

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: P333327-940

Luminaire Tested: **S125DIP-S1270D1035U940-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333327-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
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-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7705.8 lumens
Efficiency: N/A
Efficacy: 115.4 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

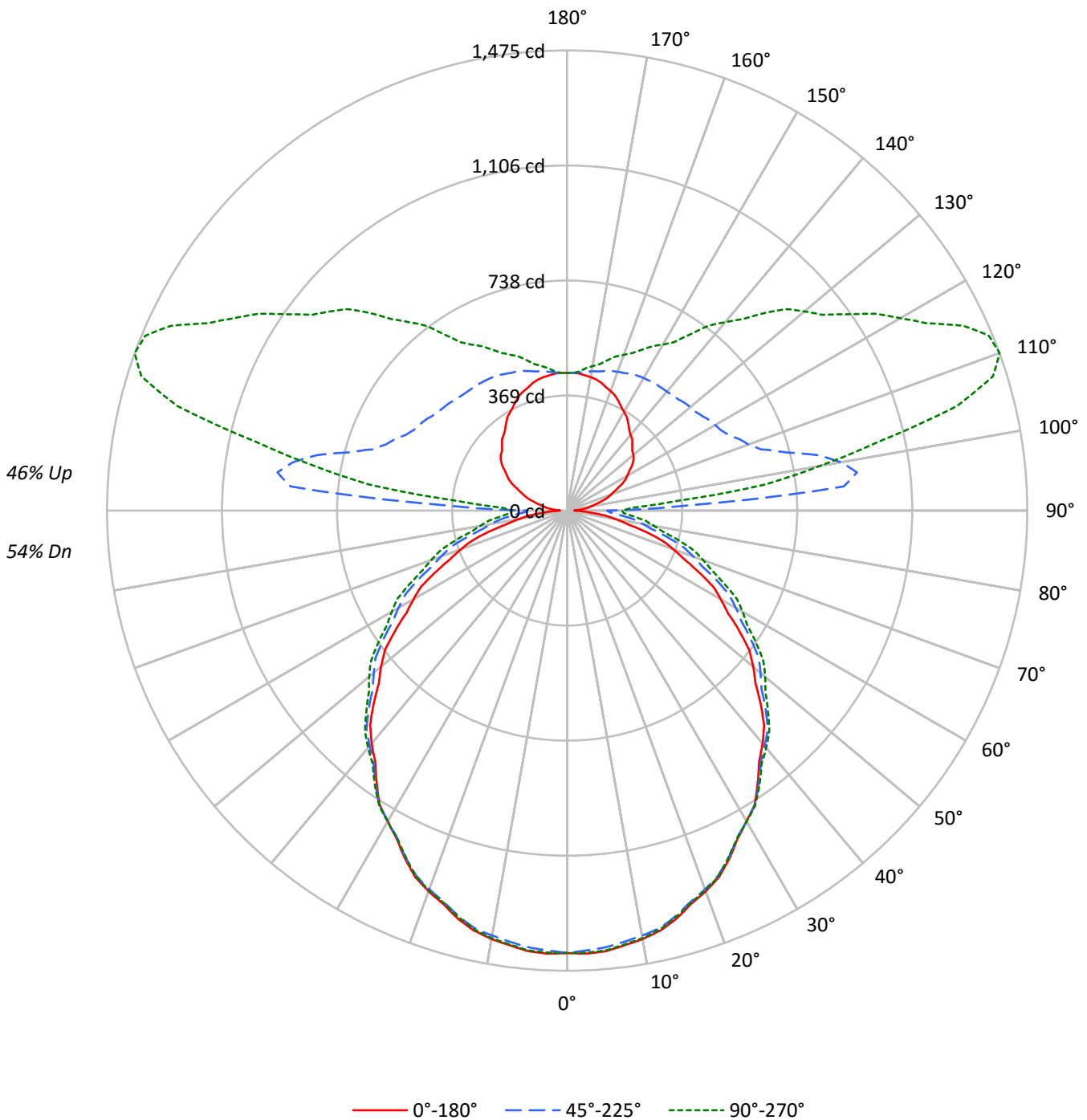
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	85	85	72	72	72	59	59	59	54
1	98	93	89	85	90	86	83	79	74	71	68	62	60	58	51	50	49	43
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	42	40	36
3	81	71	63	57	74	66	59	54	56	51	47	47	44	40	39	36	34	30
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29	25
5	68	56	47	41	62	52	44	39	44	39	34	38	33	30	31	28	25	22
6	62	50	41	35	57	46	39	33	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20	17
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	17	15
9	50	37	30	24	46	35	28	23	30	25	21	26	21	18	22	18	16	14
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	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



