

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: P333298-940

Luminaire Tested: **S125DIP-S1270D365U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333298-940
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-S1270D365U940-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5698.9 lumens
Efficiency: N/A
Efficacy: 114.4 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: Semi-Direct

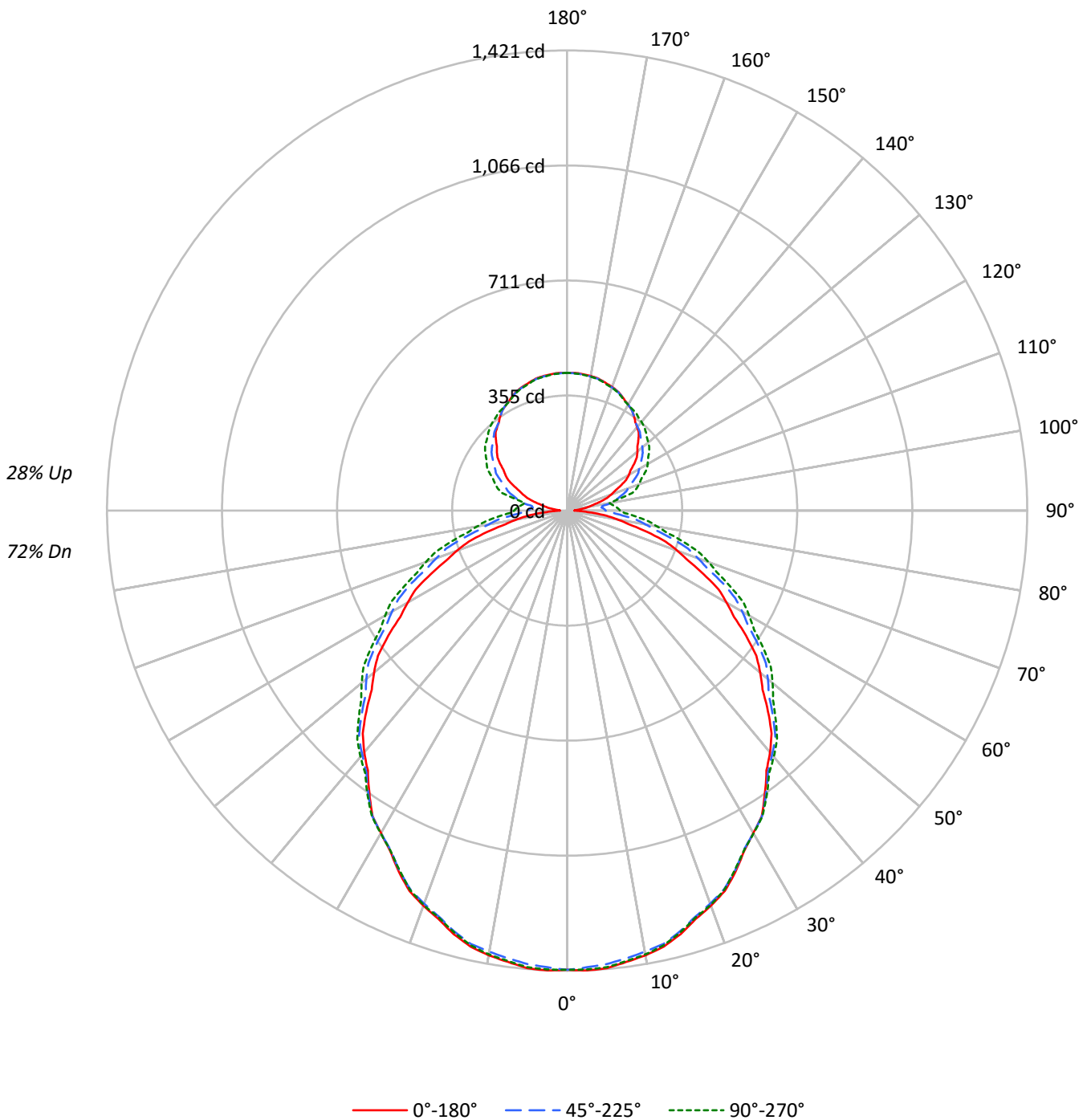
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333298-940

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77
1	102	97	92	88	96	92	88	84	83	79	77	74	72	69	66	64	63
2	92	84	77	71	87	80	74	68	72	67	63	64	61	57	58	55	52
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	41	36	33
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	29
7	60	47	38	32	57	45	37	31	41	34	29	37	31	27	34	29	25
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19

