

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: P333354-940

Luminaire Tested: **S125DIW-S375D1050U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333354-940
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-S375D1050U940-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040.5 lumens
Efficiency: N/A
Efficacy: 132.6 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

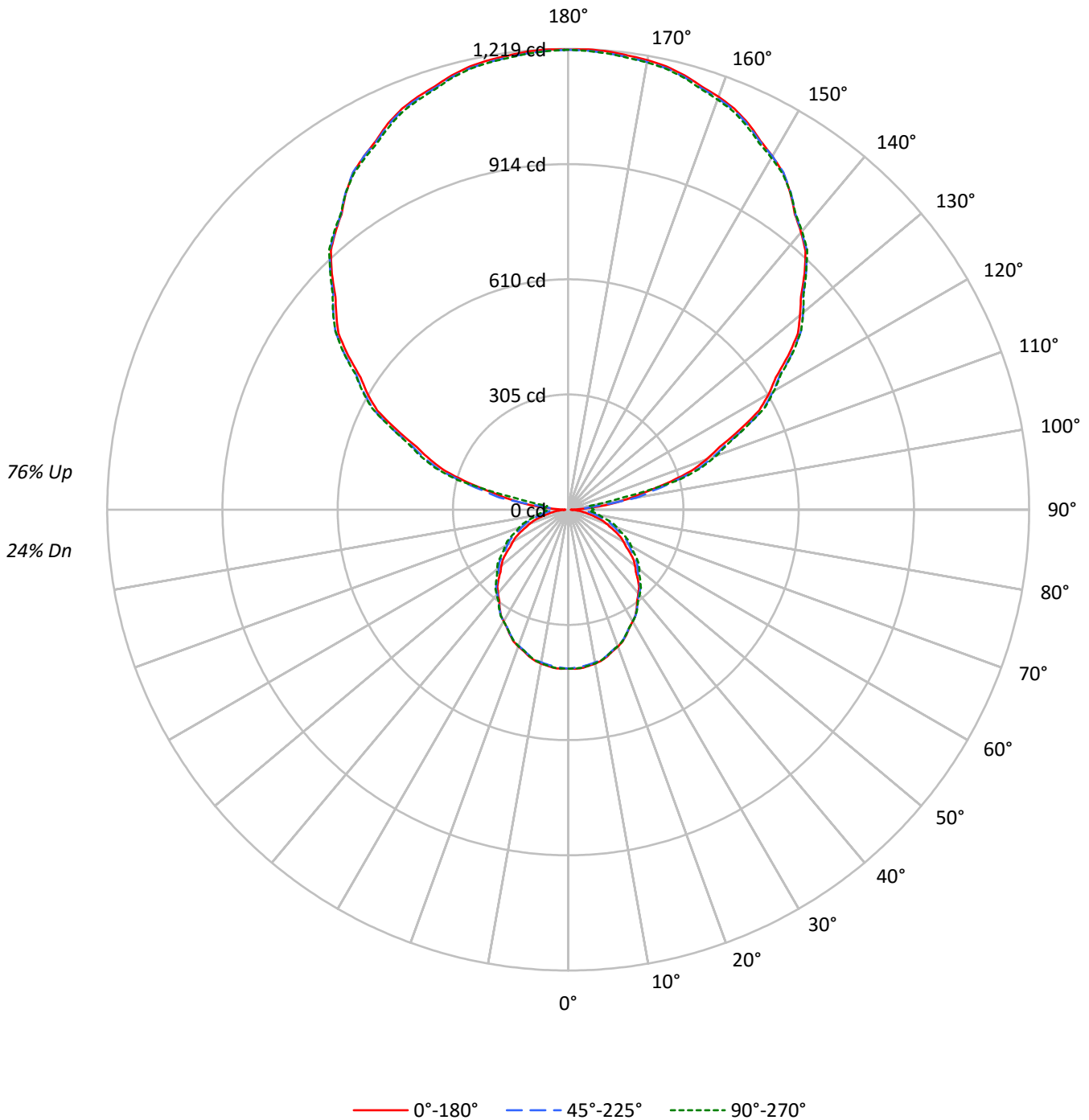
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	87	83	80	81	78	75	72	60	58	56	43	42	41	28	27	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22
3	76	67	59	54	67	59	53	49	46	42	38	33	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	29	26	24	19	17	16
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14
6	58	47	39	33	51	42	35	30	32	28	24	24	20	18	16	14	12
7	54	42	34	29	48	37	31	26	29	24	21	21	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	9
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2715	2715	2715
5°	2721	2664	2673
10°	2700	2617	2613
15°	2669	2561	2537
20°	2626	2489	2461
25°	2574	2414	2367
30°	2511	2331	2282
35°	2453	2256	2203
40°	2394	2175	2125
45°	2326	2106	2054
50°	2263	2032	1993
55°	2185	1961	1921
60°	2101	1881	1846
65°	2014	1797	1764
70°	1915	1682	1678
75°	1755	1572	1572
80°	1547	1438	1457
85°	1353	1346	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.8
10°-20°	112.8	2.2
20°-30°	167.8	3.3
30°-40°	198.8	3.9
40°-50°	205.5	4.1
50°-60°	189.3	3.8
60°-70°	153.0	3.0
70°-80°	102.5	2.0
80°-90°	55.7	1.1
90°-100°	74.0	1.5
100°-110°	294.5	5.8
110°-120°	508.9	10.1
120°-130°	642.6	12.7
130°-140°	685.8	13.6
140°-150°	641.0	12.7
150°-160°	518.0	10.3
160°-170°	335.0	6.6
170°-180°	115.5	2.3
0°-30°	320.4	6.4
0°-40°	519.2	10.3
0°-60°	914.0	18.1
0°-90°	1225.2	24.3
90°-120°	877.4	17.4
90°-150°	2846.8	56.5
90°-180°	3815.0	75.7
0°-180°	5040.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	420	419	417	420	420	40
15°	401	402	399	401	400	113
25°	365	366	364	365	363	168
35°	316	318	317	318	318	197
45°	260	264	267	269	270	201
55°	200	206	213	217	219	179
65°	138	147	157	163	165	137
75°	76	87	100	108	110	80
85°	23	36	51	59	63	24
90°	8	28	48	62	68	7
95°	57	63	44	58	61	70
105°	269	279	291	299	302	285
115°	500	508	519	523	520	496
125°	710	716	724	727	726	633
135°	884	888	890	893	890	681
145°	1024	1025	1025	1028	1025	640
155°	1127	1122	1124	1126	1119	519
