

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: P333103-840

Luminaire Tested: **S124RDIW-S1195D1050U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333103-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D1050U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9294.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

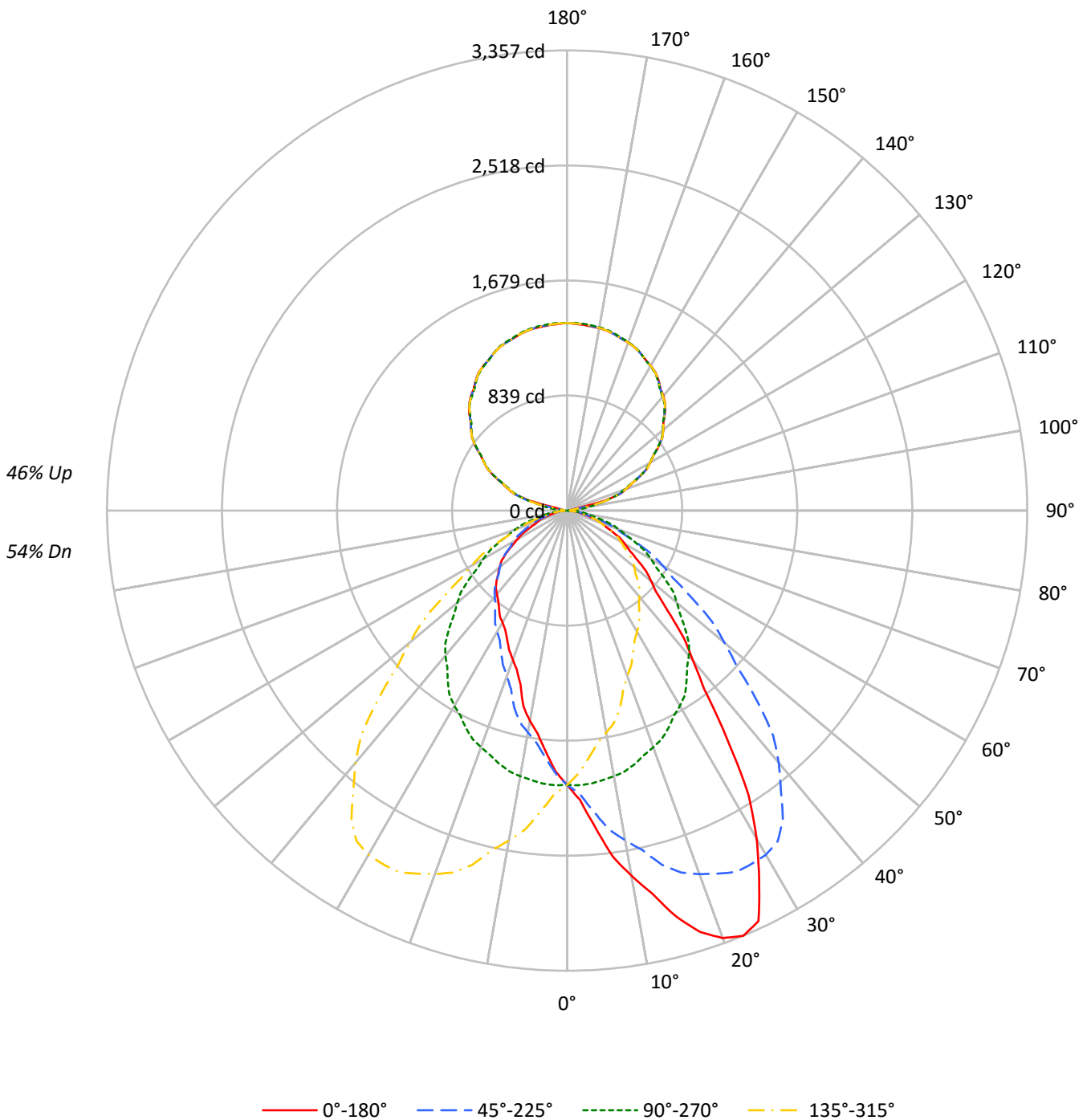
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	74	72	65	63	61	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	55	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38	34
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	24	21	19
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19	17
10	49	37	29	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16156	16156	16156	16156
5°	18739	16204	14323	16204
10°	22168	16133	12782	16133
15°	25607	15984	10984	15984
20°	28511	15779	9933	15779
25°	29432	15577	9222	15577
30°	25765	15333	8793	15333
35°	20056	14970	8535	14970
40°	15039	14556	8395	14556
45°	11875	13891	8322	13891
50°	10025	13123	8081	13123
55°	8739	12279	7648	12279
60°	7863	11404	6770	11404
65°	6930	10457	5822	10457
70°	6243	9477	5254	9477
75°	5231	8400	4476	8400
80°	4421	7159	4198	7159
85°	3733	5604	3733	5604



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	2.1
10°-20°	584.9	6.3
20°-30°	914.8	9.8
30°-40°	1017.0	10.9
40°-50°	902.3	9.7
50°-60°	703.1	7.6
60°-70°	460.3	5.0
70°-80°	226.4	2.4
80°-90°	59.8	0.6
90°-100°	46.8	0.5
100°-110°	298.3	3.2
110°-120°	570.7	6.1
120°-130°	724.4	7.8
130°-140°	775.1	8.3
140°-150°	724.8	7.8
150°-160°	584.5	6.3
160°-170°	377.0	4.1
170°-180°	129.9	1.4
0°-30°	1693.6	18.2
0°-40°	2710.6	29.2
0°-60°	4316.0	46.4
0°-90°	5062.5	54.5
90°-120°	915.8	9.9
90°-150°	3140.1	33.8
90°-180°	4232.0	45.5
0°-180°	9294.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2001	2001	2001	2001	2001	
5°	2312	2000	1767	2000	2312	234
15°	3064	1912	1314	1912	3064	871
25°	3304	1749	1035	1749	3304	1466
35°	2035	1519	866	1519	2035	1276
45°	1040	1217	729	1217	1040	824
55°	621	872	543	872	621	565
65°	363	547	305	547	363	365
75°	168	269	144	269	168	185
85°	40	60	40	60	40	46
90°	31	3	31	3	31	15
95°	30	56	30	56	30	24
105°	292	308	292	308	292	254
115°	579	575	579	575	579	573
125°	814	808	814	808	814	725
135°	1010	1003	1010	1003	1010	777
145°	1162	1156	1162	1156	1162	726
155°	1267	1268	1267	1268	1267	584
165°	1331	1337	1331	1337	1331	376
175°	1360	1368	1360	1368	1360	129
180°	1368	1368	1368	1368	1368	



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2110.8	2116.7	2110.8	2110.2	2103.8	2101.8	2099.2	2090.8	2075.4	2066.4	2068.3
5°	2312.4	2332.6	2321.3	2319.7	2302.0	2284.2	2272.9	2247.2	2219.7	2201.2	2185.9
7.5°	2545.6	2557.2	2550.1	2538.8	2510.1	2493.9	2467.7	2433.7	2384.5	2346.9	2312.6
10°	2704.3	2713.9	2710.8	2689.8	2668.8	2626.1	2601.9	2554.4	2492.2	2443.1	2397.1
12.5°	2860.3	2870.7	2842.4	2843.3	2803.6	2770.0	2731.6	2671.7	2600.0	2536.6	2479.0
15°	3063.9	3051.0	3051.0	3034.8	2990.5	2943.8	2904.3	2841.4	2751.1	2675.2	2595.5
17.5°	3223.2	3227.7	3221.1	3183.1	3148.3	3099.9	3027.5	2954.1	2870.2	2768.4	2686.8
20°	3318.7	3318.7	3311.4	3285.6	3240.5	3188.9	3110.7	3030.8	2924.4	2822.0	2730.1
22.5°	3357.4	3359.9	3351.4	3330.1	3289.5	3239.1	3172.6	3091.5	2981.8	2866.5	2752.7
25°	3304.2	3319.5	3321.0	3315.5	3303.4	3272.7	3215.5	3132.4	3034.0	2909.1	2786.5
