

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: P333326-935

Luminaire Tested: **S125DIP-S1270D1035U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333326-935
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-S1270D1035U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 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: 7325.6 lumens
Efficiency: N/A
Efficacy: 109.7 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

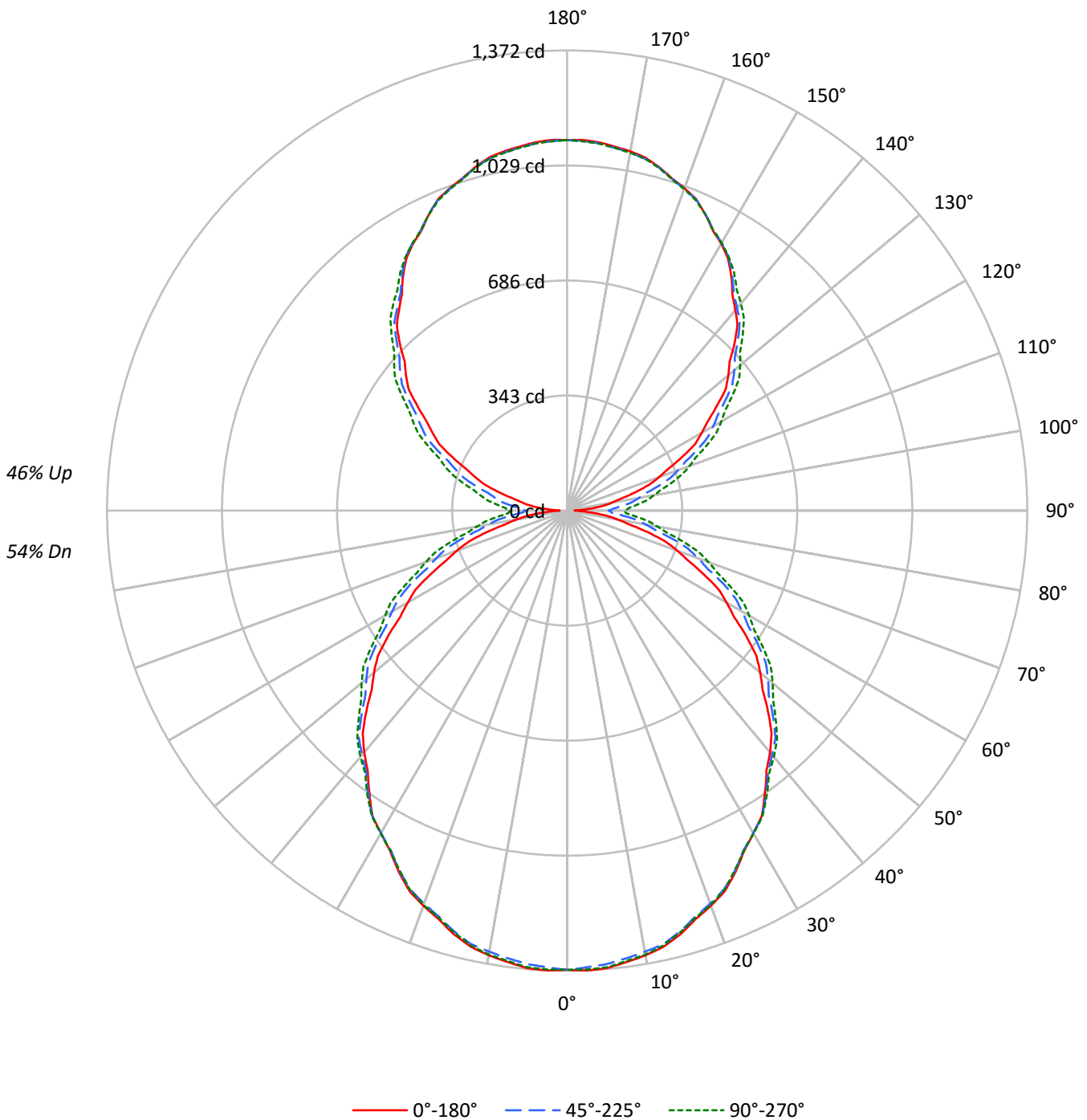
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	83	80	74	71	69	63	61	59	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	57	51	47	48	44	41	40	37	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	35	35	32	29	26
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	26	22
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	29	36	31	26	31	26	23	26	23	20	17
8	54	41	33	27	49	38	31	26	33	27	23	29	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	23	19	24	20	17	21	17	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8843	8843	8843
5°	8860	8680	8707
10°	8797	8525	8512
15°	8694	8339	8263
20°	8552	8110	8015
25°	8384	7865	7709
30°	8181	7595	7431
35°	7991	7346	7176
40°	7797	7085	6920
45°	7579	6861	6693
50°	7370	6618	6491
55°	7119	6390	6255
60°	6846	6128	6014
65°	6558	5855	5742
70°	6233	5481	5463
75°	5719	5122	5121
80°	5046	4687	4749
85°	4423	4393	4630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.8
10°-20°	367.5	5.0
20°-30°	546.6	7.5
30°-40°	647.5	8.8
40°-50°	669.4	9.1
50°-60°	616.7	8.4
60°-70°	498.5	6.8
70°-80°	333.8	4.6
80°-90°	175.5	2.4
90°-100°	171.1	2.3
100°-110°	290.1	4.0
110°-120°	418.0	5.7
120°-130°	514.2	7.0
130°-140°	557.6	7.6
140°-150°	537.2	7.3
150°-160°	449.2	6.1
160°-170°	298.6	4.1
170°-180°	104.5	1.4
0°-30°	1043.6	14.2
0°-40°	1691.1	23.1
0°-60°	2977.2	40.6
0°-90°	3985.0	54.4
90°-120°	879.3	12.0
90°-150°	2488.3	34.0
90°-180°	3341.0	45.6
0°-180°	7325.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1367	130
15°	1308	1308	1299	1307	1302	368
25°	1188	1191	1184	1189	1183	547
35°	1028	1037	1034	1037	1038	643
