

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: P333326-930

Luminaire Tested: **S125DIP-S1270D1035U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333326-930  
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: S125DIP-S1270D1035U930-4F0-1E-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

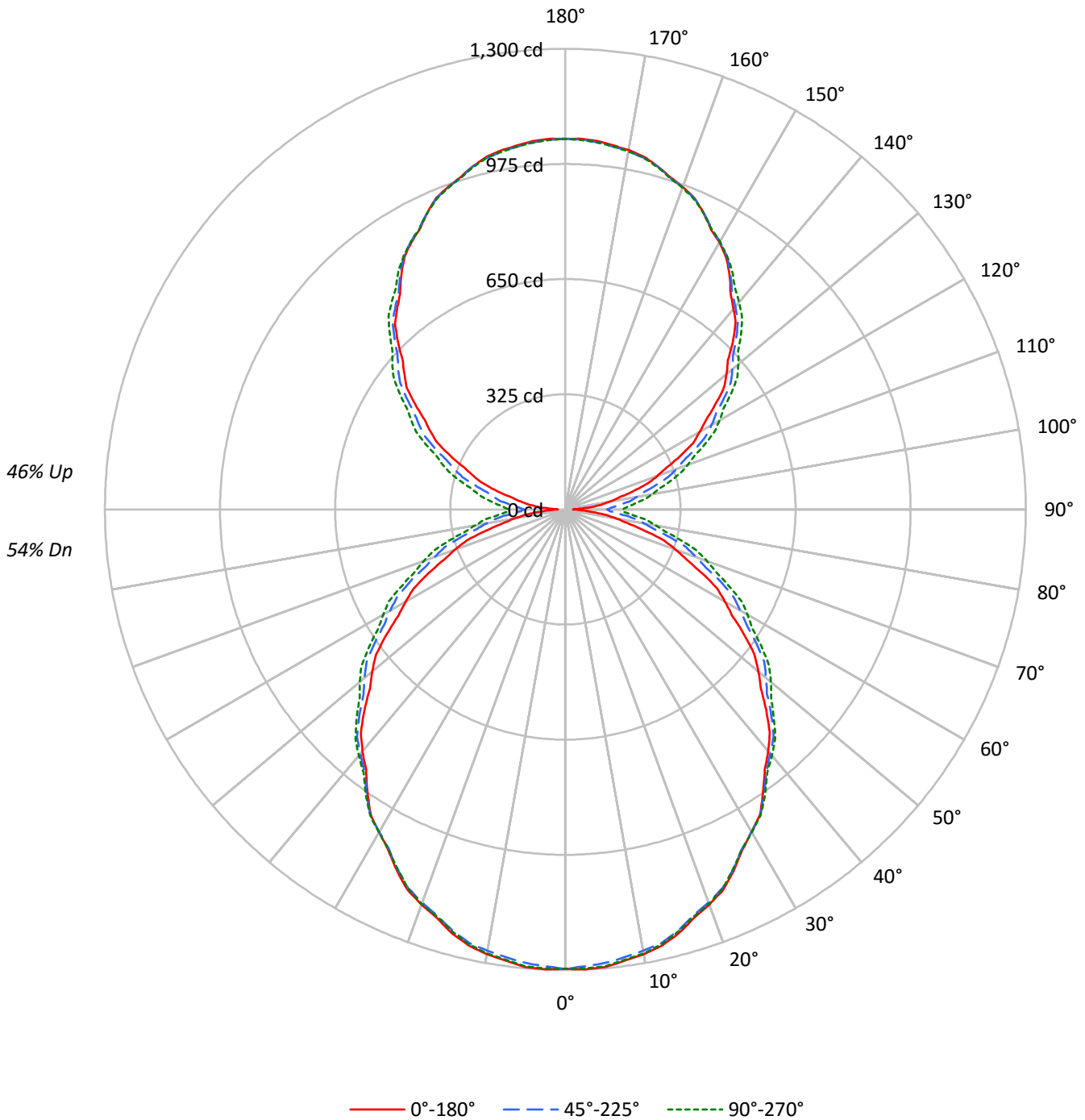
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6936.8 lumens  
Efficiency: N/A  
Efficacy: 103.8 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	54	54	54																
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	50	49	44	44	44	44																
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41	36	36	36	36																
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	34	30	30	30	30																
4	74	63	54	48	68	58	51	45	50	44	40	42	38	35	35	32	29	26	26	26	26																
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	26	22	22	22	22																
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22	19	19	19	19																
7	58	45	37	31	53	42	35	29	36	31	26	31	26	23	26	23	20	17	17	17	17																
8	54	41	33	27	49	38	31	26	33	27	23	29	24	20	24	20	18	15	15	15	15																
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16	14	14	14	14																
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	14	13	13	13	13																