27.5°	3033.5	3052.9	3069.9	3097.8	3134.8	3154.2	3156.7	3114.5	3028.7	2908.4	2785.1
30°	2763.9	2780.1	2832.5	2901.0	2954.3	3002.6	3044.5	3055.9	3007.5	2899.4	2769.6
32.5°	2464.7	2486.6	2539.0	2612.7	2701.4	2783.3	2877.5	2925.5	2924.3	2859.4	2739.3
35°	2035.1	2051.2	2099.6	2177.0	2283.4	2405.2	2554.4	2670.4	2749.5	2743.8	2670.4
37.5°	1641.2	1659.5	1708.4	1772.5	1875.7	2026.5	2170.8	2330.8	2476.9	2559.0	2534.5
40°	1427.1	1427.9	1475.5	1541.7	1638.4	1769.8	1927.0	2104.4	2267.2	2400.3	2426.1
42.5°	1258.1	1258.3	1289.7	1361.0	1430.7	1554.4	1704.5	1880.6	2071.2	2224.8	2293.2
45°	1040.1	1047.3	1073.2	1115.9	1170.7	1275.6	1395.6	1559.3	1773.0	1955.2	2068.9
47.5°	880.8	891.4	907.9	942.7	986.4	1056.2	1155.6	1302.6	1476.4	1676.9	1838.7
50°	798.2	799.8	820.8	840.1	878.1	933.7	1020.8	1143.3	1302.9	1495.6	1675.5
52.5°	727.3	726.9	739.5	764.1	794.9	838.2	908.5	1020.1	1161.6	1334.4	1520.0
55°	620.9	624.9	634.5	653.9	677.3	707.9	763.6	847.4	958.7	1106.2	1274.8
57.5°	539.9	542.0	549.6	557.7	579.3	601.5	643.3	701.5	795.4	916.1	1073.2
60°	487.0	487.8	490.2	502.3	519.3	540.2	568.5	617.6	696.6	807.1	931.3
62.5°	435.4	436.9	440.6	449.4	462.5	477.0	506.5	546.0	611.5	705.8	817.7
65°	362.8	363.7	369.3	372.5	382.9	395.9	417.7	444.2	489.4	568.5	653.1
67.5°	303.2	303.2	303.5	307.8	315.1	323.7	336.7	358.0	392.0	440.6	515.2
70°	264.5	264.5	266.1	268.5	272.6	279.7	287.0	303.2	328.2	367.7	425.0
72.5°	228.3	228.9	230.6	231.1	233.2	239.1	244.5	254.8	273.4	303.2	349.4
75°	167.7	170.2	174.2	177.4	181.4	180.6	186.2	192.7	198.3	216.1	242.7
77.5°	124.8	123.5	124.0	126.7	127.2	128.1	132.1	137.0	141.3	149.7	159.2
80°	95.1	95.1	97.6	98.4	97.6	98.4	102.4	104.8	106.4	109.7	118.6
82.5°	71.9	73.2	72.4	73.2	73.7	74.5	77.9	78.4	80.0	81.3	85.0
85°	40.3	41.1	41.9	40.3	40.3	40.3	41.9	42.7	44.3	43.5	45.1
87.5°	20.3	19.6	20.2	20.1	20.6	19.8	20.2	21.2	19.6	20.0	19.6
90°	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2	23.8	22.5	20.7
92.5°	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4	23.0	21.7	19.9
95°	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2	23.8	22.5	22.3
97.5°	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3	27.2	27.0	52.4
100°	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3	41.2	45.0	76.4
102.5°	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5	175.2	216.9	221.0
105°	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4	321.2	319.2	318.1
107.5°	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0	399.0	398.0	396.5
110°	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1	451.7	451.2	449.9



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6	502.7	502.8	502.1
115°	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9	577.5	577.0	577.3
117.5°	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8	653.9	654.0	653.5
120°	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7	700.3	699.8	700.0
122.5°	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1	746.8	746.5	746.2
125°	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7	811.0	810.3	810.8
127.5°	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0	876.2	876.3	875.1
130°	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1	914.9	914.7	914.0
132.5°	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6	953.4	953.2	952.3
