

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: P333298-930

Luminaire Tested: **S125DIP-S1270D365U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333298-930
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-S1270D365U930-4F0-1E-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: 5210.6 lumens
Efficiency: N/A
Efficacy: 104.6 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

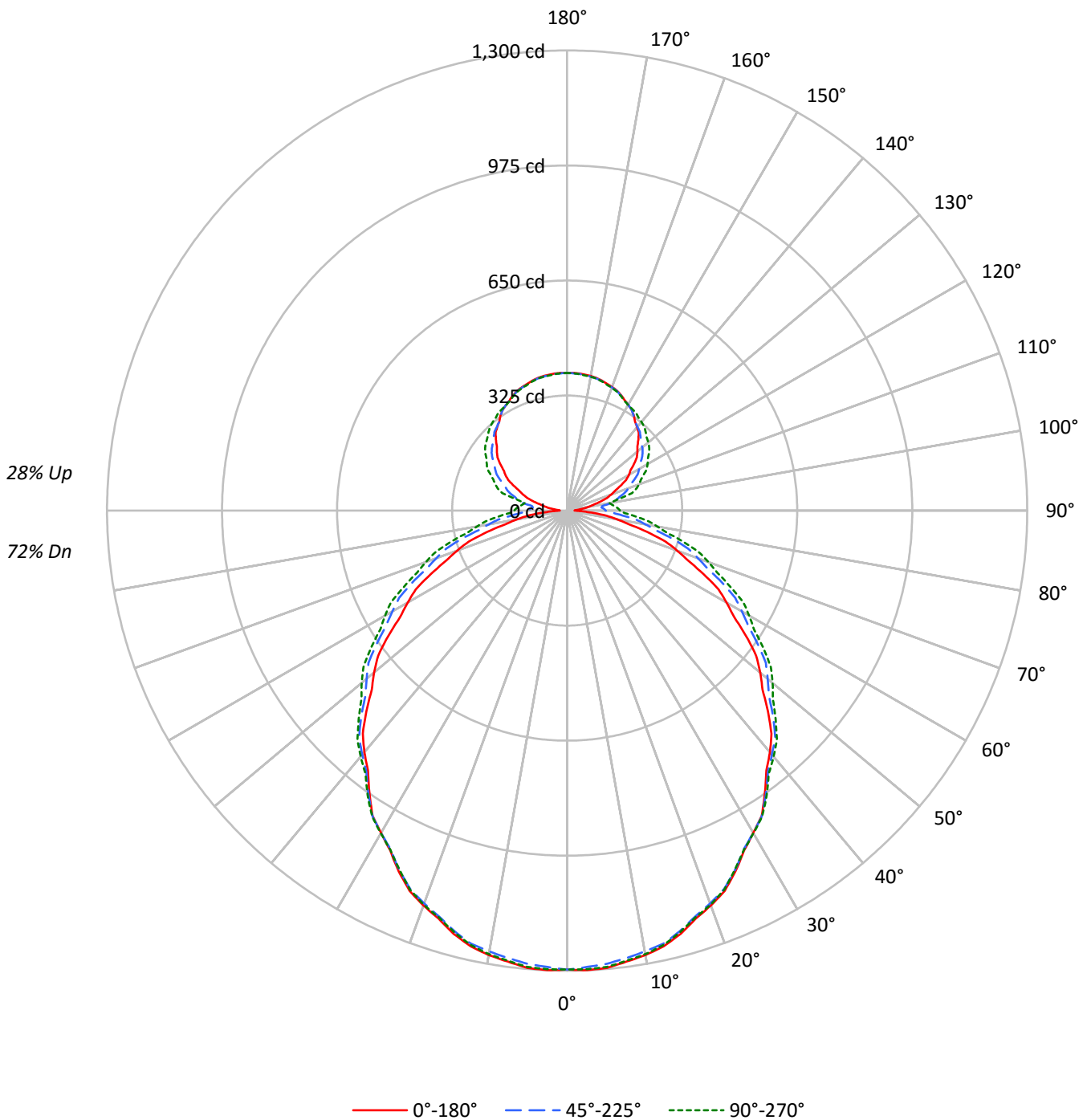
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	102	97	92	88	96	92	88	84	83	79	77	74	72	69	66	64	63	59
2	92	84	77	71	87	80	74	68	72	67	63	64	61	57	58	55	52	48
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	40
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	41	36	33	30
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	29	26
7	60	47	38	32	57	45	37	31	41	34	29	37	31	27	34	29	25	23
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23	20
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20	18
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8374	8374	8374
5°	8391	8220	8245
10°	8331	8072	8060
15°	8232	7896	7825
20°	8098	7680	7590
25°	7939	7447	7300
30°	7746	7191	7036
35°	7566	6956	6795
40°	7383	6709	6552
45°	7176	6497	6337
50°	6978	6267	6147
55°	6741	6051	5923
60°	6482	5802	5695
65°	6210	5544	5437
70°	5903	5190	5173
75°	5415	4849	4849
80°	4780	4438	4496
85°	4189	4162	4384



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.4
10°-20°	348.0	6.7
20°-30°	517.6	9.9
30°-40°	613.1	11.8
40°-50°	633.9	12.2
50°-60°	583.9	11.2
60°-70°	472.0	9.1
70°-80°	316.1	6.1
80°-90°	164.8	3.2
90°-100°	106.1	2.0
100°-110°	154.9	3.0
110°-120°	203.4	3.9
120°-130°	228.5	4.4
130°-140°	229.3	4.4
140°-150°	206.9	4.0
150°-160°	165.5	3.2
160°-170°	107.0	2.1
170°-180°	36.9	0.7
0°-30°	988.2	19.0
0°-40°	1601.3	30.7
0°-60°	2819.2	54.1
0°-90°	3772.1	72.4
90°-120°	464.4	8.9
90°-150°	1129.0	21.7
90°-180°	1439.0	27.6
0°-180°	5210.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1297	1294	1285	1295	1294	123
15°	1238	1239	1230	1237	1233	349
25°	1125	1128	1121	1126	1120	518
35°	974	982	979	982	983	609
45°	802	816	822	831	833	619
55°	616	637	657	671	676	551
65°	424	454	484	503	508	421
75°	234	267	308	332	339	248
85°	70	112	156	183	194	74
90°	21	64	109	138	149	14
95°	33	65	97	126	136	34
105°	96	119	156	180	190	102
115°	167	178	210	231	238	165
125°	231	233	258	276	282	206
135°	285	286	293	309	314	219
