

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: P333361-927

Luminaire Tested: **S125DIW-S375D1340U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333361-927
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: S125DIW-S375D1340U927-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4844.2 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

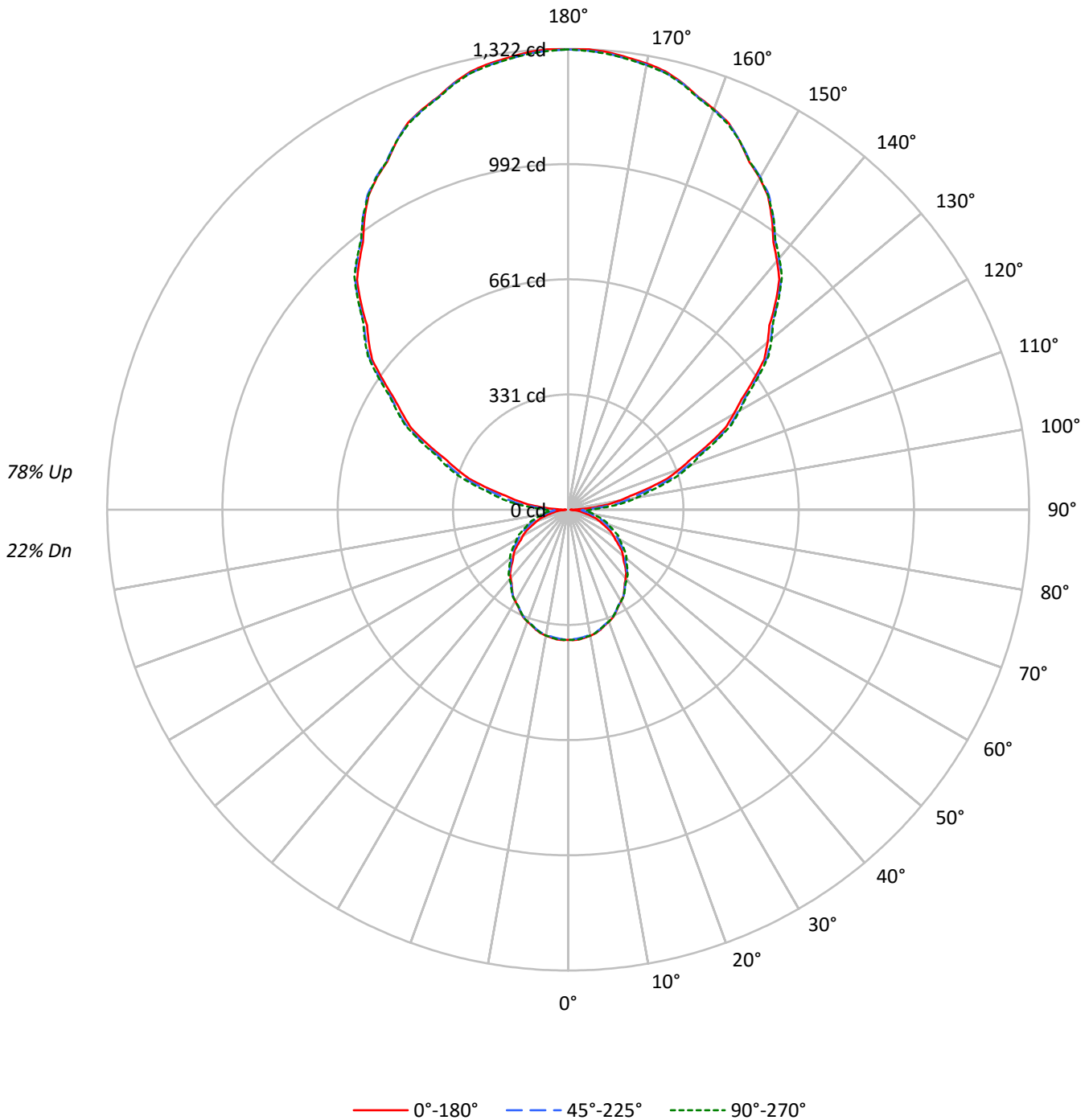
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	22
1	91	87	83	80	81	77	74	71	59	57	55	42	41	40	27	26	25	18
2	83	76	70	65	73	67	62	58	51	48	45	37	35	33	23	22	21	15
3	75	66	59	54	67	59	53	48	45	41	38	32	30	28	20	19	18	13
4	69	58	51	45	61	52	46	41	40	35	32	29	26	23	18	17	15	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	16	15	13	9
6	58	46	39	33	51	41	35	30	32	27	24	23	20	17	15	13	11	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	13	12	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	41	31	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2412	2412	2412
5°	2416	2367	2375
10°	2399	2324	2322
15°	2371	2274	2253
20°	2333	2212	2186
25°	2287	2145	2103
30°	2231	2071	2027
35°	2179	2003	1957
40°	2127	1932	1887
45°	2067	1871	1825
50°	2010	1805	1770
55°	1941	1743	1706
60°	1866	1671	1640
65°	1789	1597	1567
70°	1700	1494	1490
75°	1558	1397	1397
80°	1377	1278	1295
85°	1203	1197	1263



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.7
10°-20°	100.2	2.1
20°-30°	149.1	3.1
30°-40°	176.6	3.6
40°-50°	182.6	3.8
50°-60°	168.2	3.5
60°-70°	135.9	2.8
70°-80°	91.0	1.9
80°-90°	50.1	1.0
90°-100°	114.9	2.4
100°-110°	280.7	5.8
110°-120°	455.5	9.4
120°-130°	589.6	12.2
130°-140°	655.6	13.5
140°-150°	640.0	13.2
150°-160°	537.0	11.1
160°-170°	357.0	7.4
170°-180°	124.9	2.6
0°-30°	284.6	5.9
0°-40°	461.2	9.5
0°-60°	812.0	16.8
0°-90°	1089.1	22.5
90°-120°	851.1	17.6
90°-150°	2736.2	56.5
90°-180°	3755.0	77.5
0°-180°	4844.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	373	370	373	373	35
15°	357	357	354	356	355	100
25°	324	325	323	324	323	149
35°	280	283	282	283	283	175
45°	231	235	237	239	240	178
55°	178	183	189	193	195	159
65°	122	131	140	145	146	121
75°	67	77	89	96	98	71
85°	20	32	45	53	56	21
90°	7	27	46	60	66	8
95°	72	84	106	120	126	75
105°	238	249	266	279	285	254
115°	445	452	463	469	470	440
125°	648	654	662	666	666	580
135°	841	847	851	855	853	648
145°	1019	1022	1026	1027	1026	636
155°	1165	1165	1166	1170	1165	536