135°	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7	1006.2	1005.8	1004.9
137.5°	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5	1057.0	1056.5	1055.5
140°	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0	1088.3	1087.6	1087.2
142.5°	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1	1117.6	1117.1	1116.8
145°	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7	1159.5	1159.2	1159.2
147.5°	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3	1196.1	1195.9	1196.1
150°	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6	1219.6	1219.6	1219.8
152.5°	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0	1239.6	1239.3	1239.7
155°	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5	1266.6	1265.7	1266.4
157.5°	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8	1289.6
160°	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5	1303.7
162.5°	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5	1317.2	1315.8	1316.1
165°	1331.1	1333.2	1335.2	1337.3	1339.3	1339.5	1337.7	1335.8	1334.0	1332.2	1332.2
167.5°	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5	1346.5	1344.4	1344.6
170°	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2	1354.4	1352.6	1352.4
172.5°	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2	1359.4	1357.6	1357.4
175°	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0	1364.9	1362.9	1362.6
177.5°	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3	1367.8	1366.3	1365.9
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2061.8	2052.9	2048.3	2038.0	2025.7	2019.2	2013.5	2005.1	1994.1	1982.5	1974.1
5°	2166.5	2147.2	2122.9	2094.0	2068.1	2043.2	2021.3	1999.6	1974.6	1948.8	1923.0
7.5°	2273.9	2235.8	2194.7	2147.2	2100.8	2058.8	2020.0	1983.0	1941.1	1903.5	1869.3
10°	2348.7	2297.1	2239.9	2179.4	2118.9	2066.5	2014.9	1968.1	1916.5	1870.6	1831.9
12.5°	2409.3	2348.7	2279.9	2204.5	2131.8	2068.4	2009.1	1948.1	1889.5	1839.7	1788.1
15°	2509.9	2426.9	2334.2	2243.9	2149.6	2063.3	1983.5	1912.5	1845.6	1775.4	1726.3
17.5°	2579.2	2480.6	2367.9	2259.4	2148.0	2046.2	1954.1	1869.7	1792.4	1720.8	1662.2
20°	2620.4	2511.5	2386.6	2263.2	2138.3	2029.4	1930.3	1836.7	1756.9	1679.5	1619.0
22.5°	2643.6	2523.1	2386.6	2257.5	2128.0	2010.0	1901.2	1803.8	1716.9	1639.5	1572.6
25°	2651.1	2522.0	2382.6	2234.2	2092.3	1967.3	1854.4	1748.8	1652.0	1574.7	1503.7
27.5°	2640.8	2488.8	2346.0	2193.7	2047.3	1915.6	1797.1	1686.1	1589.2	1506.1	1433.4
30°	2625.2	2462.4	2309.2	2151.2	2002.8	1876.2	1751.2	1644.9	1544.1	1457.7	1384.4
32.5°	2591.7	2430.1	2265.3	2103.4	1953.2	1822.7	1704.1	1597.1	1498.2	1410.1	1332.1
35°	2525.3	2361.6	2182.6	2016.5	1869.0	1733.5	1622.2	1519.0	1424.7	1330.4	1248.1
37.5°	2437.7	2270.5	2092.4	1910.6	1762.8	1635.0	1532.9	1436.0	1343.9	1257.8	1166.7
40°	2355.2	2202.8	2018.9	1838.4	1686.8	1563.4	1469.1	1381.2	1288.5	1203.0	1111.9
42.5°	2255.2	2125.4	1939.6	1758.4	1608.7	1489.9	1402.0	1316.1	1231.7	1148.8	1053.8
45°	2088.3	1989.9	1815.7	1641.6	1490.9	1373.1	1292.5	1216.7	1142.5	1063.5	974.0
47.5°	1897.0	1830.4	1680.1	1501.8	1362.3	1256.4	1178.5	1116.5	1053.8	974.8	896.3
50°	1764.1	1721.4	1576.3	1413.4	1280.4	1182.9	1103.0	1044.9	992.5	916.8	846.6
52.5°	1622.2	1599.5	1476.9	1321.2	1192.7	1097.0	1028.9	976.5	923.5	860.6	795.0
55°	1406.1	1418.3	1314.2	1179.6	1058.6	978.1	915.9	872.4	827.3	774.1	723.3