145°	328	328	328	334	338	205
155°	360	359	359	360	358	166
165°	380	379	379	380	378	107
175°	389	387	387	389	387	37
180°	389	389	389	389	389	



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1299.6	1299.2	1298.7	1298.3	1297.8	1296.8	1295.2	1293.6	1292.1	1290.5	1292.1
5°	1296.6	1296.0	1295.4	1294.9	1294.3	1293.1	1291.0	1289.1	1287.1	1285.2	1287.4
7.5°	1285.2	1284.9	1284.7	1284.4	1284.3	1283.1	1281.1	1279.0	1277.0	1275.0	1276.9
10°	1275.0	1275.0	1275.0	1275.0	1275.0	1273.8	1271.5	1269.3	1267.1	1264.8	1266.7
12.5°	1260.7	1260.9	1261.2	1261.4	1261.6	1260.9	1259.1	1257.2	1255.4	1253.6	1255.2
15°	1238.1	1238.4	1238.7	1238.9	1239.3	1238.4	1236.4	1234.4	1232.5	1230.4	1232.2
17.5°	1208.6	1209.2	1209.7	1210.3	1210.9	1210.1	1208.2	1206.2	1204.2	1202.2	1203.5
20°	1187.2	1187.8	1188.4	1189.0	1189.5	1188.8	1186.8	1184.9	1182.8	1180.9	1181.8
22.5°	1162.9	1163.8	1164.9	1165.9	1166.9	1166.3	1164.1	1161.9	1159.7	1157.5	1158.5
25°	1124.9	1125.8	1126.7	1127.5	1128.4	1128.0	1126.3	1124.5	1122.8	1121.1	1122.3
27.5°	1082.8	1084.0	1085.2	1086.5	1087.8	1087.4	1085.5	1083.5	1081.7	1079.7	1080.5
30°	1051.2	1053.0	1054.6	1056.3	1058.0	1058.0	1056.3	1054.6	1053.0	1051.2	1051.8
32.5°	1022.8	1024.3	1025.7	1027.2	1028.7	1028.7	1027.5	1026.3	1025.0	1023.8	1024.3
35°	973.7	975.7	977.6	979.7	981.6	982.2	981.3	980.5	979.7	978.8	979.7
37.5°	924.6	926.4	928.2	930.1	931.9	932.6	932.4	932.1	931.8	931.5	932.6
40°	891.0	893.3	895.6	897.9	900.1	901.1	900.8	900.5	900.3	900.0	901.1
42.5°	854.4	857.4	860.3	863.2	866.3	868.0	868.6	869.3	869.8	870.5	871.8
45°	802.1	805.2	808.3	811.4	814.5	816.8	818.2	819.6	821.0	822.4	824.4
47.5°	748.4	751.3	754.2	757.1	759.9	762.6	765.1	767.5	769.9	772.3	775.3
50°	711.8	714.9	718.0	721.1	724.3	727.4	730.5	733.6	736.7	739.8	742.9
52.5°	673.2	677.0	680.8	684.5	688.4	692.1	695.9	699.7	703.4	707.3	710.6
55°	616.5	621.0	625.6	630.1	634.5	639.1	643.6	648.2	652.6	657.2	660.3
57.5°	558.6	563.9	569.4	574.8	580.2	585.5	590.8	595.9	601.1	606.3	609.9
60°	519.9	525.5	531.2	536.9	542.5	548.1	553.8	559.5	565.1	570.7	574.9
62.5°	482.2	488.0	493.6	499.2	504.8	510.8	516.8	522.9	529.0	535.2	539.8
65°	424.5	431.0	437.6	444.1	450.5	457.2	464.0	470.8	477.5	484.3	488.5
67.5°	370.1	376.4	382.7	389.0	395.3	401.9	408.7	415.6	422.5	429.4	434.6
70°	330.5	337.0	343.5	350.0	356.4	363.4	370.7	378.1	385.5	392.8	398.2
72.5°	291.9	298.6	305.3	312.0	318.8	326.1	334.1	342.2	350.2	358.2	364.0
