

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: P333366-927

Luminaire Tested: **S125DIW-S375D1560U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333366-927
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-S375D1560U927-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6100.1 lumens
Efficiency: N/A
Efficacy: 114.2 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

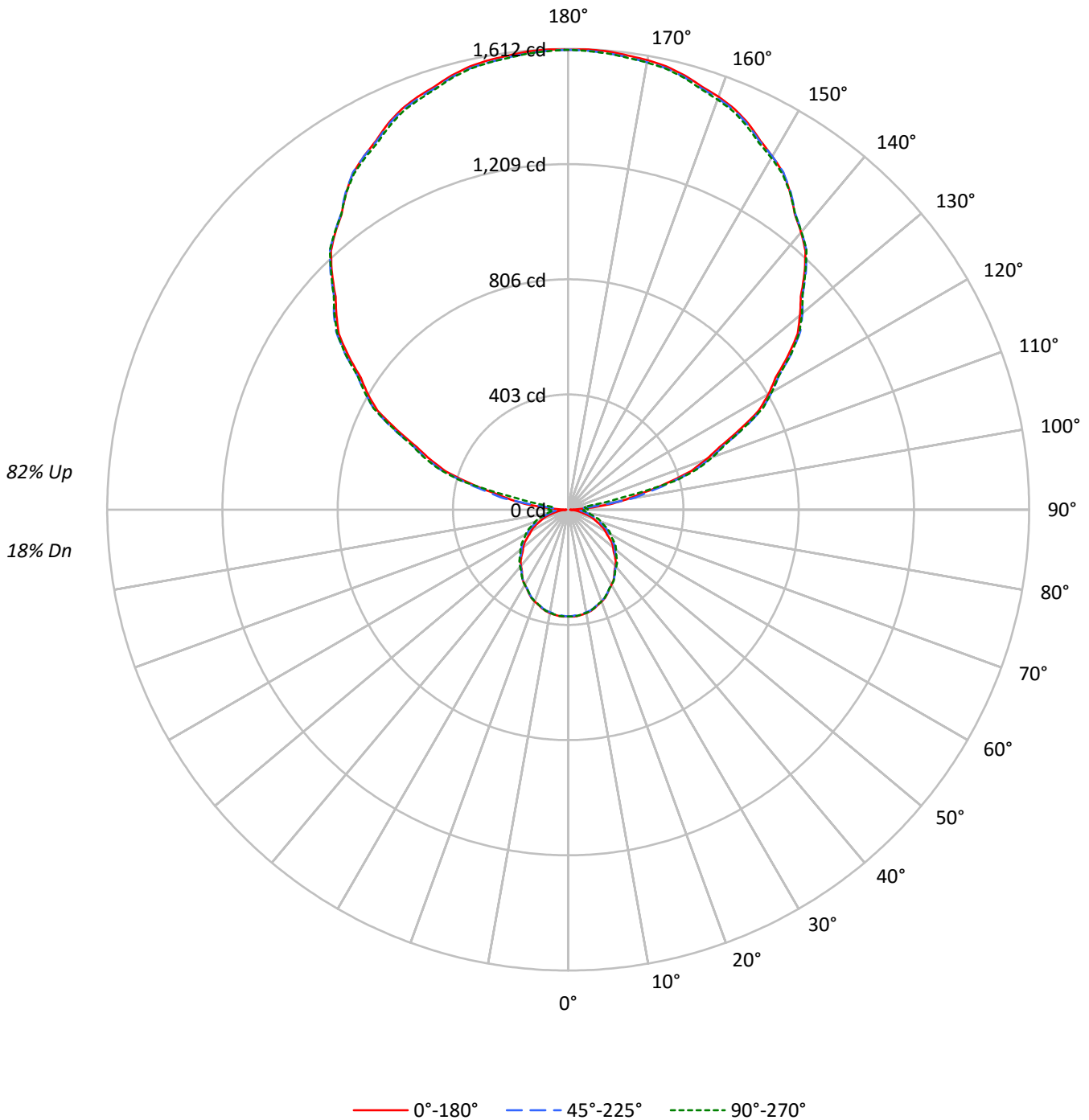
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333366-927

