

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: P333338-935

Luminaire Tested: **S125DIP-S1270D1205U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333338-935
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-S1270D1205U935-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8005.7 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

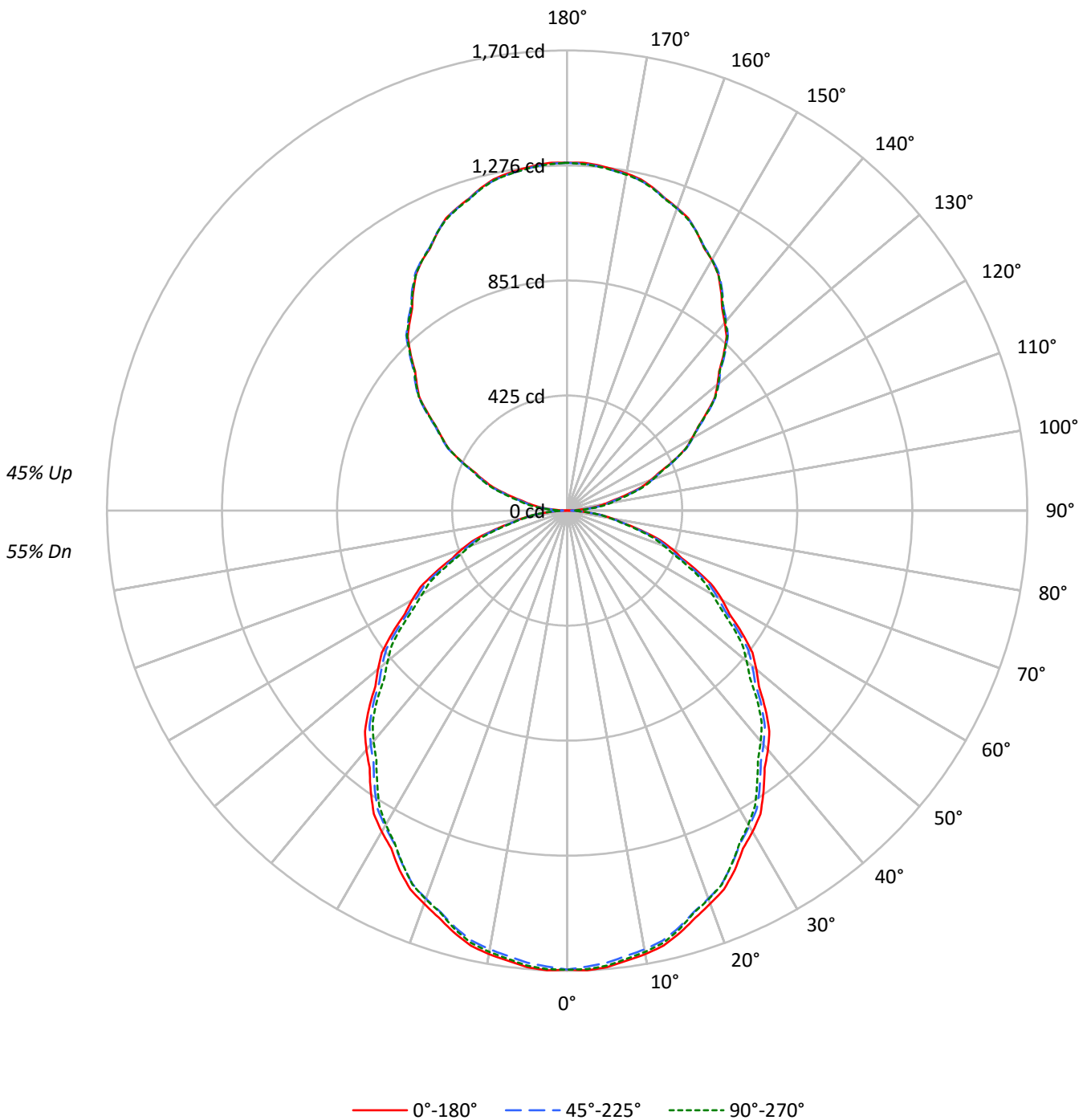
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					70						30							10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50
RCR																			
0	108	108	108	108		101	101	101	101		86	86	86		73	73	73		61
1	99	94	91	87		92	88	84	81		76	73	71		64	62	61		54
2	90	82	76	71		83	77	71	67		66	62	58		56	53	51		47
3	82	72	65	59		76	68	61	56		58	53	49		50	46	43		42
4	75	64	56	50		69	60	53	47		52	46	42		44	40	37		37
5	69	57	49	43		64	53	46	41		46	41	36		40	35	32		34
6	64	51	43	37		59	48	41	35		42	36	32		36	31	28		31
7	59	46	38	33		54	43	36	31		38	32	28		33	28	25		28
8	55	42	34	29		51	40	32	27		35	29	25		30	25	22		26
9	51	38	31	26		47	36	29	25		32	26	22		28	23	20		24
10	47	35	28	23		44	33	27	22		29	24	20		26	21	18		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10959	10959	10959
5°	10983	10878	10949
10°	10916	10802	10864
15°	10797	10672	10717
20°	10628	10490	10509
25°	10446	10274	10264
30°	10221	10041	9991
35°	9980	9790	9653
40°	9732	9517	9382
45°	9465	9270	9085
50°	9171	8969	8699
55°	8888	8631	8389
60°	8548	8289	7994
65°	8145	7878	7610
70°	7757	7402	7149
75°	7069	6835	6598
80°	6289	6189	6044
85°	5476	5572	5269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	2.0
10°-20°	451.9	5.6
20°-30°	667.3	8.3
30°-40°	778.6	9.7
40°-50°	782.0	9.8
50°-60°	686.5	8.6
60°-70°	511.5	6.4
70°-80°	292.5	3.7
80°-90°	87.9	1.1
90°-100°	86.1	1.1
100°-110°	254.3	3.2
110°-120°	430.7	5.4
120°-130°	566.8	7.1
130°-140°	635.1	7.9
140°-150°	622.5	7.8
150°-160°	522.8	6.5
160°-170°	347.5	4.3
170°-180°	121.6	1.5
0°-30°	1279.2	16.0
0°-40°	2057.8	25.7
0°-60°	3526.3	44.0
0°-90°	4418.2	55.2
90°-120°	771.1	9.6
90°-150°	2595.6	32.4
90°-180°	3588.0	44.8
