

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: P333366-935

Luminaire Tested: **S125DIW-S375D1560U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333366-935
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-S375D1560U935-4F0-1E-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: 6630.0 lumens
Efficiency: N/A
Efficacy: 124.2 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-Indirect

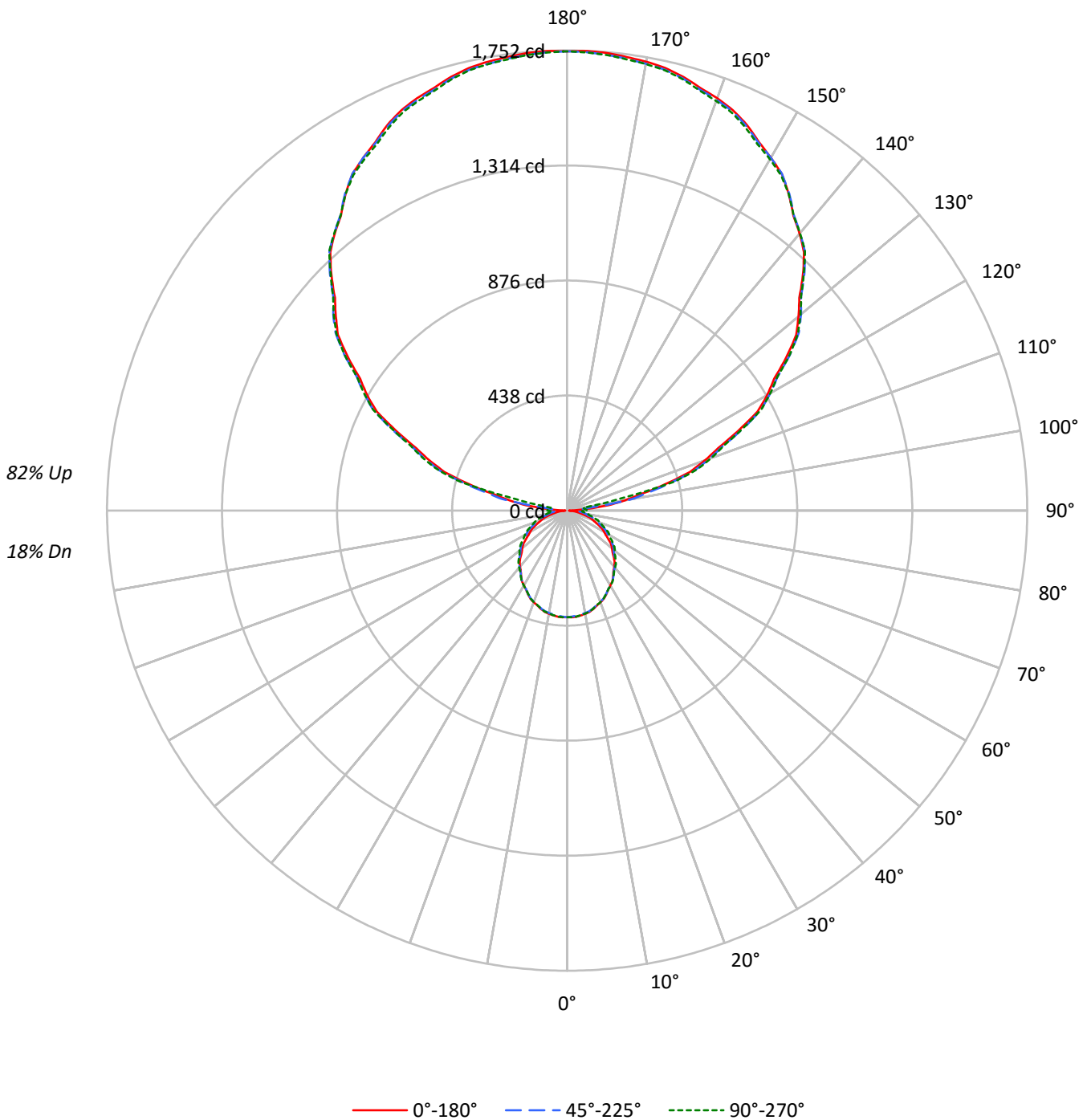
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P333366-935

CATALOG NUMBER: S125DIW-S375D1560U935-4F0-1E-UDD-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	2621	2621	2621
5°	2627	2573	2581
10°	2608	2527	2523
15°	2577	2472	2450
20°	2535	2404	2376
25°	2485	2331	2285
30°	2425	2251	2203
35°	2369	2178	2127
40°	2312	2100	2051
45°	2247	2033	1983
50°	2184	1962	1924
55°	2110	1894	1854
60°	2028	1817	1782
65°	1944	1736	1703
70°	1849	1625	1620
75°	1695	1518	1517
80°	1493	1389	1408
85°	1311	1301	1373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.6
10°-20°	108.9	1.6
20°-30°	162.0	2.4
30°-40°	191.9	2.9
40°-50°	198.4	3.0
50°-60°	182.8	2.8
60°-70°	147.8	2.2
70°-80°	99.0	1.5
80°-90°	55.0	0.8
90°-100°	92.3	1.4
100°-110°	412.8	6.2
110°-120°	724.4	10.9
120°-130°	919.5	13.9
130°-140°	983.9	14.8
140°-150°	920.9	13.9
150°-160°	744.4	11.2
160°-170°	481.4	7.3
170°-180°	166.0	2.5
0°-30°	309.4	4.7
0°-40°	501.3	7.6
0°-60°	882.5	13.3
0°-90°	1184.2	17.9
90°-120°	1229.6	18.5
90°-150°	4053.9	61.1
90°-180°	5446.0	82.1
0°-180°	6630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	405	38
15°	388	388	385	387	386	109
25°	352	353	351	352	351	162
35°	305	307	306	308	308	191
45°	251	255	257	260	261	194
55°	193	199	206	210	212	172
65°	133	142	152	157	159	132
75°	73	84	96	104	106	78
85°	22	35	49	57	61	23
90°	8	31	53	68	76	7
95°	79	83	50	64	68	98
105°	385	396	408	416	418	408
115°	718	727	739	740	735	711
125°	1019	1028	1036	1037	1035	910
135°	1270	1277	1277	1279	1274	978
145°	1471	1474	1474	1476	1471	920
155°	1620	1613	1615	1618	1608	746
165°	1710	1702	1703	1710	1700	483
175°	1748	1741	1742	1751	1741	166
180°	1748	1748	1748	1748	1748	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	406.8	406.7	406.6	406.4	406.3	406.0	405.4	404.9	404.5	404.0	404.5
5°	405.9	405.7	405.5	405.4	405.2	404.8	404.2	403.6	402.9	402.3	403.0
