

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: P333475-930

Luminaire Tested: **S125DIW-S1270D1050U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333475-930
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-S1270D1050U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6980.4 lumens
Efficiency: N/A
Efficacy: 103.6 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: General Diffuse

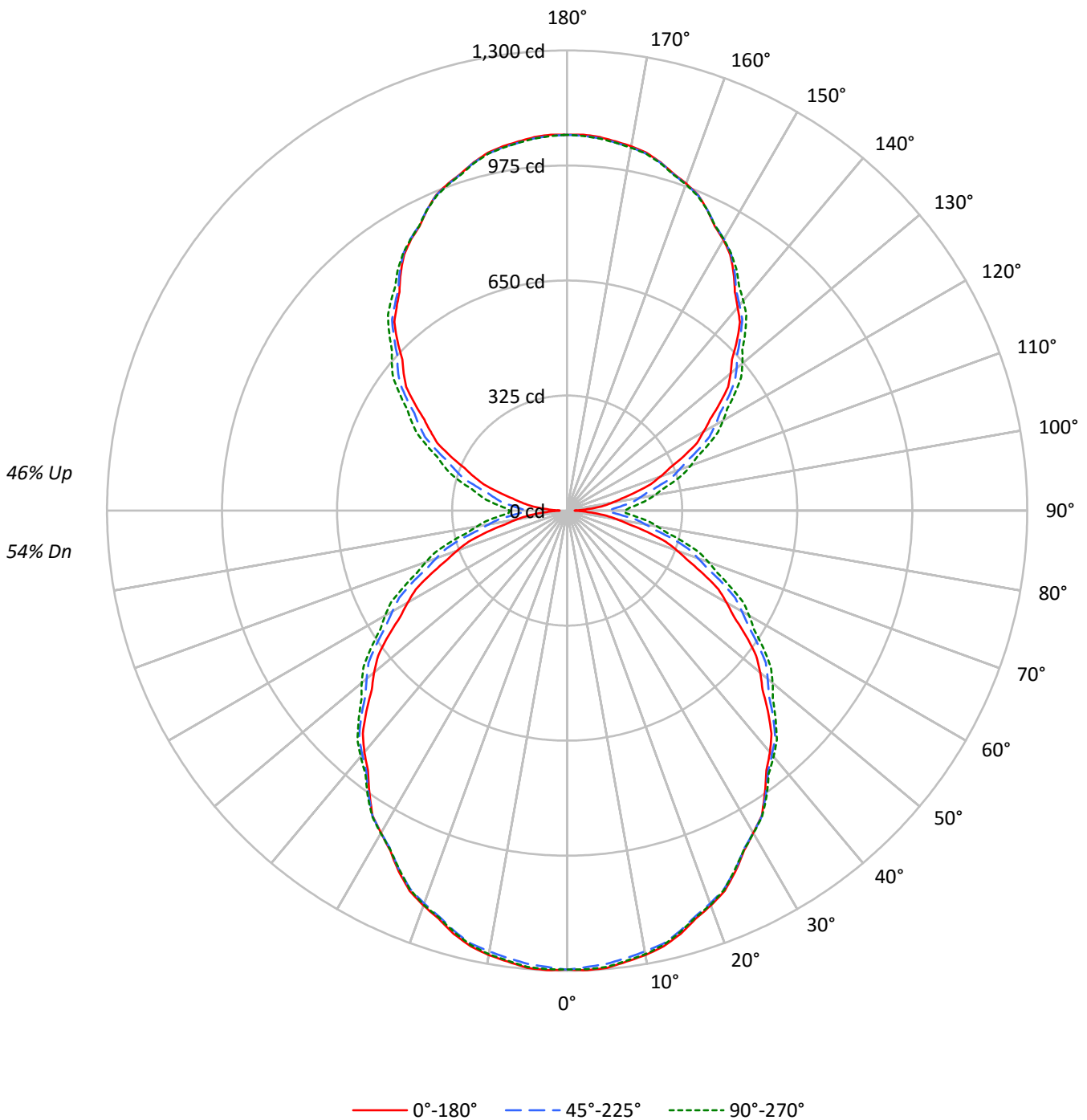
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	86	83	79	74	71	69	62	60	58	52	50	49	44
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41	36
3	81	71	63	57	75	66	59	54	56	51	47	48	44	40	40	37	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	26
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25	22
6	62	50	42	35	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20	17
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18	15
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16	14
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	21	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8374	8374	8374
5°	8391	8220	8245
10°	8331	8072	8060
15°	8232	7896	7825
20°	8098	7680	7590
25°	7939	7447	7300
30°	7746	7191	7036
35°	7566	6956	6795
40°	7383	6709	6552
45°	7176	6497	6337
50°	6978	6267	6147
55°	6741	6051	5923
60°	6482	5802	5695
65°	6210	5544	5437
70°	5903	5190	5173
75°	5415	4849	4849
80°	4780	4438	4496
85°	4189	4162	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.8
10°-20°	348.0	5.0
20°-30°	517.6	7.4
30°-40°	613.1	8.8
40°-50°	633.9	9.1
50°-60°	583.9	8.4
60°-70°	472.0	6.8
70°-80°	316.1	4.5
80°-90°	166.3	2.4
90°-100°	163.1	2.3
100°-110°	277.8	4.0
110°-120°	401.1	5.7
120°-130°	493.8	7.1
130°-140°	535.7	7.7
140°-150°	516.3	7.4
150°-160°	431.7	6.2
160°-170°	287.0	4.1
170°-180°	100.4	1.4
0°-30°	988.2	14.2
0°-40°	1601.3	22.9
0°-60°	2819.2	40.4
0°-90°	3773.6	54.1
90°-120°	841.9	12.1
90°-150°	2387.7	34.2
90°-180°	3207.0	45.9
0°-180°	6980.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1297	1294	1285	1295	1294	123
15°	1238	1239	1230	1237	1233	349
25°	1125	1128	1121	1126	1120	518
35°	974	982	979	982	983	609
45°	802	816	822	831	833	619
55°	616	637	657	671	676	551
65°	424	454	484	503	508	421
75°	234	267	308	332	339	248
85°	70	112	156	183	194	74
90°	21	69	118	150	162	17
95°	70	106	156	189	201	70
105°	200	225	267	297	309	213
115°	364	377	411	432	439	360
125°	525	530	555	573	579	470
135°	678	682	692	708	711	523
