

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: P333327-935

Luminaire Tested: **S125DIP-S1270D1035U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333327-935
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-S1270D1035U935-4F0-1E-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: 7440.4 lumens
Efficiency: N/A
Efficacy: 111.4 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

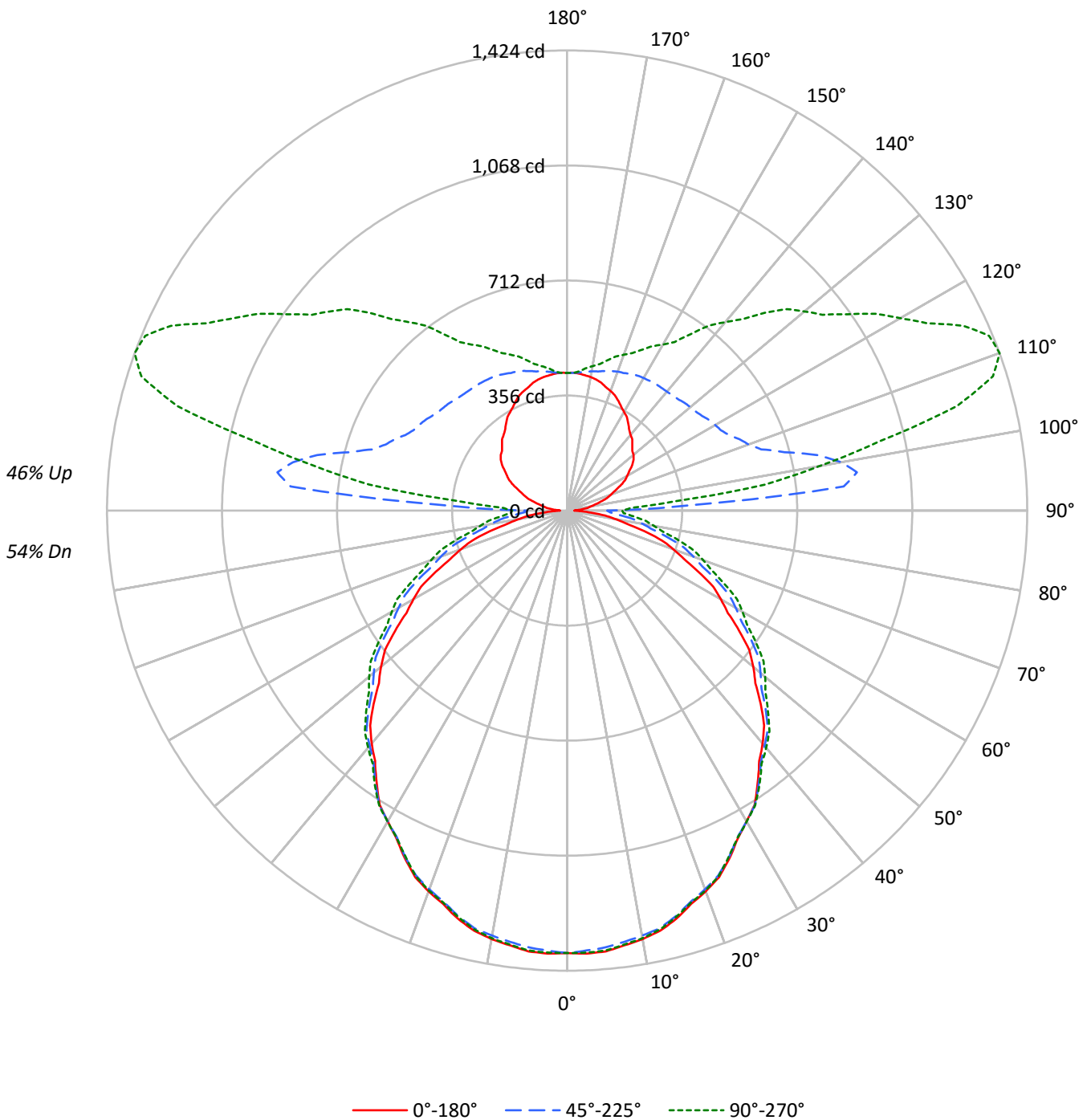
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	8843	8843	8843
5°	8860	8680	8707
10°	8797	8525	8512
15°	8694	8339	8263
20°	8552	8110	8015
25°	8384	7865	7709
30°	8181	7595	7431
35°	7991	7346	7176
40°	7797	7085	6920
45°	7579	6861	6693
50°	7370	6618	6491
55°	7119	6390	6255
60°	6846	6128	6014
65°	6558	5855	5742
70°	6233	5481	5463
75°	5719	5122	5121
80°	5046	4687	4749
85°	4423	4393	4630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.7
10°-20°	367.5	4.9
20°-30°	546.6	7.3
30°-40°	647.5	8.7
40°-50°	669.4	9.0
50°-60°	616.7	8.3
60°-70°	498.5	6.7
70°-80°	333.8	4.5
80°-90°	175.5	2.4
90°-100°	406.1	5.5
100°-110°	735.9	9.9
110°-120°	671.4	9.0
120°-130°	532.5	7.2
130°-140°	417.4	5.6
140°-150°	308.4	4.1
150°-160°	215.4	2.9
160°-170°	126.9	1.7
170°-180°	41.3	0.6
0°-30°	1043.6	14.0
0°-40°	1691.1	22.7
0°-60°	2977.2	40.0
0°-90°	3985.0	53.6
90°-120°	1813.5	24.4
90°-150°	3071.7	41.3
90°-180°	3455.0	46.4
0°-180°	7440.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1367	130
15°	1308	1308	1299	1307	1302	368
25°	1188	1191	1184	1189	1183	547
35°	1028	1037	1034	1037	1038	643
45°	847	861	868	877	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	351	358	262
85°	74	118	165	194	205	79
90°	22	72	124	158	170	16
95°	46	137	860	472	339	44
105°	109	170	697	1327	1249	115
115°	182	228	553	1154	1353	179
125°	246	288	510	909	1059	218
135°	285	341	487	747	865	221
145°	330	376	478	602	667	206
155°	375	403	466	526	549	173
165°	409	420	447	474	481	115
175°	425	425	429	434	432	40
180°	426	426	426	426	426	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1372.4	1372.0	1371.5	1371.1	1370.5	1369.5	1367.8	1366.1	1364.5	1362.8	1364.5
5°	1369.2	1368.6	1368.0	1367.4	1366.8	1365.5	1363.4	1361.3	1359.3	1357.2	1359.5
7.5°	1357.2	1356.9	1356.7	1356.4	1356.2	1355.0	1352.9	1350.7	1348.6	1346.4	1348.5
10°	1346.4	1346.4	1346.4	1346.4	1346.4	1345.2	1342.8	1340.5	1338.1	1335.7	1337.7
