

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: P333326-940

Luminaire Tested: **S125DIP-S1270D1035U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333326-940
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-S1270D1035U940-4F0-1E-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: 7586.9 lumens
Efficiency: N/A
Efficacy: 113.6 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

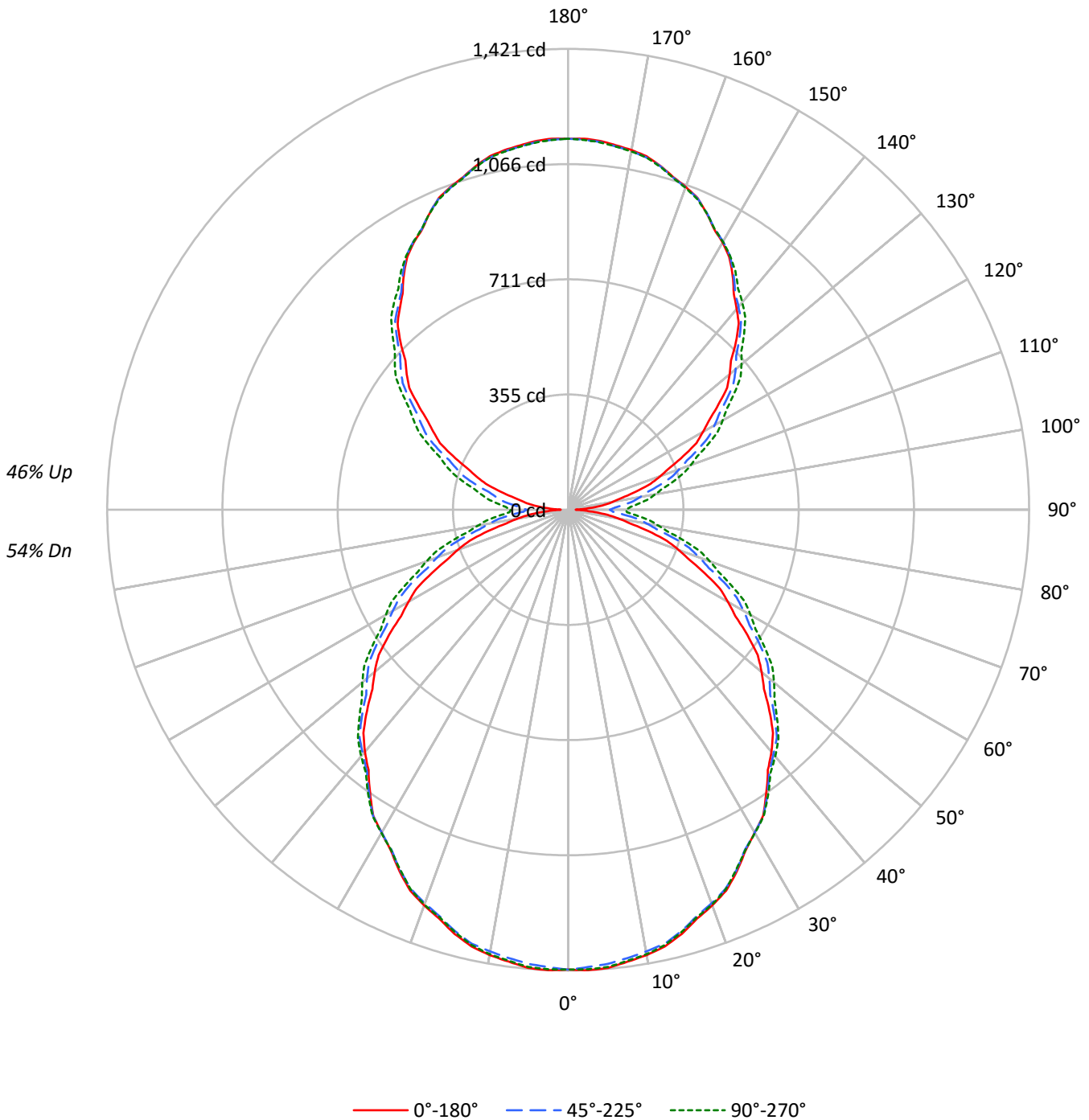
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9159	9159	9159
5°	9177	8990	9018
10°	9112	8829	8816
15°	9004	8637	8558
20°	8857	8400	8301
25°	8683	8145	7984
30°	8473	7865	7696
35°	8276	7608	7432
40°	8075	7338	7167
45°	7849	7106	6931
50°	7633	6854	6723
55°	7373	6618	6478
60°	7089	6346	6229
65°	6792	6064	5947
70°	6457	5677	5658
75°	5923	5304	5304
80°	5225	4854	4918
85°	4578	4550	4797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.8
10°-20°	380.7	5.0
20°-30°	566.1	7.5
30°-40°	670.6	8.8
40°-50°	693.3	9.1
50°-60°	638.7	8.4
60°-70°	516.3	6.8
70°-80°	345.7	4.6
80°-90°	181.8	2.4
90°-100°	177.2	2.3
100°-110°	300.4	4.0
110°-120°	432.9	5.7
120°-130°	532.6	7.0
130°-140°	577.5	7.6
140°-150°	556.4	7.3
150°-160°	465.2	6.1
160°-170°	309.2	4.1
170°-180°	108.2	1.4
0°-30°	1080.9	14.2
0°-40°	1751.4	23.1
0°-60°	3083.4	40.6
0°-90°	4127.2	54.4
90°-120°	910.6	12.0
90°-150°	2577.0	34.0
90°-180°	3460.0	45.6
0°-180°	7586.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1418	1415	1406	1416	1415	134
15°	1354	1355	1346	1353	1348	381
25°	1230	1234	1226	1231	1225	566
35°	1065	1074	1070	1074	1075	666
45°	877	892	900	909	911	677
55°	674	696	719	734	740	603
65°	464	496	530	550	556	461
75°	256	292	336	363	371	271
85°	76	123	171	201	213	81
90°	23	75	128	163	177	18
95°	76	115	170	205	218	76
105°	216	243	289	321	335	230
115°	392	407	443	466	475	388
125°	566	571	598	618	625	506
135°	731	735	746	763	767	563
145°	884	886	888	895	898	552
155°	1010	1010	1010	1014	1010	465
165°	1098	1096	1097	1100	1095	310
175°	1141	1138	1138	1142	1137	108
180°	1144	1144	1144	1144	1144	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1421.4	1420.9	1420.4	1420.0	1419.4	1418.4	1416.6	1414.9	1413.2	1411.4	1413.2
5°	1418.1	1417.5	1416.8	1416.2	1415.6	1414.3	1412.0	1409.9	1407.7	1405.6	1408.0
7.5°	1405.6	1405.3	1405.1	1404.8	1404.6	1403.4	1401.1	1398.9	1396.7	1394.5	1396.6