75°	233.9	241.2	248.6	255.9	263.3	271.5	280.5	289.5	298.6	307.6	313.2
77.5°	178.2	186.7	195.2	203.7	212.1	220.7	229.4	238.1	246.8	255.5	261.7
80°	143.7	152.1	160.6	169.1	177.6	186.5	196.2	205.8	215.4	225.0	231.2
82.5°	112.1	121.1	130.0	138.9	147.8	157.2	167.1	176.8	186.7	196.5	202.5
85°	70.0	79.2	88.5	97.9	107.2	116.8	126.7	136.6	146.4	156.4	162.6
87.5°	39.7	48.8	58.0	67.2	76.3	85.7	95.4	105.1	114.8	124.5	131.0
90°	20.6	30.2	39.7	49.2	58.9	68.6	78.7	88.7	98.8	108.8	115.7
92.5°	22.7	30.7	38.7	46.7	54.8	63.8	74.1	84.3	94.6	104.8	111.4
95°	32.9	40.1	47.3	54.4	61.6	68.7	75.9	83.1	90.3	97.4	104.0
97.5°	49.3	56.3	63.2	70.2	77.1	82.8	87.2	91.7	96.2	100.6	104.8
100°	62.1	68.2	74.4	80.5	86.6	94.3	103.6	112.9	122.2	131.5	127.9
102.5°	75.2	80.9	86.6	92.3	98.1	105.4	114.4	123.4	132.3	141.3	145.2
105°	96.2	100.9	105.7	110.5	115.3	121.9	130.4	138.8	147.3	155.8	161.4
107.5°	118.1	121.9	125.7	129.6	133.4	139.5	147.7	156.0	164.3	172.5	178.1
110°	132.2	135.7	139.0	142.4	145.8	151.5	159.6	167.6	175.6	183.7	188.8



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.5	149.4	152.3	155.2	158.0	163.3	171.0	178.8	186.6	194.4	199.3
115°	166.7	169.0	171.3	173.6	175.9	180.8	188.2	195.6	203.0	210.3	215.2
117.5°	187.6	188.9	190.2	191.5	192.7	197.0	204.2	211.4	218.6	225.8	230.2
120°	201.5	202.3	203.0	203.8	204.6	208.3	215.0	221.7	228.4	235.1	239.8
122.5°	212.6	213.3	213.9	214.6	215.2	218.7	225.1	231.5	237.8	244.2	248.6
125°	231.3	231.5	231.6	231.8	232.0	234.9	240.5	246.2	251.8	257.5	261.7
127.5°	248.1	248.1	248.2	248.2	248.3	250.5	255.2	259.8	264.3	269.0	273.0
130°	259.2	259.2	259.3	259.3	259.3	261.3	265.4	269.4	273.4	277.4	281.2
132.5°	269.2	269.5	269.9	270.1	270.4	272.1	275.0	277.9	280.8	283.7	287.6
135°	284.7	284.8	284.9	285.0	285.1	286.1	287.9	289.8	291.6	293.4	297.0
137.5°	298.9	299.0	299.1	299.2	299.3	299.8	300.7	301.5	302.3	303.2	306.6
140°	307.4	307.4	307.6	307.7	307.9	308.0	308.3	308.4	308.7	308.9	312.1
142.5°	315.8	315.7	315.6	315.4	315.3	315.3	315.4	315.5	315.7	315.8	318.5
145°	328.4	328.2	328.1	327.9	327.8	327.7	327.7	327.7	327.7	327.7	329.1
147.5°	338.0	338.0	338.0	337.9	337.9	337.9	338.0	338.1	338.2	338.3	338.8
150°	345.0	344.9	344.7	344.5	344.5	344.5	344.5	344.7	344.9	345.0	345.1
152.5°	351.6	351.4	351.1	350.8	350.5	350.4	350.6	350.7	350.8	351.0	351.1
155°	360.3	359.9	359.5	359.1	358.7	358.6	358.7	358.8	359.0	359.1	359.3