7.5°	402.3	402.3	402.2	402.1	402.0	401.7	401.1	400.4	399.8	399.1	399.8
10°	399.1	399.1	399.1	399.1	399.1	398.7	398.0	397.4	396.7	395.9	396.6
12.5°	394.7	394.8	394.8	394.9	394.9	394.7	394.2	393.6	393.0	392.4	392.9
15°	387.5	387.6	387.7	387.9	388.0	387.6	387.0	386.4	385.8	385.2	385.7
17.5°	378.3	378.5	378.7	378.8	379.0	378.8	378.2	377.5	376.9	376.3	376.8
20°	371.7	371.9	372.0	372.2	372.4	372.1	371.5	370.9	370.3	369.6	370.0
22.5°	364.0	364.4	364.6	365.0	365.3	365.1	364.4	363.7	363.0	362.3	362.7
25°	352.1	352.4	352.7	352.9	353.2	353.1	352.6	352.1	351.5	350.9	351.3
27.5°	339.0	339.3	339.8	340.1	340.5	340.4	339.8	339.2	338.6	338.0	338.2
30°	329.1	329.6	330.1	330.7	331.2	331.2	330.7	330.1	329.6	329.1	329.2
32.5°	320.2	320.6	321.1	321.6	322.0	322.0	321.7	321.2	320.9	320.5	320.6
35°	304.8	305.4	306.1	306.7	307.3	307.5	307.2	306.9	306.7	306.4	306.7
37.5°	289.5	290.0	290.6	291.1	291.7	292.0	291.9	291.8	291.7	291.6	292.0
40°	279.0	279.7	280.3	281.0	281.8	282.1	282.0	281.9	281.8	281.7	282.1
42.5°	267.5	268.4	269.3	270.3	271.1	271.7	271.9	272.1	272.3	272.5	272.9
45°	251.1	252.1	253.0	254.0	254.9	255.7	256.1	256.6	257.0	257.4	258.0
47.5°	234.3	235.2	236.1	237.0	237.9	238.8	239.5	240.2	241.0	241.8	242.7
50°	222.8	223.8	224.8	225.8	226.7	227.7	228.7	229.6	230.6	231.6	232.6
52.5°	210.8	211.9	213.1	214.3	215.5	216.6	217.8	219.0	220.2	221.4	222.5
55°	193.0	194.4	195.8	197.3	198.6	200.1	201.5	202.9	204.3	205.7	206.7
57.5°	174.9	176.5	178.2	179.9	181.7	183.3	184.9	186.6	188.2	189.8	190.9
60°	162.7	164.5	166.3	168.1	169.8	171.6	173.3	175.1	176.9	178.7	179.9
62.5°	150.9	152.7	154.5	156.3	158.1	159.9	161.8	163.7	165.7	167.6	169.0
65°	132.9	134.9	137.0	139.0	141.0	143.1	145.3	147.4	149.5	151.6	152.9
67.5°	115.9	117.9	119.8	121.7	123.7	125.8	127.9	130.1	132.2	134.4	136.0
70°	103.5	105.5	107.5	109.5	111.6	113.7	116.1	118.4	120.6	123.0	124.7
72.5°	91.4	93.5	95.6	97.6	99.8	102.1	104.6	107.1	109.6	112.1	114.0
75°	73.2	75.5	77.8	80.1	82.4	85.0	87.8	90.7	93.5	96.3	98.1
77.5°	55.8	58.5	61.1	63.7	66.4	69.1	71.8	74.6	77.2	80.0	82.0
80°	44.9	47.6	50.3	53.0	55.5	58.4	61.4	64.4	67.4	70.4	72.4
82.5°	35.1	37.9	40.7	43.5	46.2	49.2	52.3	55.4	58.5	61.5	63.4
85°	21.9	24.8	27.7	30.7	33.6	36.6	39.7	42.8	45.9	48.9	50.9
87.5°	12.7	15.9	19.3	22.6	25.8	29.2	32.6	36.0	39.4	42.8	45.1
90°	7.7	12.8	17.9	23.1	28.2	33.2	38.3	43.3	48.3	53.4	56.8