165°	1267	1265	1266	1270	1264	357
175°	1317	1314	1313	1319	1312	125
180°	1320	1320	1320	1320	1320	



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	374.3	374.1	374.1	373.9	373.8	373.5	373.0	372.6	372.2	371.7	372.2
5°	373.4	373.3	373.1	373.0	372.8	372.4	371.9	371.3	370.7	370.1	370.8
7.5°	370.1	370.1	370.0	369.9	369.9	369.6	369.0	368.4	367.8	367.2	367.8
10°	367.2	367.2	367.2	367.2	367.2	366.9	366.2	365.6	365.0	364.2	364.9
12.5°	363.1	363.2	363.2	363.3	363.4	363.1	362.7	362.1	361.6	361.1	361.5
15°	356.6	356.6	356.7	356.9	357.0	356.6	356.1	355.5	355.0	354.4	354.9
17.5°	348.1	348.2	348.4	348.6	348.7	348.6	348.0	347.4	346.8	346.3	346.7
20°	342.0	342.1	342.3	342.5	342.6	342.4	341.8	341.3	340.7	340.1	340.4
22.5°	334.9	335.3	335.5	335.8	336.1	335.9	335.3	334.6	334.0	333.4	333.7
25°	324.0	324.2	324.5	324.7	325.0	324.9	324.4	323.9	323.4	322.9	323.2
27.5°	311.9	312.2	312.6	312.9	313.3	313.2	312.7	312.1	311.6	311.0	311.2
30°	302.8	303.2	303.7	304.3	304.8	304.8	304.3	303.7	303.2	302.8	302.9
32.5°	294.6	295.0	295.4	295.9	296.3	296.3	296.0	295.6	295.2	294.9	295.0
35°	280.4	281.0	281.6	282.2	282.7	282.9	282.7	282.4	282.2	281.9	282.2
37.5°	266.3	266.8	267.4	267.8	268.4	268.6	268.5	268.5	268.4	268.3	268.6
40°	256.7	257.3	257.9	258.6	259.3	259.5	259.4	259.4	259.3	259.2	259.5
42.5°	246.1	246.9	247.8	248.7	249.5	250.0	250.2	250.3	250.6	250.7	251.1
45°	231.0	232.0	232.8	233.7	234.6	235.3	235.7	236.1	236.5	236.9	237.4
47.5°	215.6	216.4	217.2	218.1	218.9	219.7	220.4	221.0	221.7	222.4	223.3
50°	205.0	205.9	206.8	207.7	208.6	209.5	210.4	211.3	212.1	213.1	214.0
52.5°	193.9	195.0	196.1	197.2	198.3	199.3	200.4	201.5	202.6	203.7	204.7
55°	177.5	178.9	180.1	181.5	182.8	184.1	185.4	186.6	188.0	189.3	190.2
57.5°	160.9	162.4	164.0	165.6	167.2	168.7	170.2	171.7	173.2	174.6	175.6
60°	149.7	151.4	153.0	154.6	156.2	157.9	159.5	161.1	162.8	164.4	165.6
62.5°	138.9	140.5	142.2	143.8	145.4	147.1	148.9	150.6	152.4	154.2	155.5
65°	122.3	124.1	126.0	127.9	129.8	131.7	133.6	135.6	137.5	139.5	140.7
67.5°	106.6	108.4	110.2	112.0	113.8	115.7	117.7	119.7	121.7	123.7	125.2
70°	95.2	97.0	98.9	100.8	102.7	104.6	106.8	108.9	111.0	113.1	114.7
72.5°	84.1	86.0	87.9	89.8	91.8	94.0	96.3	98.5	100.8	103.1	104.9
75°	67.3	69.5	71.6	73.7	75.8	78.2	80.8	83.4	86.0	88.6	90.2
77.5°	51.3	53.8	56.2	58.6	61.1	63.5	66.1	68.6	71.1	73.6	75.4
