

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: P333334-930

Luminaire Tested: **S125DIP-S1270D1205U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333334-930  
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: S125DIP-S1270D1205U930-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

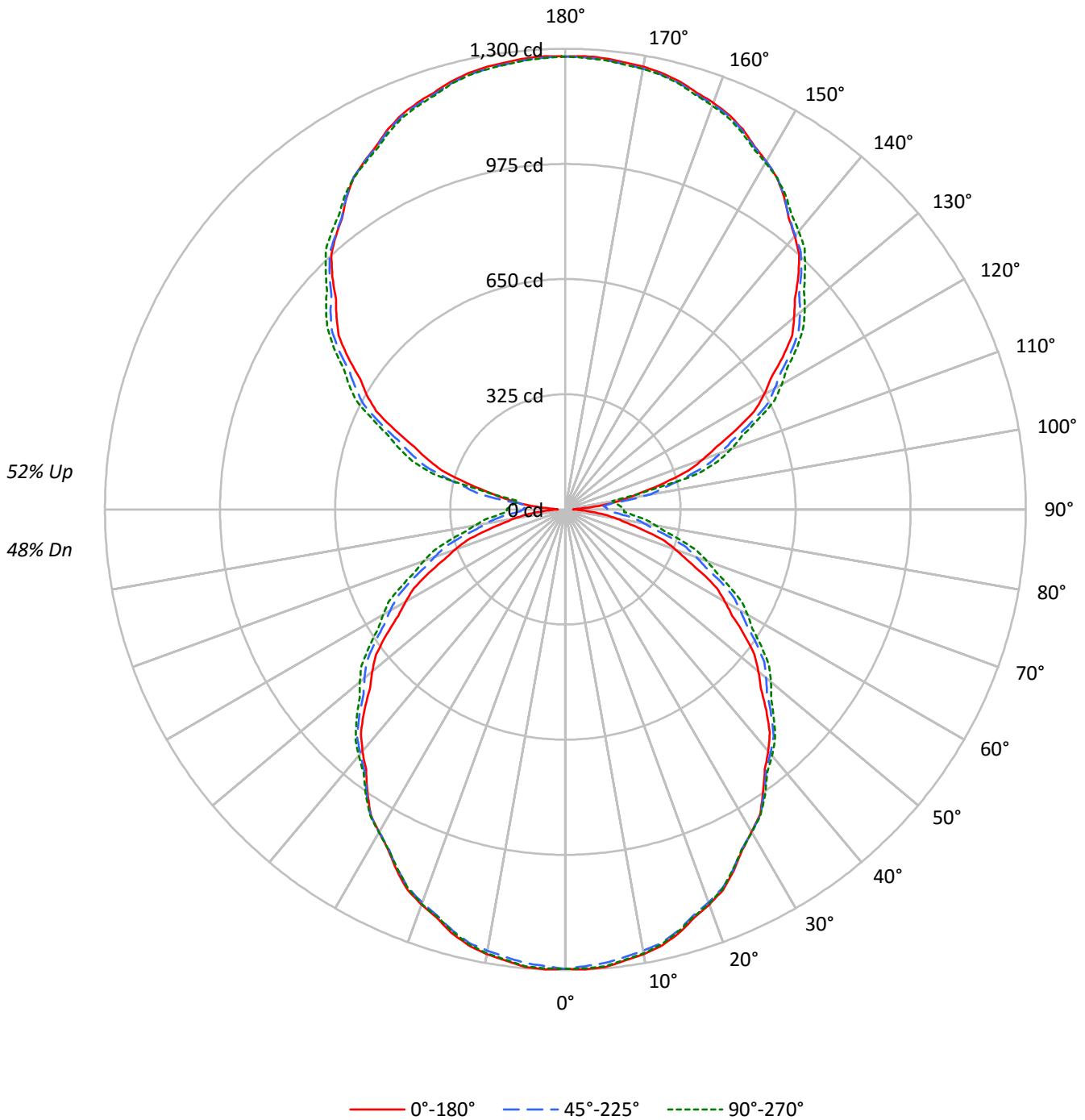
Lumens per Lamp: N/A  
Luminaire Lumens: 7943.7 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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



TEST NUMBER: P333334-930  
CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	92	88	84	88	85	81	78	71	68	66	58	56	55	46	45	44	39
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	40	38	37	32
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	33	31	27
4	73	62	54	47	67	57	50	44	48	42	38	40	35	32	32	29	26	23
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23	19
6	61	49	41	35	56	45	38	33	38	33	28	32	28	24	26	23	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18	15
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	22	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14	12
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11