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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.4
10°-20°	380.7	6.7
20°-30°	566.1	9.9
30°-40°	670.6	11.8
40°-50°	693.3	12.2
50°-60°	638.7	11.2
60°-70°	516.3	9.1
70°-80°	345.7	6.1
80°-90°	180.2	3.2
90°-100°	116.1	2.0
100°-110°	169.4	3.0
110°-120°	222.4	3.9
120°-130°	249.9	4.4
130°-140°	250.8	4.4
140°-150°	226.3	4.0
150°-160°	181.0	3.2
160°-170°	117.1	2.1
170°-180°	40.4	0.7
0°-30°	1080.9	19.0
0°-40°	1751.4	30.7
0°-60°	3083.4	54.1
0°-90°	4125.6	72.4
90°-120°	507.9	8.9
90°-150°	1234.8	21.7
90°-180°	1573.0	27.6
0°-180°	5698.9	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	70	119	151	163	16
95°	36	71	107	137	148	37
105°	105	130	170	197	208	111
115°	182	195	230	253	260	181
125°	253	255	282	302	309	226
135°	311	312	321	338	344	240
145°	359	358	358	365	369	224
155°	394	392	393	394	391	181
165°	416	414	414	416	414	117
175°	425	424	424	426	423	40
180°	425	425	425	425	425	



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CATALOG NUMBER: S125DIP-S1270D365U940-4F0-1E-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°	43.4	53.4	63.4	73.5	83.5	93.7	104.3	114.9	125.6	136.2	143.3
90°	22.6	33.0	43.4	53.9	64.4	75.1	86.1	97.0	108.1	119.0	126.5
92.5°	24.9	33.6	42.4	51.1	59.9	69.8	81.1	92.2	103.4	114.6	121.8
95°	36.0	43.9	51.7	59.5	67.3	75.2	83.0	90.9	98.7	106.6	113.7
97.5°	53.9	61.5	69.1	76.8	84.4	90.6	95.4	100.3	105.2	110.0	114.6
100°	67.9	74.6	81.3	88.0	94.7	103.2	113.3	123.5	133.7	143.8	139.9
102.5°	82.2	88.5	94.7	100.9	107.3	115.3	125.1	134.9	144.7	154.5	158.8
105°	105.2	110.4	115.7	120.8	126.1	133.3	142.6	151.9	161.1	170.4	176.6
107.5°	129.1	133.3	137.5	141.7	145.9	152.6	161.6	170.6	179.7	188.7	194.8
110°	144.6	148.4	152.0	155.8	159.4	165.7	174.5	183.3	192.1	200.9	206.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	160.2	163.5	166.6	169.7	172.8	178.6	187.1	195.6	204.1	212.6	217.9
115°	182.4	184.9	187.3	189.8	192.3	197.7	205.8	213.9	222.0	230.1	235.4
117.5°	205.2	206.6	208.0	209.5	210.8	215.4	223.4	231.2	239.1	246.9	251.8
120°	220.3	221.2	222.0	222.9	223.7	227.8	235.1	242.5	249.8	257.1	262.3
122.5°	232.6	233.3	234.0	234.7	235.4	239.2	246.2	253.2	260.1	267.1	271.9
125°	253.0	253.2	253.3	253.5	253.7	256.9	263.1	269.3	275.4	281.6	286.2
127.5°	271.3	271.3	271.4	271.4	271.5	274.0	279.1	284.1	289.1	294.2	298.5
130°	283.5	283.5	283.6	283.6	283.6	285.8	290.3	294.6	299.0	303.4	307.6
132.5°	294.4	294.8	295.2	295.4	295.8	297.6	300.8	304.0	307.1	310.3	314.6
135°	311.4	311.5	311.6	311.7	311.8	312.9	314.9	316.9	319.0	320.9	324.9
137.5°	326.9	327.0	327.2	327.3	327.3	327.9	328.9	329.8	330.6	331.6	335.3
140°	336.2	336.3	336.4	336.5	336.7	336.9	337.2	337.3	337.6	337.9	341.3
142.5°	345.4	345.3	345.2	345.0	344.8	344.8	345.0	345.1	345.3	345.4	348.4
145°	359.2	359.0	358.8	358.6	358.5	358.4	358.4	358.4	358.4	358.4	360.0
147.5°	369.7	369.7	369.7	369.6	369.6	369.6	369.7	369.8	369.9	370.0	370.6
150°	377.3	377.2	377.0	376.8	376.7	376.7	376.8	377.0	377.2	377.3	377.5
152.5°	384.6	384.3	384.0	383.7	383.3	383.3	383.4	383.6	383.7	383.9	384.0
155°	394.0	393.6	393.2	392.7	392.4	392.2	392.4	392.4	392.6	392.7	393.0
157.5°	401.3	401.0	400.7	400.5	400.3	400.1	400.1	400.2	400.2	400.2	400.4
160°	406.3	405.9	405.5	405.0	404.7	404.5	404.5	404.6	404.7	404.7	405.0
162.5°	410.4	409.9	409.5	409.0	408.7	408.5	408.6	408.6	408.7	408.8	409.1
165°	415.7	415.4	414.9	414.5	414.1	413.9	413.9	414.0	414.1	414.2	414.6
167.5°	419.8	419.4	418.9	418.5	418.0	417.9	417.9	418.0	418.1	418.1	418.7
170°	422.0	421.6	421.1	420.6	420.1	419.9	420.0	420.0	420.1	420.2	420.7
172.5°	423.6	423.1	422.6	422.1	421.6	421.4	421.5	421.7	421.8	422.0	422.4
175°	425.2	424.8	424.4	423.9	423.6	423.4	423.4	423.5	423.6	423.7	424.2
177.5°	426.0	425.6	425.3	425.0	424.6	424.5	424.5	424.6	424.6	424.7	425.1
180°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2