80°	41.4	43.8	46.3	48.7	51.1	53.7	56.5	59.3	62.0	64.8	66.6
82.5°	32.3	34.9	37.5	40.0	42.5	45.3	48.1	50.9	53.8	56.6	58.3
85°	20.1	22.8	25.5	28.2	30.9	33.7	36.5	39.4	42.2	45.0	46.8
87.5°	11.6	14.6	17.6	20.5	23.5	26.5	29.6	32.7	35.8	38.9	41.0
90°	6.9	11.3	15.8	20.2	24.6	29.0	33.4	37.7	42.1	46.5	49.5
92.5°	30.1	33.8	37.5	41.2	44.9	49.1	53.9	58.7	63.5	68.3	71.6
95°	71.5	74.1	76.7	79.3	81.8	85.6	90.7	95.8	100.8	105.8	109.2
97.5°	115.3	117.4	119.5	121.5	123.7	127.6	133.4	139.3	145.0	150.9	154.1
100°	147.9	149.6	151.3	153.0	154.7	158.4	163.9	169.5	175.1	180.6	184.4
102.5°	182.9	185.4	187.9	190.4	192.9	196.1	200.3	204.3	208.3	212.4	216.3
105°	237.6	240.0	242.5	244.9	247.4	250.5	254.3	258.1	261.9	265.7	268.7
107.5°	298.0	300.2	302.5	304.8	307.0	309.8	313.1	316.6	320.0	323.4	325.7
110°	339.6	341.7	343.9	345.9	348.1	350.6	353.6	356.6	359.5	362.5	364.7



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	382.4	383.7	385.1	386.5	387.9	390.1	393.2	396.2	399.3	402.4	404.2
115°	445.1	446.6	448.1	449.6	451.0	453.0	455.6	458.2	460.7	463.3	464.5
117.5°	508.0	508.8	509.6	510.4	511.2	512.8	515.2	517.6	520.0	522.4	523.9
120°	547.5	548.9	550.2	551.7	553.0	554.8	556.9	559.0	561.1	563.2	564.5
122.5°	589.9	590.5	591.0	591.5	592.0	593.5	595.9	598.3	600.7	603.1	604.2
125°	647.8	649.1	650.4	651.6	653.0	654.6	656.4	658.2	660.1	661.9	662.8
127.5°	709.1	709.8	710.5	711.2	711.9	713.0	714.6	716.3	717.9	719.5	720.4
130°	746.1	747.2	748.2	749.2	750.4	751.7	753.3	754.9	756.5	758.0	759.0
132.5°	782.8	784.7	786.5	788.4	790.2	791.5	792.3	793.1	793.9	794.7	795.6
135°	841.3	842.6	843.9	845.2	846.4	847.5	848.3	849.1	849.9	850.7	851.8
137.5°	896.3	897.5	898.8	900.1	901.3	902.4	903.2	904.0	904.7	905.5	906.7
140°	931.4	932.5	933.7	934.8	936.0	936.9	937.6	938.4	939.2	939.9	941.3
142.5°	966.7	967.6	968.5	969.4	970.3	971.2	972.1	973.0	973.8	974.7	975.7
145°	1018.7	1019.5	1020.4	1021.2	1022.1	1022.8	1023.5	1024.1	1024.8	1025.6	1026.0
147.5°	1066.4	1066.9	1067.5	1067.9	1068.4	1069.0	1069.5	1070.1	1070.6	1071.2	1071.8
150°	1098.5	1098.3	1098.0	1097.8	1097.6	1097.9	1098.8	1099.8	1100.7	1101.6	1101.6
152.5°	1124.8	1125.1	1125.5	1125.8	1126.1	1126.4	1126.8	1127.1	1127.5	1127.9	1128.5
155°	1165.3	1165.3	1165.3	1165.3	1165.3	1165.4	1165.6	1165.9	1166.1	1166.3	1167.2
157.5°	1201.4	1200.9	1200.5	1199.9	1199.4	1199.3	1199.5	1199.8	1200.0	1200.2	1201.1
