

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: P333360-927

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333360-927
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: S125DIW-S375D1340U927-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5408.5 lumens
Efficiency: N/A
Efficacy: 116.1 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

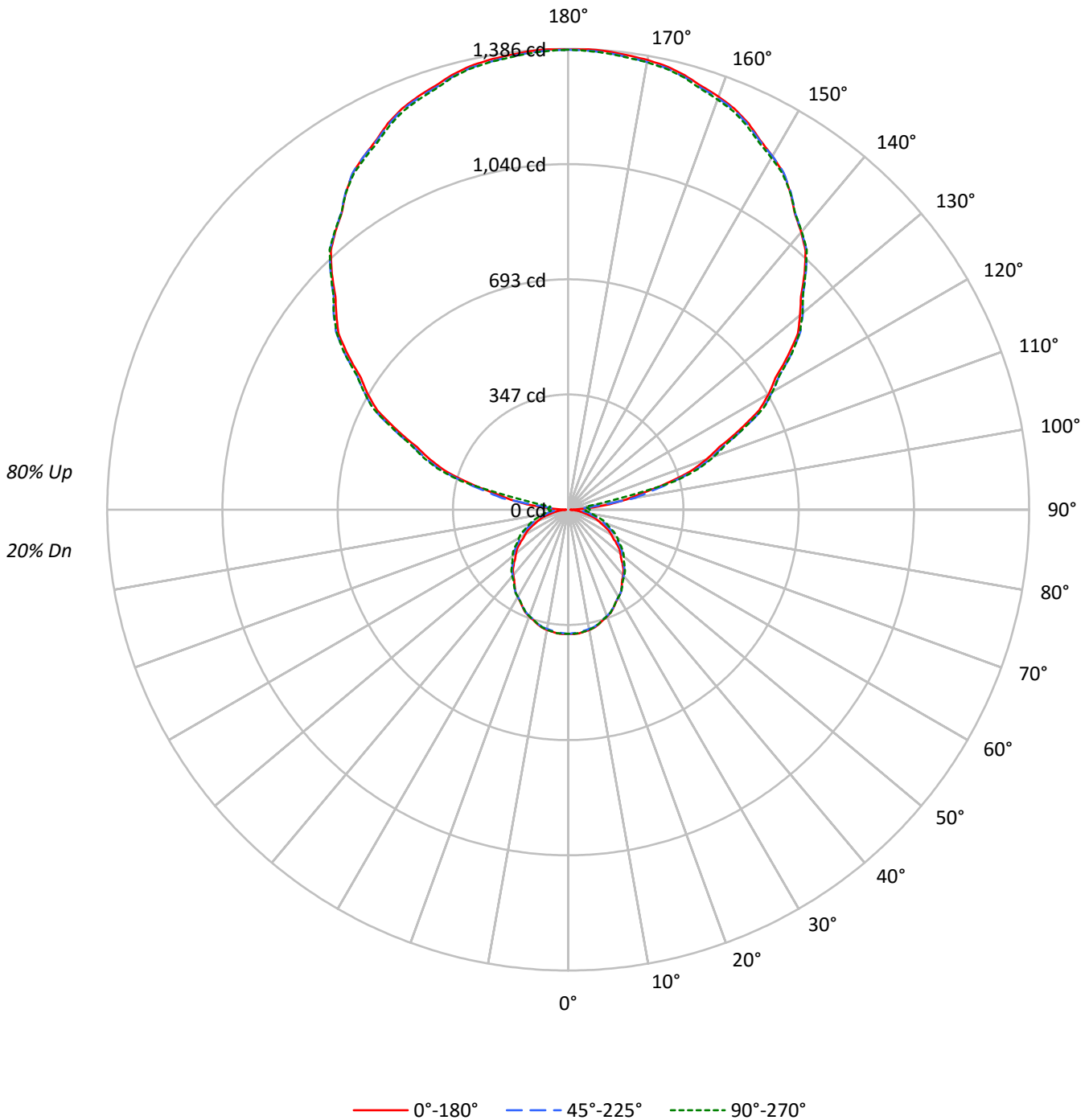
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333360-927

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

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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	79	80	77	73	71	58	56	54	41	39	38	25	24	24	16				
2	82	75	69	64	73	67	62	58	50	47	44	35	33	32	22	21	20	13				
3	75	66	59	53	66	58	53	48	44	40	37	31	29	27	19	18	16	11				
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10				
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8				
6	58	46	38	33	51	41	34	29	31	27	23	22	19	17	14	12	11	7				
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	12	11	9	6				
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8	6				
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	7	5				
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	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: P333360-927