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CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.7
10°-20°	380.7	4.9
20°-30°	566.1	7.3
30°-40°	670.6	8.7
40°-50°	693.3	9.0
50°-60°	638.7	8.3
60°-70°	516.3	6.7
70°-80°	345.7	4.5
80°-90°	181.8	2.4
90°-100°	420.6	5.5
100°-110°	762.2	9.9
110°-120°	695.4	9.0
120°-130°	551.5	7.2
130°-140°	432.3	5.6
140°-150°	319.4	4.1
150°-160°	223.1	2.9
160°-170°	131.5	1.7
170°-180°	42.8	0.6
0°-30°	1080.9	14.0
0°-40°	1751.4	22.7
0°-60°	3083.4	40.0
0°-90°	4127.2	53.6
90°-120°	1878.2	24.4
90°-150°	3181.3	41.3
90°-180°	3579.0	46.4
0°-180°	7705.8	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	176	17
95°	47	142	890	489	351	45
105°	113	176	722	1374	1294	119
115°	188	236	572	1195	1402	185
125°	255	298	529	942	1096	226
135°	295	353	504	773	896	229
145°	341	390	495	623	691	214
155°	388	418	482	545	569	179
165°	424	435	463	491	498	119
175°	441	441	444	450	448	42
180°	442	442	442	442	442	



TEST NUMBER: P333327-940

CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D4

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	53.6	63.8	74.1	84.4	94.9	105.6	116.5	127.2	137.9	145.3
90°	23.1	33.9	45.6	57.2	68.9	80.9	92.3	104.6	115.9	128.2	136.3
92.5°	30.9	42.4	58.9	79.2	103.6	139.6	198.9	291.2	390.4	396.5	348.7
95°	47.4	56.4	71.5	89.3	117.0	166.3	272.1	478.4	734.6	890.2	880.0
97.5°	65.2	73.5	85.7	102.7	127.6	165.1	238.3	391.9	659.1	936.8	1077.5
100°	77.6	85.9	95.9	112.2	135.6	170.5	232.0	357.6	591.8	892.8	1121.9
102.5°	91.5	98.5	107.4	123.9	145.3	179.1	234.7	341.5	540.6	820.7	1087.3
105°	113.1	118.1	127.4	141.2	160.5	192.5	240.9	329.4	487.3	721.8	983.5
107.5°	134.2	140.2	148.6	160.2	179.1	208.1	254.9	331.7	461.8	652.6	879.2
110°	149.5	155.0	162.2	174.0	191.0	220.3	265.5	335.6	451.9	619.0	818.9



TEST NUMBER: P333327-940

CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	165.9	170.6	176.5	187.4	203.8	231.8	275.4	341.6	447.7	597.4	772.9
115°	188.2	192.1	196.9	207.1	222.7	249.9	291.0	350.6	444.1	572.3	721.2
117.5°	208.1	212.2	216.5	226.0	242.5	268.5	307.3	361.9	443.7	556.5	687.3
120°	222.4	226.0	230.4	239.4	255.5	281.7	319.9	369.8	445.5	547.9	667.9
122.5°	236.2	238.6	241.9	250.3	267.3	293.2	331.3	378.7	446.2	539.8	650.4
125°	254.9	256.3	260.4	268.1	284.7	310.9	346.3	390.8	448.6	528.7	626.2
127.5°	268.2	270.5	276.0	285.8	303.4	329.0	362.4	402.7	452.8	520.1	603.4
130°	277.4	279.8	286.6	297.9	316.3	341.4	373.4	411.5	455.8	515.4	589.2
132.5°	283.5	286.8	295.2	308.2	327.5	352.3	383.3	418.3	458.9	511.0	576.1
135°	294.8	298.0	308.4	322.4	340.7	365.7	395.4	427.0	462.1	504.3	559.0
137.5°	309.1	311.5	321.2	335.2	353.3	378.4	404.6	433.8	466.2	500.3	544.6
140°	316.5	319.1	329.8	344.1	361.1	385.2	411.3	438.4	467.2	497.8	536.7
142.5°	326.5	328.1	338.0	351.9	367.8	390.4	414.8	440.1	467.3	496.2	530.5
145°	341.4	342.9	351.5	363.6	379.3	399.7	422.8	445.1	469.1	494.9	523.2
147.5°	355.7	356.8	364.4	376.0	389.9	407.9	428.2	448.3	470.0	492.6	516.7
150°	365.0	366.8	373.0	384.6	397.0	412.1	431.8	450.4	470.0	490.4	511.8
152.5°	375.0	376.0	381.6	391.6	403.4	417.1	435.3	451.8	469.3	487.7	506.8
155°	388.1	388.1	393.4	402.3	411.3	423.7	438.8	453.1	467.3	482.5	498.5
157.5°	399.8	399.7	403.9	411.6	419.5	428.9	441.8	454.0	465.0	477.2	490.6
160°	407.7	406.8	410.4	416.6	423.7	431.8	443.3	454.0	462.9	473.6	484.3
162.5°	414.1	413.2	416.8	422.3	428.0	434.6	444.7	453.3	460.7	469.3	478.6
165°	423.7	422.0	424.6	429.1	432.7	438.0	445.1	452.2	457.5	462.9	470.0
167.5°	430.2	429.3	430.9	433.4	435.9	439.2	445.1	450.0	452.5	456.6	461.6
170°	434.4	433.5	434.4	436.2	438.0	440.6	445.1	448.6	450.4	453.1	456.6
172.5°	437.3	435.7	436.6	438.3	439.3	440.6	444.3	447.2	447.5	448.8	451.7
175°	440.6	438.8	439.7	440.6	440.6	440.6	443.3	445.1	444.2	444.2	445.1
177.5°	442.2	440.8	440.8	441.5	440.8	440.8	442.2	442.9	441.5	441.5	442.2
180°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5