157.5°	366.9	366.6	366.4	366.2	366.0	365.8	365.8	365.9	365.9	365.9	366.1
160°	371.5	371.1	370.7	370.3	370.0	369.8	369.8	369.9	370.0	370.1	370.3
162.5°	375.2	374.8	374.4	374.0	373.7	373.5	373.6	373.6	373.7	373.7	374.1
165°	380.1	379.8	379.4	379.0	378.6	378.5	378.5	378.5	378.6	378.7	379.0
167.5°	383.8	383.4	383.0	382.6	382.2	382.0	382.1	382.2	382.3	382.3	382.8
170°	385.9	385.5	385.0	384.6	384.1	383.9	384.0	384.0	384.1	384.2	384.7
172.5°	387.3	386.9	386.4	386.0	385.5	385.3	385.4	385.6	385.6	385.8	386.2
175°	388.7	388.4	388.0	387.6	387.3	387.1	387.1	387.2	387.3	387.3	387.8
177.5°	389.5	389.1	388.8	388.6	388.2	388.1	388.2	388.2	388.2	388.3	388.7
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1293.6	1295.2	1296.8	1297.5	1297.2	1297.1	1296.8	1296.6
5°	1289.6	1291.9	1294.2	1295.2	1294.9	1294.6	1294.3	1294.0
7.5°	1278.9	1280.9	1282.9	1283.7	1283.4	1283.1	1282.9	1282.5
10°	1268.8	1270.7	1272.7	1273.6	1273.3	1273.0	1272.7	1272.4
12.5°	1256.6	1258.2	1259.7	1260.1	1259.4	1258.7	1257.9	1257.2
15°	1233.9	1235.6	1237.2	1237.5	1236.4	1235.3	1234.1	1233.0
17.5°	1204.8	1206.2	1207.5	1207.8	1207.1	1206.4	1205.7	1205.0
20°	1182.6	1183.4	1184.3	1184.7	1184.7	1184.7	1184.7	1184.7
22.5°	1159.7	1160.7	1161.8	1162.0	1161.3	1160.7	1159.9	1159.3
25°	1123.4	1124.5	1125.7	1125.5	1124.1	1122.7	1121.3	1119.9
27.5°	1081.3	1082.1	1082.9	1083.0	1082.5	1082.0	1081.5	1081.0
30°	1052.4	1053.0	1053.5	1053.6	1053.4	1053.0	1052.8	1052.5
32.5°	1024.9	1025.5	1026.1	1026.2	1025.9	1025.6	1025.3	1025.1
35°	980.5	981.3	982.2	982.6	982.6	982.6	982.6	982.6
37.5°	933.8	934.9	936.0	936.5	936.4	936.3	936.2	936.0
40°	902.2	903.4	904.5	905.3	905.9	906.4	907.0	907.6
42.5°	873.2	874.6	875.9	876.6	876.8	876.9	877.0	877.1
45°	826.4	828.3	830.3	831.4	831.8	832.0	832.3	832.6
47.5°	778.1	781.0	783.9	785.6	786.3	786.8	787.5	788.1
50°	746.0	749.1	752.3	754.2	755.0	755.9	756.8	757.6
52.5°	714.0	717.3	720.6	722.6	723.2	723.8	724.5	725.0
55°	663.4	666.5	669.6	671.7	672.9	674.0	675.1	676.3
57.5°	613.4	617.0	620.6	622.8	623.6	624.4	625.3	626.1
60°	579.2	583.4	587.7	590.2	591.1	591.9	592.8	593.6
62.5°	544.5	549.2	553.9	556.8	557.8	559.0	560.0	561.1
65°	492.8	497.0	501.2	503.9	505.1	506.2	507.4	508.4
67.5°	439.7	444.8	450.0	453.2	454.7	456.2	457.7	459.2
70°	403.5	408.9	414.3	417.8	419.5	421.2	422.9	424.5
72.5°	369.8	375.7	381.5	385.0	386.3	387.5	388.7	390.0
75°	318.9	324.6	330.2	333.8	335.2	336.6	338.0	339.4