45°	847	861	868	877	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	351	358	262
85°	74	118	165	194	205	79
90°	22	72	124	158	171	17
95°	73	111	164	198	211	73
105°	208	235	279	310	323	222
115°	378	393	428	450	458	374
125°	546	551	578	597	603	489
135°	706	710	720	737	741	544
145°	853	855	858	864	867	533
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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1372.4	1372.0	1371.5	1371.1	1370.5	1369.5	1367.8	1366.1	1364.5	1362.8	1364.5
5°	1369.2	1368.6	1368.0	1367.4	1366.8	1365.5	1363.4	1361.3	1359.3	1357.2	1359.5
7.5°	1357.2	1356.9	1356.7	1356.4	1356.2	1355.0	1352.9	1350.7	1348.6	1346.4	1348.5
10°	1346.4	1346.4	1346.4	1346.4	1346.4	1345.2	1342.8	1340.5	1338.1	1335.7	1337.7
12.5°	1331.4	1331.6	1331.9	1332.1	1332.3	1331.5	1329.6	1327.7	1325.8	1323.9	1325.5
15°	1307.5	1307.8	1308.1	1308.4	1308.7	1307.8	1305.7	1303.6	1301.6	1299.4	1301.2
17.5°	1276.3	1276.9	1277.6	1278.2	1278.8	1278.0	1275.9	1273.8	1271.7	1269.6	1271.0
20°	1253.8	1254.4	1255.0	1255.6	1256.2	1255.4	1253.4	1251.3	1249.1	1247.1	1248.0
22.5°	1228.0	1229.1	1230.2	1231.2	1232.3	1231.7	1229.3	1227.0	1224.7	1222.4	1223.5
25°	1188.0	1189.0	1189.8	1190.7	1191.6	1191.2	1189.4	1187.6	1185.8	1184.0	1185.2
27.5°	1143.5	1144.8	1146.1	1147.4	1148.7	1148.3	1146.3	1144.3	1142.3	1140.2	1141.1
30°	1110.2	1112.0	1113.7	1115.5	1117.3	1117.3	1115.5	1113.7	1112.0	1110.2	1110.8
32.5°	1080.1	1081.7	1083.2	1084.8	1086.3	1086.4	1085.1	1083.8	1082.4	1081.2	1081.8
35°	1028.3	1030.4	1032.4	1034.6	1036.6	1037.2	1036.3	1035.4	1034.6	1033.6	1034.6
37.5°	976.5	978.4	980.2	982.2	984.1	984.9	984.6	984.3	984.0	983.7	984.9
40°	941.0	943.4	945.8	948.2	950.5	951.6	951.3	951.0	950.7	950.5	951.6
42.5°	902.3	905.4	908.5	911.6	914.8	916.6	917.3	918.0	918.6	919.3	920.7
45°	847.1	850.3	853.6	856.9	860.1	862.5	864.1	865.6	867.0	868.5	870.6
47.5°	790.4	793.4	796.5	799.5	802.5	805.4	808.0	810.5	813.0	815.6	818.7
50°	751.7	755.0	758.3	761.6	764.9	768.2	771.5	774.7	778.0	781.3	784.5
52.5°	710.9	715.0	718.9	722.9	726.9	730.9	734.9	738.9	742.9	746.9	750.4
55°	651.1	655.8	660.6	665.4	670.1	674.9	679.7	684.5	689.2	694.1	697.3