10°	1394.5	1394.5	1394.5	1394.5	1394.5	1393.2	1390.7	1388.3	1385.8	1383.3	1385.5
12.5°	1378.9	1379.1	1379.4	1379.7	1379.8	1379.0	1377.1	1375.0	1373.1	1371.1	1372.8
15°	1354.2	1354.4	1354.8	1355.0	1355.4	1354.4	1352.3	1350.1	1348.0	1345.8	1347.6
17.5°	1321.9	1322.5	1323.1	1323.7	1324.4	1323.6	1321.4	1319.3	1317.1	1314.9	1316.3
20°	1298.5	1299.1	1299.8	1300.4	1301.0	1300.2	1298.1	1295.9	1293.7	1291.6	1292.5
22.5°	1271.8	1272.9	1274.1	1275.1	1276.3	1275.6	1273.2	1270.8	1268.4	1266.0	1267.1
25°	1230.4	1231.4	1232.3	1233.1	1234.1	1233.7	1231.8	1229.9	1228.1	1226.2	1227.4
27.5°	1184.3	1185.6	1187.0	1188.3	1189.7	1189.3	1187.2	1185.1	1183.0	1180.9	1181.8
30°	1149.8	1151.6	1153.4	1155.3	1157.2	1157.2	1155.3	1153.4	1151.6	1149.8	1150.4
32.5°	1118.7	1120.3	1121.9	1123.5	1125.1	1125.2	1123.8	1122.5	1121.1	1119.7	1120.3
35°	1065.0	1067.1	1069.3	1071.5	1073.6	1074.2	1073.3	1072.4	1071.5	1070.5	1071.5
37.5°	1011.3	1013.3	1015.2	1017.3	1019.2	1020.0	1019.8	1019.4	1019.1	1018.8	1020.0
40°	974.6	977.0	979.5	982.0	984.4	985.5	985.3	984.9	984.6	984.4	985.5
42.5°	934.5	937.7	940.9	944.1	947.4	949.3	950.0	950.7	951.4	952.1	953.5
45°	877.3	880.7	884.0	887.4	890.8	893.3	894.9	896.4	898.0	899.5	901.7
47.5°	818.6	821.7	824.9	828.0	831.2	834.1	836.8	839.5	842.0	844.7	847.9
50°	778.6	781.9	785.3	788.7	792.2	795.6	799.0	802.4	805.7	809.1	812.5
52.5°	736.3	740.5	744.6	748.7	752.9	757.0	761.2	765.3	769.4	773.6	777.2
55°	674.3	679.2	684.2	689.1	694.0	699.0	703.9	708.9	713.8	718.8	722.2
57.5°	610.9	616.8	622.8	628.7	634.6	640.4	646.1	651.8	657.5	663.2	667.1
60°	568.6	574.8	580.9	587.2	593.3	599.5	605.7	611.9	618.0	624.2	628.8
62.5°	527.4	533.7	539.8	546.0	552.1	558.7	565.3	571.9	578.6	585.3	590.4
65°	464.3	471.4	478.6	485.7	492.8	500.1	507.5	514.9	522.3	529.7	534.3
67.5°	404.8	411.7	418.6	425.4	432.3	439.5	447.0	454.6	462.1	469.7	475.3
70°	361.5	368.5	375.7	382.8	389.9	397.4	405.5	413.6	421.6	429.6	435.5
72.5°	319.2	326.5	333.9	341.3	348.7	356.7	365.4	374.3	383.0	391.8	398.1
75°	255.8	263.9	271.9	279.9	287.9	296.9	306.7	316.6	326.5	336.4	342.6
77.5°	194.9	204.2	213.5	222.7	232.0	241.4	250.9	260.4	269.9	279.5	286.2
80°	157.1	166.4	175.7	184.9	194.2	204.0	214.5	225.1	235.6	246.1	252.9
82.5°	122.6	132.4	142.1	151.9	161.7	171.9	182.7	193.4	204.2	214.9	221.5
85°	76.5	86.7	96.8	107.1	117.3	127.8	138.6	149.4	160.2	171.0	177.8