0°-180°	8005.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1694	1691	1678	1689	1689	161
15°	1615	1610	1596	1602	1603	455
25°	1466	1459	1442	1444	1440	674
35°	1266	1260	1242	1235	1224	791
45°	1036	1030	1015	999	995	798
55°	789	784	766	755	745	704
65°	533	530	516	504	498	529
75°	283	280	274	270	264	302
85°	74	75	75	74	71	83
90°	1	9	16	21	24	8
95°	65	67	77	84	86	69
105°	228	233	239	245	248	244
115°	431	435	437	436	435	426
125°	629	635	636	634	633	563
135°	818	824	825	825	821	631
145°	992	995	998	998	996	620
155°	1135	1135	1136	1139	1135	522
165°	1234	1232	1233	1236	1231	348
175°	1283	1279	1279	1284	1278	122
180°	1286	1286	1286	1286	1286	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1701.1	1700.4	1699.7	1698.9	1698.2	1696.7	1694.3	1691.9	1689.5	1687.1	1689.5
5°	1694.1	1693.5	1692.9	1692.3	1691.7	1690.0	1687.0	1683.9	1681.0	1678.0	1680.7
7.5°	1678.5	1677.9	1677.3	1676.7	1676.1	1674.2	1670.9	1667.7	1664.4	1661.1	1663.7
10°	1664.6	1664.0	1663.4	1662.8	1662.2	1660.3	1657.0	1653.7	1650.4	1647.1	1649.5
12.5°	1647.4	1646.3	1645.3	1644.2	1643.1	1641.1	1638.0	1635.0	1631.9	1628.8	1630.8
15°	1614.9	1614.0	1613.1	1612.2	1611.4	1609.2	1605.9	1602.7	1599.4	1596.1	1597.6
17.5°	1577.6	1576.3	1574.9	1573.6	1572.4	1569.9	1566.6	1563.1	1559.8	1556.3	1558.2
20°	1546.4	1545.8	1545.2	1544.6	1544.0	1541.8	1537.9	1534.0	1530.2	1526.3	1528.4
22.5°	1515.3	1514.2	1513.1	1512.1	1511.0	1508.6	1505.0	1501.4	1497.7	1494.1	1495.5
25°	1465.9	1464.4	1462.9	1461.5	1459.9	1457.2	1453.4	1449.5	1445.6	1441.7	1442.3
27.5°	1408.2	1407.3	1406.4	1405.5	1404.6	1402.1	1398.2	1394.1	1390.2	1386.1	1386.3
30°	1370.6	1369.7	1368.8	1367.9	1367.0	1364.3	1359.9	1355.4	1350.9	1346.4	1345.8
32.5°	1329.8	1328.4	1327.1	1325.7	1324.3	1321.6	1317.6	1313.6	1309.6	1305.6	1304.6
35°	1265.8	1264.7	1263.5	1262.3	1261.1	1258.4	1254.2	1250.1	1245.9	1241.7	1240.3
37.5°	1199.5	1198.1	1196.6	1195.1	1193.6	1190.8	1187.0	1183.0	1179.1	1175.2	1172.9
40°	1154.4	1153.0	1151.5	1150.0	1148.5	1145.6	1141.5	1137.3	1133.2	1128.9	1126.3
42.5°	1106.1	1104.9	1103.6	1102.3	1101.1	1098.4	1094.2	1090.0	1085.9	1081.7	1079.3