92.5°	25.7	26.7	27.7	28.7	29.7	32.6	37.5	42.4	47.3	52.1	55.5
95°	79.0	80.5	81.9	83.3	84.8	81.5	73.6	65.7	57.7	49.8	53.2
97.5°	158.9	162.6	166.2	169.8	173.4	165.8	147.1	128.4	109.6	90.8	84.6
100°	220.8	223.5	226.3	229.0	231.7	235.1	239.0	243.1	247.0	251.0	209.9
102.5°	283.8	286.5	289.4	292.2	295.0	298.2	301.6	305.1	308.5	311.9	305.6
105°	384.6	387.2	389.8	392.4	394.9	397.5	400.2	402.9	405.4	408.1	409.9
107.5°	489.4	490.6	491.8	493.0	494.2	496.4	499.5	502.7	505.8	508.9	510.7
110°	557.5	558.6	559.6	560.7	561.8	563.8	566.9	569.9	573.0	576.0	576.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	621.8	623.4	624.9	626.5	627.9	630.1	632.8	635.6	638.3	641.1	641.6
115°	717.8	719.9	721.9	724.0	726.1	728.4	731.0	733.6	736.2	738.7	739.2
117.5°	817.3	817.6	817.9	818.3	818.6	820.4	823.7	827.0	830.3	833.5	833.5
120°	879.4	879.4	879.4	879.4	879.3	880.8	883.7	886.6	889.5	892.4	893.3
122.5°	934.1	935.3	936.5	937.7	939.0	940.7	943.1	945.5	947.9	950.2	951.1
125°	1019.1	1021.0	1022.9	1024.8	1026.7	1028.6	1030.4	1032.2	1033.9	1035.7	1036.0
127.5°	1099.8	1101.1	1102.5	1103.8	1105.2	1106.5	1107.8	1109.1	1110.3	1111.6	1112.2
130°	1149.5	1150.9	1152.3	1153.6	1154.9	1156.4	1158.0	1159.4	1161.0	1162.5	1162.9
132.5°	1199.0	1200.7	1202.3	1203.9	1205.6	1206.6	1206.9	1207.2	1207.6	1207.9	1208.9
135°	1269.7	1271.4	1273.0	1274.6	1276.3	1277.1	1277.1	1277.2	1277.2	1277.3	1277.8
137.5°	1334.6	1336.1	1337.6	1338.9	1340.4	1341.0	1340.7	1340.6	1340.3	1340.1	1341.3
140°	1376.8	1377.4	1378.0	1378.6	1379.1	1379.3	1379.1	1379.0	1378.7	1378.5	1380.1
142.5°	1415.2	1415.5	1415.7	1416.1	1416.3	1416.7	1417.1	1417.6	1418.0	1418.3	1419.3
145°	1471.4	1472.0	1472.5	1472.9	1473.4	1473.7	1473.7	1473.7	1473.7	1473.7	1474.4
147.5°	1520.4	1520.2	1520.1	1520.0	1519.8	1520.0	1520.4	1520.7	1521.0	1521.4	1521.8
150°	1551.4	1550.8	1550.3	1549.7	1549.1	1549.1	1549.7	1550.3	1550.8	1551.4	1552.0
152.5°	1581.5	1580.3	1579.0	1577.7	1576.4	1576.1	1576.7	1577.3	1577.9	1578.4	1579.0
155°	1620.1	1618.4	1616.7	1615.0	1613.3	1612.7	1613.3	1613.8	1614.4	1615.0	1615.8
157.5°	1649.9	1648.9	1647.9	1646.8	1645.8	1645.3	1645.4	1645.5	1645.5	1645.5	1646.5
160°	1670.7	1669.0	1667.2	1665.5	1663.8	1663.0	1663.4	1663.6	1663.9	1664.2	1665.3
162.5°	1687.3	1685.6	1683.9	1682.0	1680.3	1679.6	1679.9	1680.2	1680.5	1680.8	1682.4