87.5°	43.5	53.8	63.9	74.2	84.4	94.9	105.7	116.5	127.2	137.9	145.3
90°	23.1	34.6	46.1	57.5	69.0	80.7	92.6	104.5	116.4	128.2	136.3
92.5°	41.6	51.8	62.1	72.3	82.6	93.9	106.4	118.9	131.3	143.7	151.9
95°	76.0	84.4	92.8	101.2	109.7	120.1	132.6	145.1	157.6	170.0	178.3
97.5°	112.5	119.9	127.3	134.7	142.1	152.2	165.1	178.0	190.8	203.7	211.5
100°	139.9	146.4	152.9	159.3	165.9	175.3	187.8	200.3	212.8	225.2	233.4
102.5°	169.4	176.2	183.0	189.8	196.6	205.5	216.4	227.3	238.3	249.2	257.4
105°	215.5	221.4	227.4	233.3	239.2	247.4	257.9	268.3	278.7	289.3	296.6
107.5°	266.5	271.7	276.9	282.1	287.3	294.8	304.6	314.4	324.2	334.0	340.7
110°	301.8	306.4	311.1	315.8	320.5	327.5	336.7	346.0	355.3	364.4	371.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	338.8	342.2	345.7	349.2	352.7	359.0	368.2	377.3	386.5	395.7	401.5
115°	392.0	395.0	398.0	400.9	403.9	409.6	417.9	426.4	434.8	443.3	448.6
117.5°	445.5	447.3	449.1	450.8	452.6	457.4	465.4	473.4	481.3	489.3	494.7
120°	479.7	481.6	483.5	485.4	487.3	492.0	499.3	506.6	513.9	521.1	526.4
122.5°	515.6	516.4	517.2	518.0	518.7	522.8	530.2	537.6	544.9	552.3	557.1
125°	565.5	566.4	567.3	568.2	569.0	572.7	579.1	585.4	591.8	598.2	602.7
127.5°	617.5	617.9	618.3	618.7	619.0	621.9	627.1	632.4	637.8	643.0	647.5
130°	649.6	650.2	650.9	651.7	652.3	655.1	659.8	664.5	669.1	673.9	678.1
132.5°	680.6	682.1	683.7	685.2	686.8	689.2	692.4	695.7	698.9	702.2	706.3
135°	731.0	731.9	732.7	733.6	734.5	736.1	738.5	740.8	743.2	745.6	749.6
137.5°	778.5	779.4	780.2	781.1	782.0	783.2	784.7	786.2	787.6	789.2	793.1
140°	808.0	809.0	809.9	810.9	811.9	812.9	813.8	814.7	815.6	816.5	820.3
142.5°	838.6	839.2	839.7	840.3	840.9	841.6	842.4	843.2	844.0	844.9	848.0
145°	883.6	884.1	884.6	885.0	885.6	886.1	886.7	887.3	887.9	888.5	890.0
147.5°	923.9	924.3	924.8	925.2	925.6	926.1	926.6	927.0	927.5	928.0	929.0
150°	951.6	951.5	951.3	951.1	950.9	951.2	952.0	952.8	953.5	954.3	954.3
152.5°	974.5	974.7	975.0	975.3	975.5	975.9	976.2	976.5	976.8	977.1	977.6
155°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.6	1009.9	1010.0	1010.2	1010.4	1011.2
157.5°	1040.9	1040.4	1040.0	1039.6	1039.1	1039.0	1039.2	1039.4	1039.6	1039.8	1040.6
160°	1059.4	1058.8	1058.2	1057.6	1057.0	1056.9	1057.0	1057.2	1057.4	1057.6	1058.4
162.5°	1075.8	1075.3	1074.9	1074.4	1074.1	1073.8	1073.9	1073.9	1074.0	1074.0	1075.0