160°	1222.8	1222.2	1221.5	1220.8	1220.1	1219.9	1220.1	1220.4	1220.5	1220.8	1221.7
162.5°	1241.7	1241.3	1240.7	1240.2	1239.8	1239.5	1239.5	1239.6	1239.6	1239.7	1240.8
165°	1267.0	1266.5	1266.1	1265.7	1265.2	1265.1	1265.3	1265.5	1265.7	1266.0	1266.9
167.5°	1288.4	1287.5	1286.6	1285.6	1284.8	1284.3	1284.3	1284.3	1284.3	1284.3	1285.6
170°	1299.9	1299.0	1298.1	1297.2	1296.2	1295.8	1295.8	1295.8	1295.8	1295.8	1297.2
172.5°	1308.1	1307.2	1306.3	1305.4	1304.5	1304.0	1304.0	1304.0	1304.0	1304.0	1305.4
175°	1317.4	1316.4	1315.6	1314.6	1313.8	1313.3	1313.3	1313.3	1313.3	1313.3	1314.6
177.5°	1322.1	1321.4	1320.6	1319.9	1319.1	1318.7	1318.5	1318.3	1318.2	1318.0	1319.1
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.6	373.0	373.5	373.7	373.6	373.6	373.5	373.4
5°	371.5	372.1	372.7	373.0	373.0	372.9	372.8	372.7
7.5°	368.4	368.9	369.5	369.7	369.6	369.6	369.5	369.4
10°	365.4	366.0	366.5	366.8	366.7	366.6	366.5	366.5
12.5°	361.9	362.3	362.8	362.9	362.7	362.5	362.3	362.1
15°	355.4	355.8	356.3	356.4	356.1	355.8	355.5	355.1
17.5°	347.1	347.4	347.8	347.8	347.7	347.5	347.3	347.1
20°	340.6	340.9	341.1	341.2	341.2	341.2	341.2	341.2
22.5°	334.0	334.3	334.6	334.7	334.5	334.3	334.1	333.9
25°	323.5	323.9	324.2	324.2	323.8	323.4	323.0	322.6
27.5°	311.4	311.6	311.9	312.0	311.8	311.6	311.5	311.3
30°	303.1	303.2	303.4	303.5	303.4	303.3	303.2	303.2
32.5°	295.2	295.3	295.5	295.6	295.5	295.4	295.3	295.2
35°	282.4	282.7	282.9	283.0	283.0	283.0	283.0	283.0
37.5°	268.9	269.3	269.6	269.7	269.7	269.7	269.7	269.6
40°	259.8	260.2	260.5	260.8	260.9	261.1	261.3	261.4
42.5°	251.5	251.9	252.3	252.5	252.5	252.5	252.5	252.6
45°	238.1	238.6	239.2	239.5	239.6	239.6	239.7	239.8
47.5°	224.1	225.0	225.8	226.2	226.5	226.6	226.8	227.0
50°	214.8	215.8	216.7	217.2	217.5	217.7	217.9	218.2
52.5°	205.7	206.6	207.6	208.1	208.3	208.5	208.7	208.8
55°	191.1	191.9	192.9	193.5	193.8	194.1	194.5	194.8
57.5°	176.7	177.7	178.7	179.4	179.6	179.8	180.1	180.4
60°	166.8	168.0	169.3	170.0	170.2	170.5	170.7	171.0
62.5°	156.9	158.2	159.5	160.3	160.7	161.0	161.3	161.6
65°	142.0	143.1	144.3	145.1	145.4	145.8	146.2	146.5
67.5°	126.7	128.1	129.6	130.6	130.9	131.4	131.8	132.2
70°	116.2	117.8	119.3	120.3	120.8	121.3	121.8	122.3
72.5°	106.5	108.2	109.9	110.9	111.2	111.6	111.9	112.3
75°	91.9	93.5	95.1	96.1	96.6	97.0	97.4	97.8
77.5°	77.2	79.0	80.7	81.8	82.1	82.5	82.8	83.1
80°	68.4	70.2	71.9	73.0	73.4	73.7	74.0	74.3
