

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: P333475-940

Luminaire Tested: **S125DIW-S1270D1050U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333475-940
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: S125DIW-S1270D1050U940-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7634.6 lumens
Efficiency: N/A
Efficacy: 113.3 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

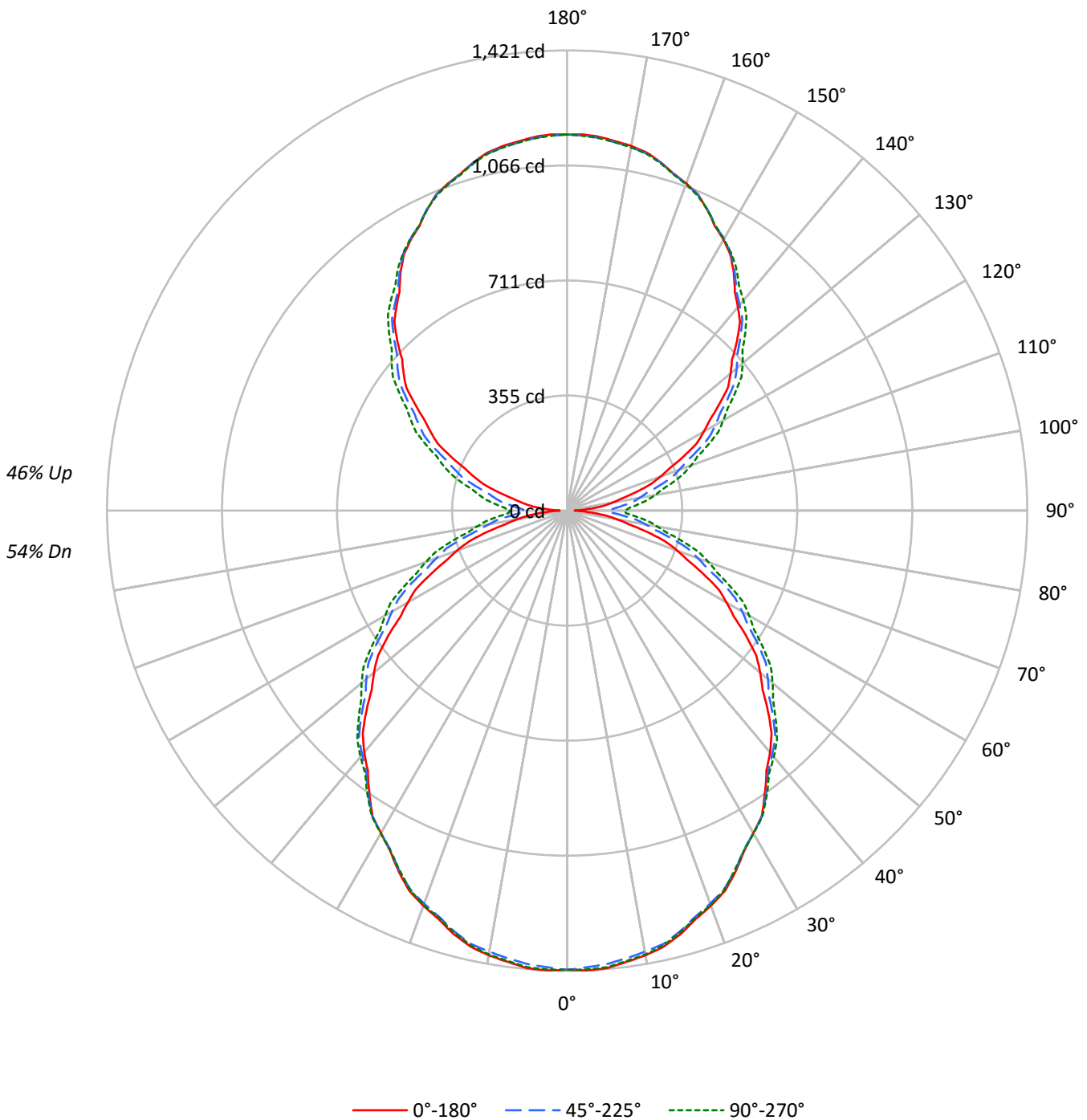
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

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	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			
1	98	93	89	85	91	86	83	79	74	71	69	62	60	58	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	56	51	47	48	44	40	40	37	34					30				
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29					26				
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25					22				
6	62	50	42	35	58	47	39	34	40	34	30	34	30	26	29	25	22					19				
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20					17				
8	53	41	33	27	49	38	31	26	33	27	23	28	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	22	19	24	20	17	21	17	14					12				

