

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: P333325-940

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333325-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
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-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8083.1 lumens
Efficiency: N/A
Efficacy: 121.0 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

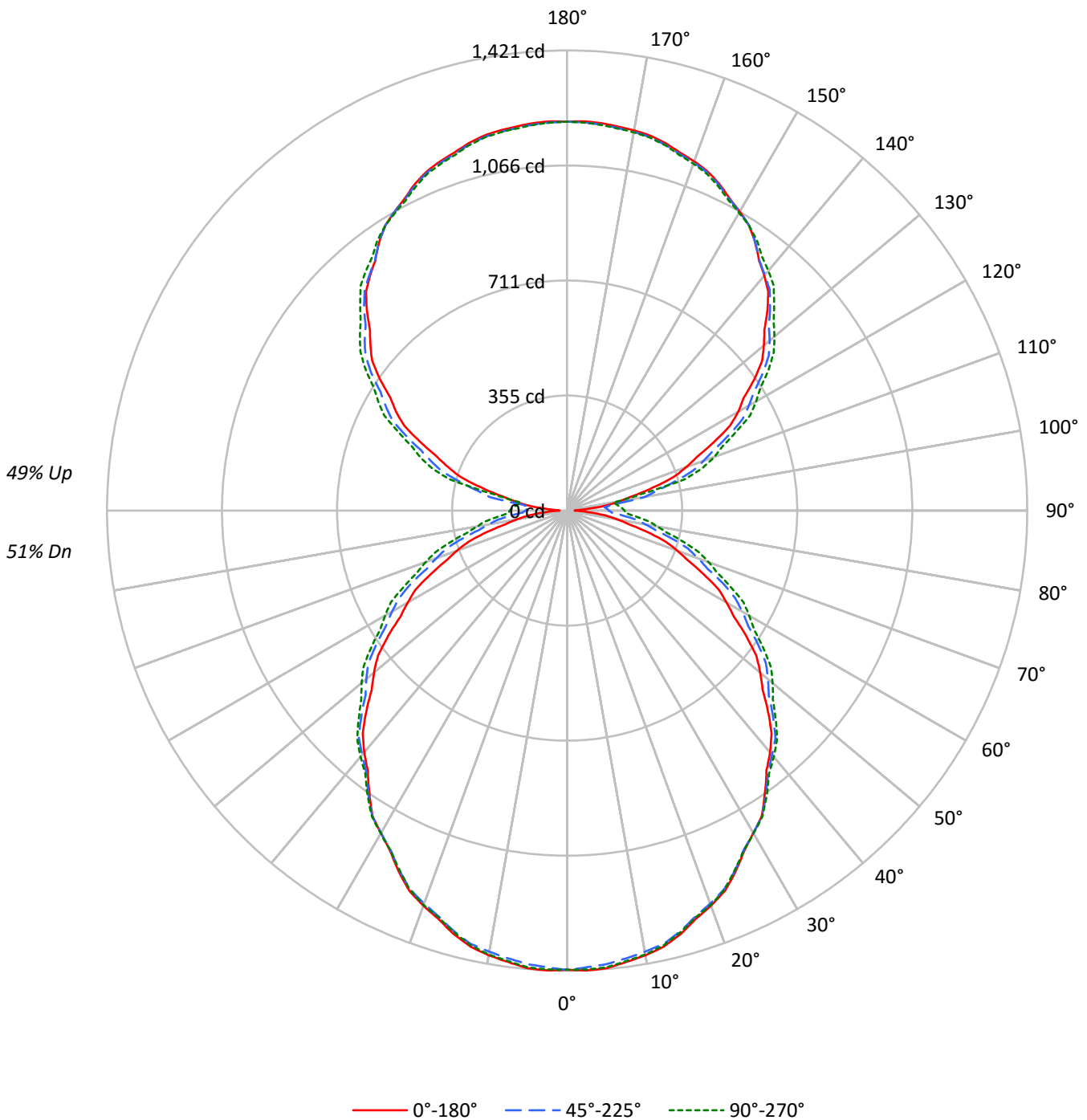
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333325-940

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

Luminous Intensity Polar Plot





TEST NUMBER: P333325-940

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

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	97	93	88	85	90	86	82	79	72	70	67	60	58	57	49	48	47	41
2	88	80	74	69	81	74	69	64	63	59	55	53	49	47	43	41	39	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33	29
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28	24
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	28	23	20	23	19	17	14
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	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: P333325-940