57.5°	1185.3	1229.4	1159.6	1041.4	928.1	853.5	806.8	770.1	732.3	688.1	644.7
60°	1053.0	1090.0	1050.6	946.5	847.4	778.1	734.6	706.3	668.4	628.1	595.0
62.5°	924.0	963.7	940.3	856.3	764.2	704.6	666.1	639.9	611.7	576.5	542.2
65°	761.9	787.7	776.5	718.4	653.1	602.3	566.8	547.4	521.7	495.8	465.2
67.5°	583.6	633.4	626.8	596.0	539.6	499.9	476.7	459.6	436.1	416.9	396.1
70°	479.8	525.7	524.9	499.9	469.3	432.1	416.1	401.5	380.5	362.0	345.1
72.5°	392.6	434.7	441.0	421.8	400.9	372.8	357.4	347.4	327.0	314.3	300.5
75°	275.0	305.6	313.7	313.7	304.0	289.4	275.8	269.3	254.8	243.5	235.4
77.5°	180.3	199.7	212.2	215.1	216.6	211.8	200.5	195.9	184.8	180.8	173.0
80°	127.3	140.3	154.8	159.7	163.7	162.1	157.2	154.0	143.5	139.5	136.2
82.5°	88.1	95.1	107.0	117.8	116.5	120.8	116.5	114.0	106.1	104.6	101.4
85°	45.9	46.8	48.4	55.6	59.7	61.3	62.1	60.5	58.1	58.1	52.4
87.5°	19.3	18.3	19.2	18.8	18.9	21.0	22.4	22.5	21.1	19.7	18.3
90°	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0	5.6	8.1	10.6
92.5°	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9	13.0	13.1	13.3
95°	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2	48.6	40.8	33.1
97.5°	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5	124.3	129.2	134.0
100°	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8	171.9	176.0	180.1
102.5°	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9	224.8	227.8	230.9
105°	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0	309.3	310.7	312.0
107.5°	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0	388.7	389.3	390.0
110°	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0	442.7	443.3	444.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4	495.6	496.9	498.1
115°	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0	575.7	576.4	577.0
117.5°	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6	648.5	649.4	650.4
120°	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8	697.7	698.6	699.5
122.5°	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7	743.2	743.7	744.3
125°	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3	809.2	810.1	811.0
127.5°	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5	870.7	871.0	871.2
130°	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6	910.9	911.1	911.3
132.5°	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5	947.9	948.3	948.7
135°	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7	1002.5	1002.3	1002.0
137.5°	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6	1051.7	1051.8	1051.9
140°	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6	1084.0	1084.5	1084.9
142.5°	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2	1113.0	1113.8	1114.7
145°	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2	1156.9	1157.5	1158.2
147.5°	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1	1192.4	1193.8	1195.0
150°	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6	1217.5	1218.4	1219.3
152.5°	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8	1238.6	1239.3	1240.0
155°	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7	1268.0	1268.2	1268.4
157.5°	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9	1292.7	1292.6	1292.4
160°	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6	1307.0	1306.3	1305.6
162.5°	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7	1319.9	1319.0	1318.1