**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	7.5
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	4.6
80°-90°	166.2	2.4
90°-100°	162.0	2.3
100°-110°	274.7	4.0
110°-120°	395.9	5.7
120°-130°	486.9	7.0
130°-140°	528.0	7.6
140°-150°	508.7	7.3
150°-160°	425.4	6.1
160°-170°	282.7	4.1
170°-180°	98.9	1.4
0°-30°	988.2	14.2
0°-40°	1601.3	23.1
0°-60°	2819.2	40.6
0°-90°	3773.5	54.4
90°-120°	832.6	12.0
90°-150°	2356.2	34.0
90°-180°	3163.0	45.6
0°-180°	6936.8	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	68	117	149	162	16
95°	70	105	156	188	200	69
105°	197	222	264	294	306	210
115°	358	372	405	426	434	354
125°	517	522	547	565	571	463
135°	668	672	682	697	701	515
145°	808	810	812	818	821	505
155°	923	923	924	927	923	425
165°	1004	1002	1003	1006	1001	283
175°	1044	1040	1040	1045	1039	99
180°	1046	1046	1046	1046	1046	



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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	126.1	132.8
90°	21.1	31.6	42.2	52.6	63.1	73.8	84.6	95.6	106.4	117.2	124.7
92.5°	38.0	47.4	56.7	66.1	75.5	85.9	97.3	108.7	120.0	131.4	138.9
95°	69.5	77.1	84.9	92.5	100.3	109.8	121.2	132.6	144.1	155.5	163.0
97.5°	102.9	109.7	116.4	123.2	130.0	139.2	150.9	162.7	174.5	186.2	193.4
100°	127.9	133.9	139.8	145.7	151.6	160.3	171.7	183.1	194.5	205.9	213.4
102.5°	154.9	161.1	167.3	173.5	179.8	187.8	197.9	207.8	217.8	227.9	235.4
105°	197.1	202.4	207.9	213.3	218.7	226.2	235.8	245.3	254.9	264.5	271.2
107.5°	243.7	248.4	253.2	258.0	262.7	269.5	278.5	287.5	296.4	305.4	311.5
110°	275.9	280.1	284.5	288.8	293.0	299.5	307.9	316.3	324.8	333.2	339.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	309.7	312.9	316.1	319.3	322.5	328.2	336.6	345.0	353.4	361.7	367.1
115°	358.4	361.2	363.9	366.6	369.2	374.5	382.1	389.9	397.5	405.3	410.2
117.5°	407.3	409.0	410.6	412.2	413.8	418.2	425.5	432.8	440.1	447.4	452.3
120°	438.5	440.3	442.1	443.8	445.6	449.8	456.5	463.2	469.9	476.5	481.3
122.5°	471.4	472.1	472.9	473.6	474.3	478.0	484.8	491.5	498.2	505.0	509.4
125°	517.1	517.9	518.7	519.5	520.2	523.6	529.5	535.2	541.1	546.9	551.1
127.5°	564.6	564.9	565.3	565.7	566.0	568.6	573.4	578.2	583.1	587.9	592.0
130°	593.9	594.5	595.2	595.8	596.4	598.9	603.2	607.6	611.8	616.1	620.0
132.5°	622.2	623.6	625.1	626.5	627.9	630.1	633.1	636.1	639.0	642.0	645.8
135°	668.4	669.2	669.9	670.7	671.6	673.0	675.2	677.4	679.6	681.7	685.3
137.5°	711.8	712.6	713.4	714.2	715.0	716.1	717.5	718.8	720.2	721.5	725.1
140°	738.7	739.6	740.5	741.4	742.3	743.2	744.0	744.9	745.7	746.5	750.0
142.5°	766.7	767.3	767.8	768.3	768.8	769.5	770.2	770.9	771.7	772.5	775.3
145°	807.9	808.4	808.8	809.2	809.7	810.2	810.7	811.2	811.8	812.4	813.8
147.5°	844.7	845.1	845.5	846.0	846.3	846.8	847.2	847.6	848.0	848.5	849.4
150°	870.1	869.9	869.8	869.6	869.4	869.7	870.4	871.1	871.8	872.5	872.5
152.5°	891.0	891.2	891.4	891.7	891.9	892.3	892.5	892.8	893.1	893.4	893.8
155°	923.0	923.0	923.0	923.0	923.0	923.1	923.3	923.5	923.7	923.8	924.5
157.5°	951.7	951.3	950.9	950.5	950.1	950.0	950.1	950.3	950.6	950.7	951.5
160°	968.6	968.1	967.5	966.9	966.5	966.3	966.5	966.6	966.8	966.9	967.7
162.5°	983.6	983.2	982.8	982.4	982.0	981.8	981.9	981.9	981.9	981.9	982.8
165°	1003.6	1003.2	1002.9	1002.5	1002.2	1002.1	1002.2	1002.4	1002.6	1002.8	1003.6
167.5°	1020.5	1019.8	1019.1	1018.4	1017.7	1017.2	1017.2	1017.2	1017.2	1017.2	1018.4
170°	1029.6	1028.9	1028.2	1027.5	1026.8	1026.4	1026.4	1026.4	1026.4	1026.4	1027.5
172.5°	1036.2	1035.4	1034.7	1034.0	1033.3	1032.9	1032.9	1032.9	1032.9	1032.9	1034.0
175°	1043.5	1042.8	1042.0	1041.3	1040.6	1040.2	1040.2	1040.2	1040.2	1040.2	1041.3
177.5°	1047.3	1046.7	1046.1	1045.5	1044.9	1044.6	1044.4	1044.2	1044.2	1044.0	1044.9
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9