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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°	150.5	157.7	164.9	169.5	171.7	174.0	176.1	178.3
90°	133.9	141.4	148.8	153.8	156.1	158.5	160.9	163.3
92.5°	129.0	136.3	143.5	148.2	150.4	152.7	155.0	157.2
95°	120.8	128.0	135.1	139.8	142.0	144.1	146.2	148.5
97.5°	119.0	123.6	128.1	131.4	133.5	135.6	137.7	139.8
100°	135.9	132.0	128.0	126.8	128.4	130.0	131.5	133.1
102.5°	163.0	167.3	171.6	172.3	169.3	166.4	163.5	160.6
105°	182.7	189.0	195.1	199.2	201.3	203.4	205.5	207.6
107.5°	201.0	207.1	213.2	217.1	218.8	220.5	222.2	223.9
110°	212.2	217.8	223.6	227.5	229.7	231.9	234.2	236.4



TEST NUMBER: P333298-940

CATALOG NUMBER: S125DIP-S1270D365U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	223.3	228.6	234.0	237.7	239.8	241.8	243.9	245.9
115°	240.7	245.9	251.2	254.6	256.0	257.4	258.9	260.3
117.5°	256.7	261.6	266.5	269.9	271.8	273.8	275.6	277.6
120°	267.3	272.4	277.6	280.9	282.4	283.9	285.3	286.9
122.5°	276.8	281.6	286.5	289.6	291.1	292.6	294.0	295.4
125°	291.0	295.6	300.2	303.3	304.6	305.9	307.3	308.6
127.5°	303.0	307.4	311.8	314.7	315.9	317.2	318.5	319.8
130°	311.7	315.8	319.9	322.5	323.7	324.9	326.1	327.3
132.5°	318.9	323.2	327.4	330.0	331.0	332.0	332.9	333.9
135°	328.7	332.6	336.4	338.9	340.1	341.3	342.3	343.5
137.5°	338.9	342.6	346.3	348.6	349.5	350.3	351.2	352.0
140°	344.9	348.5	352.0	354.2	355.0	355.8	356.6	357.4
142.5°	351.3	354.3	357.2	359.1	359.9	360.7	361.5	362.3
145°	361.6	363.2	364.9	366.0	366.8	367.7	368.5	369.3
147.5°	371.1	371.8	372.3	372.6	372.6	372.7	372.7	372.8
150°	377.6	377.7	377.8	377.8	377.6	377.3	377.0	376.8
152.5°	384.1	384.2	384.4	384.2	383.8	383.3	382.9	382.5
155°	393.2	393.3	393.6	393.4	392.9	392.3	391.7	391.2
157.5°	400.6	400.8	401.1	400.9	400.4	399.8	399.2	398.7
160°	405.3	405.6	405.8	405.7	405.1	404.6	404.0	403.5
162.5°	409.6	409.9	410.4	410.2	409.6	408.9	408.4	407.8
165°	415.0	415.4	415.9	415.8	415.3	414.6	414.1	413.6
167.5°	419.2	419.6	420.2	420.1	419.5	418.8	418.2	417.6
170°	421.2	421.9	422.4	422.4	421.8	421.2	420.4	419.8
172.5°	422.9	423.5	423.9	423.9	423.3	422.6	422.0	421.3
175°	424.7	425.3	425.9	425.9	425.2	424.5	423.9	423.3
177.5°	425.5	425.9	426.2	426.2	425.8	425.3	424.9	424.5
180°	425.2	425.2	425.2	425.2	425.2	425.2	425.2	425.2

(END OF REPORT)