

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: P333487-930

Luminaire Tested: **S125DIW-S1270D1560U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333487-930
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: S125DIW-S1270D1560U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8428.4 lumens
Efficiency: N/A
Efficacy: 101.7 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

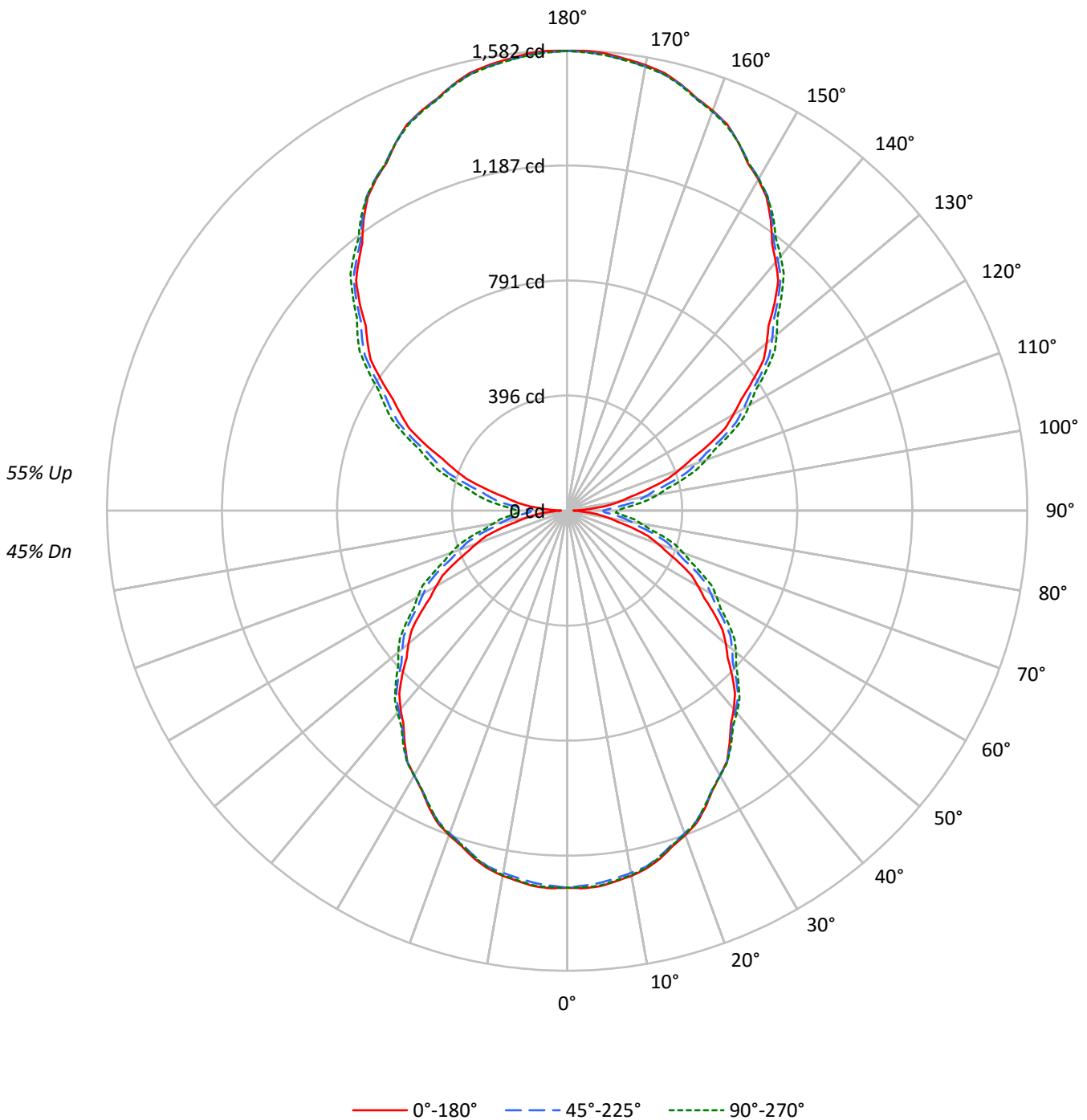
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	91	87	84	88	84	80	77	69	67	65	56	55	53	44	43	42	36
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	39	37	35	30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	31	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25	21
5	66	55	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	21	19	16
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15	13
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