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.7
10°-20°	380.7	4.7
20°-30°	566.1	7.0
30°-40°	670.6	8.3
40°-50°	693.3	8.6
50°-60°	638.7	7.9
60°-70°	516.3	6.4
70°-80°	345.7	4.3
80°-90°	181.8	2.2
90°-100°	144.2	1.8
100°-110°	343.2	4.2
110°-120°	537.6	6.7
120°-130°	654.3	8.1
130°-140°	685.8	8.5
140°-150°	634.6	7.9
150°-160°	511.4	6.3
160°-170°	330.7	4.1
170°-180°	114.1	1.4
0°-30°	1080.9	13.4
0°-40°	1751.4	21.7
0°-60°	3083.4	38.1
0°-90°	4127.2	51.1
90°-120°	1025.0	12.7
90°-150°	2999.8	37.1
90°-180°	3956.0	48.9
0°-180°	8083.1	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	17
95°	69	101	116	149	160	79
105°	274	301	342	369	378	291
115°	500	515	551	571	576	495
125°	704	711	737	755	760	629
135°	874	879	886	902	904	674
145°	1012	1012	1012	1020	1020	632
155°	1113	1108	1109	1112	1105	513
165°	1174	1169	1170	1175	1168	332
175°	1201	1196	1197	1203	1196	114
180°	1201	1201	1201	1201	1201	



TEST NUMBER: P333325-940

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

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°	33.7	41.7	49.8	57.9	65.9	75.9	87.8	99.9	111.8	123.8	131.6
95°	68.8	76.2	83.7	91.1	98.6	103.8	106.7	109.8	112.7	115.7	123.5
97.5°	122.3	130.6	138.9	147.2	155.5	157.3	152.6	147.8	143.1	138.3	139.3
100°	164.0	171.0	178.2	185.2	192.3	201.2	211.9	222.6	233.2	243.9	220.9
102.5°	206.3	213.0	219.8	226.6	233.3	241.7	251.8	262.0	272.1	282.2	282.9
105°	274.3	280.0	285.7	291.5	297.2	304.7	314.0	323.2	332.5	341.8	347.9
107.5°	344.9	349.1	353.3	357.5	361.7	368.5	377.7	387.0	396.4	405.6	411.8
110°	390.8	394.5	398.2	401.9	405.6	412.0	421.1	430.1	439.2	448.2	453.4



TEST NUMBER: P333325-940

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	435.0	438.4	441.8	445.3	448.7	454.8	463.4	472.1	480.7	489.4	494.2
115°	499.8	502.9	506.1	509.3	512.4	518.1	526.4	534.6	542.8	551.1	555.8
117.5°	566.9	568.4	569.7	571.1	572.5	577.4	585.8	594.1	602.4	610.8	615.0
120°	609.8	610.5	611.2	611.9	612.6	616.9	624.6	632.2	640.0	647.6	652.5
122.5°	646.3	647.6	648.7	649.9	651.1	655.2	662.4	669.5	676.6	683.8	688.4
125°	704.5	705.5	706.6	707.8	708.8	712.4	718.6	724.8	730.9	737.1	741.3
127.5°	758.8	759.5	760.2	760.9	761.5	764.4	769.3	774.3	779.2	784.2	788.3
130°	793.0	793.7	794.3	795.0	795.8	798.3	802.9	807.4	811.9	816.5	820.2
132.5°	826.1	827.2	828.2	829.4	830.5	832.4	835.4	838.2	841.2	844.0	848.3
135°	874.4	875.3	876.2	877.1	878.0	879.2	881.0	882.8	884.6	886.4	889.9
137.5°	918.8	919.6	920.4	921.2	921.9	922.7	923.4	924.1	924.8	925.5	929.3
140°	946.9	947.4	947.7	948.2	948.5	948.8	948.9	949.0	949.1	949.2	953.0
142.5°	973.3	973.3	973.3	973.3	973.2	973.4	973.7	974.1	974.5	974.7	977.8
145°	1011.9	1012.0	1012.1	1012.2	1012.3	1012.4	1012.4	1012.4	1012.4	1012.4	1014.1
147.5°	1044.4	1044.3	1044.2	1044.1	1044.0	1044.1	1044.4	1044.6	1044.8	1045.1	1045.8
150°	1065.8	1065.3	1065.0	1064.5	1064.2	1064.2	1064.5	1065.0	1065.3	1065.8	1066.1
152.5°	1086.4	1085.6	1084.7	1083.8	1082.9	1082.7	1083.1	1083.4	1083.9	1084.2	1084.7
155°	1112.9	1111.8	1110.5	1109.4	1108.2	1107.8	1108.2	1108.6	1108.9	1109.4	1110.0
157.5°	1133.4	1132.7	1132.0	1131.3	1130.6	1130.2	1130.2	1130.3	1130.3	1130.4	1131.0
160°	1147.6	1146.5	1145.3	1144.1	1142.9	1142.4	1142.6	1142.8	1143.0	1143.2	1144.0
162.5°	1159.0	1157.9	1156.6	1155.5	1154.3	1153.8	1154.0	1154.2	1154.4	1154.6	1155.7
165°	1174.4	1173.1	1172.0	1170.8	1169.7	1169.1	1169.3	1169.5	1169.7	1169.9	1171.1
167.5°	1185.8	1184.5	1183.3	1182.1	1180.9	1180.4	1180.5	1180.7	1180.9	1181.2	1182.6
170°	1192.1	1190.8	1189.4	1188.0	1186.6	1186.1	1186.2	1186.4	1186.6	1186.9	1188.4
172.5°	1196.4	1195.1	1193.6	1192.3	1190.9	1190.4	1190.7	1191.1	1191.4	1191.8	1193.2
175°	1201.0	1199.9	1198.7	1197.5	1196.3	1195.9	1196.1	1196.2	1196.4	1196.6	1198.2
177.5°	1203.2	1202.3	1201.3	1200.3	1199.4	1199.0	1199.2	1199.4	1199.5	1199.6	1200.8
180°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0