57.5°	589.9	595.6	601.3	607.0	612.8	618.4	623.9	629.3	634.8	640.3	644.1
60°	549.1	555.0	560.9	567.0	572.9	578.9	584.9	590.8	596.8	602.7	607.2
62.5°	509.3	515.3	521.2	527.2	533.1	539.4	545.8	552.2	558.7	565.2	570.1
65°	448.3	455.2	462.1	469.0	475.8	482.8	490.0	497.1	504.3	511.4	515.9
67.5°	390.9	397.5	404.2	410.8	417.4	424.4	431.6	438.9	446.2	453.5	458.9
70°	349.0	355.9	362.7	369.6	376.4	383.7	391.5	399.3	407.1	414.8	420.5
72.5°	308.2	315.3	322.4	329.5	336.7	344.4	352.8	361.4	369.8	378.3	384.4
75°	247.0	254.8	262.5	270.3	278.0	286.7	296.2	305.7	315.3	324.9	330.8
77.5°	188.2	197.2	206.1	215.1	224.0	233.1	242.3	251.4	260.6	269.8	276.4
80°	151.7	160.7	169.6	178.6	187.5	197.0	207.2	217.3	227.5	237.6	244.2
82.5°	118.4	127.9	137.2	146.7	156.1	166.0	176.4	186.8	197.2	207.5	213.9
85°	73.9	83.7	93.5	103.4	113.2	123.4	133.8	144.2	154.6	165.1	171.7
87.5°	42.0	51.9	61.7	71.6	81.5	91.6	102.0	112.4	122.9	133.2	140.3
90°	22.3	33.4	44.5	55.5	66.6	77.9	89.4	100.9	112.4	123.8	131.6
92.5°	40.1	50.0	59.9	69.8	79.7	90.7	102.7	114.8	126.7	138.8	146.7
95°	73.4	81.5	89.6	97.7	105.9	116.0	128.0	140.1	152.1	164.2	172.1
97.5°	108.7	115.8	123.0	130.1	137.2	147.0	159.4	171.9	184.3	196.7	204.2
100°	135.1	141.4	147.7	153.9	160.1	169.3	181.3	193.4	205.4	217.4	225.4
102.5°	163.6	170.1	176.7	183.2	189.9	198.4	209.0	219.5	230.1	240.6	248.6
105°	208.1	213.8	219.6	225.2	231.0	238.9	249.0	259.1	269.1	279.3	286.4
107.5°	257.4	262.3	267.3	272.4	277.4	284.6	294.1	303.6	313.1	322.5	329.0
110°	291.4	295.8	300.4	305.0	309.4	316.2	325.1	334.1	343.0	351.9	358.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	327.1	330.5	333.8	337.2	340.5	346.6	355.5	364.3	373.2	382.0	387.7
115°	378.5	381.4	384.3	387.1	389.9	395.5	403.6	411.7	419.8	428.0	433.2
117.5°	430.2	431.9	433.6	435.3	437.0	441.7	449.4	457.1	464.8	472.4	477.7
120°	463.1	465.0	466.8	468.7	470.5	475.0	482.1	489.1	496.2	503.2	508.2
122.5°	497.8	498.6	499.4	500.2	500.8	504.8	512.0	519.1	526.2	533.3	538.0
125°	546.0	546.9	547.8	548.6	549.4	552.9	559.1	565.2	571.4	577.6	581.9
127.5°	596.2	596.6	597.0	597.4	597.7	600.5	605.5	610.6	615.8	620.9	625.2