12.5°	1331.4	1331.6	1331.9	1332.1	1332.3	1331.5	1329.6	1327.7	1325.8	1323.9	1325.5
15°	1307.5	1307.8	1308.1	1308.4	1308.7	1307.8	1305.7	1303.6	1301.6	1299.4	1301.2
17.5°	1276.3	1276.9	1277.6	1278.2	1278.8	1278.0	1275.9	1273.8	1271.7	1269.6	1271.0
20°	1253.8	1254.4	1255.0	1255.6	1256.2	1255.4	1253.4	1251.3	1249.1	1247.1	1248.0
22.5°	1228.0	1229.1	1230.2	1231.2	1232.3	1231.7	1229.3	1227.0	1224.7	1222.4	1223.5
25°	1188.0	1189.0	1189.8	1190.7	1191.6	1191.2	1189.4	1187.6	1185.8	1184.0	1185.2
27.5°	1143.5	1144.8	1146.1	1147.4	1148.7	1148.3	1146.3	1144.3	1142.3	1140.2	1141.1
30°	1110.2	1112.0	1113.7	1115.5	1117.3	1117.3	1115.5	1113.7	1112.0	1110.2	1110.8
32.5°	1080.1	1081.7	1083.2	1084.8	1086.3	1086.4	1085.1	1083.8	1082.4	1081.2	1081.8
35°	1028.3	1030.4	1032.4	1034.6	1036.6	1037.2	1036.3	1035.4	1034.6	1033.6	1034.6
37.5°	976.5	978.4	980.2	982.2	984.1	984.9	984.6	984.3	984.0	983.7	984.9
40°	941.0	943.4	945.8	948.2	950.5	951.6	951.3	951.0	950.7	950.5	951.6
42.5°	902.3	905.4	908.5	911.6	914.8	916.6	917.3	918.0	918.6	919.3	920.7
45°	847.1	850.3	853.6	856.9	860.1	862.5	864.1	865.6	867.0	868.5	870.6
47.5°	790.4	793.4	796.5	799.5	802.5	805.4	808.0	810.5	813.0	815.6	818.7
50°	751.7	755.0	758.3	761.6	764.9	768.2	771.5	774.7	778.0	781.3	784.5
52.5°	710.9	715.0	718.9	722.9	726.9	730.9	734.9	738.9	742.9	746.9	750.4
55°	651.1	655.8	660.6	665.4	670.1	674.9	679.7	684.5	689.2	694.1	697.3
57.5°	589.9	595.6	601.3	607.0	612.8	618.4	623.9	629.3	634.8	640.3	644.1
60°	549.1	555.0	560.9	567.0	572.9	578.9	584.9	590.8	596.8	602.7	607.2
62.5°	509.3	515.3	521.2	527.2	533.1	539.4	545.8	552.2	558.7	565.2	570.1
65°	448.3	455.2	462.1	469.0	475.8	482.8	490.0	497.1	504.3	511.4	515.9
67.5°	390.9	397.5	404.2	410.8	417.4	424.4	431.6	438.9	446.2	453.5	458.9
70°	349.0	355.9	362.7	369.6	376.4	383.7	391.5	399.3	407.1	414.8	420.5
72.5°	308.2	315.3	322.4	329.5	336.7	344.4	352.8	361.4	369.8	378.3	384.4
75°	247.0	254.8	262.5	270.3	278.0	286.7	296.2	305.7	315.3	324.9	330.8
77.5°	188.2	197.2	206.1	215.1	224.0	233.1	242.3	251.4	260.6	269.8	276.4
80°	151.7	160.7	169.6	178.6	187.5	197.0	207.2	217.3	227.5	237.6	244.2
82.5°	118.4	127.9	137.2	146.7	156.1	166.0	176.4	186.8	197.2	207.5	213.9
85°	73.9	83.7	93.5	103.4	113.2	123.4	133.8	144.2	154.6	165.1	171.7