165°	1190	1184	1185	1190	1183	336
175°	1217	1212	1212	1218	1211	116
180°	1217	1217	1217	1217	1217	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	421.3	421.2	421.1	420.9	420.8	420.4	419.9	419.4	418.9	418.4	418.9
5°	420.4	420.2	420.0	419.8	419.6	419.2	418.6	417.9	417.3	416.6	417.4
7.5°	416.6	416.6	416.5	416.4	416.3	416.0	415.4	414.6	414.0	413.3	414.0
10°	413.3	413.3	413.3	413.3	413.3	413.0	412.2	411.5	410.8	410.0	410.7
12.5°	408.8	408.8	408.8	408.9	409.0	408.8	408.2	407.6	407.0	406.4	406.9
15°	401.4	401.4	401.5	401.7	401.8	401.4	400.8	400.2	399.6	399.0	399.5
17.5°	391.8	392.0	392.2	392.4	392.5	392.4	391.7	391.0	390.4	389.8	390.2
20°	385.0	385.1	385.3	385.5	385.7	385.4	384.8	384.1	383.5	382.8	383.2
22.5°	377.0	377.4	377.6	378.0	378.4	378.1	377.4	376.7	375.9	375.2	375.6
25°	364.7	365.0	365.2	365.5	365.8	365.7	365.2	364.6	364.0	363.5	363.8
27.5°	351.1	351.4	351.9	352.2	352.7	352.6	352.0	351.3	350.7	350.1	350.3
30°	340.8	341.3	341.9	342.5	343.0	343.0	342.5	341.9	341.3	340.8	341.0
32.5°	331.6	332.1	332.5	333.1	333.5	333.5	333.1	332.7	332.3	331.9	332.1
35°	315.7	316.3	317.0	317.6	318.3	318.4	318.2	317.9	317.6	317.4	317.6
37.5°	299.8	300.3	301.0	301.5	302.1	302.4	302.3	302.2	302.1	302.0	302.4
40°	288.9	289.6	290.3	291.1	291.9	292.1	292.0	291.9	291.9	291.8	292.1
42.5°	277.1	277.9	278.9	279.9	280.8	281.4	281.6	281.8	282.0	282.2	282.7
45°	260.0	261.1	262.1	263.1	264.0	264.8	265.3	265.7	266.2	266.6	267.2
47.5°	242.6	243.6	244.5	245.5	246.4	247.3	248.1	248.8	249.6	250.4	251.4
50°	230.8	231.8	232.8	233.8	234.8	235.9	236.8	237.8	238.8	239.9	240.9
52.5°	218.3	219.5	220.7	221.9	223.2	224.4	225.6	226.9	228.1	229.3	230.4
55°	199.8	201.3	202.8	204.3	205.7	207.2	208.7	210.1	211.6	213.0	214.1
57.5°	181.1	182.8	184.6	186.4	188.2	189.8	191.5	193.2	194.9	196.5	197.7
60°	168.5	170.4	172.2	174.1	175.8	177.7	179.5	181.4	183.2	185.0	186.4
62.5°	156.3	158.2	160.1	161.8	163.7	165.6	167.6	169.5	171.6	173.5	175.0
65°	137.7	139.7	141.9	143.9	146.1	148.2	150.4	152.7	154.8	157.0	158.4
67.5°	120.0	122.1	124.0	126.1	128.1	130.3	132.5	134.7	137.0	139.2	140.9
70°	107.2	109.2	111.4	113.4	115.6	117.8	120.2	122.6	124.9	127.3	129.1
72.5°	94.6	96.8	99.0	101.1	103.3	105.8	108.3	110.9	113.5	116.1	118.1
75°	75.8	78.2	80.6	82.9	85.3	88.0	91.0	93.9	96.8	99.7	101.6
77.5°	57.8	60.5	63.3	66.0	68.8	71.5	74.4	77.2	80.0	82.8	84.9