45°	1036.3	1035.2	1034.0	1032.8	1031.6	1029.2	1025.6	1022.0	1018.5	1014.9	1011.2
47.5°	961.1	961.2	961.3	961.3	961.4	959.2	955.0	950.7	946.4	942.1	938.5
50°	912.8	912.0	911.0	910.2	909.2	907.0	903.4	899.8	896.3	892.7	888.8
52.5°	863.4	862.8	862.1	861.4	860.8	858.6	854.7	850.9	847.1	843.3	839.9
55°	789.4	788.4	787.6	786.6	785.7	783.3	779.0	774.9	770.7	766.5	763.8
57.5°	711.2	710.8	710.2	709.8	709.3	707.3	703.8	700.3	696.7	693.2	689.7
60°	661.8	660.6	659.4	658.2	657.0	654.8	651.5	648.2	645.0	641.7	638.7
62.5°	610.3	609.3	608.4	607.3	606.4	604.6	601.8	598.9	596.2	593.3	590.1
65°	533.0	532.4	531.8	531.2	530.5	528.6	525.3	522.0	518.8	515.5	512.8
67.5°	458.1	456.8	455.6	454.3	453.1	451.2	448.8	446.3	443.8	441.3	439.1
70°	410.8	409.3	407.8	406.3	404.8	402.7	400.0	397.4	394.7	392.0	390.2
72.5°	359.2	358.2	357.2	356.2	355.2	353.8	352.1	350.3	348.6	346.9	344.8
75°	283.3	282.7	282.1	281.5	280.9	279.8	278.4	276.8	275.3	273.9	272.9
77.5°	213.2	212.9	212.7	212.5	212.2	211.7	210.9	210.0	209.1	208.4	207.8
80°	169.1	169.1	169.1	169.1	169.1	168.8	168.2	167.6	167.0	166.4	166.2
82.5°	130.4	130.0	129.5	129.1	128.5	128.3	128.1	128.0	127.9	127.8	127.3
85°	73.9	74.1	74.4	74.7	75.0	75.2	75.2	75.2	75.2	75.2	74.9
87.5°	29.2	29.5	29.9	30.2	30.7	30.8	30.9	31.0	31.1	31.1	31.3
90°	1.0	2.8	4.6	6.4	8.1	9.8	11.4	12.9	14.5	16.0	17.1
92.5°	24.2	25.5	26.7	28.0	29.2	30.7	32.7	34.6	36.5	38.4	39.9
95°	65.0	65.4	66.0	66.4	66.8	68.1	70.3	72.6	74.8	77.1	78.6
97.5°	108.1	108.2	108.4	108.6	108.7	110.4	113.5	116.5	119.6	122.7	124.2
100°	140.1	140.1	140.1	140.1	140.1	141.5	144.4	147.3	150.2	153.1	155.1
102.5°	174.5	175.4	176.2	177.2	178.1	179.3	180.7	182.2	183.7	185.1	187.3
105°	228.1	229.2	230.3	231.4	232.6	233.8	235.1	236.4	237.8	239.1	240.5
107.5°	287.3	288.4	289.6	290.7	291.8	292.8	293.9	294.9	295.9	297.0	297.6
110°	328.2	329.2	330.4	331.5	332.6	333.5	334.2	334.8	335.5	336.1	336.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	369.8	370.4	370.9	371.5	372.1	372.8	373.7	374.5	375.3	376.2	376.5
115°	431.2	432.1	433.0	433.9	434.8	435.4	435.9	436.4	436.8	437.2	437.0