130°	627.2	627.8	628.5	629.2	629.8	632.5	637.1	641.6	646.1	650.7	654.7
132.5°	657.1	658.6	660.1	661.6	663.1	665.5	668.6	671.8	674.9	678.0	682.0
135°	705.8	706.7	707.5	708.3	709.2	710.8	713.1	715.3	717.6	719.9	723.8
137.5°	751.7	752.5	753.4	754.2	755.1	756.2	757.7	759.1	760.5	762.0	765.8
140°	780.2	781.1	782.0	783.0	783.9	784.9	785.7	786.6	787.5	788.3	792.0
142.5°	809.7	810.3	810.8	811.4	811.9	812.6	813.4	814.2	814.9	815.8	818.8
145°	853.2	853.7	854.1	854.5	855.1	855.6	856.2	856.7	857.3	857.9	859.4
147.5°	892.1	892.5	892.9	893.4	893.7	894.2	894.7	895.1	895.5	896.0	897.0
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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1366.1	1367.8	1369.5	1370.2	1369.9	1369.8	1369.5	1369.2
5°	1361.9	1364.3	1366.8	1367.8	1367.4	1367.2	1366.8	1366.6
7.5°	1350.6	1352.7	1354.8	1355.6	1355.4	1355.0	1354.8	1354.4
10°	1339.9	1342.0	1344.0	1345.0	1344.6	1344.4	1344.0	1343.8
12.5°	1327.1	1328.7	1330.3	1330.8	1330.0	1329.2	1328.4	1327.7
15°	1303.0	1304.8	1306.6	1306.9	1305.7	1304.5	1303.3	1302.1
17.5°	1272.4	1273.8	1275.1	1275.5	1274.7	1274.0	1273.3	1272.6
20°	1248.9	1249.7	1250.7	1251.1	1251.1	1251.1	1251.1	1251.1
22.5°	1224.7	1225.8	1226.9	1227.1	1226.4	1225.7	1224.9	1224.3
25°	1186.4	1187.6	1188.8	1188.6	1187.1	1185.6	1184.1	1182.7
27.5°	1141.9	1142.7	1143.6	1143.8	1143.1	1142.6	1142.1	1141.6
30°	1111.4	1112.0	1112.6	1112.7	1112.4	1112.1	1111.8	1111.5
32.5°	1082.4	1083.0	1083.6	1083.7	1083.4	1083.1	1082.8	1082.5
35°	1035.4	1036.3	1037.2	1037.7	1037.7	1037.7	1037.7	1037.7
37.5°	986.1	987.3	988.5	989.0	988.9	988.8	988.7	988.5
40°	952.8	954.0	955.2	956.1	956.7	957.3	957.9	958.5
42.5°	922.1	923.6	925.0	925.7	925.9	926.0	926.2	926.3
45°	872.7	874.8	876.8	878.0	878.4	878.7	879.0	879.3
47.5°	821.7	824.8	827.9	829.7	830.3	831.0	831.6	832.3
50°	787.8	791.1	794.4	796.5	797.4	798.3	799.2	800.0
52.5°	754.0	757.5	761.0	763.1	763.7	764.4	765.1	765.7
55°	700.6	703.9	707.1	709.4	710.6	711.8	713.0	714.2
57.5°	647.8	651.6	655.4	657.7	658.6	659.4	660.4	661.2
60°	611.7	616.1	620.6	623.3	624.2	625.1	626.0	626.9
62.5°	575.1	580.0	585.0	588.0	589.1	590.3	591.4	592.5