82.5°	60.0	61.8	63.5	64.6	65.3	65.8	66.4	67.0
85°	48.6	50.4	52.2	53.4	54.0	54.7	55.4	56.0
87.5°	43.1	45.2	47.3	48.6	49.4	50.1	50.8	51.5
90°	52.5	55.5	58.5	60.7	61.9	63.1	64.4	65.7
92.5°	74.9	78.3	81.6	83.7	84.8	85.9	87.0	88.0
95°	112.6	116.1	119.4	121.6	122.6	123.7	124.7	125.7
97.5°	157.3	160.5	163.7	165.7	166.6	167.4	168.3	169.1
100°	188.1	191.9	195.7	198.0	199.0	199.9	200.9	201.8
102.5°	220.1	224.0	227.9	230.4	231.6	232.7	233.8	234.9
105°	271.7	274.7	277.7	279.9	281.1	282.3	283.6	284.9
107.5°	328.0	330.3	332.6	333.9	334.4	334.9	335.3	335.7
110°	366.9	369.2	371.4	372.7	373.0	373.4	373.7	374.1



TEST NUMBER: P333361-927

CATALOG NUMBER: S125DIW-S375D1340U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	406.0	407.8	409.6	410.6	410.7	410.9	411.1	411.2
115°	465.8	467.1	468.3	469.1	469.3	469.5	469.8	470.1
117.5°	525.5	527.1	528.7	529.3	528.9	528.5	528.2	527.8
120°	565.9	567.3	568.7	569.2	568.8	568.3	567.9	567.4
122.5°	605.4	606.5	607.6	608.1	607.8	607.6	607.4	607.1
125°	663.7	664.5	665.4	665.8	666.1	666.2	666.4	666.5
127.5°	721.4	722.4	723.3	723.9	723.9	723.9	723.9	723.9
130°	759.9	760.8	761.7	762.2	762.1	762.0	762.0	761.9
132.5°	796.5	797.4	798.4	798.7	798.4	798.0	797.7	797.5
135°	852.8	853.9	854.9	855.2	854.7	854.2	853.7	853.2
137.5°	907.9	909.2	910.4	910.6	909.8	909.0	908.2	907.4
140°	942.6	944.0	945.4	945.6	944.8	944.0	943.2	942.4
142.5°	976.8	977.8	978.9	979.0	978.2	977.3	976.5	975.7
145°	1026.4	1026.7	1027.1	1027.2	1026.8	1026.4	1026.1	1025.7
147.5°	1072.5	1073.2	1073.9	1073.5	1072.1	1070.7	1069.3	1067.9
150°	1101.6	1101.6	1101.6	1101.4	1101.0	1100.7	1100.3	1099.9
152.5°	1128.9	1129.5	1130.0	1130.0	1129.2	1128.3	1127.5	1126.7
155°	1168.2	1169.0	1170.0	1169.8	1168.7	1167.6	1166.4	1165.3
157.5°	1202.1	1202.9	1203.9	1203.6	1202.1	1200.6	1199.0	1197.5
160°	1222.6	1223.5	1224.4	1224.3	1223.2	1222.0	1220.9	1219.7
162.5°	1241.9	1242.9	1244.0	1244.0	1242.6	1241.3	1240.0	1238.7
165°	1267.8	1268.8	1269.6	1269.4	1268.0	1266.7	1265.3	1263.9
167.5°	1287.1	1288.4	1289.8	1289.8	1288.3	1286.9	1285.5	1284.0
170°	1298.5	1299.9	1301.2	1301.2	1299.6	1298.0	1296.3	1294.7
172.5°	1306.8	1308.1	1309.5	1309.5	1308.1	1306.6	1305.2	1303.8
175°	1316.0	1317.4	1318.7	1318.6	1317.0	1315.4	1313.8	1312.2
177.5°	1320.2	1321.3	1322.4	1322.3	1321.0	1319.7	1318.4	1317.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)