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	99	99	99	99	88	88	88	88	65	65	65	45	45	45	27	27	27	18																			
1	90	86	82	79	79	76	73	70	57	55	53	39	38	37	23	22	22	14																			
2	82	75	69	64	72	66	61	57	50	46	43	34	32	31	20	19	18	12																			
3	75	66	59	53	65	58	52	47	44	40	36	30	28	26	18	16	15	10																			
4	68	58	50	45	60	51	45	40	38	34	31	27	24	22	16	14	13	8																			
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	11	7																			
6	57	46	38	33	50	41	34	29	31	26	23	21	18	16	13	11	10	6																			
7	53	41	34	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6																			
8	49	37	30	25	43	33	27	22	25	21	17	18	15	12	11	9	8	5																			
9	45	34	27	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5																			
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4																			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.6
10°-20°	100.2	1.6
20°-30°	149.1	2.4
30°-40°	176.6	2.9
40°-50°	182.6	3.0
50°-60°	168.2	2.8
60°-70°	135.9	2.2
70°-80°	91.0	1.5
80°-90°	50.6	0.8
90°-100°	85.0	1.4
100°-110°	379.8	6.2
110°-120°	666.5	10.9
120°-130°	846.0	13.9
130°-140°	905.2	14.8
140°-150°	847.3	13.9
150°-160°	684.9	11.2
160°-170°	442.9	7.3
170°-180°	152.8	2.5
0°-30°	284.6	4.7
0°-40°	461.2	7.6
0°-60°	812.0	13.3
0°-90°	1089.5	17.9
90°-120°	1131.3	18.5
90°-150°	3729.9	61.1
90°-180°	5011.0	82.1
0°-180°	6100.1	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	28	49	63	70	7
95°	73	76	46	59	62	90
105°	354	365	376	382	384	375
115°	660	669	680	681	676	654
125°	938	946	953	954	952	837
135°	1168	1175	1175	1177	1172	900
145°	1354	1356	1356	1358	1353	846
155°	1491	1484	1486	1489	1480	686
165°	1573	1566	1567	1573	1565	444
175°	1609	1602	1603	1611	1602	153
180°	1609	1609	1609	1609	1609	



TEST NUMBER: P333366-927

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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	14.7	17.7	20.8	23.8	26.9	30.0	33.1	36.3	39.4	41.5
90°	7.1	11.8	16.5	21.2	26.0	30.6	35.3	39.8	44.4	49.1	52.3
92.5°	23.6	24.6	25.5	26.4	27.3	30.0	34.5	39.0	43.5	47.9	51.1
95°	72.7	74.1	75.3	76.7	78.0	75.0	67.7	60.4	53.1	45.8	49.0
97.5°	146.2	149.6	152.9	156.2	159.5	152.6	135.4	118.1	100.8	83.6	77.8
100°	203.2	205.7	208.2	210.7	213.2	216.3	219.9	223.6	227.3	230.9	193.1
102.5°	261.1	263.6	266.3	268.9	271.4	274.3	277.5	280.7	283.8	287.0	281.1
105°	353.9	356.2	358.6	361.0	363.4	365.8	368.2	370.7	373.0	375.5	377.2
107.5°	450.3	451.4	452.5	453.6	454.7	456.7	459.5	462.5	465.3	468.2	469.8
110°	512.9	514.0	514.9	515.9	516.9	518.7	521.6	524.3	527.2	530.0	530.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	572.1	573.5	575.0	576.4	577.7	579.7	582.3	584.8	587.3	589.9	590.3
115°	660.4	662.3	664.2	666.1	668.0	670.2	672.6	674.9	677.3	679.7	680.1
117.5°	751.9	752.3	752.6	752.9	753.2	754.9	757.9	760.9	763.9	766.9	766.9
120°	809.1	809.1	809.1	809.1	809.1	810.4	813.1	815.7	818.4	821.1	821.9
122.5°	859.4	860.5	861.7	862.8	864.0	865.5	867.8	869.9	872.1	874.3	875.0
125°	937.6	939.4	941.1	942.9	944.7	946.4	948.0	949.7	951.3	952.9	953.2
127.5°	1011.9	1013.1	1014.4	1015.6	1016.8	1018.0	1019.2	1020.4	1021.6	1022.8	1023.3
130°	1057.6	1058.9	1060.2	1061.4	1062.6	1064.0	1065.4	1066.8	1068.2	1069.6	1069.9
132.5°	1103.2	1104.7	1106.2	1107.7	1109.2	1110.2	1110.5	1110.7	1111.0	1111.4	1112.3
135°	1168.2	1169.7	1171.2	1172.7	1174.3	1175.0	1175.0	1175.1	1175.1	1175.2	1175.7
137.5°	1228.0	1229.3	1230.7	1231.9	1233.3	1233.8	1233.6	1233.4	1233.2	1233.0	1234.1
140°	1266.8	1267.3	1267.9	1268.4	1268.9	1269.1	1268.9	1268.8	1268.5	1268.4	1269.8
142.5°	1302.1	1302.3	1302.6	1302.9	1303.1	1303.5	1303.9	1304.2	1304.6	1305.0	1305.8
145°	1353.8	1354.3	1354.8	1355.2	1355.7	1355.9	1355.9	1355.9	1355.9	1355.9	1356.5
147.5°	1398.8	1398.7	1398.6	1398.5	1398.4	1398.5	1398.8	1399.2	1399.5	1399.8	1400.2
150°	1427.4	1426.9	1426.4	1425.8	1425.3	1425.3	1425.8	1426.4	1426.9	1427.4	1428.0
152.5°	1455.1	1454.0	1452.8	1451.6	1450.4	1450.1	1450.6	1451.2	1451.8	1452.2	1452.8
155°	1490.6	1489.1	1487.5	1485.9	1484.3	1483.8	1484.3	1484.8	1485.3	1485.9	1486.7
157.5°	1518.1	1517.1	1516.2	1515.2	1514.3	1513.8	1513.9	1513.9	1513.9	1514.0	1514.9
160°	1537.2	1535.6	1534.0	1532.4	1530.8	1530.1	1530.4	1530.7	1530.9	1531.2	1532.2
162.5°	1552.4	1550.9	1549.3	1547.6	1546.0	1545.4	1545.6	1545.9	1546.2	1546.4	1547.9
165°	1573.0	1571.4	1569.7	1568.1	1566.5	1565.9	1566.1	1566.5	1566.7	1566.9	1568.5
167.5°	1588.2	1586.6	1584.9	1583.3	1581.6	1581.0	1581.2	1581.4	1581.8	1582.0	1583.9
170°	1596.8	1594.9	1593.1	1591.2	1589.4	1588.6	1588.8	1589.1	1589.4	1589.6	1591.7
172.5°	1602.5	1600.7	1598.8	1597.0	1595.1	1594.4	1594.9	1595.4	1595.9	1596.3	1598.2
175°	1608.7	1607.1	1605.5	1603.9	1602.3	1601.7	1602.0	1602.2	1602.5	1602.7	1604.9
177.5°	1611.5	1610.3	1609.0	1607.7	1606.5	1605.9	1606.1	1606.4	1606.5	1606.8	1608.3
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