87.5°	42.0	51.7	61.6	71.5	81.5	91.6	101.9	112.4	122.8	133.2	140.3
90°	22.3	32.7	44.0	55.3	66.6	78.1	89.1	101.0	111.9	123.8	131.6
92.5°	29.8	40.9	56.9	76.5	100.0	134.7	192.1	281.2	376.9	382.9	336.7
95°	45.8	54.4	69.1	86.3	113.0	160.6	262.7	461.9	709.3	859.5	849.7
97.5°	62.9	70.9	82.7	99.2	123.2	159.4	230.1	378.4	636.4	904.6	1040.4
100°	74.9	82.9	92.6	108.3	131.0	164.6	224.0	345.3	571.4	862.0	1083.2
102.5°	88.3	95.1	103.7	119.6	140.3	173.0	226.6	329.8	522.0	792.5	1049.8
105°	109.2	114.0	123.0	136.4	155.0	185.9	232.6	318.1	470.5	697.0	949.6
107.5°	129.6	135.3	143.5	154.6	173.0	201.0	246.2	320.3	445.9	630.2	848.9
110°	144.3	149.6	156.6	168.0	184.4	212.8	256.3	324.0	436.4	597.7	790.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	160.1	164.7	170.4	181.0	196.7	223.9	265.9	329.8	432.3	576.9	746.3
115°	181.7	185.5	190.1	200.0	215.0	241.3	280.9	338.5	428.8	552.6	696.4
117.5°	201.0	204.9	209.1	218.2	234.1	259.2	296.7	349.4	428.4	537.4	663.7
120°	214.7	218.2	222.5	231.2	246.7	272.0	308.9	357.1	430.2	529.0	644.9
122.5°	228.1	230.4	233.6	241.7	258.1	283.1	319.9	365.7	430.8	521.2	628.0
125°	246.1	247.5	251.4	258.9	274.9	300.1	334.4	377.4	433.2	510.5	604.7
127.5°	259.0	261.2	266.5	276.0	293.0	317.6	349.9	388.8	437.2	502.2	582.6
130°	267.9	270.2	276.7	287.7	305.4	329.7	360.5	397.4	440.1	497.7	568.9
132.5°	273.7	276.9	285.1	297.6	316.2	340.2	370.1	403.9	443.1	493.4	556.3
135°	284.6	287.7	297.7	311.3	329.0	353.1	381.8	412.2	446.2	486.9	539.8
137.5°	298.4	300.7	310.1	323.6	341.1	365.4	390.6	418.9	450.1	483.1	525.8
140°	305.6	308.2	318.5	332.3	348.6	372.0	397.2	423.3	451.1	480.6	518.2
142.5°	315.2	316.8	326.3	339.8	355.2	376.9	400.5	425.0	451.2	479.1	512.2
145°	329.7	331.1	339.4	351.1	366.3	385.9	408.3	429.7	453.0	477.9	505.1
147.5°	343.5	344.5	351.9	363.1	376.4	393.8	413.5	432.8	453.8	475.6	498.9
150°	352.4	354.1	360.2	371.3	383.3	398.0	416.9	434.9	453.8	473.6	494.2
152.5°	362.1	363.1	368.4	378.2	389.5	402.8	420.3	436.3	453.1	470.9	489.4
155°	374.7	374.7	379.9	388.5	397.1	409.1	423.7	437.5	451.3	465.9	481.3
157.5°	386.1	385.9	390.0	397.4	405.0	414.1	426.6	438.3	449.0	460.7	473.7
160°	393.6	392.8	396.2	402.3	409.1	416.9	428.0	438.3	446.9	457.3	467.6
162.5°	399.8	399.0	402.4	407.8	413.3	419.7	429.4	437.6	444.9	453.1	462.1
165°	409.1	407.4	410.0	414.3	417.8	422.9	429.7	436.6	441.8	446.9	453.8