TEST NUMBER: P333327-940

CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D4

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	159.8	167.1	172.1	174.2	176.5	178.8	180.9
90°	144.3	152.2	160.2	166.7	168.8	170.9	174.1	176.2
92.5°	281.0	244.6	223.2	214.5	205.3	205.3	206.2	207.0
95°	755.1	626.6	523.9	453.6	392.6	368.0	363.1	351.0
97.5°	1060.7	972.3	872.2	772.5	719.5	671.8	648.1	638.8
100°	1196.9	1159.8	1074.5	986.1	926.6	864.3	833.2	820.8
102.5°	1239.7	1272.7	1235.0	1176.4	1112.6	1068.8	1034.9	1026.1
105°	1203.3	1331.4	1376.8	1371.2	1344.9	1317.7	1302.0	1293.5
107.5°	1096.1	1265.0	1371.6	1422.1	1438.5	1440.2	1436.3	1431.0
110°	1017.1	1192.1	1323.5	1403.2	1445.4	1464.5	1472.8	1475.1



TEST NUMBER: P333327-940

CATALOG NUMBER: S125DIP-S1270D1035U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	953.8	1120.0	1252.5	1345.6	1406.3	1437.5	1455.2	1463.7
115°	873.6	1017.2	1144.7	1245.4	1316.7	1361.3	1388.0	1401.5
117.5°	818.9	943.2	1053.5	1146.1	1217.6	1263.9	1290.8	1300.0
120°	788.9	901.0	1004.2	1086.0	1153.8	1198.3	1224.2	1233.1
122.5°	764.7	868.7	960.9	1037.7	1098.3	1139.3	1165.2	1173.5
125°	730.0	825.7	908.1	975.4	1026.8	1064.9	1086.0	1096.4
127.5°	694.4	783.6	860.5	923.7	970.7	1004.7	1025.0	1030.7
130°	672.7	755.4	829.1	889.9	935.9	966.9	986.2	993.1
132.5°	650.4	728.2	795.5	854.0	899.8	930.5	948.2	955.6
135°	620.0	685.5	746.5	800.0	840.7	871.6	889.1	896.1
137.5°	594.7	648.0	699.0	744.6	780.9	808.8	824.8	831.9
140°	580.1	625.4	669.8	709.4	743.6	768.0	782.6	788.3
142.5°	567.7	606.0	644.2	678.7	707.8	728.7	742.5	747.5
145°	552.3	581.5	610.6	636.1	658.6	675.0	686.0	690.8
147.5°	538.9	561.8	583.4	602.1	619.6	632.2	638.5	640.7
150°	531.5	551.0	567.9	584.1	597.8	608.8	612.6	613.9
152.5°	524.3	541.7	557.2	569.7	581.0	589.6	593.3	594.2
155°	513.6	527.9	540.4	550.1	559.0	565.3	567.9	568.8
157.5°	502.9	514.7	524.3	532.0	539.0	544.0	546.5	546.4
160°	495.8	504.7	513.6	519.9	526.1	530.6	532.4	531.5
162.5°	488.0	496.1	503.6	509.2	514.0	517.7	518.1	517.9
165°	477.2	483.4	488.7	493.1	496.7	498.5	498.5	498.5
167.5°	466.8	470.9	475.0	478.2	480.0	481.6	480.9	480.7
170°	461.1	463.8	466.5	468.2	470.0	470.9	470.9	470.0
172.5°	454.7	457.4	459.3	460.4	460.7	462.4	460.9	460.0
175°	447.7	447.7	449.5	449.5	449.5	450.4	448.6	447.7
177.5°	442.9	443.6	443.6	443.6	442.9	443.6	441.5	441.5
180°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5

(END OF REPORT)