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: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.5
10°-20°	348.0	4.1
20°-30°	517.6	6.1
30°-40°	613.1	7.3
40°-50°	633.9	7.5
50°-60°	583.9	6.9
60°-70°	472.0	5.6
70°-80°	316.1	3.8
80°-90°	167.4	2.0
90°-100°	197.8	2.3
100°-110°	380.3	4.5
110°-120°	574.8	6.8
120°-130°	722.4	8.6
130°-140°	791.8	9.4
140°-150°	767.3	9.1
150°-160°	642.6	7.6
160°-170°	427.1	5.1
170°-180°	149.5	1.8
0°-30°	988.2	11.7
0°-40°	1601.3	19.0
0°-60°	2819.2	33.4
0°-90°	3774.7	44.8
90°-120°	1152.9	13.7
90°-150°	3434.5	40.7
90°-180°	4654.0	55.2
0°-180°	8428.4	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°	22	72	124	158	172	18
95°	96	133	187	223	235	98
105°	292	319	364	395	409	312
115°	538	553	587	608	615	532
125°	778	786	811	828	834	697
135°	1008	1015	1025	1040	1042	777
145°	1220	1223	1227	1233	1235	762
155°	1394	1394	1396	1400	1394	642
165°	1516	1514	1515	1519	1512	428
175°	1576	1572	1571	1578	1570	150
180°	1580	1580	1580	1580	1580	



TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

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	49.4	58.9	68.3	77.8	87.6	97.5	107.5	117.5	127.5	134.3
90°	21.6	32.8	44.0	55.3	66.4	77.9	89.4	100.9	112.4	123.9	131.8
92.5°	48.0	58.0	67.8	77.7	87.6	98.7	110.9	123.0	135.2	147.4	155.5
95°	96.4	104.4	112.3	120.1	128.0	138.1	150.4	162.8	175.1	187.4	195.6
97.5°	147.8	154.7	161.4	168.3	175.1	185.1	198.1	211.1	224.1	237.2	244.9
100°	186.1	192.1	198.0	203.9	209.9	219.2	231.7	244.3	256.9	269.5	277.9
102.5°	227.4	234.0	240.6	247.1	253.7	262.3	272.9	283.6	294.2	304.8	313.2
105°	291.8	297.7	303.5	309.5	315.4	323.3	333.5	343.6	353.7	363.8	371.0
107.5°	363.1	368.3	373.5	378.7	383.9	391.2	400.6	410.0	419.4	428.8	435.2
110°	412.2	416.9	421.8	426.5	431.2	438.0	446.7	455.4	464.1	472.9	479.1



TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	463.3	466.8	470.2	473.6	477.0	483.1	491.9	500.6	509.3	518.0	523.5
115°	537.6	540.6	543.7	546.8	549.8	555.4	563.2	571.1	579.0	586.9	591.7
117.5°	612.0	613.8	615.6	617.4	619.2	623.9	631.3	638.7	646.1	653.6	658.6
120°	659.3	661.5	663.7	665.9	668.1	672.6	679.4	686.2	692.9	699.7	704.5
122.5°	709.4	710.3	711.2	712.1	713.0	716.9	723.9	730.8	737.8	744.9	749.2
125°	778.5	779.8	781.2	782.6	783.9	787.6	793.5	799.4	805.4	811.3	815.2
127.5°	851.0	851.7	852.3	853.0	853.6	856.4	861.4	866.3	871.3	876.2	880.1
130°	895.3	896.3	897.5	898.5	899.6	902.4	906.9	911.4	915.9	920.4	924.1
132.5°	938.5	940.7	942.9	945.1	947.3	949.8	952.8	955.7	958.6	961.6	965.2
135°	1008.4	1009.7	1011.1	1012.4	1013.8	1015.6	1017.8	1020.1	1022.3	1024.6	1028.3
137.5°	1074.0	1075.4	1076.8	1078.1	1079.5	1080.9	1082.5	1084.0	1085.6	1087.1	1090.8
140°	1115.3	1116.6	1118.0	1119.4	1120.8	1122.0	1123.1	1124.2	1125.3	1126.4	1130.1
142.5°	1157.6	1158.5	1159.4	1160.3	1161.3	1162.3	1163.4	1164.5	1165.6	1166.7	1169.6
145°	1219.8	1220.6	1221.4	1222.2	1223.0	1223.8	1224.7	1225.5	1226.3	1227.1	1228.6
147.5°	1276.1	1276.7	1277.2	1277.9	1278.5	1279.1	1279.8	1280.4	1281.1	1281.7	1282.9
150°	1314.4	1314.2	1313.9	1313.6	1313.4	1313.8	1314.8	1316.0	1317.0	1318.2	1318.2
152.5°	1345.9	1346.3	1346.7	1347.0	1347.4	1347.9	1348.3	1348.7	1349.2	1349.6	1350.3
155°	1394.4	1394.4	1394.4	1394.4	1394.4	1394.5	1394.8	1395.1	1395.3	1395.6	1396.7
157.5°	1437.6	1437.0	1436.5	1435.8	1435.3	1435.1	1435.3	1435.7	1435.9	1436.1	1437.3
160°	1463.2	1462.4	1461.6	1460.8	1460.0	1459.7	1460.0	1460.2	1460.5	1460.8	1461.8
162.5°	1485.9	1485.2	1484.7	1484.1	1483.4	1483.2	1483.2	1483.3	1483.4	1483.4	1484.7
165°	1516.1	1515.6	1515.0	1514.5	1513.9	1513.8	1514.1	1514.3	1514.6	1514.9	1516.0
167.5°	1541.6	1540.6	1539.5	1538.4	1537.3	1536.8	1536.8	1536.8	1536.8	1536.8	1538.4
170°	1555.4	1554.4	1553.2	1552.2	1551.1	1550.5	1550.5	1550.5	1550.5	1550.5	1552.2
172.5°	1565.3	1564.2	1563.1	1562.0	1560.9	1560.4	1560.4	1560.4	1560.4	1560.4	1562.0
175°	1576.4	1575.2	1574.2	1573.0	1572.0	1571.4	1571.4	1571.4	1571.4	1571.4	1573.0
177.5°	1582.0	1581.1	1580.3	1579.4	1578.5	1577.9	1577.8	1577.5	1577.3	1577.1	1578.4
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1



TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

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°	141.0	147.8	154.6	159.1	161.2	163.3	165.4	167.6
90°	139.7	147.5	155.4	160.7	163.5	166.3	169.1	171.9
92.5°	163.5	171.6	179.7	185.0	187.6	190.1	192.7	195.3
95°	203.7	211.8	220.0	225.3	227.8	230.3	232.8	235.4
97.5°	252.7	260.4	268.2	273.1	275.4	277.6	279.9	282.1
100°	286.3	294.6	303.0	308.3	310.6	312.8	315.1	317.3
102.5°	321.6	330.0	338.3	343.7	346.2	348.6	351.1	353.6
105°	378.4	385.6	393.0	397.9	400.8	403.6	406.3	409.2
107.5°	441.6	448.0	454.4	458.4	460.2	461.9	463.6	465.3
110°	485.3	491.5	497.7	501.6	503.3	505.0	506.7	508.4



TEST NUMBER: P333487-930

CATALOG NUMBER: S125DIW-S1270D1560U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	529.0	534.6	540.1	543.6	545.1	546.6	548.0	549.5
115°	596.6	601.4	606.2	609.3	610.7	612.1	613.5	615.0
117.5°	663.7	668.6	673.7	676.6	677.4	678.2	679.1	680.0
120°	709.3	714.1	718.9	721.6	722.2	722.8	723.4	724.0
122.5°	753.5	757.9	762.2	764.8	765.6	766.5	767.3	768.1
125°	819.2	823.2	827.1	829.7	830.9	832.0	833.2	834.3
127.5°	884.0	887.9	891.9	894.4	895.4	896.6	897.6	898.7
130°	927.8	931.5	935.1	937.4	938.2	939.1	940.0	940.9
132.5°	969.0	972.7	976.3	978.4	978.8	979.2	979.7	980.1
135°	1031.9	1035.6	1039.3	1041.3	1041.6	1042.0	1042.2	1042.5
137.5°	1094.5	1098.1	1101.8	1103.5	1103.3	1103.0	1102.8	1102.5
140°	1133.7	1137.3	1141.0	1142.7	1142.5	1142.2	1142.0	1141.7
142.5°	1172.6	1175.6	1178.6	1180.0	1179.7	1179.5	1179.2	1179.0
145°	1230.0	1231.3	1232.8	1233.6	1234.0	1234.3	1234.6	1234.9
147.5°	1283.9	1285.1	1286.1	1286.1	1284.7	1283.4	1282.0	1280.7
150°	1318.2	1318.2	1318.2	1318.0	1317.8	1317.4	1317.2	1317.0
152.5°	1351.0	1351.6	1352.3	1352.1	1351.2	1350.2	1349.3	1348.4
155°	1397.7	1398.9	1400.0	1399.9	1398.5	1397.1	1395.7	1394.4
157.5°	1438.4	1439.5	1440.6	1440.2	1438.4	1436.6	1434.8	1433.0
160°	1463.0	1464.0	1465.2	1465.0	1463.6	1462.2	1460.9	1459.5
162.5°	1486.0	1487.4	1488.7	1488.5	1486.9	1485.3	1483.8	1482.1
165°	1517.0	1518.2	1519.2	1519.0	1517.4	1515.7	1514.1	1512.4
167.5°	1540.0	1541.6	1543.3	1543.3	1541.6	1539.9	1538.2	1536.5
170°	1553.8	1555.4	1557.1	1557.0	1555.0	1553.1	1551.2	1549.3
172.5°	1563.7	1565.3	1566.9	1566.9	1565.2	1563.5	1561.8	1560.2
175°	1574.8	1576.4	1578.0	1577.8	1576.0	1574.0	1572.1	1570.2
177.5°	1579.7	1581.0	1582.3	1582.3	1580.7	1579.2	1577.6	1576.1
180°	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1	1580.1

(END OF REPORT)