80°	46.5	49.3	52.1	54.8	57.5	60.5	63.6	66.7	69.8	72.9	75.0
82.5°	36.4	39.2	42.2	45.0	47.9	51.0	54.1	57.3	60.5	63.7	65.6
85°	22.6	25.7	28.7	31.7	34.8	37.9	41.1	44.3	47.5	50.6	52.7
87.5°	13.0	16.3	19.5	22.8	26.0	29.3	32.7	36.1	39.6	43.0	45.2
90°	7.5	12.0	16.6	21.1	25.6	30.1	34.7	39.1	43.7	48.2	51.4
92.5°	19.8	21.4	23.0	24.6	26.2	29.2	33.6	38.1	42.4	46.9	49.9
95°	56.8	58.6	60.3	62.1	63.8	62.5	58.1	53.5	49.0	44.5	47.5
97.5°	112.2	115.4	118.6	121.9	125.1	120.6	108.6	96.6	84.4	72.4	68.7
100°	155.2	157.7	160.2	162.7	165.2	168.4	172.1	175.8	179.6	183.3	155.3
102.5°	198.9	201.3	203.9	206.4	209.0	211.9	215.3	218.6	221.9	225.2	221.5
105°	268.9	271.1	273.4	275.6	277.9	280.4	283.2	285.9	288.6	291.4	293.3
107.5°	341.6	342.9	344.1	345.4	346.6	348.7	351.8	354.8	357.8	360.9	362.7
110°	388.9	389.9	391.1	392.2	393.2	395.3	398.2	401.3	404.2	407.2	408.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	433.6	435.0	436.3	437.7	439.1	441.1	443.8	446.6	449.3	452.0	452.9
115°	500.3	501.9	503.5	505.2	506.8	509.0	511.6	514.2	516.7	519.3	520.1
117.5°	569.4	569.7	570.1	570.4	570.9	572.6	575.6	578.5	581.6	584.6	585.1
120°	612.6	612.7	612.8	612.9	612.9	614.3	617.0	619.7	622.4	625.1	626.2
122.5°	650.5	651.4	652.3	653.2	654.1	655.7	658.0	660.3	662.6	664.9	666.0
125°	709.6	710.9	712.2	713.5	714.9	716.4	718.3	720.1	721.9	723.7	724.4
127.5°	765.6	766.5	767.5	768.4	769.3	770.4	771.8	773.2	774.5	776.0	776.9
130°	800.3	801.2	802.1	803.0	803.9	805.1	806.6	808.1	809.6	811.0	811.7
132.5°	834.6	835.7	836.9	838.0	839.2	840.0	840.5	841.1	841.7	842.2	843.4
135°	883.8	884.8	885.9	887.1	888.1	888.9	889.1	889.3	889.6	889.8	890.6
137.5°	928.9	929.9	930.9	931.8	932.8	933.3	933.2	933.2	933.1	933.1	934.2
140°	958.1	958.6	958.9	959.4	959.7	959.9	959.8	959.7	959.6	959.5	960.9
142.5°	984.9	985.1	985.3	985.3	985.5	985.8	986.1	986.4	986.7	986.9	987.9
145°	1024.0	1024.3	1024.7	1024.9	1025.3	1025.4	1025.4	1025.4	1025.4	1025.4	1026.1
147.5°	1057.8	1057.8	1057.7	1057.7	1057.6	1057.7	1057.8	1058.1	1058.4	1058.5	1059.0
150°	1079.5	1079.1	1078.7	1078.3	1077.9	1077.9	1078.3	1078.7	1079.1	1079.5	1080.0
152.5°	1100.5	1099.6	1098.7	1097.8	1096.9	1096.7	1097.1	1097.5	1097.9	1098.2	1098.7
155°	1127.3	1126.1	1124.9	1123.7	1122.5	1122.1	1122.5	1122.9	1123.3	1123.7	1124.3
157.5°	1148.1	1147.4	1146.7	1145.9	1145.1	1144.9	1144.9	1144.9	1145.0	1145.0	1145.7