165°	1709.6	1707.9	1706.1	1704.3	1702.6	1701.9	1702.2	1702.5	1702.8	1703.1	1704.8
167.5°	1726.1	1724.4	1722.6	1720.8	1719.0	1718.3	1718.6	1718.8	1719.2	1719.4	1721.5
170°	1735.5	1733.5	1731.5	1729.4	1727.4	1726.6	1726.8	1727.2	1727.4	1727.7	1730.0
172.5°	1741.7	1739.7	1737.7	1735.7	1733.6	1732.9	1733.5	1734.0	1734.5	1735.0	1737.1
175°	1748.4	1746.7	1745.0	1743.3	1741.5	1740.9	1741.1	1741.4	1741.7	1742.0	1744.3
177.5°	1751.5	1750.2	1748.8	1747.4	1746.0	1745.4	1745.7	1745.9	1746.1	1746.4	1748.0
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	404.9	405.4	406.0	406.1	406.0	406.0	406.0	405.9
5°	403.7	404.4	405.1	405.4	405.4	405.3	405.2	405.1
7.5°	400.4	401.0	401.6	401.8	401.7	401.7	401.6	401.5
10°	397.2	397.8	398.4	398.6	398.6	398.5	398.4	398.3
12.5°	393.4	393.8	394.3	394.4	394.3	394.0	393.7	393.6
15°	386.2	386.8	387.3	387.4	387.0	386.7	386.3	386.0
17.5°	377.2	377.5	378.0	378.1	377.9	377.6	377.5	377.2
20°	370.2	370.5	370.7	370.8	370.8	370.8	370.8	370.8
22.5°	363.0	363.3	363.7	363.8	363.5	363.3	363.1	362.9
25°	351.6	352.1	352.4	352.3	351.9	351.5	351.0	350.6
27.5°	338.5	338.7	339.0	339.1	338.9	338.7	338.5	338.4
30°	329.4	329.6	329.8	329.8	329.8	329.7	329.6	329.5
32.5°	320.8	321.0	321.2	321.2	321.2	321.1	321.0	320.9
35°	306.9	307.2	307.5	307.5	307.5	307.5	307.5	307.5
37.5°	292.3	292.7	293.0	293.2	293.2	293.1	293.1	293.0
40°	282.4	282.8	283.2	283.4	283.6	283.8	284.0	284.1
42.5°	273.4	273.8	274.2	274.4	274.5	274.5	274.5	274.6
45°	258.7	259.3	259.9	260.3	260.4	260.5	260.5	260.6
47.5°	243.6	244.5	245.4	245.9	246.2	246.3	246.5	246.7
50°	233.5	234.5	235.5	236.1	236.3	236.6	236.9	237.1
52.5°	223.5	224.5	225.6	226.2	226.4	226.6	226.8	227.0
55°	207.7	208.6	209.7	210.3	210.6	210.9	211.4	211.7
57.5°	192.0	193.1	194.2	194.9	195.2	195.4	195.8	196.0
60°	181.3	182.6	184.0	184.8	185.0	185.3	185.5	185.8
62.5°	170.5	171.9	173.4	174.3	174.6	175.0	175.3	175.6
65°	154.3	155.6	156.9	157.7	158.1	158.4	158.9	159.2
67.5°	137.7	139.2	140.9	141.9	142.3	142.8	143.3	143.7
70°	126.3	128.0	129.7	130.8	131.3	131.8	132.3	132.9
72.5°	115.8	117.6	119.4	120.5	120.9	121.3	121.7	122.1
75°	99.9	101.6	103.4	104.4	105.0	105.4	105.8	106.2
77.5°	83.9	85.8	87.7	88.9	89.3	89.6	90.0	90.3
80°	74.3	76.3	78.2	79.4	79.7	80.1	80.4	80.8
82.5°	65.3	67.2	69.1	70.3	70.9	71.5	72.2	72.8
85°	52.9	54.8	56.7	58.0	58.7	59.5	60.2	60.9