165°	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3	1336.2	1335.0	1333.8
167.5°	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4	1349.2	1348.1	1346.9
170°	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8	1356.3	1355.0	1353.6
172.5°	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6	1361.3	1359.9	1358.6
175°	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0	1366.7	1365.2	1363.9
177.5°	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4	1369.2	1367.9	1366.7
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1965.1	1958.6	1950.3	1940.6	1928.9	1918.6	1914.1	1918.0	1920.0	1914.8	1914.1
5°	1905.2	1885.1	1869.0	1844.8	1825.4	1809.3	1798.1	1793.2	1794.8	1781.9	1778.7
7.5°	1838.1	1814.1	1787.7	1759.0	1732.2	1708.5	1696.1	1689.3	1675.7	1669.8	1660.0
10°	1794.8	1762.5	1736.8	1702.8	1672.2	1644.1	1630.3	1619.0	1605.3	1598.8	1585.2
12.5°	1750.3	1712.8	1684.5	1649.3	1618.0	1584.1	1570.9	1550.0	1528.5	1515.0	1497.4
15°	1687.6	1642.4	1607.7	1565.8	1528.7	1490.1	1455.3	1416.6	1402.1	1371.5	1353.7
17.5°	1614.2	1568.4	1525.5	1469.3	1412.0	1363.9	1327.0	1289.9	1267.7	1248.1	1239.1
20°	1565.8	1523.9	1464.2	1398.9	1335.2	1282.0	1252.1	1228.0	1203.8	1190.1	1180.4
22.5°	1520.0	1466.4	1397.1	1326.7	1262.9	1221.3	1196.1	1171.2	1151.5	1138.5	1125.6
25°	1443.3	1373.1	1299.7	1219.1	1175.6	1139.3	1111.9	1091.7	1079.6	1062.7	1056.2
27.5°	1364.4	1279.4	1198.5	1144.3	1098.9	1065.7	1041.9	1026.7	1011.4	1000.6	992.2
30°	1303.7	1217.5	1144.9	1093.3	1047.3	1020.0	1000.6	982.9	970.8	961.9	955.4
32.5°	1243.7	1157.5	1096.5	1041.1	1004.8	978.1	957.4	944.1	934.6	923.2	919.3
35°	1157.0	1080.5	1027.2	977.2	940.1	915.9	899.8	886.2	878.1	874.8	872.4
37.5°	1073.7	1010.9	953.7	912.7	879.7	860.6	841.6	834.9	829.3	823.5	826.2
40°	1020.8	961.9	911.1	867.6	840.9	820.0	808.7	800.6	795.8	795.8	795.8
42.5°	974.9	917.4	867.9	828.9	802.2	784.6	771.9	765.2	763.6	763.0	766.8
45°	903.8	850.6	800.6	768.4	745.8	728.1	720.8	715.2	715.2	718.4	719.2
47.5°	833.3	783.6	743.4	707.3	686.6	675.5	669.2	666.3	666.6	669.8	673.6
50°	790.1	740.9	701.5	669.2	649.8	639.3	633.7	632.2	633.7	633.7	639.3
52.5°	743.1	699.0	660.1	633.1	611.2	601.4	598.2	596.0	596.9	599.6	602.0
55°	674.1	634.5	597.4	571.7	555.5	549.1	541.8	542.6	541.0	542.6	542.6
57.5°	604.9	569.4	534.9	514.4	500.2	490.9	482.9	485.2	482.8	482.5	481.2
60°	560.4	521.7	494.2	475.7	459.6	451.5	444.2	445.9	443.4	441.8	438.6
62.5°	512.0	479.8	453.6	435.8	422.8	413.4	406.2	404.6	399.0	393.4	386.4
65°	441.8	415.3	391.8	375.0	362.8	355.6	349.9	345.1	333.0	320.1	313.7
67.5°	373.7	354.5	332.6	318.3	308.5	299.0	288.2	279.9	268.6	261.6	257.5
70°	329.7	311.2	292.7	278.9	268.5	259.6	247.5	241.9	233.8	230.6	226.6
72.5°	287.8	270.5	253.4	241.0	229.7	222.9	213.4	207.7	204.2	202.9	198.8
75°	224.2	210.5	197.5	186.2	177.4	172.6	168.5	164.5	162.9	155.6	151.6
77.5°	163.5	154.5	146.4	138.4	132.1	128.9	121.1	116.4	113.7	110.3	109.5
80°	127.3	121.0	112.9	108.1	99.2	95.9	92.7	91.9	91.1	90.3	89.5
82.5°	95.8	89.4	81.3	78.4	75.9	74.0	72.1	71.3	70.5	71.0	70.8
85°	48.4	45.1	45.1	44.3	43.5	42.7	41.9	41.9	41.1	41.9	41.1
87.5°	18.8	18.5	18.9	18.0	19.0	19.3	19.0	19.3	20.2	19.2	19.3
90°	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2	26.6	28.0	28.9
92.5°	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4	25.8	27.2	27.9