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.7
10°-20°	100.2	1.9
20°-30°	149.1	2.8
30°-40°	176.6	3.3
40°-50°	182.6	3.4
50°-60°	168.2	3.1
60°-70°	135.9	2.5
70°-80°	91.0	1.7
80°-90°	50.1	0.9
90°-100°	76.8	1.4
100°-110°	329.4	6.1
110°-120°	575.1	10.6
120°-130°	728.7	13.5
130°-140°	779.1	14.4
140°-150°	728.9	13.5
150°-160°	589.1	10.9
160°-170°	381.0	7.0
170°-180°	131.4	2.4
0°-30°	284.6	5.3
0°-40°	461.2	8.5
0°-60°	812.0	15.0
0°-90°	1089.1	20.1
90°-120°	981.3	18.1
90°-150°	3218.0	59.5
90°-180°	4319.0	79.9
0°-180°	5408.5	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	6
95°	63	68	43	56	59	78
105°	305	315	326	333	335	323
115°	568	576	587	589	585	563
125°	807	814	821	822	821	720
135°	1005	1010	1011	1014	1010	774
145°	1164	1166	1166	1169	1164	728
155°	1282	1276	1278	1280	1273	590
165°	1353	1347	1348	1353	1346	382
175°	1384	1378	1378	1386	1377	132
180°	1384	1384	1384	1384	1384	



TEST NUMBER: P333360-927

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

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	46.4	49.4
92.5°	21.1	22.2	23.4	24.5	25.6	28.3	32.6	36.8	41.0	45.2	48.2
95°	63.2	64.6	66.1	67.5	68.9	66.7	60.8	54.9	49.0	43.2	46.1
97.5°	126.4	129.5	132.6	135.8	138.9	133.2	118.7	104.3	89.8	75.3	70.7
100°	175.3	177.7	180.1	182.5	184.9	187.8	191.4	194.9	198.4	201.9	169.7
102.5°	225.1	227.5	230.0	232.4	234.9	237.7	240.7	243.8	246.8	249.9	245.2
105°	304.8	307.0	309.3	311.5	313.7	316.0	318.5	320.9	323.4	325.8	327.4
107.5°	387.7	388.8	389.9	391.0	392.1	394.0	396.9	399.7	402.4	405.3	406.9
110°	441.6	442.5	443.5	444.5	445.4	447.3	450.0	452.8	455.5	458.3	459.1



TEST NUMBER: P333360-927

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	492.4	493.8	495.1	496.4	497.7	499.6	502.2	504.6	507.1	509.6	510.2
115°	568.4	570.1	571.8	573.5	575.2	577.3	579.6	581.9	584.2	586.6	587.2
117.5°	647.0	647.3	647.6	648.0	648.3	649.9	652.8	655.6	658.5	661.4	661.6
120°	696.2	696.2	696.2	696.2	696.2	697.6	700.1	702.7	705.2	707.8	708.7
122.5°	739.4	740.4	741.4	742.4	743.3	744.9	747.0	749.2	751.2	753.4	754.2
125°	806.6	808.1	809.6	811.2	812.7	814.3	815.9	817.5	819.1	820.8	821.2
127.5°	870.4	871.5	872.6	873.6	874.7	875.8	877.0	878.2	879.4	880.6	881.3
130°	909.8	910.9	912.0	913.0	914.1	915.3	916.6	918.1	919.4	920.8	921.2
132.5°	949.0	950.2	951.6	952.8	954.2	955.0	955.4	955.8	956.2	956.5	957.5
135°	1004.9	1006.2	1007.4	1008.8	1010.0	1010.7	1010.8	1010.9	1011.1	1011.1	1011.8
137.5°	1056.3	1057.4	1058.5	1059.6	1060.7	1061.3	1061.1	1061.0	1060.9	1060.7	1061.8
140°	1089.6	1090.1	1090.5	1091.0	1091.5	1091.6	1091.5	1091.3	1091.2	1091.0	1092.3
142.5°	1120.0	1120.2	1120.4	1120.6	1120.9	1121.1	1121.4	1121.7	1122.1	1122.4	1123.3
145°	1164.5	1164.9	1165.2	1165.6	1166.0	1166.2	1166.2	1166.2	1166.2	1166.2	1166.8
147.5°	1203.1	1203.0	1202.9	1202.8	1202.8	1202.8	1203.1	1203.4	1203.6	1204.0	1204.4
150°	1227.7	1227.2	1226.9	1226.4	1225.9	1225.9	1226.4	1226.9	1227.2	1227.7	1228.2
152.5°	1251.5	1250.5	1249.5	1248.6	1247.5	1247.2	1247.7	1248.2	1248.6	1249.0	1249.5
155°	1282.1	1280.7	1279.4	1278.0	1276.6	1276.2	1276.6	1277.1	1277.6	1278.0	1278.7
157.5°	1305.7	1304.9	1304.0	1303.2	1302.4	1302.0	1302.0	1302.1	1302.2	1302.2	1302.9
160°	1322.1	1320.7	1319.4	1318.0	1316.6	1316.1	1316.3	1316.5	1316.8	1317.0	1317.9
162.5°	1335.2	1333.9	1332.5	1331.1	1329.8	1329.2	1329.4	1329.7	1329.8	1330.1	1331.3
165°	1352.9	1351.5	1350.1	1348.8	1347.4	1346.8	1347.0	1347.3	1347.5	1347.7	1349.1
167.5°	1366.0	1364.6	1363.2	1361.8	1360.3	1359.8	1359.9	1360.2	1360.4	1360.7	1362.3
170°	1373.4	1371.8	1370.2	1368.6	1367.0	1366.3	1366.5	1366.8	1367.0	1367.2	1369.0
172.5°	1378.3	1376.7	1375.1	1373.5	1371.9	1371.3	1371.7	1372.1	1372.5	1372.9	1374.6
175°	1383.6	1382.3	1380.9	1379.5	1378.2	1377.6	1377.8	1378.1	1378.3	1378.5	1380.3
177.5°	1386.1	1385.0	1383.9	1382.8	1381.7	1381.2	1381.5	1381.6	1381.8	1382.0	1383.3
180°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6