TEST NUMBER: P333325-940

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

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°	139.5	147.3	155.2	160.3	162.7	165.2	167.6	170.1
95°	131.3	139.1	146.9	151.9	154.0	156.1	158.4	160.5
97.5°	140.2	141.1	142.0	143.5	145.6	147.7	149.8	151.9
100°	197.9	175.0	151.9	141.0	142.0	143.1	144.2	145.2
102.5°	283.5	284.2	284.8	279.4	267.8	256.2	244.6	233.0
105°	354.2	360.3	366.5	370.6	372.6	374.5	376.5	378.4
107.5°	417.9	424.1	430.3	434.0	435.3	436.7	437.9	439.3
110°	458.8	464.0	469.3	473.1	475.5	477.9	480.2	482.6



TEST NUMBER: P333325-940

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	499.1	503.9	508.8	512.2	514.1	515.9	517.8	519.7
115°	560.5	565.3	570.1	572.8	573.5	574.2	574.8	575.5
117.5°	619.2	623.5	627.7	630.6	632.1	633.7	635.3	636.9
120°	657.4	662.2	667.1	669.9	670.8	671.6	672.5	673.4
122.5°	693.0	697.6	702.2	704.9	705.6	706.3	707.0	707.8
125°	745.5	749.6	753.8	756.3	757.2	758.2	759.1	760.1
127.5°	792.5	796.6	800.7	802.9	803.3	803.6	803.9	804.2
130°	823.9	827.6	831.3	833.5	834.0	834.6	835.2	835.7
132.5°	852.5	856.7	860.9	863.1	863.4	863.7	864.1	864.3
135°	893.6	897.2	900.8	902.8	903.1	903.5	903.8	904.2
137.5°	932.9	936.7	940.4	942.4	942.5	942.8	943.0	943.2
140°	956.8	960.6	964.4	966.3	966.3	966.4	966.4	966.5
142.5°	980.7	983.7	986.7	988.2	988.3	988.3	988.4	988.4
145°	1015.8	1017.5	1019.3	1020.2	1020.2	1020.3	1020.3	1020.4
147.5°	1046.5	1047.3	1048.0	1047.9	1047.0	1046.2	1045.4	1044.5
150°	1066.6	1066.9	1067.3	1066.8	1065.6	1064.3	1063.1	1061.8
152.5°	1085.0	1085.5	1085.8	1085.4	1084.0	1082.6	1081.3	1080.0
155°	1110.5	1111.2	1111.8	1111.3	1109.6	1108.0	1106.5	1104.9
157.5°	1131.7	1132.3	1132.9	1132.5	1130.9	1129.3	1127.7	1126.1
160°	1144.8	1145.6	1146.4	1145.9	1144.4	1142.8	1141.2	1139.6
162.5°	1156.8	1157.9	1159.0	1158.7	1157.0	1155.2	1153.5	1151.7
165°	1172.2	1173.5	1174.7	1174.5	1172.9	1171.3	1169.7	1168.1
167.5°	1184.0	1185.4	1186.9	1186.7	1184.9	1183.1	1181.3	1179.6
170°	1190.0	1191.6	1193.2	1193.0	1191.2	1189.5	1187.8	1186.0
172.5°	1194.6	1196.1	1197.5	1197.3	1195.5	1193.7	1191.9	1190.3
175°	1199.8	1201.4	1202.9	1202.8	1201.0	1199.3	1197.5	1195.7
177.5°	1201.8	1203.0	1204.1	1204.0	1202.7	1201.5	1200.2	1198.9
180°	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0	1201.0

(END OF REPORT)