

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: P333299-935

Luminaire Tested: **S125DIP-S1270D365U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333299-935
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: S125DIP-S1270D365U935-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5333.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

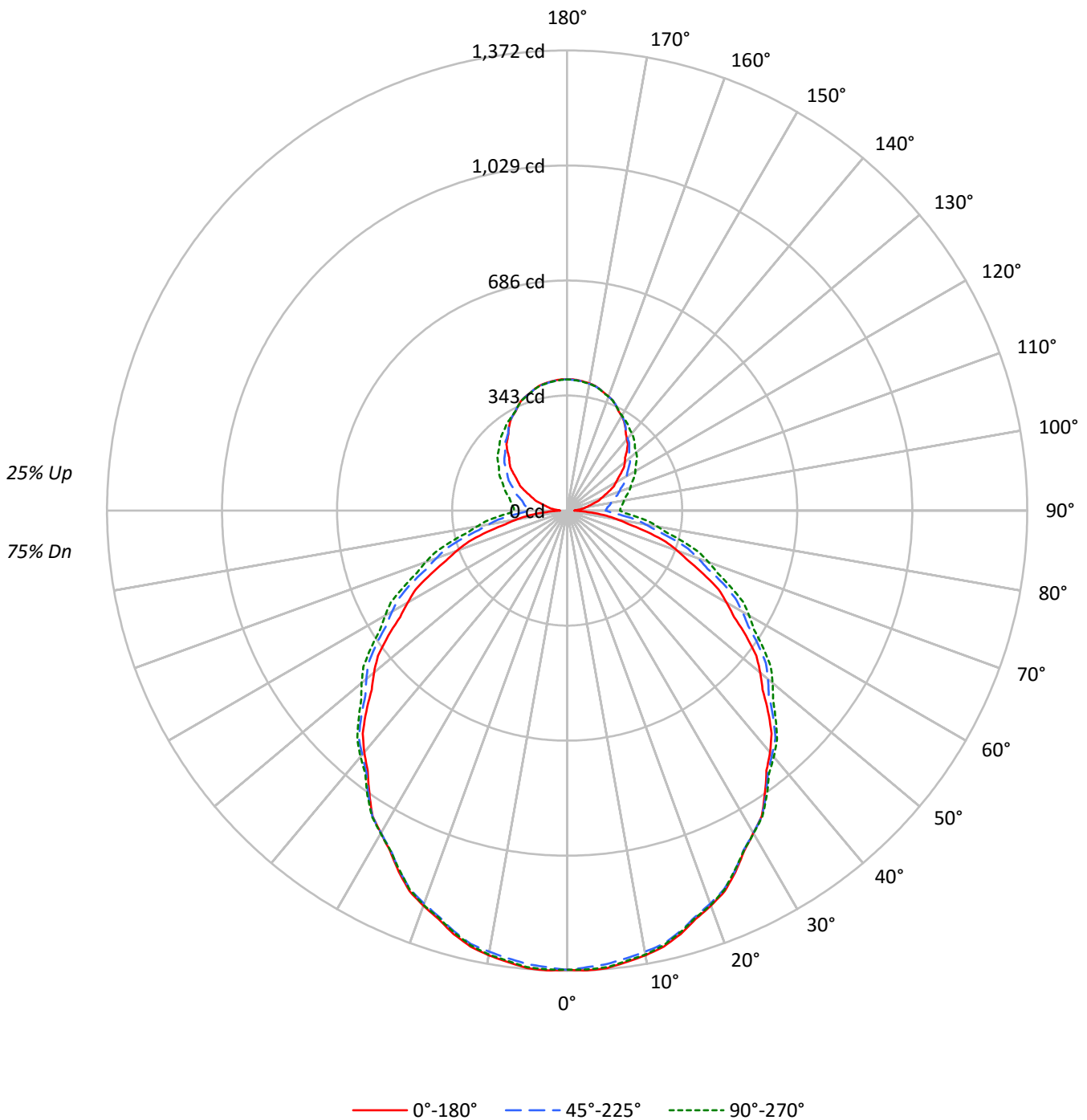
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	102	97	93	89	97	92	89	85	84	81	78	75	73	71	68	66	64	61
2	93	84	77	72	88	80	74	69	73	68	63	66	62	58	59	56	53	50
3	84	74	66	59	80	70	63	57	64	58	53	58	53	49	52	48	45	42
4	77	65	57	50	73	62	54	48	57	50	45	51	46	42	46	42	38	36
5	71	58	49	43	67	56	47	41	51	44	39	46	40	36	42	37	33	31
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	38	33	29	27
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26	24
8	56	43	35	29	53	41	33	28	38	31	27	35	29	25	32	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19
10	49	36	28	23	47	35	28	23	32	26	22	30	24	20	27	22	19	17