165°	1097.7	1097.3	1096.9	1096.4	1096.1	1096.0	1096.2	1096.4	1096.5	1096.8	1097.6
167.5°	1116.2	1115.4	1114.6	1113.8	1113.0	1112.6	1112.6	1112.6	1112.6	1112.6	1113.8
170°	1126.1	1125.3	1124.5	1123.8	1123.0	1122.6	1122.6	1122.6	1122.6	1122.6	1123.8
172.5°	1133.3	1132.5	1131.7	1130.9	1130.2	1129.7	1129.7	1129.7	1129.7	1129.7	1130.9
175°	1141.3	1140.5	1139.7	1138.9	1138.1	1137.7	1137.7	1137.7	1137.7	1137.7	1138.9
177.5°	1145.4	1144.8	1144.2	1143.4	1142.8	1142.5	1142.3	1142.1	1142.0	1141.8	1142.8
180°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1414.9	1416.6	1418.4	1419.1	1418.8	1418.6	1418.4	1418.1
5°	1410.5	1413.0	1415.5	1416.6	1416.2	1415.9	1415.6	1415.3
7.5°	1398.7	1401.0	1403.1	1404.0	1403.7	1403.4	1403.1	1402.8
10°	1387.7	1389.8	1392.0	1392.9	1392.6	1392.3	1392.0	1391.7
12.5°	1374.4	1376.1	1377.8	1378.2	1377.4	1376.6	1375.8	1375.0
15°	1349.5	1351.4	1353.2	1353.5	1352.3	1351.0	1349.8	1348.5
17.5°	1317.8	1319.2	1320.6	1321.0	1320.2	1319.5	1318.8	1317.9
20°	1293.4	1294.3	1295.3	1295.7	1295.7	1295.7	1295.7	1295.7
22.5°	1268.4	1269.5	1270.7	1270.9	1270.2	1269.4	1268.6	1267.9
25°	1228.7	1229.9	1231.2	1231.0	1229.5	1227.9	1226.4	1224.9
27.5°	1182.7	1183.5	1184.4	1184.5	1183.9	1183.4	1182.9	1182.3
30°	1151.0	1151.6	1152.3	1152.4	1152.1	1151.7	1151.5	1151.1
32.5°	1121.0	1121.6	1122.2	1122.4	1122.0	1121.8	1121.4	1121.1
35°	1072.4	1073.3	1074.2	1074.7	1074.7	1074.7	1074.7	1074.7
37.5°	1021.3	1022.5	1023.8	1024.3	1024.1	1024.0	1024.0	1023.8
40°	986.8	988.0	989.3	990.2	990.8	991.4	992.0	992.7
42.5°	955.0	956.5	958.0	958.8	958.9	959.0	959.2	959.3
45°	903.8	906.0	908.1	909.4	909.7	910.0	910.3	910.6
47.5°	851.0	854.2	857.4	859.3	860.0	860.6	861.3	862.0
50°	815.9	819.3	822.8	824.9	825.8	826.8	827.7	828.6
52.5°	780.9	784.5	788.1	790.3	790.9	791.7	792.4	793.0
55°	725.6	729.0	732.4	734.7	735.9	737.2	738.4	739.7
57.5°	670.9	674.8	678.8	681.2	682.1	683.0	683.9	684.8
60°	633.5	638.1	642.7	645.5	646.5	647.4	648.4	649.3
62.5°	595.6	600.7	605.8	608.9	610.1	611.4	612.5	613.7
65°	539.0	543.6	548.2	551.2	552.4	553.7	554.9	556.1
67.5°	480.9	486.5	492.1	495.7	497.3	498.9	500.6	502.2
70°	441.3	447.2	453.1	456.9	458.8	460.7	462.5	464.3
72.5°	404.5	410.9	417.2	421.1	422.5	423.8	425.2	426.5
75°	348.8	355.0	361.1	365.1	366.6	368.1	369.7	371.2
77.5°	293.0	299.8	306.7	310.7	311.9	313.1	314.3	315.6
80°	259.7	266.4	273.3	277.3	278.5	279.7	281.0	282.2