95°	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2	26.6	28.0	28.8
97.5°	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3	27.5	27.6	27.8
100°	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3	33.4	29.6	27.8
102.5°	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5	91.8	50.1	29.3
105°	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4	325.4	327.4	324.4
107.5°	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0	401.0	402.0	402.9
110°	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1	452.6	453.0	453.6



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6	502.5	502.4	502.8
115°	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9	578.5	578.9	579.2
117.5°	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8	653.8	653.7	653.6
120°	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7	701.3	701.7	701.7
122.5°	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1	747.3	747.6	747.5
125°	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7	812.4	813.0	813.5
127.5°	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0	875.9	875.7	875.6
130°	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1	915.4	915.6	915.7
132.5°	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6	953.9	954.1	954.1
135°	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7	1007.1	1007.6	1008.0
137.5°	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5	1058.0	1058.5	1058.7
140°	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0	1089.6	1090.4	1090.9
142.5°	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1	1118.6	1119.1	1119.3
145°	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7	1159.9	1160.1	1160.5
147.5°	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3	1196.4	1196.6	1196.8
150°	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6	1219.6	1219.6	1219.7
152.5°	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0	1240.3	1240.7	1240.8
155°	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5	1268.4	1269.3	1269.4
157.5°	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5
160°	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0
162.5°	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5	1319.9	1321.2	1321.2
165°	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8	1337.7	1339.5	1339.3
167.5°	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5	1350.5	1352.4	1352.3
170°	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2	1358.1	1359.9	1359.7
172.5°	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2	1363.0	1364.8	1364.5
175°	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0	1369.0	1371.1	1370.7
177.5°	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3	1370.7	1372.2	1371.8
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1910.3	1911.6	1907.0	1905.7	1907.0	1911.6	1910.3	1914.1	1914.8	1920.0	1918.0
5°	1772.2	1770.6	1766.6	1767.4	1766.6	1770.6	1772.2	1778.7	1781.9	1794.8	1793.2
7.5°	1654.2	1647.9	1649.6	1643.3	1649.6	1647.9	1654.2	1660.0	1669.8	1675.7	1689.3
10°	1582.0	1573.1	1565.8	1559.3	1565.8	1573.1	1582.0	1585.2	1598.8	1605.3	1619.0
12.5°	1483.3	1475.6	1465.8	1467.7	1465.8	1475.6	1483.3	1497.4	1515.0	1528.5	1550.0
15°	1343.2	1331.2	1311.8	1314.2	1311.8	1331.2	1343.2	1353.7	1371.5	1402.1	1416.6