167.5°	415.3	414.5	416.0	418.4	420.9	424.0	429.7	434.5	437.0	440.9	445.7
170°	419.5	418.6	419.5	421.2	422.9	425.4	429.7	433.2	434.9	437.5	440.9
172.5°	422.2	420.7	421.5	423.2	424.2	425.4	429.0	431.8	432.1	433.3	436.1
175°	425.4	423.7	424.6	425.4	425.4	425.4	428.0	429.7	428.9	428.9	429.7
177.5°	427.0	425.6	425.6	426.3	425.6	425.6	427.0	427.7	426.3	426.3	427.0
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1366.1	1367.8	1369.5	1370.2	1369.9	1369.8	1369.5	1369.2
5°	1361.9	1364.3	1366.8	1367.8	1367.4	1367.2	1366.8	1366.6
7.5°	1350.6	1352.7	1354.8	1355.6	1355.4	1355.0	1354.8	1354.4
10°	1339.9	1342.0	1344.0	1345.0	1344.6	1344.4	1344.0	1343.8
12.5°	1327.1	1328.7	1330.3	1330.8	1330.0	1329.2	1328.4	1327.7
15°	1303.0	1304.8	1306.6	1306.9	1305.7	1304.5	1303.3	1302.1
17.5°	1272.4	1273.8	1275.1	1275.5	1274.7	1274.0	1273.3	1272.6
20°	1248.9	1249.7	1250.7	1251.1	1251.1	1251.1	1251.1	1251.1
22.5°	1224.7	1225.8	1226.9	1227.1	1226.4	1225.7	1224.9	1224.3
25°	1186.4	1187.6	1188.8	1188.6	1187.1	1185.6	1184.1	1182.7
27.5°	1141.9	1142.7	1143.6	1143.8	1143.1	1142.6	1142.1	1141.6
30°	1111.4	1112.0	1112.6	1112.7	1112.4	1112.1	1111.8	1111.5
32.5°	1082.4	1083.0	1083.6	1083.7	1083.4	1083.1	1082.8	1082.5
35°	1035.4	1036.3	1037.2	1037.7	1037.7	1037.7	1037.7	1037.7
37.5°	986.1	987.3	988.5	989.0	988.9	988.8	988.7	988.5
40°	952.8	954.0	955.2	956.1	956.7	957.3	957.9	958.5
42.5°	922.1	923.6	925.0	925.7	925.9	926.0	926.2	926.3
45°	872.7	874.8	876.8	878.0	878.4	878.7	879.0	879.3
47.5°	821.7	824.8	827.9	829.7	830.3	831.0	831.6	832.3
50°	787.8	791.1	794.4	796.5	797.4	798.3	799.2	800.0
52.5°	754.0	757.5	761.0	763.1	763.7	764.4	765.1	765.7
55°	700.6	703.9	707.1	709.4	710.6	711.8	713.0	714.2
57.5°	647.8	651.6	655.4	657.7	658.6	659.4	660.4	661.2
60°	611.7	616.1	620.6	623.3	624.2	625.1	626.0	626.9
62.5°	575.1	580.0	585.0	588.0	589.1	590.3	591.4	592.5
65°	520.4	524.9	529.3	532.2	533.4	534.6	535.8	536.9
67.5°	464.3	469.8	475.2	478.6	480.2	481.7	483.4	484.9
70°	426.1	431.8	437.5	441.2	443.0	444.8	446.6	448.3
72.5°	390.5	396.7	402.9	406.6	407.9	409.2	410.5	411.8
75°	336.8	342.8	348.7	352.5	354.0	355.4	357.0	358.4
77.5°	282.9	289.5	296.1	300.0	301.2	302.3	303.5	304.7
80°	250.7	257.3	263.9	267.8	268.9	270.1	271.3	272.5
82.5°	220.2	226.5	232.8	237.0	239.2	241.3	243.5	245.6