117.5°	492.8	493.3	493.7	494.0	494.5	494.8	495.2	495.7	496.0	496.5	496.6
120°	531.2	532.4	533.5	534.6	535.7	536.4	536.6	536.8	537.1	537.3	537.3
122.5°	572.9	573.3	573.7	574.1	574.5	575.0	575.6	576.2	576.7	577.3	577.1
125°	629.3	630.7	632.0	633.4	634.6	635.4	635.7	635.8	636.1	636.4	635.8
127.5°	689.4	690.1	690.9	691.6	692.4	692.9	693.2	693.4	693.7	694.0	693.7
130°	725.4	726.5	727.6	728.8	729.8	730.6	731.1	731.5	731.9	732.4	732.2
132.5°	761.4	763.2	765.1	766.9	768.7	769.6	769.5	769.4	769.3	769.2	769.0
135°	818.5	819.8	821.1	822.4	823.8	824.6	824.8	825.0	825.2	825.4	825.4
137.5°	872.0	873.3	874.6	875.9	877.2	878.1	878.6	879.1	879.6	880.0	880.3
140°	906.5	907.6	908.7	909.8	910.9	911.8	912.5	913.2	913.8	914.5	914.9
142.5°	940.9	941.8	942.8	943.7	944.6	945.6	946.3	947.2	948.0	948.9	949.2
145°	991.5	992.4	993.3	994.2	995.1	995.8	996.5	997.2	997.8	998.5	998.5
147.5°	1038.4	1038.8	1039.3	1039.8	1040.3	1040.8	1041.4	1041.9	1042.4	1042.9	1043.4
150°	1069.5	1069.4	1069.1	1068.9	1068.7	1069.0	1069.9	1070.7	1071.7	1072.5	1072.5
152.5°	1095.2	1095.5	1095.8	1096.1	1096.4	1096.7	1097.1	1097.4	1097.9	1098.2	1098.7
155°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.7	1135.0	1135.1	1135.4	1135.6	1136.5
157.5°	1169.8	1169.3	1168.8	1168.4	1167.9	1167.7	1167.9	1168.2	1168.4	1168.6	1169.5
160°	1190.6	1190.0	1189.3	1188.6	1187.9	1187.7	1187.9	1188.2	1188.4	1188.6	1189.5
162.5°	1209.0	1208.6	1208.1	1207.6	1207.0	1206.9	1206.9	1206.9	1206.9	1207.0	1208.1
165°	1233.6	1233.2	1232.8	1232.3	1231.8	1231.7	1232.0	1232.2	1232.4	1232.6	1233.6
167.5°	1254.5	1253.5	1252.7	1251.8	1250.9	1250.4	1250.4	1250.4	1250.4	1250.4	1251.8
170°	1265.7	1264.8	1263.9	1263.0	1262.1	1261.6	1261.6	1261.6	1261.6	1261.6	1263.0
172.5°	1273.7	1272.8	1271.9	1271.0	1270.1	1269.6	1269.6	1269.6	1269.6	1269.6	1271.0
175°	1282.6	1281.8	1280.9	1280.0	1279.1	1278.7	1278.7	1278.7	1278.7	1278.7	1280.0
177.5°	1287.3	1286.6	1285.8	1285.1	1284.4	1284.0	1283.8	1283.7	1283.4	1283.2	1284.4
180°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1691.9	1694.3	1696.7	1697.7	1697.5	1697.3	1697.0	1696.8