145°	820	822	824	831	833	512
155°	937	937	938	940	937	431
165°	1019	1017	1018	1021	1016	287
175°	1059	1056	1056	1060	1055	101
180°	1062	1062	1062	1062	1062	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1299.6	1299.2	1298.7	1298.3	1297.8	1296.8	1295.2	1293.6	1292.1	1290.5	1292.1
5°	1296.6	1296.0	1295.4	1294.9	1294.3	1293.1	1291.0	1289.1	1287.1	1285.2	1287.4
7.5°	1285.2	1284.9	1284.7	1284.4	1284.3	1283.1	1281.1	1279.0	1277.0	1275.0	1276.9
10°	1275.0	1275.0	1275.0	1275.0	1275.0	1273.8	1271.5	1269.3	1267.1	1264.8	1266.7
12.5°	1260.7	1260.9	1261.2	1261.4	1261.6	1260.9	1259.1	1257.2	1255.4	1253.6	1255.2
15°	1238.1	1238.4	1238.7	1238.9	1239.3	1238.4	1236.4	1234.4	1232.5	1230.4	1232.2
17.5°	1208.6	1209.2	1209.7	1210.3	1210.9	1210.1	1208.2	1206.2	1204.2	1202.2	1203.5
20°	1187.2	1187.8	1188.4	1189.0	1189.5	1188.8	1186.8	1184.9	1182.8	1180.9	1181.8
22.5°	1162.9	1163.8	1164.9	1165.9	1166.9	1166.3	1164.1	1161.9	1159.7	1157.5	1158.5
25°	1124.9	1125.8	1126.7	1127.5	1128.4	1128.0	1126.3	1124.5	1122.8	1121.1	1122.3
27.5°	1082.8	1084.0	1085.2	1086.5	1087.8	1087.4	1085.5	1083.5	1081.7	1079.7	1080.5
30°	1051.2	1053.0	1054.6	1056.3	1058.0	1058.0	1056.3	1054.6	1053.0	1051.2	1051.8
32.5°	1022.8	1024.3	1025.7	1027.2	1028.7	1028.7	1027.5	1026.3	1025.0	1023.8	1024.3
35°	973.7	975.7	977.6	979.7	981.6	982.2	981.3	980.5	979.7	978.8	979.7
37.5°	924.6	926.4	928.2	930.1	931.9	932.6	932.4	932.1	931.8	931.5	932.6
40°	891.0	893.3	895.6	897.9	900.1	901.1	900.8	900.5	900.3	900.0	901.1
42.5°	854.4	857.4	860.3	863.2	866.3	868.0	868.6	869.3	869.8	870.5	871.8
45°	802.1	805.2	808.3	811.4	814.5	816.8	818.2	819.6	821.0	822.4	824.4
47.5°	748.4	751.3	754.2	757.1	759.9	762.6	765.1	767.5	769.9	772.3	775.3
50°	711.8	714.9	718.0	721.1	724.3	727.4	730.5	733.6	736.7	739.8	742.9
52.5°	673.2	677.0	680.8	684.5	688.4	692.1	695.9	699.7	703.4	707.3	710.6
55°	616.5	621.0	625.6	630.1	634.5	639.1	643.6	648.2	652.6	657.2	660.3
57.5°	558.6	563.9	569.4	574.8	580.2	585.5	590.8	595.9	601.1	606.3	609.9
60°	519.9	525.5	531.2	536.9	542.5	548.1	553.8	559.5	565.1	570.7	574.9
62.5°	482.2	488.0	493.6	499.2	504.8	510.8	516.8	522.9	529.0	535.2	539.8
65°	424.5	431.0	437.6	444.1	450.5	457.2	464.0	470.8	477.5	484.3	488.5
67.5°	370.1	376.4	382.7	389.0	395.3	401.9	408.7	415.6	422.5	429.4	434.6
70°	330.5	337.0	343.5	350.0	356.4	363.4	370.7	378.1	385.5	392.8	398.2
72.5°	291.9	298.6	305.3	312.0	318.8	326.1	334.1	342.2	350.2	358.2	364.0