160°	1162.5	1161.3	1160.1	1158.9	1157.7	1157.2	1157.4	1157.6	1157.8	1158.0	1158.8
162.5°	1174.0	1172.9	1171.6	1170.5	1169.2	1168.7	1168.9	1169.1	1169.3	1169.5	1170.6
165°	1189.5	1188.4	1187.1	1186.0	1184.7	1184.2	1184.5	1184.6	1184.8	1185.0	1186.2
167.5°	1201.0	1199.9	1198.6	1197.4	1196.1	1195.6	1195.8	1196.0	1196.2	1196.4	1197.8
170°	1207.6	1206.2	1204.8	1203.4	1201.9	1201.4	1201.6	1201.8	1201.9	1202.2	1203.8
172.5°	1211.9	1210.5	1209.1	1207.7	1206.3	1205.8	1206.1	1206.5	1206.8	1207.2	1208.6
175°	1216.6	1215.4	1214.2	1213.0	1211.7	1211.3	1211.5	1211.7	1211.9	1212.1	1213.7
177.5°	1218.8	1217.8	1216.8	1215.8	1215.0	1214.5	1214.7	1214.9	1215.0	1215.1	1216.3
180°	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	420.4
2.5°	419.4	419.9	420.4	420.6	420.5	420.5	420.4	420.4
5°	418.1	418.8	419.5	419.9	419.8	419.7	419.6	419.5
7.5°	414.6	415.3	415.9	416.2	416.1	416.0	415.9	415.8
10°	411.3	412.0	412.6	412.9	412.8	412.7	412.6	412.5
12.5°	407.4	407.9	408.4	408.5	408.3	408.0	407.8	407.6
15°	400.0	400.6	401.1	401.2	400.8	400.5	400.1	399.8
17.5°	390.7	391.0	391.5	391.6	391.4	391.1	390.9	390.7
20°	383.4	383.7	384.0	384.1	384.1	384.1	384.1	384.1
22.5°	375.9	376.3	376.7	376.7	376.5	376.3	376.0	375.9
25°	364.2	364.6	365.0	364.9	364.4	364.0	363.6	363.1
27.5°	350.5	350.8	351.1	351.2	351.0	350.8	350.6	350.4
30°	341.2	341.3	341.5	341.6	341.5	341.4	341.3	341.3
32.5°	332.3	332.4	332.6	332.7	332.6	332.5	332.4	332.3
35°	317.9	318.2	318.4	318.5	318.5	318.5	318.5	318.5
37.5°	302.7	303.1	303.4	303.6	303.6	303.5	303.5	303.4
40°	292.5	292.8	293.3	293.6	293.7	293.9	294.1	294.3
42.5°	283.1	283.6	284.0	284.2	284.3	284.3	284.3	284.4
45°	268.0	268.6	269.2	269.6	269.7	269.7	269.8	269.9
47.5°	252.3	253.2	254.1	254.7	254.9	255.1	255.3	255.5
50°	241.8	242.9	243.9	244.5	244.8	245.0	245.3	245.6
52.5°	231.5	232.6	233.6	234.3	234.4	234.7	234.9	235.1
55°	215.1	216.1	217.1	217.8	218.1	218.5	218.9	219.3
57.5°	198.9	200.0	201.2	201.9	202.2	202.4	202.8	203.0
60°	187.8	189.1	190.6	191.4	191.6	191.9	192.2	192.4
62.5°	176.6	178.1	179.6	180.5	180.8	181.2	181.6	181.9
65°	159.8	161.1	162.5	163.4	163.7	164.1	164.5	164.9
67.5°	142.6	144.2	145.9	147.0	147.4	147.9	148.4	148.8
70°	130.8	132.6	134.3	135.5	136.0	136.5	137.1	137.7
72.5°	119.9	121.8	123.7	124.8	125.2	125.6	126.0	126.4
75°	103.4	105.2	107.1	108.2	108.7	109.1	109.6	110.0
77.5°	86.9	88.9	90.9	92.1	92.5	92.8	93.2	93.5