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



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.8
10°-20°	380.7	5.0
20°-30°	566.1	7.4
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	4.5
80°-90°	181.8	2.4
90°-100°	178.4	2.3
100°-110°	303.8	4.0
110°-120°	438.7	5.7
120°-130°	540.1	7.1
130°-140°	585.9	7.7
140°-150°	564.7	7.4
150°-160°	472.2	6.2
160°-170°	313.9	4.1
170°-180°	109.8	1.4
0°-30°	1080.9	14.2
0°-40°	1751.4	22.9
0°-60°	3083.4	40.4
0°-90°	4127.2	54.1
90°-120°	920.8	12.1
90°-150°	2611.5	34.2
90°-180°	3507.0	45.9
0°-180°	7634.6	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	164	177	18
95°	77	116	171	207	220	77
105°	219	246	292	324	338	233
115°	398	413	449	472	481	393
125°	574	579	607	626	633	514
135°	742	746	756	774	778	572
145°	897	899	902	908	912	560
155°	1025	1025	1026	1029	1025	472
165°	1114	1112	1113	1116	1111	314
175°	1158	1155	1155	1160	1154	110
180°	1161	1161	1161	1161	1161	



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

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	138.0	145.3
90°	23.2	34.6	46.1	57.6	69.1	80.8	92.7	104.6	116.5	128.5	136.6
92.5°	41.9	52.2	62.4	72.7	82.9	94.3	106.8	119.3	131.8	144.3	152.4
95°	76.8	85.2	93.6	102.1	110.6	121.0	133.5	146.1	158.5	171.0	179.2
97.5°	114.0	121.4	128.8	136.2	143.6	153.7	166.6	179.5	192.4	205.3	213.1
100°	141.8	148.3	154.8	161.2	167.7	177.3	189.8	202.2	214.7	227.2	235.5
102.5°	171.7	178.5	185.4	192.2	198.9	207.9	218.8	229.8	240.8	251.6	259.9
105°	218.6	224.4	230.4	236.4	242.3	250.5	261.0	271.4	282.0	292.4	299.8
107.5°	270.4	275.5	280.7	286.0	291.1	298.6	308.5	318.3	328.1	338.0	344.6
110°	306.1	310.8	315.5	320.2	324.9	331.9	341.2	350.4	359.7	368.9	375.4



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	343.7	347.1	350.6	354.1	357.7	364.0	373.1	382.3	391.5	400.6	406.5
115°	397.8	400.7	403.7	406.6	409.7	415.4	423.7	432.2	440.6	449.1	454.4
117.5°	452.0	453.8	455.6	457.4	459.1	464.0	472.0	479.9	487.9	495.9	501.3
120°	486.7	488.7	490.6	492.5	494.5	499.1	506.4	513.7	521.0	528.3	533.5
122.5°	523.2	524.0	524.8	525.6	526.4	530.5	537.9	545.2	552.6	560.0	564.8
125°	573.9	574.8	575.7	576.6	577.5	581.1	587.5	593.9	600.2	606.6	611.2
127.5°	626.7	627.1	627.5	627.9	628.2	631.1	636.3	641.7	646.9	652.3	656.7
130°	659.2	660.0	660.6	661.3	662.0	664.7	669.4	674.2	678.9	683.7	687.8
132.5°	690.6	692.2	693.8	695.4	697.0	699.4	702.7	705.9	709.2	712.5	716.6
135°	741.9	742.8	743.7	744.6	745.5	747.1	749.5	751.8	754.2	756.5	760.5
137.5°	790.1	790.9	791.8	792.8	793.7	794.9	796.4	797.9	799.4	800.8	804.8
140°	820.0	821.0	822.0	823.0	824.0	825.0	825.9	826.8	827.7	828.6	832.4
142.5°	851.0	851.7	852.3	852.8	853.5	854.2	855.0	855.8	856.7	857.5	860.6
145°	896.8	897.3	897.8	898.3	898.8	899.3	899.9	900.5	901.2	901.7	903.3
147.5°	937.7	938.2	938.6	939.0	939.4	940.0	940.4	940.8	941.4	941.8	942.8
150°	965.9	965.7	965.5	965.3	965.1	965.4	966.2	967.0	967.8	968.6	968.6
152.5°	989.0	989.3	989.5	989.9	990.2	990.4	990.8	991.0	991.4	991.8	992.2
155°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.7	1024.9	1025.1	1025.3	1025.6	1026.4
157.5°	1056.4	1056.0	1055.5	1055.1	1054.6	1054.5	1054.7	1054.9	1055.2	1055.3	1056.1
160°	1075.2	1074.6	1074.0	1073.4	1072.8	1072.6	1072.8	1073.0	1073.2	1073.4	1074.2
162.5°	1091.8	1091.4	1090.9	1090.5	1090.0	1089.8	1089.9	1089.9	1090.0	1090.0	1091.0
165°	1114.1	1113.7	1113.2	1112.9	1112.4	1112.3	1112.6	1112.8	1112.9	1113.1	1113.9
167.5°	1132.8	1132.0	1131.2	1130.4	1129.6	1129.3	1129.3	1129.3	1129.3	1129.3	1130.4
170°	1143.0	1142.2	1141.4	1140.6	1139.8	1139.3	1139.3	1139.3	1139.3	1139.3	1140.6
172.5°	1150.2	1149.4	1148.6	1147.8	1147.0	1146.6	1146.6	1146.6	1146.6	1146.6	1147.8
175°	1158.3	1157.5	1156.7	1155.9	1155.1	1154.7	1154.7	1154.7	1154.7	1154.7	1155.9
177.5°	1162.5	1161.8	1161.2	1160.6	1159.9	1159.5	1159.3	1159.2	1159.0	1158.9	1159.8
180°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