**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



TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	1.5
10°-20°	348.0	4.4
20°-30°	517.6	6.5
30°-40°	613.1	7.7
40°-50°	633.9	8.0
50°-60°	583.9	7.4
60°-70°	472.0	5.9
70°-80°	316.1	4.0
80°-90°	166.6	2.1
90°-100°	138.4	1.7
100°-110°	354.1	4.5
110°-120°	564.6	7.1
120°-130°	692.1	8.7
130°-140°	728.0	9.2
140°-150°	675.0	8.5
150°-160°	544.2	6.9
160°-170°	351.9	4.4
170°-180°	121.4	1.5
0°-30°	988.2	12.4
0°-40°	1601.3	20.2
0°-60°	2819.2	35.5
0°-90°	3773.9	47.5
90°-120°	1057.2	13.3
90°-150°	3152.3	39.7
90°-180°	4170.0	52.5
0°-180°	7943.7	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	70	119	152	165	16
95°	70	99	108	139	150	82
105°	290	315	352	377	386	307
115°	531	545	578	596	599	526
125°	749	755	780	796	800	668
135°	930	935	942	955	957	717
145°	1077	1077	1077	1084	1084	673
155°	1184	1179	1181	1183	1176	545
165°	1250	1244	1245	1250	1243	353
175°	1278	1273	1274	1280	1272	122
180°	1278	1278	1278	1278	1278	



TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**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°	39.9	49.2	58.6	68.0	77.4	87.0	96.9	106.8	116.7	126.6	133.3
90°	21.3	32.0	42.7	53.5	64.2	75.1	86.2	97.3	108.4	119.4	126.9
92.5°	32.9	40.1	47.3	54.5	61.6	70.8	81.9	93.0	104.2	115.4	122.6
95°	70.5	77.2	84.0	90.7	97.3	101.5	103.1	104.8	106.3	107.9	115.2
97.5°	127.8	135.5	143.2	151.0	158.7	159.3	152.8	146.2	139.7	133.1	133.1
100°	172.2	178.8	185.3	191.9	198.4	206.7	216.5	226.5	236.4	246.2	220.8
102.5°	217.4	223.7	230.0	236.3	242.6	250.4	259.7	269.0	278.3	287.6	287.4
105°	290.0	295.4	300.8	306.1	311.4	318.4	326.9	335.3	343.8	352.3	357.9
107.5°	365.4	369.2	373.1	376.9	380.8	387.0	395.6	404.1	412.6	421.2	426.9
110°	414.4	417.8	421.2	424.6	428.0	433.8	442.2	450.5	458.9	467.2	471.9



TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	461.5	464.6	467.9	471.1	474.3	479.9	487.8	495.8	503.7	511.6	516.0
115°	530.7	533.7	536.7	539.7	542.7	548.0	555.6	563.2	570.7	578.3	582.5
117.5°	602.3	603.6	604.9	606.1	607.4	611.9	619.6	627.4	635.1	642.9	646.6
120°	647.8	648.5	649.1	649.7	650.4	654.3	661.4	668.5	675.6	682.8	687.1
122.5°	687.0	688.2	689.4	690.6	691.8	695.6	702.2	708.8	715.3	721.9	726.1
125°	748.9	750.1	751.3	752.4	753.7	757.1	762.7	768.3	774.0	779.7	783.3
127.5°	806.9	807.7	808.5	809.3	810.0	812.7	817.2	821.7	826.1	830.7	834.4
130°	843.3	844.1	844.9	845.6	846.4	848.9	853.0	857.2	861.4	865.5	868.9
132.5°	878.7	879.9	881.0	882.2	883.4	885.3	887.8	890.4	893.0	895.6	899.4
135°	930.2	931.2	932.1	933.1	934.1	935.4	936.9	938.5	940.0	941.6	944.9
137.5°	977.5	978.4	979.3	980.1	981.0	981.7	982.3	982.8	983.4	984.0	987.4
140°	1007.5	1008.0	1008.4	1008.8	1009.3	1009.5	1009.6	1009.6	1009.7	1009.7	1013.3
142.5°	1035.6	1035.6	1035.7	1035.7	1035.7	1035.9	1036.2	1036.6	1037.0	1037.3	1040.0
145°	1076.7	1076.8	1077.0	1077.1	1077.3	1077.3	1077.3	1077.3	1077.3	1077.3	1079.0
147.5°	1111.4	1111.3	1111.3	1111.2	1111.1	1111.2	1111.4	1111.7	1112.0	1112.2	1112.9
150°	1134.2	1133.8	1133.3	1132.9	1132.5	1132.5	1132.9	1133.3	1133.8	1134.2	1134.6
152.5°	1156.2	1155.3	1154.3	1153.4	1152.4	1152.2	1152.7	1153.1	1153.5	1153.9	1154.3
155°	1184.4	1183.2	1181.9	1180.6	1179.3	1178.9	1179.3	1179.7	1180.2	1180.6	1181.3
157.5°	1206.2	1205.4	1204.7	1204.0	1203.1	1202.8	1202.9	1202.9	1203.0	1203.0	1203.6
160°	1221.4	1220.1	1218.9	1217.6	1216.3	1215.8	1216.0	1216.2	1216.4	1216.6	1217.5
162.5°	1233.5	1232.2	1230.9	1229.7	1228.4	1227.9	1228.1	1228.3	1228.6	1228.7	1230.0
165°	1249.8	1248.5	1247.2	1246.0	1244.7	1244.2	1244.4	1244.6	1244.8	1245.0	1246.3
167.5°	1261.9	1260.6	1259.3	1258.0	1256.7	1256.1	1256.4	1256.5	1256.8	1257.0	1258.5
170°	1268.8	1267.3	1265.8	1264.3	1262.8	1262.2	1262.4	1262.7	1262.8	1263.1	1264.8
172.5°	1273.3	1271.8	1270.3	1268.9	1267.4	1266.8	1267.2	1267.6	1268.0	1268.4	1269.9
175°	1278.2	1276.9	1275.7	1274.4	1273.2	1272.6	1272.8	1273.1	1273.3	1273.5	1275.1
177.5°	1280.5	1279.4	1278.5	1277.5	1276.4	1276.0	1276.2	1276.4	1276.5	1276.7	1277.9
180°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2



TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**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°	140.0	146.7	153.4	157.8	160.0	162.0	164.1	166.2
90°	134.5	142.0	149.6	154.7	157.3	159.9	162.5	165.1
92.5°	130.0	137.3	144.6	149.4	151.7	153.9	156.2	158.5
95°	122.5	129.8	137.1	141.6	143.7	145.6	147.6	149.5
97.5°	133.1	133.1	133.1	134.0	135.9	137.9	139.7	141.7
100°	195.3	169.9	144.5	132.2	133.0	133.9	134.7	135.6
102.5°	287.1	286.9	286.7	280.3	267.7	255.0	242.4	229.8
105°	363.5	369.2	374.9	378.5	380.3	382.1	383.8	385.6
107.5°	432.5	438.1	443.8	447.1	448.3	449.4	450.5	451.6
110°	476.6	481.4	486.1	489.6	491.8	494.0	496.1	498.3





TEST NUMBER: P333334-930

CATALOG NUMBER: S125DIP-S1270D1205U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	520.3	524.6	529.0	532.0	533.7	535.4	537.0	538.7
115°	586.8	591.0	595.3	597.6	598.0	598.4	598.9	599.3
117.5°	650.3	654.0	657.7	660.2	661.6	663.0	664.4	665.8
120°	691.5	695.9	700.3	702.8	703.4	704.1	704.7	705.4
122.5°	730.3	734.3	738.5	740.9	741.4	741.8	742.2	742.7
125°	787.0	790.7	794.4	796.6	797.4	798.2	799.0	799.7
127.5°	838.1	841.8	845.5	847.4	847.5	847.6	847.7	847.7
130°	872.2	875.5	878.8	880.7	881.0	881.4	881.7	882.1
132.5°	903.3	907.0	910.9	912.9	913.0	913.1	913.3	913.4
135°	948.1	951.4	954.6	956.3	956.4	956.6	956.8	956.9
137.5°	990.8	994.3	997.7	999.4	999.5	999.5	999.5	999.6
140°	1016.8	1020.3	1023.9	1025.6	1025.4	1025.3	1025.2	1025.1
142.5°	1042.8	1045.5	1048.2	1049.5	1049.5	1049.3	1049.1	1049.0
145°	1080.6	1082.2	1083.9	1084.6	1084.4	1084.3	1084.2	1084.0
147.5°	1113.6	1114.4	1115.0	1114.8	1113.9	1112.9	1111.8	1110.8
150°	1135.1	1135.5	1135.9	1135.4	1134.0	1132.6	1131.1	1129.8
152.5°	1154.7	1155.2	1155.6	1155.0	1153.6	1152.2	1150.7	1149.2
155°	1181.9	1182.5	1183.2	1182.6	1181.0	1179.2	1177.5	1175.9
157.5°	1204.4	1205.0	1205.7	1205.2	1203.5	1201.8	1200.1	1198.4
160°	1218.3	1219.1	1220.0	1219.6	1217.9	1216.2	1214.6	1212.8
162.5°	1231.1	1232.3	1233.5	1233.1	1231.3	1229.4	1227.6	1225.7
165°	1247.6	1248.9	1250.1	1249.9	1248.2	1246.5	1244.8	1243.2
167.5°	1260.0	1261.5	1263.1	1262.9	1260.9	1259.1	1257.2	1255.3
170°	1266.4	1268.1	1269.8	1269.7	1267.8	1265.9	1264.0	1262.1
172.5°	1271.4	1272.9	1274.4	1274.2	1272.4	1270.5	1268.5	1266.6
175°	1276.8	1278.6	1280.2	1280.1	1278.2	1276.4	1274.4	1272.5
177.5°	1279.0	1280.3	1281.4	1281.3	1280.0	1278.6	1277.2	1275.9
180°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2

(END OF REPORT)