80°	77.0	79.0	81.0	82.2	82.6	82.9	83.3	83.6
82.5°	67.6	69.6	71.5	72.8	73.5	74.1	74.7	75.4
85°	54.8	56.7	58.8	60.1	60.8	61.6	62.3	63.0
87.5°	47.5	49.8	52.2	53.7	54.5	55.2	56.0	56.7
90°	54.5	57.5	60.6	62.9	64.1	65.3	66.5	67.8
92.5°	53.0	56.0	59.0	61.0	62.0	62.9	63.8	64.7
95°	50.6	53.6	56.6	58.4	59.0	59.7	60.4	61.0
97.5°	64.9	61.2	57.5	55.9	56.5	57.2	57.8	58.4
100°	127.4	99.5	71.5	57.4	57.2	57.0	56.7	56.4
102.5°	217.7	213.8	210.1	201.6	188.5	175.5	162.4	149.3
105°	295.1	296.9	298.7	299.9	300.3	300.8	301.2	301.7
107.5°	364.5	366.4	368.3	369.2	369.2	369.1	369.1	369.1
110°	409.5	410.5	411.7	412.7	413.6	414.4	415.3	416.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	453.8	454.8	455.7	456.3	456.6	457.0	457.4	457.7
115°	521.0	521.8	522.7	522.8	522.1	521.5	520.8	520.1
117.5°	585.7	586.1	586.7	587.0	587.1	587.2	587.3	587.4
120°	627.4	628.6	629.7	630.1	629.6	629.2	628.7	628.3
122.5°	667.1	668.2	669.2	669.5	668.9	668.2	667.6	667.1
125°	725.1	725.8	726.4	726.7	726.5	726.4	726.2	726.1
127.5°	777.8	778.7	779.6	779.6	778.6	777.7	776.8	775.8
130°	812.4	813.1	813.8	813.9	813.3	812.7	812.2	811.6
132.5°	844.5	845.7	846.9	847.1	846.5	845.9	845.3	844.6
135°	891.4	892.2	893.0	893.0	892.2	891.5	890.7	890.0
137.5°	935.4	936.6	937.7	938.0	937.3	936.6	935.9	935.2
140°	962.3	963.8	965.1	965.5	964.6	963.8	962.9	962.1
142.5°	988.8	989.8	990.7	990.8	990.0	989.1	988.3	987.5
145°	1026.7	1027.3	1028.1	1028.0	1027.1	1026.3	1025.5	1024.6
147.5°	1059.4	1059.8	1060.2	1059.7	1058.5	1057.1	1055.9	1054.6
150°	1080.3	1080.8	1081.1	1080.6	1079.1	1077.5	1076.0	1074.5
152.5°	1099.0	1099.5	1099.8	1099.4	1098.0	1096.5	1095.1	1093.7
155°	1124.9	1125.5	1126.1	1125.6	1124.0	1122.4	1120.8	1119.2
157.5°	1146.3	1146.9	1147.5	1147.1	1145.5	1143.9	1142.3	1140.7
160°	1159.6	1160.4	1161.2	1160.7	1159.2	1157.6	1156.0	1154.4
162.5°	1171.8	1172.9	1174.0	1173.7	1171.9	1170.2	1168.4	1166.6
165°	1187.4	1188.7	1189.8	1189.6	1188.0	1186.4	1184.8	1183.2
167.5°	1199.3	1200.7	1202.2	1202.0	1200.2	1198.4	1196.6	1194.8
170°	1205.4	1207.0	1208.6	1208.4	1206.7	1204.9	1203.1	1201.2
172.5°	1210.1	1211.6	1213.0	1212.8	1211.0	1209.2	1207.4	1205.6
175°	1215.3	1216.9	1218.5	1218.4	1216.6	1214.8	1213.0	1211.2
177.5°	1217.4	1218.5	1219.7	1219.6	1218.3	1217.0	1215.8	1214.4
180°	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6

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