17.5°	1224.8	1224.9	1216.1	1218.1	1216.1	1224.9	1224.8	1239.1	1248.1	1267.7	1289.9
20°	1163.5	1157.8	1158.6	1156.2	1158.6	1157.8	1163.5	1180.4	1190.1	1203.8	1228.0
22.5°	1120.8	1114.0	1108.3	1103.3	1108.3	1114.0	1120.8	1125.6	1138.5	1151.5	1171.2
25°	1048.9	1044.1	1036.9	1035.3	1036.9	1044.1	1048.9	1056.2	1062.7	1079.6	1091.7
27.5°	985.7	984.8	981.9	978.2	981.9	984.8	985.7	992.2	1000.6	1011.4	1026.7
30°	949.0	947.4	945.7	943.3	945.7	947.4	949.0	955.4	961.9	970.8	982.9
32.5°	916.1	915.1	913.5	913.7	913.5	915.1	916.1	919.3	923.2	934.6	944.1
35°	869.2	868.4	866.8	866.0	866.8	868.4	869.2	872.4	874.8	878.1	886.2
37.5°	825.4	827.4	826.5	826.3	826.5	827.4	825.4	826.2	823.5	829.3	834.9
40°	795.0	795.8	797.4	796.6	797.4	795.8	795.0	795.8	795.8	795.8	800.6
42.5°	769.8	770.0	772.2	769.5	772.2	770.0	769.8	766.8	763.0	763.6	765.2
45°	724.9	729.7	728.9	728.9	728.9	729.7	724.9	719.2	718.4	715.2	715.2
47.5°	675.7	679.8	681.0	680.9	681.0	679.8	675.7	673.6	669.8	666.6	666.3
50°	643.4	641.8	644.2	643.4	644.2	641.8	643.4	639.3	633.7	633.7	632.2
52.5°	604.1	604.4	604.2	603.4	604.2	604.4	604.1	602.0	599.6	596.9	596.0
55°	543.4	544.2	542.6	543.4	542.6	544.2	543.4	542.6	542.6	541.0	542.6
57.5°	477.7	473.7	475.3	473.4	475.3	473.7	477.7	481.2	482.5	482.8	485.2
60°	430.6	424.1	422.5	419.3	422.5	424.1	430.6	438.6	441.8	443.4	445.9
62.5°	377.7	373.1	367.7	370.2	367.7	373.1	377.7	386.4	393.4	399.0	404.6
65°	307.2	304.0	301.5	304.8	301.5	304.0	307.2	313.7	320.1	333.0	345.1
67.5°	254.3	252.6	252.6	251.0	252.6	252.6	254.3	257.5	261.6	268.6	279.9
70°	226.6	224.2	224.2	222.6	224.2	224.2	226.6	226.6	230.6	233.8	241.9
72.5°	198.1	195.8	196.4	195.4	196.4	195.8	198.1	198.8	202.9	204.2	207.7
75°	146.7	142.7	142.7	143.5	142.7	142.7	146.7	151.6	155.6	162.9	164.5
77.5°	109.5	108.7	109.8	108.4	109.8	108.7	109.5	109.5	110.3	113.7	116.4
80°	89.5	88.7	87.9	90.3	87.9	88.7	89.5	89.5	90.3	91.1	91.9
82.5°	69.5	69.4	69.2	72.2	69.2	69.4	69.5	70.8	71.0	70.5	71.3
85°	41.9	40.3	41.9	40.3	41.9	40.3	41.9	41.1	41.9	41.1	41.9
87.5°	20.7	20.2	19.6	20.3	19.6	20.2	20.7	19.3	19.2	20.2	19.3
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2
92.5°	28.0	28.1	28.2	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4
95°	29.0	29.2	29.5	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2
97.5°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3
100°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3
102.5°	29.3	29.4	29.4	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5
105°	316.2	308.0	299.8	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4
107.5°	403.8	404.7	405.6	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0
110°	454.3	454.9	455.7	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	503.7	504.5	505.4	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6
115°	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9
117.5°	653.5	653.4	653.3	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8
120°	701.3	700.7	700.3	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7
122.5°	747.1	746.6	746.2	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1
125°	813.7	814.0	814.3	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7
127.5°	875.4	875.1	874.9	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0
130°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1