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	2.4
10°-20°	367.5	6.9
20°-30°	546.6	10.2
30°-40°	647.5	12.1
40°-50°	669.4	12.6
50°-60°	616.7	11.6
60°-70°	498.5	9.3
70°-80°	333.8	6.3
80°-90°	174.0	3.3
90°-100°	123.3	2.3
100°-110°	149.0	2.8
110°-120°	179.0	3.4
120°-130°	199.7	3.7
130°-140°	205.1	3.8
140°-150°	191.8	3.6
150°-160°	159.0	3.0
160°-170°	105.7	2.0
170°-180°	37.0	0.7
0°-30°	1043.6	19.6
0°-40°	1691.1	31.7
0°-60°	2977.2	55.8
0°-90°	3983.5	74.7
90°-120°	451.3	8.5
90°-150°	1047.8	19.6
90°-180°	1350.0	25.3
0°-180°	5333.0	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	67	115	146	158	15
95°	37	74	121	152	163	35
105°	82	106	146	174	186	87
115°	139	151	185	208	217	138
125°	197	199	224	244	252	176
135°	252	253	262	279	285	194
145°	303	303	304	310	315	189
155°	345	345	345	346	345	159
165°	375	375	375	376	374	106
175°	390	389	389	390	389	37
180°	391	391	391	391	391	



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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°	41.9	51.6	61.2	70.9	80.6	90.5	100.7	111.0	121.2	131.5	138.4
90°	21.8	31.9	41.9	52.0	62.2	72.5	83.1	93.7	104.4	114.9	122.2
92.5°	26.7	35.9	45.1	54.3	63.5	73.6	84.6	95.6	106.5	117.4	124.5
95°	37.2	45.1	53.0	60.9	68.8	78.2	88.9	99.8	110.6	121.4	128.5
97.5°	48.7	55.7	62.8	69.8	76.9	85.8	96.4	107.2	117.9	128.6	135.3
100°	57.3	63.6	69.9	76.2	82.4	90.7	101.2	111.6	122.1	132.5	139.3
102.5°	66.7	72.8	78.9	85.0	91.0	98.9	108.7	118.4	128.2	137.9	144.6
105°	81.5	86.6	91.7	96.8	101.9	109.2	118.5	127.9	137.2	146.5	152.9
107.5°	97.9	102.3	106.7	111.1	115.5	122.1	131.0	139.9	148.8	157.7	163.8
110°	109.2	113.1	117.0	121.0	124.8	131.1	139.7	148.3	156.8	165.3	171.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	121.8	124.9	127.9	131.0	134.1	139.7	148.1	156.4	164.9	173.2	178.7
115°	139.2	141.5	144.0	146.3	148.6	153.8	161.7	169.5	177.5	185.4	190.6
117.5°	156.6	158.1	159.6	161.1	162.6	167.0	174.5	182.0	189.4	196.9	202.1
120°	168.3	169.5	170.7	172.0	173.2	177.3	184.3	191.1	198.1	205.0	210.1
122.5°	179.9	180.5	181.0	181.5	182.0	185.7	192.5	199.3	206.1	212.9	217.7
125°	196.8	196.9	197.0	197.1	197.3	200.3	206.3	212.3	218.3	224.4	229.0
127.5°	213.7	213.6	213.5	213.5	213.4	215.9	220.8	225.8	230.8	235.7	240.1
130°	224.6	224.7	224.7	224.8	224.8	227.0	231.3	235.6	240.0	244.3	248.3
132.5°	234.5	235.1	235.5	236.0	236.5	238.3	241.6	244.8	248.0	251.2	255.3
135°	251.6	251.8	251.8	251.9	252.0	253.1	255.4	257.5	259.7	261.8	265.7
137.5°	267.7	267.8	267.9	268.1	268.3	268.9	270.1	271.2	272.4	273.5	277.2
140°	277.1	277.4	277.8	278.1	278.4	278.8	279.3	279.8	280.3	280.9	284.2
142.5°	287.5	287.6	287.6	287.7	287.7	287.9	288.2	288.5	288.9	289.1	292.1
145°	302.9	302.9	302.9	302.8	302.8	302.9	303.1	303.3	303.5	303.7	305.2
147.5°	315.8	316.0	316.1	316.2	316.4	316.6	316.8	316.9	317.0	317.2	317.9
150°	325.3	325.3	325.2	325.1	325.0	325.1	325.4	325.7	326.0	326.2	326.2
152.5°	333.1	333.2	333.3	333.4	333.5	333.6	333.7	333.8	333.9	334.0	334.2
155°	345.1	345.1	345.1	345.1	345.1	345.1	345.2	345.3	345.3	345.4	345.7
157.5°	355.8	355.7	355.5	355.3	355.2	355.2	355.2	355.3	355.3	355.4	355.7
160°	362.1	362.0	361.7	361.5	361.4	361.3	361.4	361.4	361.4	361.5	361.8
162.5°	367.7	367.6	367.5	367.3	367.1	367.0	367.0	367.1	367.1	367.1	367.5
165°	375.2	375.1	375.0	374.8	374.7	374.6	374.7	374.8	374.9	374.9	375.2
167.5°	381.5	381.3	381.0	380.7	380.5	380.3	380.3	380.3	380.3	380.3	380.7
170°	385.0	384.7	384.4	384.2	383.8	383.7	383.7	383.7	383.7	383.7	384.2
172.5°	387.4	387.1	386.8	386.6	386.3	386.2	386.2	386.2	386.2	386.2	386.6
175°	390.1	389.9	389.6	389.3	389.1	388.9	388.9	388.9	388.9	388.9	389.3
177.5°	391.5	391.3	391.1	390.9	390.6	390.5	390.5	390.5	390.4	390.3	390.6
180°	391.1	391.1	391.1	391.1	391.1	391.1	391.1	391.1	391.1	391.1	391.1