75°	233.9	241.2	248.6	255.9	263.3	271.5	280.5	289.5	298.6	307.6	313.2
77.5°	178.2	186.7	195.2	203.7	212.1	220.7	229.4	238.1	246.8	255.5	261.7
80°	143.7	152.1	160.6	169.1	177.6	186.5	196.2	205.8	215.4	225.0	231.2
82.5°	112.1	121.1	130.0	138.9	147.8	157.2	167.1	176.8	186.7	196.5	202.5
85°	70.0	79.2	88.5	97.9	107.2	116.8	126.7	136.6	146.4	156.4	162.6
87.5°	39.8	49.2	58.5	67.8	77.1	86.7	96.6	106.5	116.3	126.2	132.9
90°	21.2	31.6	42.2	52.7	63.2	73.9	84.8	95.6	106.6	117.5	124.9
92.5°	38.3	47.7	57.1	66.4	75.8	86.3	97.7	109.1	120.5	131.9	139.3
95°	70.2	77.9	85.6	93.4	101.1	110.6	122.1	133.5	145.0	156.4	163.9
97.5°	104.2	111.0	117.7	124.5	131.3	140.6	152.3	164.1	175.9	187.7	194.9
100°	129.6	135.6	141.5	147.4	153.4	162.1	173.5	184.9	196.3	207.7	215.3
102.5°	157.0	163.2	169.5	175.7	181.9	190.0	200.1	210.1	220.1	230.1	237.7
105°	199.8	205.2	210.7	216.1	221.5	229.0	238.6	248.2	257.8	267.3	274.1
107.5°	247.2	251.9	256.7	261.5	266.2	273.0	282.1	291.1	300.0	309.0	315.1
110°	279.9	284.1	288.5	292.8	297.1	303.5	311.9	320.4	328.9	337.3	343.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	314.2	317.4	320.6	323.8	327.0	332.8	341.1	349.5	357.9	366.3	371.7
115°	363.7	366.4	369.1	371.8	374.5	379.8	387.4	395.2	402.8	410.6	415.5
117.5°	413.3	414.9	416.5	418.2	419.8	424.3	431.5	438.8	446.1	453.4	458.4
120°	445.0	446.8	448.6	450.3	452.1	456.3	463.0	469.7	476.4	483.1	487.8
122.5°	478.3	479.1	479.8	480.5	481.3	485.0	491.8	498.5	505.2	512.0	516.4
125°	524.7	525.5	526.4	527.2	528.0	531.3	537.1	543.0	548.8	554.6	558.8
127.5°	573.0	573.3	573.7	574.1	574.4	577.0	581.8	586.7	591.5	596.4	600.4
130°	602.8	603.4	604.0	604.6	605.3	607.7	612.0	616.4	620.8	625.1	628.8
132.5°	631.4	632.9	634.4	635.9	637.2	639.4	642.5	645.4	648.4	651.4	655.2
135°	678.3	679.1	680.0	680.8	681.6	683.1	685.3	687.4	689.6	691.7	695.4
137.5°	722.4	723.2	724.0	724.9	725.7	726.8	728.1	729.5	730.9	732.2	735.8
140°	749.7	750.6	751.5	752.5	753.4	754.3	755.1	755.9	756.8	757.6	761.1
142.5°	778.1	778.7	779.3	779.8	780.3	781.0	781.7	782.4	783.3	784.0	786.8
145°	819.9	820.4	820.8	821.3	821.7	822.2	822.8	823.4	823.9	824.4	825.9
147.5°	857.4	857.8	858.2	858.5	858.9	859.4	859.8	860.2	860.7	861.1	862.0
150°	883.1	883.0	882.7	882.6	882.4	882.6	883.4	884.1	884.8	885.6	885.6
152.5°	904.2	904.5	904.7	905.1	905.3	905.6	905.9	906.1	906.4	906.8	907.2
155°	936.8	936.8	936.8	936.8	936.8	936.9	937.1	937.3	937.4	937.7	938.4