77.5°	267.9	274.1	280.4	284.1	285.2	286.3	287.4	288.5
80°	237.4	243.6	249.9	253.6	254.6	255.8	256.9	258.0
82.5°	208.5	214.5	220.5	224.5	226.5	228.5	230.6	232.6
85°	168.8	175.0	181.2	185.5	187.7	190.0	192.2	194.4
87.5°	137.6	144.1	150.7	155.0	157.0	159.1	161.0	163.1
90°	122.5	129.3	136.1	140.6	142.8	145.0	147.1	149.3
92.5°	118.0	124.6	131.2	135.5	137.5	139.6	141.7	143.7
95°	110.5	117.0	123.5	127.8	129.8	131.8	133.7	135.7
97.5°	108.8	113.0	117.2	120.2	122.1	124.0	125.9	127.8
100°	124.3	120.7	117.1	115.9	117.4	118.9	120.3	121.7
102.5°	149.0	153.0	156.9	157.5	154.8	152.1	149.5	146.8
105°	167.1	172.8	178.4	182.1	184.1	186.0	187.9	189.8
107.5°	183.8	189.3	194.9	198.5	200.1	201.6	203.2	204.7
110°	194.0	199.2	204.4	208.0	210.0	212.1	214.1	216.1



TEST NUMBER: P333298-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	204.2	209.0	213.9	217.4	219.2	221.1	223.0	224.9
115°	220.0	224.9	229.7	232.8	234.1	235.4	236.7	238.0
117.5°	234.7	239.2	243.7	246.8	248.5	250.3	252.0	253.8
120°	244.4	249.1	253.8	256.8	258.2	259.6	260.9	262.3
122.5°	253.1	257.5	262.0	264.8	266.2	267.5	268.8	270.1
125°	266.0	270.3	274.5	277.3	278.5	279.7	281.0	282.2
127.5°	277.0	281.0	285.1	287.7	288.9	290.0	291.2	292.4
130°	284.9	288.7	292.4	294.9	296.0	297.1	298.2	299.2
132.5°	291.6	295.5	299.4	301.7	302.6	303.5	304.4	305.2
135°	300.5	304.1	307.6	309.9	311.0	312.0	313.0	314.1
137.5°	309.9	313.2	316.6	318.7	319.5	320.2	321.1	321.9
140°	315.4	318.6	321.8	323.8	324.6	325.3	326.0	326.8
142.5°	321.2	323.9	326.6	328.3	329.1	329.8	330.5	331.3
145°	330.6	332.1	333.6	334.7	335.4	336.1	337.0	337.7
147.5°	339.3	339.9	340.4	340.7	340.7	340.8	340.8	340.9
150°	345.2	345.4	345.4	345.4	345.2	345.0	344.7	344.5
152.5°	351.2	351.3	351.5	351.3	350.9	350.5	350.1	349.7
155°	359.5	359.6	359.9	359.7	359.2	358.7	358.2	357.7
157.5°	366.3	366.5	366.7	366.6	366.1	365.5	365.0	364.5
160°	370.6	370.8	371.0	371.0	370.4	369.9	369.4	368.9
162.5°	374.5	374.8	375.2	375.0	374.5	373.9	373.4	372.8
165°	379.4	379.8	380.3	380.2	379.7	379.1	378.6	378.1
167.5°	383.3	383.7	384.2	384.1	383.5	382.9	382.4	381.8
170°	385.1	385.7	386.2	386.2	385.6	385.1	384.4	383.8
172.5°	386.7	387.2	387.6	387.6	387.0	386.4	385.8	385.2
175°	388.3	388.9	389.4	389.4	388.7	388.2	387.6	387.0
177.5°	389.1	389.4	389.7	389.7	389.3	388.9	388.5	388.1
180°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7

(END OF REPORT)