65°	520.4	524.9	529.3	532.2	533.4	534.6	535.8	536.9
67.5°	464.3	469.8	475.2	478.6	480.2	481.7	483.4	484.9
70°	426.1	431.8	437.5	441.2	443.0	444.8	446.6	448.3
72.5°	390.5	396.7	402.9	406.6	407.9	409.2	410.5	411.8
75°	336.8	342.8	348.7	352.5	354.0	355.4	357.0	358.4
77.5°	282.9	289.5	296.1	300.0	301.2	302.3	303.5	304.7
80°	250.7	257.3	263.9	267.8	268.9	270.1	271.3	272.5
82.5°	220.2	226.5	232.8	237.0	239.2	241.3	243.5	245.6
85°	178.2	184.8	191.4	195.9	198.2	200.6	203.0	205.3
87.5°	147.3	154.4	161.4	166.1	168.2	170.5	172.7	174.9
90°	139.5	147.3	155.1	160.3	163.0	165.7	168.3	171.0
92.5°	154.5	162.5	170.3	175.6	178.1	180.6	183.0	185.5
95°	179.9	187.9	195.8	201.0	203.5	206.0	208.4	210.9
97.5°	211.7	219.2	226.8	231.7	233.9	236.2	238.4	240.6
100°	233.4	241.3	249.3	254.4	256.6	258.8	261.0	263.1
102.5°	256.4	264.3	272.2	277.3	279.7	282.0	284.3	286.6
105°	293.5	300.6	307.7	312.6	315.3	318.0	320.6	323.2
107.5°	335.4	342.0	348.4	352.6	354.4	356.2	358.0	359.8
110°	364.4	370.7	376.9	380.9	382.8	384.8	386.7	388.6



TEST NUMBER: P333326-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	393.4	399.1	404.8	408.5	410.3	412.0	413.7	415.5
115°	438.3	443.5	448.7	452.1	453.7	455.3	456.9	458.5
117.5°	482.8	488.1	493.4	496.5	497.8	499.1	500.3	501.6
120°	513.3	518.4	523.5	526.5	527.5	528.6	529.6	530.6
122.5°	542.7	547.3	552.0	554.9	556.1	557.3	558.4	559.6
125°	586.3	590.7	595.1	598.0	599.3	600.5	601.8	603.2
127.5°	629.4	633.6	637.8	640.6	642.0	643.3	644.6	646.0
130°	658.7	662.6	666.7	669.2	670.3	671.4	672.5	673.6
132.5°	686.0	690.0	694.0	696.3	697.1	697.8	698.4	699.2
135°	727.6	731.5	735.4	737.7	738.4	739.2	739.9	740.6
137.5°	769.5	773.3	777.0	778.9	779.2	779.5	779.7	780.0
140°	795.7	799.4	803.0	804.9	805.2	805.4	805.6	805.9
142.5°	821.8	824.8	827.9	829.6	829.7	830.0	830.3	830.5
145°	860.8	862.4	863.8	864.9	865.5	866.2	866.8	867.4
147.5°	897.9	898.8	899.7	899.8	899.1	898.4	897.6	896.8
150°	921.4	921.4	921.4	921.4	921.4	921.3	921.2	921.1
152.5°	944.4	944.9	945.3	945.2	944.6	944.0	943.3	942.7
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

(END OF REPORT)