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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°	43.6	45.8	47.9	49.4	50.1	50.9	51.6	52.3
90°	55.5	58.7	61.9	64.2	65.5	66.9	68.3	69.6
92.5°	54.2	57.4	60.4	62.5	63.5	64.4	65.3	66.2
95°	52.0	55.1	58.3	60.1	60.7	61.2	61.8	62.4
97.5°	72.0	66.3	60.5	57.9	58.5	59.0	59.6	60.1
100°	155.3	117.6	79.9	60.7	60.0	59.5	58.9	58.4
102.5°	275.4	269.5	263.7	252.0	234.5	216.9	199.4	181.9
105°	378.7	380.4	382.0	382.9	383.3	383.6	383.9	384.2
107.5°	471.5	473.2	474.8	475.5	475.2	475.0	474.7	474.4
110°	531.5	532.3	533.0	533.8	534.6	535.4	536.3	537.1



TEST NUMBER: P333366-927

CATALOG NUMBER: S125DIW-S375D1560U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	590.8	591.3	591.8	592.1	592.3	592.5	592.7	592.9
115°	680.5	680.9	681.4	681.0	679.9	678.7	677.6	676.5
117.5°	766.9	766.9	766.9	766.8	766.8	766.6	766.4	766.3
120°	822.8	823.6	824.5	824.5	823.6	822.8	822.0	821.2
122.5°	875.8	876.6	877.4	877.3	876.2	875.2	874.2	873.1
125°	953.4	953.6	953.9	953.8	953.4	953.0	952.6	952.2
127.5°	1024.0	1024.6	1025.2	1024.8	1023.3	1021.8	1020.3	1018.8
130°	1070.2	1070.6	1071.0	1070.6	1069.8	1068.8	1067.9	1067.0
132.5°	1113.3	1114.3	1115.2	1115.2	1114.3	1113.3	1112.3	1111.4
135°	1176.2	1176.8	1177.3	1176.9	1175.8	1174.6	1173.4	1172.2
137.5°	1235.2	1236.2	1237.2	1237.3	1236.2	1235.2	1234.1	1233.0
140°	1271.2	1272.6	1274.1	1274.1	1272.9	1271.6	1270.3	1269.1
142.5°	1306.7	1307.6	1308.4	1308.3	1307.0	1305.8	1304.5	1303.2
145°	1357.2	1357.9	1358.6	1358.3	1357.0	1355.7	1354.5	1353.2
147.5°	1400.7	1401.1	1401.5	1400.9	1399.2	1397.4	1395.6	1393.8
150°	1428.5	1429.0	1429.6	1428.8	1426.8	1424.7	1422.7	1420.6
152.5°	1453.3	1453.8	1454.4	1453.7	1451.8	1449.9	1448.0	1446.1
155°	1487.5	1488.3	1489.1	1488.4	1486.3	1484.2	1482.0	1479.9
157.5°	1515.7	1516.6	1517.4	1516.8	1514.7	1512.5	1510.4	1508.3
160°	1533.3	1534.4	1535.4	1534.9	1532.8	1530.7	1528.5	1526.5
162.5°	1549.4	1550.9	1552.4	1552.0	1549.7	1547.3	1545.0	1542.6
165°	1570.1	1571.8	1573.4	1573.0	1571.0	1568.8	1566.7	1564.6
167.5°	1585.8	1587.7	1589.6	1589.4	1587.0	1584.6	1582.2	1579.8
170°	1593.9	1596.0	1598.1	1598.0	1595.6	1593.2	1590.8	1588.4
172.5°	1600.1	1602.0	1603.9	1603.7	1601.3	1598.9	1596.6	1594.2
175°	1606.9	1609.1	1611.2	1611.1	1608.7	1606.3	1603.9	1601.6
177.5°	1609.8	1611.2	1612.7	1612.6	1610.9	1609.2	1607.5	1605.8
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7

(END OF REPORT)