157.5°	965.9	965.5	965.1	964.7	964.3	964.2	964.3	964.5	964.7	964.9	965.6
160°	983.1	982.5	981.9	981.5	980.9	980.7	980.9	981.0	981.2	981.5	982.2
162.5°	998.3	997.8	997.4	997.0	996.6	996.5	996.5	996.5	996.6	996.6	997.5
165°	1018.6	1018.2	1017.8	1017.5	1017.1	1017.0	1017.2	1017.4	1017.6	1017.7	1018.5
167.5°	1035.8	1035.0	1034.3	1033.6	1032.8	1032.5	1032.5	1032.5	1032.5	1032.5	1033.6
170°	1045.1	1044.3	1043.6	1042.8	1042.1	1041.7	1041.7	1041.7	1041.7	1041.7	1042.8
172.5°	1051.7	1050.9	1050.2	1049.5	1048.7	1048.3	1048.3	1048.3	1048.3	1048.3	1049.5
175°	1059.1	1058.3	1057.6	1056.9	1056.1	1055.7	1055.7	1055.7	1055.7	1055.7	1056.9
177.5°	1062.9	1062.3	1061.7	1061.1	1060.5	1060.1	1060.0	1059.9	1059.7	1059.6	1060.5
180°	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1293.6	1295.2	1296.8	1297.5	1297.2	1297.1	1296.8	1296.6
5°	1289.6	1291.9	1294.2	1295.2	1294.9	1294.6	1294.3	1294.0
7.5°	1278.9	1280.9	1282.9	1283.7	1283.4	1283.1	1282.9	1282.5
10°	1268.8	1270.7	1272.7	1273.6	1273.3	1273.0	1272.7	1272.4
12.5°	1256.6	1258.2	1259.7	1260.1	1259.4	1258.7	1257.9	1257.2
15°	1233.9	1235.6	1237.2	1237.5	1236.4	1235.3	1234.1	1233.0
17.5°	1204.8	1206.2	1207.5	1207.8	1207.1	1206.4	1205.7	1205.0
20°	1182.6	1183.4	1184.3	1184.7	1184.7	1184.7	1184.7	1184.7
22.5°	1159.7	1160.7	1161.8	1162.0	1161.3	1160.7	1159.9	1159.3
25°	1123.4	1124.5	1125.7	1125.5	1124.1	1122.7	1121.3	1119.9
27.5°	1081.3	1082.1	1082.9	1083.0	1082.5	1082.0	1081.5	1081.0
30°	1052.4	1053.0	1053.5	1053.6	1053.4	1053.0	1052.8	1052.5
32.5°	1024.9	1025.5	1026.1	1026.2	1025.9	1025.6	1025.3	1025.1
35°	980.5	981.3	982.2	982.6	982.6	982.6	982.6	982.6
37.5°	933.8	934.9	936.0	936.5	936.4	936.3	936.2	936.0
40°	902.2	903.4	904.5	905.3	905.9	906.4	907.0	907.6
42.5°	873.2	874.6	875.9	876.6	876.8	876.9	877.0	877.1
45°	826.4	828.3	830.3	831.4	831.8	832.0	832.3	832.6
47.5°	778.1	781.0	783.9	785.6	786.3	786.8	787.5	788.1
50°	746.0	749.1	752.3	754.2	755.0	755.9	756.8	757.6
52.5°	714.0	717.3	720.6	722.6	723.2	723.8	724.5	725.0
55°	663.4	666.5	669.6	671.7	672.9	674.0	675.1	676.3
57.5°	613.4	617.0	620.6	622.8	623.6	624.4	625.3	626.1
60°	579.2	583.4	587.7	590.2	591.1	591.9	592.8	593.6
62.5°	544.5	549.2	553.9	556.8	557.8	559.0	560.0	561.1
65°	492.8	497.0	501.2	503.9	505.1	506.2	507.4	508.4
67.5°	439.7	444.8	450.0	453.2	454.7	456.2	457.7	459.2
70°	403.5	408.9	414.3	417.8	419.5	421.2	422.9	424.5
72.5°	369.8	375.7	381.5	385.0	386.3	387.5	388.7	390.0