5°	1683.3	1686.1	1688.8	1690.0	1689.6	1689.4	1689.0	1688.8
7.5°	1666.3	1669.0	1671.5	1672.8	1672.5	1672.1	1671.9	1671.5
10°	1651.9	1654.3	1656.7	1657.7	1657.4	1657.1	1656.8	1656.6
12.5°	1632.7	1634.6	1636.5	1637.4	1637.4	1637.3	1637.3	1637.2
15°	1599.1	1600.6	1602.1	1602.8	1602.8	1602.8	1602.8	1602.8
17.5°	1560.0	1561.9	1563.7	1563.9	1562.5	1561.0	1559.4	1558.0
20°	1530.5	1532.6	1534.6	1535.0	1533.4	1532.0	1530.5	1529.0
22.5°	1496.8	1498.2	1499.6	1499.8	1498.7	1497.7	1496.7	1495.7
25°	1442.9	1443.6	1444.2	1444.0	1443.1	1442.2	1441.3	1440.4
27.5°	1386.4	1386.6	1386.6	1386.2	1385.3	1384.5	1383.5	1382.7
30°	1345.2	1344.6	1344.0	1343.3	1342.4	1341.5	1340.6	1339.7
32.5°	1303.5	1302.4	1301.3	1299.9	1298.4	1296.8	1295.1	1293.6
35°	1238.7	1237.3	1235.8	1233.8	1231.4	1229.1	1226.7	1224.3
37.5°	1170.7	1168.5	1166.3	1164.5	1163.1	1161.7	1160.4	1159.0
40°	1123.6	1120.9	1118.2	1116.5	1115.5	1114.7	1113.7	1112.8
42.5°	1076.9	1074.4	1071.9	1070.1	1068.7	1067.3	1065.9	1064.5
45°	1007.7	1004.1	1000.6	998.3	997.4	996.5	995.6	994.7
47.5°	934.8	931.2	927.6	924.7	922.6	920.5	918.4	916.4
50°	884.9	881.1	877.2	874.2	872.1	870.0	868.0	865.8
52.5°	836.5	833.1	829.7	826.8	824.5	822.2	819.8	817.5
55°	761.1	758.5	755.8	753.4	751.3	749.2	747.1	745.0
57.5°	686.3	682.9	679.4	677.1	676.0	674.9	673.6	672.5
60°	635.7	632.7	629.7	627.2	625.1	623.0	621.0	618.9
62.5°	586.9	583.7	580.5	578.1	576.4	574.8	573.2	571.6
65°	510.1	507.4	504.7	502.8	501.6	500.4	499.2	498.0
67.5°	436.9	434.5	432.3	430.8	430.1	429.4	428.7	427.9
70°	388.4	386.6	384.8	383.3	382.1	380.9	379.8	378.6
72.5°	342.9	340.8	338.8	337.2	336.0	334.8	333.6	332.3
75°	272.1	271.1	270.3	269.2	268.0	266.8	265.6	264.4
77.5°	207.2	206.7	206.2	205.5	204.7	203.8	203.0	202.2
80°	165.8	165.6	165.2	164.8	164.2	163.6	163.0	162.5
82.5°	126.7	126.2	125.6	125.4	125.2	125.1	124.9	124.8
85°	74.6	74.3	74.0	73.5	72.9	72.3	71.7	71.1
87.5°	31.6	31.8	32.0	31.9	31.6	31.3	30.9	30.6
90°	18.3	19.4	20.5	21.4	22.0	22.6	23.3	24.0
92.5°	41.3	42.8	44.3	45.3	45.7	46.2	46.8	47.2
95°	80.2	81.7	83.3	84.3	84.7	85.2	85.6	86.0
