726.7	16.7
90°-150°	2306.5	53.1
90°-180°	3159.0	72.8
0°-180°	4341.7	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	27	46	59	65	7
95°	61	74	95	109	114	64
105°	200	211	227	240	246	213
115°	373	379	391	397	399	369
125°	542	547	556	560	562	485
135°	704	709	712	717	716	542
145°	852	855	858	860	859	532
155°	975	975	976	979	975	449
165°	1060	1058	1059	1062	1057	299
175°	1102	1099	1098	1103	1098	105
180°	1105	1105	1105	1105	1105	



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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	15.8	18.9	22.0	25.1	28.3	31.6	34.9	38.1	41.4	43.7
90°	7.2	11.6	15.9	20.3	24.6	29.0	33.3	37.7	42.0	46.4	49.3
92.5°	26.5	30.2	33.9	37.6	41.2	45.5	50.2	54.9	59.7	64.4	67.6
95°	61.0	63.7	66.4	69.1	71.8	75.6	80.5	85.4	90.3	95.2	98.5
97.5°	97.6	99.8	101.9	104.2	106.4	110.3	115.8	121.4	126.9	132.4	135.5
100°	124.8	126.6	128.5	130.3	132.2	135.7	141.0	146.4	151.7	157.0	160.6
102.5°	153.9	156.4	158.9	161.4	163.8	167.1	171.2	175.2	179.2	183.2	186.8
105°	199.6	201.9	204.3	206.6	209.1	212.2	215.9	219.7	223.5	227.3	230.2
107.5°	249.9	252.1	254.3	256.4	258.6	261.4	264.8	268.3	271.6	275.1	277.4
110°	284.7	286.7	288.8	290.8	292.8	295.3	298.3	301.4	304.4	307.5	309.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	320.5	321.8	323.2	324.5	325.9	328.1	331.2	334.3	337.5	340.6	342.5
115°	372.9	374.3	375.7	377.0	378.4	380.4	383.1	385.8	388.5	391.2	392.5
117.5°	425.4	426.2	426.9	427.7	428.4	430.1	432.6	435.1	437.6	440.1	441.8
120°	458.4	459.7	460.9	462.1	463.3	465.0	467.3	469.5	471.7	473.9	475.4
122.5°	493.9	494.3	494.8	495.2	495.8	497.2	499.6	502.1	504.5	507.0	508.3
125°	542.3	543.3	544.4	545.4	546.5	548.0	550.0	551.9	553.9	555.9	556.9
127.5°	593.5	594.0	594.6	595.1	595.7	596.8	598.5	600.2	601.8	603.6	604.7
130°	624.4	625.3	626.1	627.0	627.8	629.1	630.7	632.3	634.0	635.6	636.6
132.5°	655.0	656.6	658.1	659.7	661.2	662.5	663.3	664.2	665.0	665.9	667.0
135°	704.0	705.0	706.0	707.1	708.2	709.1	709.9	710.8	711.5	712.3	713.5
137.5°	749.9	751.0	752.0	753.0	754.1	754.9	755.7	756.4	757.1	757.9	759.1
140°	779.2	780.2	781.1	782.0	783.0	783.8	784.5	785.1	785.7	786.4	787.8
142.5°	808.7	809.5	810.2	811.0	811.7	812.4	813.1	813.9	814.7	815.4	816.5
145°	852.2	852.9	853.6	854.3	855.0	855.6	856.2	856.7	857.3	857.9	858.3
147.5°	892.1	892.5	892.9	893.4	893.7	894.2	894.7	895.1	895.5	896.0	896.6
150°	918.9	918.7	918.5	918.3	918.2	918.4	919.2	920.0	920.7	921.4	921.4
152.5°	940.9	941.2	941.4	941.7	941.9	942.3	942.5	942.9	943.1	943.5	943.9
155°	974.7	974.7	974.7	974.7	974.7	974.8	975.1	975.3	975.4	975.6	976.4
157.5°	1005.0	1004.6	1004.2	1003.8	1003.3	1003.2	1003.4	1003.6	1003.8	1004.0	1004.8
160°	1022.9	1022.4	1021.7	1021.1	1020.6	1020.5	1020.6	1020.8	1021.0	1021.1	1021.9
162.5°	1038.7	1038.3	1037.8	1037.4	1037.1	1036.8	1036.9	1036.9	1037.0	1037.0	1037.9
165°	1059.9	1059.5	1059.1	1058.7	1058.3	1058.3	1058.4	1058.6	1058.8	1059.0	1059.8
167.5°	1077.7	1076.9	1076.2	1075.5	1074.7	1074.3	1074.3	1074.3	1074.3	1074.3	1075.5
170°	1087.4	1086.6	1085.8	1085.1	1084.3	1083.9	1083.9	1083.9	1083.9	1083.9	1085.1
172.5°	1094.2	1093.5	1092.7	1091.9	1091.2	1090.8	1090.8	1090.8	1090.8	1090.8	1091.9
175°	1102.0	1101.2	1100.4	1099.7	1098.9	1098.5	1098.5	1098.5	1098.5	1098.5	1099.7
177.5°	1106.0	1105.4	1104.7	1104.1	1103.5	1103.1	1102.9	1102.8	1102.7	1102.5	1103.5
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6