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°	152.7	160.0	167.3	172.0	174.3	176.6	178.9	181.2
90°	144.6	152.8	160.9	166.3	169.1	171.8	174.6	177.4
92.5°	160.6	168.8	177.0	182.4	184.9	187.6	190.2	192.8
95°	187.4	195.6	203.8	209.3	211.8	214.4	217.0	219.5
97.5°	221.0	228.7	236.6	241.7	244.0	246.3	248.7	251.0
100°	243.8	252.1	260.4	265.6	268.0	270.2	272.4	274.7
102.5°	268.1	276.3	284.5	289.8	292.2	294.6	297.1	299.5
105°	307.2	314.6	321.9	327.0	329.8	332.5	335.3	338.0
107.5°	351.4	358.1	364.8	369.2	371.0	372.9	374.8	376.7
110°	381.9	388.3	394.8	399.0	401.0	403.0	404.9	406.9



TEST NUMBER: P333475-940

CATALOG NUMBER: S125DIW-S1270D1050U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	412.4	418.3	424.3	428.1	429.9	431.7	433.5	435.3
115°	459.8	465.1	470.5	474.0	475.6	477.3	478.9	480.6
117.5°	506.7	512.1	517.5	520.8	522.2	523.5	524.8	526.1
120°	538.8	544.0	549.3	552.4	553.5	554.6	555.6	556.7
122.5°	569.7	574.5	579.3	582.4	583.6	584.8	586.0	587.3
125°	615.7	620.3	624.8	627.8	629.1	630.4	631.8	633.1
127.5°	661.0	665.4	669.8	672.6	674.0	675.4	676.8	678.2
130°	691.9	696.0	700.2	702.8	703.9	705.1	706.2	707.3
132.5°	720.7	724.8	729.0	731.4	732.1	732.8	733.6	734.3
135°	764.6	768.6	772.6	775.0	775.7	776.5	777.2	777.9
137.5°	808.6	812.5	816.5	818.5	818.7	818.9	819.1	819.4
140°	836.2	840.0	843.8	845.8	846.1	846.3	846.5	846.8
142.5°	863.8	866.9	870.0	871.7	872.0	872.2	872.4	872.6
145°	904.8	906.3	907.9	909.0	909.6	910.3	910.9	911.5
147.5°	943.8	944.8	945.7	945.8	945.0	944.2	943.4	942.6
150°	968.6	968.6	968.6	968.6	968.5	968.4	968.3	968.1
152.5°	992.7	993.2	993.6	993.5	992.9	992.2	991.6	991.0
155°	1027.2	1028.0	1028.8	1028.6	1027.6	1026.6	1025.6	1024.6
157.5°	1056.9	1057.7	1058.5	1058.3	1056.9	1055.6	1054.3	1053.0
160°	1075.0	1075.8	1076.7	1076.5	1075.5	1074.5	1073.5	1072.5
162.5°	1092.0	1092.9	1093.9	1093.8	1092.6	1091.5	1090.3	1089.1
165°	1114.7	1115.5	1116.3	1116.2	1115.0	1113.7	1112.6	1111.3
167.5°	1131.7	1132.8	1134.1	1134.1	1132.8	1131.6	1130.3	1129.1
170°	1141.7	1143.0	1144.2	1144.1	1142.6	1141.3	1139.9	1138.4
172.5°	1149.0	1150.2	1151.4	1151.4	1150.1	1148.9	1147.6	1146.4
175°	1157.1	1158.3	1159.6	1159.4	1158.1	1156.6	1155.2	1153.8
177.5°	1160.8	1161.8	1162.7	1162.6	1161.5	1160.4	1159.3	1158.2
180°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0

(END OF REPORT)