TEST NUMBER: P333360-927

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

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°	52.4	55.5	58.5	60.6	61.9	63.1	64.4	65.6
92.5°	51.2	54.1	57.0	58.9	59.9	60.8	61.6	62.5
95°	49.0	51.9	54.8	56.6	57.2	57.8	58.3	58.9
97.5°	65.9	61.2	56.5	54.4	55.0	55.5	56.1	56.6
100°	137.4	105.1	72.9	56.6	56.2	55.7	55.3	54.8
102.5°	240.4	235.6	230.8	220.9	205.9	190.9	175.9	160.9
105°	329.1	330.7	332.3	333.3	333.6	334.0	334.3	334.6
107.5°	408.6	410.3	411.9	412.6	412.4	412.3	412.1	411.9
110°	459.9	460.8	461.7	462.6	463.3	464.1	464.9	465.7



TEST NUMBER: P333360-927

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	510.8	511.4	512.1	512.5	512.7	513.0	513.3	513.5
115°	587.7	588.3	588.8	588.7	587.8	586.9	586.0	585.1
117.5°	661.8	661.9	662.2	662.3	662.2	662.2	662.1	662.1
120°	709.6	710.6	711.5	711.6	711.0	710.3	709.6	709.0
122.5°	755.1	756.0	756.9	756.9	756.0	755.2	754.3	753.5
125°	821.6	821.9	822.3	822.4	822.1	821.8	821.6	821.3
127.5°	882.0	882.7	883.4	883.2	881.9	880.7	879.6	878.3
130°	921.7	922.1	922.6	922.4	921.7	921.0	920.3	919.5
132.5°	958.5	959.5	960.5	960.6	959.8	959.0	958.2	957.4
135°	1012.4	1013.0	1013.6	1013.4	1012.4	1011.5	1010.5	1009.6
137.5°	1062.8	1063.9	1064.9	1065.0	1064.1	1063.3	1062.5	1061.6
140°	1093.7	1095.1	1096.5	1096.6	1095.5	1094.5	1093.4	1092.4
142.5°	1124.2	1125.0	1125.8	1125.8	1124.7	1123.7	1122.7	1121.6
145°	1167.4	1168.1	1168.7	1168.5	1167.5	1166.4	1165.4	1164.3
147.5°	1204.8	1205.1	1205.5	1205.0	1203.5	1202.0	1200.6	1199.0
150°	1228.7	1229.1	1229.5	1228.9	1227.2	1225.4	1223.7	1221.9
152.5°	1250.0	1250.5	1250.9	1250.3	1248.7	1247.1	1245.5	1243.8
155°	1279.4	1280.0	1280.7	1280.2	1278.3	1276.5	1274.7	1272.9
157.5°	1303.7	1304.4	1305.1	1304.6	1302.7	1300.9	1299.1	1297.3
160°	1318.8	1319.7	1320.6	1320.2	1318.3	1316.5	1314.7	1312.9
162.5°	1332.6	1334.0	1335.2	1334.8	1332.8	1330.8	1328.8	1326.8
165°	1350.4	1351.9	1353.2	1353.0	1351.1	1349.3	1347.5	1345.7
167.5°	1364.0	1365.6	1367.2	1367.0	1364.9	1362.9	1360.9	1358.8
170°	1370.9	1372.7	1374.5	1374.4	1372.4	1370.3	1368.3	1366.2
172.5°	1376.3	1377.9	1379.5	1379.3	1377.3	1375.2	1373.2	1371.1
175°	1382.1	1383.9	1385.8	1385.7	1383.6	1381.6	1379.5	1377.4
177.5°	1384.6	1385.8	1387.1	1387.0	1385.5	1384.1	1382.6	1381.2
180°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6

(END OF REPORT)