85°	178.2	184.8	191.4	195.9	198.2	200.6	203.0	205.3
87.5°	147.3	154.3	161.4	166.2	168.2	170.4	172.6	174.7
90°	139.3	147.0	154.7	160.9	163.0	165.1	168.1	170.1
92.5°	271.3	236.2	215.5	207.1	198.2	198.2	199.1	199.8
95°	729.1	605.0	505.8	438.0	379.1	355.3	350.6	338.9
97.5°	1024.2	938.8	842.1	745.9	694.7	648.7	625.8	616.8
100°	1155.6	1119.8	1037.5	952.2	894.7	834.6	804.5	792.6
102.5°	1197.0	1228.9	1192.5	1135.9	1074.3	1032.0	999.3	990.8
105°	1161.8	1285.6	1329.4	1324.0	1298.6	1272.3	1257.1	1249.0
107.5°	1058.3	1221.4	1324.4	1373.1	1389.0	1390.6	1386.8	1381.7
110°	982.1	1151.1	1277.9	1354.9	1395.6	1414.0	1422.1	1424.3



TEST NUMBER: P333327-935

CATALOG NUMBER: S125DIP-S1270D1035U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	920.9	1081.4	1209.4	1299.2	1357.9	1388.0	1405.1	1413.3
115°	843.5	982.1	1105.3	1202.5	1271.4	1314.4	1340.2	1353.2
117.5°	790.7	910.7	1017.2	1106.6	1175.7	1220.4	1246.3	1255.3
120°	761.7	870.0	969.6	1048.6	1114.0	1157.0	1182.1	1190.7
122.5°	738.4	838.8	927.8	1001.9	1060.5	1100.1	1125.1	1133.1
125°	704.8	797.3	876.8	941.8	991.4	1028.2	1048.6	1058.7
127.5°	670.5	756.6	830.9	891.9	937.3	970.1	989.7	995.2
130°	649.5	729.4	800.6	859.3	903.7	933.6	952.3	958.9
132.5°	628.0	703.1	768.1	824.6	868.8	898.5	915.5	922.6
135°	598.7	661.9	720.7	772.4	811.8	841.5	858.5	865.2
137.5°	574.2	625.7	674.9	718.9	754.0	780.9	796.4	803.2
140°	560.2	603.9	646.7	685.0	718.0	741.6	755.6	761.1
142.5°	548.1	585.1	622.0	655.3	683.5	703.6	717.0	721.8
145°	533.3	561.5	589.6	614.2	635.9	651.8	662.4	667.0
147.5°	520.3	542.4	563.4	581.3	598.2	610.4	616.5	618.6
150°	513.2	532.0	548.4	564.0	577.2	587.8	591.5	592.7
152.5°	506.3	523.1	538.0	550.1	561.0	569.3	572.8	573.8
155°	495.9	509.7	521.8	531.2	539.8	545.8	548.4	549.2
157.5°	485.6	497.0	506.3	513.7	520.4	525.3	527.7	527.5
160°	478.7	487.3	495.9	502.0	508.0	512.3	514.0	513.2
162.5°	471.2	479.1	486.3	491.6	496.3	499.9	500.2	500.1
165°	460.7	466.7	471.9	476.1	479.6	481.3	481.3	481.3
167.5°	450.7	454.7	458.7	461.8	463.5	465.0	464.3	464.2
170°	445.2	447.8	450.4	452.1	453.8	454.7	454.7	453.8
172.5°	439.0	441.6	443.5	444.5	444.9	446.4	445.1	444.2
175°	432.3	432.3	434.0	434.0	434.0	434.9	433.2	432.3
177.5°	427.7	428.3	428.3	428.3	427.7	428.3	426.3	426.3
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3

(END OF REPORT)