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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°	139.5	146.2	152.9	157.3	159.3	161.4	163.5	165.6
90°	132.1	139.5	146.8	151.8	154.3	156.9	159.4	161.9
92.5°	146.3	153.8	161.3	166.2	168.6	171.0	173.3	175.7
95°	170.4	177.9	185.4	190.3	192.7	195.0	197.3	199.7
97.5°	200.5	207.6	214.7	219.4	221.5	223.6	225.8	227.9
100°	221.0	228.5	236.1	240.9	243.0	245.1	247.1	249.2
102.5°	242.8	250.3	257.8	262.6	264.8	267.0	269.2	271.4
105°	277.9	284.6	291.4	296.0	298.6	301.1	303.5	306.1
107.5°	317.6	323.8	330.0	333.9	335.6	337.3	339.0	340.7
110°	345.0	351.0	356.9	360.7	362.5	364.4	366.2	367.9





TEST NUMBER: P333326-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	372.5	377.9	383.3	386.9	388.5	390.1	391.8	393.5
115°	415.1	420.0	424.9	428.1	429.6	431.1	432.7	434.1
117.5°	457.2	462.2	467.2	470.2	471.4	472.6	473.8	475.0
120°	486.1	490.9	495.7	498.6	499.5	500.5	501.5	502.5
122.5°	513.9	518.3	522.7	525.5	526.6	527.7	528.8	529.9
125°	555.2	559.4	563.5	566.2	567.4	568.7	569.9	571.2
127.5°	596.0	600.0	604.0	606.6	607.9	609.1	610.4	611.7
130°	623.7	627.5	631.3	633.7	634.7	635.8	636.8	637.9
132.5°	649.5	653.4	657.1	659.3	660.1	660.7	661.4	662.1
135°	689.0	692.7	696.3	698.5	699.2	699.9	700.6	701.3
137.5°	728.6	732.2	735.7	737.6	737.8	738.1	738.3	738.6
140°	753.4	756.9	760.3	762.2	762.5	762.6	762.9	763.1
142.5°	778.2	781.1	784.0	785.5	785.7	785.9	786.2	786.4
145°	815.1	816.6	818.0	819.0	819.5	820.2	820.8	821.3
147.5°	850.3	851.1	852.0	852.1	851.3	850.7	849.9	849.2
150°	872.5	872.5	872.5	872.5	872.5	872.4	872.3	872.2
152.5°	894.3	894.7	895.1	895.0	894.5	893.9	893.2	892.7
155°	925.3	926.0	926.8	926.7	925.8	924.8	923.9	923.0
157.5°	952.1	952.8	953.6	953.3	952.2	951.0	949.7	948.6
160°	968.4	969.1	969.9	969.8	968.9	968.0	967.1	966.1
162.5°	983.7	984.6	985.5	985.4	984.3	983.3	982.2	981.1
165°	1004.2	1004.9	1005.7	1005.5	1004.4	1003.3	1002.2	1001.2
167.5°	1019.5	1020.5	1021.7	1021.6	1020.5	1019.4	1018.2	1017.1
170°	1028.6	1029.6	1030.7	1030.6	1029.4	1028.1	1026.9	1025.6
172.5°	1035.1	1036.2	1037.2	1037.2	1036.1	1035.0	1033.9	1032.7
175°	1042.4	1043.5	1044.6	1044.5	1043.3	1042.0	1040.6	1039.4
177.5°	1045.7	1046.6	1047.4	1047.4	1046.4	1045.4	1044.3	1043.3
180°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9

(END OF REPORT)