75°	318.9	324.6	330.2	333.8	335.2	336.6	338.0	339.4
77.5°	267.9	274.1	280.4	284.1	285.2	286.3	287.4	288.5
80°	237.4	243.6	249.9	253.6	254.6	255.8	256.9	258.0
82.5°	208.5	214.5	220.5	224.5	226.5	228.5	230.6	232.6
85°	168.8	175.0	181.2	185.5	187.7	190.0	192.2	194.4
87.5°	139.6	146.3	153.0	157.3	159.4	161.5	163.5	165.7
90°	132.2	139.7	147.1	152.1	154.6	157.1	159.6	162.2
92.5°	146.8	154.3	161.8	166.7	169.1	171.5	173.9	176.3
95°	171.4	178.9	186.4	191.4	193.6	196.0	198.4	200.7
97.5°	202.0	209.1	216.3	220.9	223.1	225.2	227.4	229.5
100°	222.9	230.5	238.1	242.9	245.0	247.0	249.1	251.2
102.5°	245.2	252.7	260.2	265.0	267.2	269.4	271.7	273.9
105°	280.9	287.6	294.3	299.0	301.5	304.0	306.6	309.1
107.5°	321.3	327.4	333.5	337.5	339.2	341.0	342.7	344.4
110°	349.2	355.1	361.0	364.8	366.6	368.4	370.2	372.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	377.1	382.5	387.9	391.4	393.1	394.7	396.3	398.0
115°	420.4	425.3	430.2	433.4	434.9	436.4	437.9	439.4
117.5°	463.3	468.2	473.2	476.2	477.4	478.7	479.8	481.0
120°	492.6	497.4	502.2	505.1	506.1	507.0	508.0	509.0
122.5°	520.9	525.3	529.7	532.5	533.6	534.7	535.8	537.0
125°	563.0	567.1	571.3	574.0	575.2	576.4	577.6	578.9
127.5°	604.4	608.4	612.4	615.0	616.3	617.5	618.8	620.1
130°	632.6	636.3	640.2	642.5	643.6	644.7	645.7	646.7
132.5°	658.9	662.7	666.5	668.7	669.4	670.0	670.7	671.4
135°	699.0	702.7	706.4	708.6	709.2	710.0	710.6	711.3
137.5°	739.3	742.9	746.5	748.4	748.5	748.8	748.9	749.2
140°	764.6	768.0	771.5	773.3	773.6	773.8	774.0	774.2
142.5°	789.8	792.6	795.5	797.0	797.3	797.4	797.7	797.9
145°	827.3	828.7	830.1	831.1	831.7	832.3	832.8	833.4
147.5°	862.9	863.8	864.7	864.8	864.1	863.3	862.6	861.9
150°	885.6	885.6	885.6	885.6	885.5	885.4	885.3	885.2
152.5°	907.6	908.1	908.5	908.4	907.8	907.2	906.6	906.0
155°	939.1	939.9	940.6	940.4	939.6	938.7	937.8	936.8
157.5°	966.4	967.1	967.8	967.6	966.4	965.2	963.9	962.8
160°	982.9	983.7	984.4	984.2	983.3	982.4	981.5	980.6
162.5°	998.4	999.2	1000.1	1000.0	999.0	997.9	996.9	995.8
165°	1019.2	1019.9	1020.7	1020.5	1019.5	1018.3	1017.2	1016.1
167.5°	1034.7	1035.8	1036.9	1036.9	1035.8	1034.6	1033.5	1032.3
170°	1043.9	1045.1	1046.1	1046.0	1044.7	1043.5	1042.2	1040.9
172.5°	1050.5	1051.7	1052.7	1052.7	1051.6	1050.4	1049.3	1048.1
175°	1057.9	1059.1	1060.2	1060.1	1058.8	1057.5	1056.2	1054.9
177.5°	1061.4	1062.3	1063.1	1063.0	1062.0	1060.9	1060.0	1058.9
180°	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.5

(END OF REPORT)