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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°	45.9	48.1	50.4	51.8	52.5	53.3	54.0	54.8
90°	52.3	55.4	58.4	60.4	61.6	62.9	64.0	65.2
92.5°	70.8	74.0	77.2	79.4	80.4	81.5	82.5	83.5
95°	101.8	105.0	108.4	110.5	111.5	112.5	113.5	114.5
97.5°	138.7	141.8	144.9	146.9	147.7	148.5	149.4	150.2
100°	164.1	167.7	171.3	173.5	174.4	175.4	176.2	177.2
102.5°	190.5	194.2	197.9	200.2	201.3	202.3	203.4	204.5
105°	233.2	236.1	239.0	241.1	242.2	243.4	244.6	245.8
107.5°	279.7	282.1	284.4	285.9	286.3	286.8	287.3	287.8
110°	312.0	314.3	316.5	317.9	318.3	318.7	319.2	319.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	344.4	346.3	348.1	349.2	349.5	349.7	350.1	350.3
115°	394.0	395.4	396.7	397.6	398.0	398.3	398.6	399.0
117.5°	443.4	445.1	446.8	447.5	447.4	447.2	447.0	446.9
120°	476.9	478.5	479.9	480.6	480.4	480.1	479.8	479.7
122.5°	509.6	510.9	512.1	512.7	512.6	512.6	512.6	512.5
125°	557.9	559.0	560.0	560.6	560.9	561.1	561.4	561.6
127.5°	605.8	606.9	608.0	608.6	608.7	608.9	609.0	609.2
130°	637.7	638.7	639.8	640.3	640.4	640.4	640.5	640.6
132.5°	668.0	669.1	670.1	670.5	670.4	670.2	670.1	669.9
135°	714.6	715.7	717.0	717.4	717.0	716.7	716.4	716.1
137.5°	760.3	761.6	762.9	763.3	762.7	762.1	761.5	760.9
140°	789.2	790.5	791.9	792.2	791.7	791.1	790.5	789.9
142.5°	817.5	818.6	819.6	819.8	819.2	818.6	818.0	817.4
145°	858.8	859.2	859.6	859.7	859.5	859.3	859.1	858.8
147.5°	897.2	897.9	898.5	898.2	897.0	895.9	894.8	893.6
150°	921.4	921.4	921.4	921.4	921.0	920.8	920.4	920.2
152.5°	944.4	944.9	945.3	945.2	944.5	943.8	943.2	942.5
155°	977.1	977.9	978.7	978.6	977.7	976.6	975.7	974.7
157.5°	1005.5	1006.3	1007.0	1006.8	1005.6	1004.3	1003.0	1001.8
160°	1022.7	1023.5	1024.2	1024.2	1023.2	1022.3	1021.3	1020.3
162.5°	1038.8	1039.7	1040.7	1040.6	1039.5	1038.4	1037.2	1036.1
165°	1060.5	1061.3	1062.0	1061.9	1060.8	1059.5	1058.4	1057.3
167.5°	1076.6	1077.7	1078.9	1078.8	1077.7	1076.5	1075.3	1074.1
170°	1086.2	1087.4	1088.5	1088.4	1087.1	1085.7	1084.4	1083.1
172.5°	1093.1	1094.2	1095.4	1095.4	1094.2	1093.0	1091.8	1090.6
175°	1100.9	1102.0	1103.1	1103.0	1101.7	1100.4	1099.0	1097.7
177.5°	1104.3	1105.3	1106.1	1106.1	1105.0	1104.0	1102.9	1101.8
180°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6

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