87.5°	47.4	49.8	52.1	53.6	54.5	55.3	56.1	56.8
90°	60.4	63.8	67.2	69.7	71.2	72.7	74.2	75.7
92.5°	58.9	62.3	65.7	67.9	69.0	70.0	70.9	72.0
95°	56.6	59.9	63.4	65.3	66.0	66.6	67.2	67.8
97.5°	78.3	72.1	65.8	62.9	63.5	64.1	64.7	65.3
100°	168.8	127.8	86.8	66.0	65.3	64.7	64.1	63.5
102.5°	299.3	292.9	286.6	273.9	254.9	235.7	216.7	197.7
105°	411.6	413.5	415.2	416.2	416.6	416.9	417.2	417.6
107.5°	512.5	514.3	516.1	516.9	516.5	516.3	515.9	515.6
110°	577.6	578.5	579.3	580.1	581.1	581.9	582.9	583.8



TEST NUMBER: P333366-935

CATALOG NUMBER: S125DIW-S375D1560U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	642.1	642.7	643.2	643.5	643.8	643.9	644.2	644.4
115°	739.6	740.0	740.5	740.1	738.9	737.7	736.5	735.3
117.5°	833.5	833.5	833.5	833.4	833.4	833.2	833.0	832.8
120°	894.2	895.2	896.1	896.1	895.2	894.3	893.4	892.5
122.5°	951.9	952.8	953.6	953.5	952.4	951.2	950.1	948.9
125°	1036.2	1036.5	1036.7	1036.6	1036.2	1035.8	1035.4	1034.9
127.5°	1112.9	1113.6	1114.3	1113.9	1112.2	1110.6	1109.0	1107.3
130°	1163.2	1163.6	1164.0	1163.6	1162.7	1161.7	1160.7	1159.7
132.5°	1210.0	1211.1	1212.1	1212.1	1211.1	1210.0	1208.9	1207.9
135°	1278.4	1279.0	1279.5	1279.2	1277.9	1276.6	1275.3	1274.0
137.5°	1342.5	1343.6	1344.7	1344.8	1343.6	1342.5	1341.4	1340.1
140°	1381.6	1383.2	1384.7	1384.8	1383.5	1382.1	1380.7	1379.3
142.5°	1420.2	1421.2	1422.1	1421.9	1420.6	1419.2	1417.8	1416.4
145°	1475.2	1475.8	1476.6	1476.3	1474.9	1473.5	1472.1	1470.8
147.5°	1522.3	1522.9	1523.3	1522.6	1520.7	1518.8	1516.8	1514.9
150°	1552.6	1553.2	1553.8	1552.9	1550.7	1548.5	1546.3	1544.0
152.5°	1579.6	1580.1	1580.7	1579.9	1577.9	1575.9	1573.8	1571.8
155°	1616.7	1617.6	1618.4	1617.6	1615.4	1613.1	1610.8	1608.4
157.5°	1647.4	1648.3	1649.2	1648.6	1646.2	1643.9	1641.6	1639.3
160°	1666.5	1667.7	1668.8	1668.3	1665.9	1663.6	1661.3	1659.1
162.5°	1684.0	1685.7	1687.2	1686.8	1684.3	1681.7	1679.2	1676.6
165°	1706.5	1708.3	1710.0	1709.7	1707.4	1705.1	1702.8	1700.5
167.5°	1723.5	1725.6	1727.7	1727.4	1724.8	1722.3	1719.7	1717.1
170°	1732.3	1734.7	1736.9	1736.8	1734.2	1731.6	1729.0	1726.4
172.5°	1739.1	1741.2	1743.3	1743.0	1740.4	1737.8	1735.3	1732.7
175°	1746.5	1748.9	1751.2	1751.0	1748.4	1745.8	1743.3	1740.7
177.5°	1749.6	1751.2	1752.8	1752.7	1750.8	1749.0	1747.1	1745.3
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4

(END OF REPORT)