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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°	145.3	152.2	159.2	163.7	165.8	168.0	170.0	172.2
90°	129.3	136.6	143.7	148.5	150.8	153.1	155.3	157.6
92.5°	131.6	138.7	145.8	150.4	152.7	154.9	157.1	159.4
95°	135.5	142.5	149.6	154.2	156.4	158.7	160.8	163.1
97.5°	142.0	148.7	155.4	159.9	162.0	164.1	166.2	168.3
100°	146.2	153.1	160.0	164.4	166.3	168.2	170.1	172.0
102.5°	151.3	158.0	164.7	169.0	171.0	173.0	175.0	176.9
105°	159.3	165.7	172.0	176.4	178.7	181.0	183.2	185.5
107.5°	170.0	176.1	182.2	186.1	188.0	189.8	191.7	193.5
110°	177.1	183.0	188.8	192.8	194.8	196.8	198.8	200.9



TEST NUMBER: P333299-935

CATALOG NUMBER: S125DIP-S1270D365U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	184.3	189.8	195.3	199.1	201.0	203.0	204.9	206.9
115°	196.0	201.2	206.6	210.1	211.8	213.5	215.2	217.0
117.5°	207.2	212.3	217.4	220.8	222.7	224.4	226.1	227.9
120°	215.2	220.2	225.3	228.6	230.1	231.6	233.2	234.7
122.5°	222.5	227.2	232.0	235.2	236.8	238.3	240.0	241.5
125°	233.7	238.3	243.0	246.0	247.5	248.8	250.3	251.7
127.5°	244.4	248.8	253.1	256.1	257.7	259.3	260.9	262.5
130°	252.4	256.6	260.7	263.4	264.8	266.1	267.5	268.8
132.5°	259.3	263.5	267.6	270.2	271.2	272.2	273.4	274.4
135°	269.6	273.5	277.3	279.8	281.1	282.3	283.5	284.7
137.5°	280.8	284.4	288.0	290.2	291.1	292.0	292.7	293.6
140°	287.7	291.1	294.5	296.6	297.5	298.3	299.2	300.1
142.5°	294.9	297.8	300.7	302.6	303.4	304.3	305.1	306.0
145°	306.7	308.2	309.7	310.9	311.9	312.9	313.9	314.9
147.5°	318.5	319.2	319.8	320.1	320.2	320.3	320.4	320.5
150°	326.2	326.2	326.2	326.3	326.5	326.7	326.8	326.9
152.5°	334.3	334.5	334.7	334.7	334.5	334.3	334.1	333.9
155°	345.9	346.2	346.5	346.5	346.1	345.8	345.4	345.1
157.5°	355.9	356.3	356.5	356.5	356.0	355.5	355.1	354.6
160°	362.1	362.3	362.6	362.6	362.2	361.9	361.5	361.2
162.5°	367.7	368.1	368.4	368.4	368.0	367.6	367.2	366.8
165°	375.5	375.7	376.0	375.9	375.5	375.1	374.7	374.3
167.5°	381.2	381.5	381.9	381.9	381.5	381.1	380.6	380.3
170°	384.5	385.0	385.4	385.3	384.9	384.4	383.9	383.4
172.5°	387.0	387.4	387.8	387.8	387.4	386.9	386.5	386.1
175°	389.7	390.1	390.5	390.5	390.0	389.5	389.1	388.6
177.5°	391.0	391.3	391.6	391.6	391.2	390.8	390.5	390.0
180°	391.1	391.1	391.1	391.1	391.1	391.1	391.1	391.1

(END OF REPORT)