97.5°	125.6	127.1	128.5	129.4	129.7	129.9	130.2	130.4
100°	157.0	159.1	161.1	162.3	162.7	163.2	163.7	164.1
102.5°	189.4	191.7	193.8	195.2	195.9	196.5	197.1	197.7
105°	241.8	243.1	244.4	245.5	246.2	246.8	247.5	248.1
107.5°	298.3	298.9	299.6	300.0	299.9	299.9	299.8	299.7
110°	337.5	338.2	338.8	339.1	338.8	338.6	338.4	338.2



TEST NUMBER: P333338-935

CATALOG NUMBER: S125DIP-S1270D1205U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	376.9	377.1	377.5	377.4	377.0	376.6	376.2	375.8
115°	436.8	436.5	436.4	436.1	435.9	435.7	435.4	435.2
117.5°	496.8	497.0	497.1	496.8	495.9	495.1	494.1	493.3
120°	537.3	537.3	537.3	536.8	536.0	535.0	534.2	533.3
122.5°	577.0	576.8	576.6	576.2	575.4	574.7	574.0	573.3
125°	635.4	635.0	634.6	634.2	634.0	633.8	633.5	633.4
127.5°	693.5	693.3	693.1	692.8	692.3	691.8	691.4	691.0
130°	731.9	731.7	731.5	731.2	730.7	730.3	729.8	729.4
132.5°	768.8	768.5	768.3	767.9	767.2	766.6	766.0	765.4
135°	825.4	825.4	825.4	825.0	824.1	823.2	822.3	821.4
137.5°	880.6	880.9	881.1	880.7	879.6	878.5	877.4	876.2
140°	915.3	915.8	916.3	915.9	914.8	913.7	912.6	911.5
142.5°	949.4	949.7	949.9	949.5	948.4	947.4	946.2	945.1
145°	998.5	998.5	998.5	998.2	997.6	996.9	996.2	995.5
147.5°	1044.0	1044.6	1045.1	1044.6	1043.1	1041.6	1040.1	1038.5
150°	1072.5	1072.5	1072.5	1072.4	1071.9	1071.4	1071.0	1070.6
152.5°	1099.2	1099.8	1100.3	1100.2	1099.4	1098.5	1097.8	1097.0
155°	1137.4	1138.2	1139.2	1139.0	1137.9	1136.8	1135.7	1134.6
157.5°	1170.4	1171.3	1172.2	1171.9	1170.4	1169.0	1167.5	1166.1
160°	1190.4	1191.3	1192.1	1192.1	1190.9	1189.8	1188.7	1187.7
162.5°	1209.2	1210.2	1211.3	1211.2	1209.9	1208.6	1207.3	1206.0
165°	1234.4	1235.3	1236.2	1236.0	1234.7	1233.3	1232.0	1230.6
167.5°	1253.1	1254.5	1255.8	1255.8	1254.4	1253.0	1251.6	1250.3
170°	1264.3	1265.7	1267.0	1266.9	1265.3	1263.8	1262.2	1260.7
172.5°	1272.3	1273.7	1275.0	1275.0	1273.6	1272.2	1270.8	1269.5
175°	1281.3	1282.6	1284.0	1283.9	1282.4	1280.8	1279.2	1277.6
177.5°	1285.4	1286.5	1287.5	1287.5	1286.2	1285.0	1283.8	1282.5
180°	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6	1285.6

(END OF REPORT)