82.5°	228.0	234.6	241.1	245.5	247.7	249.9	252.2	254.4
85°	184.6	191.4	198.2	202.9	205.3	207.8	210.3	212.7
87.5°	152.6	159.9	167.2	172.0	174.2	176.6	178.9	181.1
90°	144.5	152.6	160.6	166.0	168.8	171.6	174.3	177.1
92.5°	160.1	168.3	176.4	181.8	184.4	187.0	189.6	192.2
95°	186.4	194.6	202.8	208.1	210.7	213.3	215.8	218.4
97.5°	219.3	227.0	234.9	240.0	242.3	244.6	246.9	249.2
100°	241.7	249.9	258.2	263.5	265.7	268.0	270.3	272.5
102.5°	265.6	273.8	282.0	287.2	289.6	292.0	294.4	296.9
105°	304.0	311.3	318.7	323.8	326.5	329.3	332.0	334.7
107.5°	347.4	354.2	360.9	365.2	367.0	368.9	370.8	372.6
110°	377.4	383.9	390.3	394.5	396.5	398.5	400.5	402.4



TEST NUMBER: P333326-940

CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	407.4	413.3	419.2	423.1	424.9	426.7	428.5	430.3
115°	454.0	459.3	464.7	468.2	469.8	471.5	473.2	474.8
117.5°	500.1	505.5	511.0	514.2	515.6	516.9	518.2	519.5
120°	531.6	536.9	542.2	545.3	546.4	547.4	548.5	549.6
122.5°	562.0	566.9	571.7	574.7	576.0	577.2	578.4	579.6
125°	607.3	611.8	616.4	619.3	620.6	622.0	623.3	624.7
127.5°	651.8	656.2	660.6	663.4	664.9	666.2	667.6	669.1
130°	682.2	686.3	690.5	693.0	694.2	695.4	696.5	697.7
132.5°	710.4	714.6	718.7	721.1	721.9	722.6	723.4	724.2
135°	753.6	757.6	761.6	764.0	764.7	765.5	766.2	767.0
137.5°	796.9	800.8	804.7	806.7	807.0	807.3	807.5	807.8
140°	824.0	827.9	831.6	833.7	833.9	834.1	834.4	834.6
142.5°	851.1	854.3	857.5	859.2	859.3	859.6	859.9	860.1
145°	891.5	893.1	894.7	895.7	896.3	897.1	897.7	898.3
147.5°	930.0	930.9	931.8	931.9	931.1	930.4	929.6	928.8
150°	954.3	954.3	954.3	954.3	954.2	954.1	954.0	954.0
152.5°	978.1	978.6	979.0	978.9	978.3	977.7	977.0	976.3
155°	1012.0	1012.8	1013.6	1013.5	1012.5	1011.5	1010.5	1009.5
157.5°	1041.3	1042.1	1042.9	1042.7	1041.4	1040.1	1038.8	1037.5
160°	1059.2	1060.0	1060.8	1060.7	1059.7	1058.7	1057.7	1056.7
162.5°	1075.8	1076.8	1077.8	1077.7	1076.6	1075.4	1074.2	1073.1
165°	1098.3	1099.1	1099.9	1099.7	1098.6	1097.3	1096.2	1095.0
167.5°	1115.0	1116.2	1117.4	1117.3	1116.2	1114.9	1113.7	1112.4
170°	1125.0	1126.1	1127.3	1127.2	1125.9	1124.4	1123.1	1121.7
172.5°	1132.1	1133.3	1134.4	1134.4	1133.2	1132.0	1130.8	1129.5
175°	1140.1	1141.3	1142.5	1142.4	1141.0	1139.6	1138.2	1136.8
177.5°	1143.7	1144.7	1145.6	1145.6	1144.4	1143.4	1142.2	1141.1
180°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0

(END OF REPORT)