132.5°	953.9	953.7	953.6	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6
135°	1008.6	1009.0	1009.5	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7
137.5°	1058.5	1058.4	1058.3	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5
140°	1091.1	1091.3	1091.5	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0
142.5°	1119.4	1119.4	1119.5	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1
145°	1160.9	1161.4	1161.8	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7
147.5°	1197.1	1197.3	1197.5	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3
150°	1219.9	1220.2	1220.4	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6
152.5°	1240.7	1240.5	1240.4	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0
155°	1268.7	1268.1	1267.4	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5
157.5°	1292.3	1291.1	1290.0	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1
160°	1307.6	1306.3	1304.8	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3
162.5°	1319.6	1318.1	1316.6	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5
165°	1337.3	1335.2	1333.2	1331.1	1333.2	1335.2	1337.3	1339.3	1339.5	1337.7	1335.8
167.5°	1350.1	1347.8	1345.5	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5
170°	1357.4	1355.1	1352.8	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2
172.5°	1362.0	1359.6	1357.2	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2
175°	1368.0	1365.2	1362.5	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0
177.5°	1369.6	1367.5	1365.2	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1914.1	1918.6	1928.9	1940.6	1950.3	1958.6	1965.1	1974.1	1982.5	1994.1	2005.1
5°	1798.1	1809.3	1825.4	1844.8	1869.0	1885.1	1905.2	1923.0	1948.8	1974.6	1999.6
7.5°	1696.1	1708.5	1732.2	1759.0	1787.7	1814.1	1838.1	1869.3	1903.5	1941.1	1983.0
10°	1630.3	1644.1	1672.2	1702.8	1736.8	1762.5	1794.8	1831.9	1870.6	1916.5	1968.1
12.5°	1570.9	1584.1	1618.0	1649.3	1684.5	1712.8	1750.3	1788.1	1839.7	1889.5	1948.1
15°	1455.3	1490.1	1528.7	1565.8	1607.7	1642.4	1687.6	1726.3	1775.4	1845.6	1912.5
17.5°	1327.0	1363.9	1412.0	1469.3	1525.5	1568.4	1614.2	1662.2	1720.8	1792.4	1869.7
20°	1252.1	1282.0	1335.2	1398.9	1464.2	1523.9	1565.8	1619.0	1679.5	1756.9	1836.7
22.5°	1196.1	1221.3	1262.9	1326.7	1397.1	1466.4	1520.0	1572.6	1639.5	1716.9	1803.8
25°	1111.9	1139.3	1175.6	1219.1	1299.7	1373.1	1443.3	1503.7	1574.7	1652.0	1748.8
27.5°	1041.9	1065.7	1098.9	1144.3	1198.5	1279.4	1364.4	1433.4	1506.1	1589.2	1686.1
30°	1000.6	1020.0	1047.3	1093.3	1144.9	1217.5	1303.7	1384.4	1457.7	1544.1	1644.9
32.5°	957.4	978.1	1004.8	1041.1	1096.5	1157.5	1243.7	1332.1	1410.1	1498.2	1597.1
35°	899.8	915.9	940.1	977.2	1027.2	1080.5	1157.0	1248.1	1330.4	1424.7	1519.0
37.5°	841.6	860.6	879.7	912.7	953.7	1010.9	1073.7	1166.7	1257.8	1343.9	1436.0
40°	808.7	820.0	840.9	867.6	911.1	961.9	1020.8	1111.9	1203.0	1288.5	1381.2
42.5°	771.9	784.6	802.2	828.9	867.9	917.4	974.9	1053.8	1148.8	1231.7	1316.1
45°	720.8	728.1	745.8	768.4	800.6	850.6	903.8	974.0	1063.5	1142.5	1216.7
47.5°	669.2	675.5	686.6	707.3	743.4	783.6	833.3	896.3	974.8	1053.8	1116.5
50°	633.7	639.3	649.8	669.2	701.5	740.9	790.1	846.6	916.8	992.5	1044.9
52.5°	598.2	601.4	611.2	633.1	660.1	699.0	743.1	795.0	860.6	923.5	976.5
55°	541.8	549.1	555.5	571.7	597.4	634.5	674.1	723.3	774.1	827.3	872.4
57.5°	482.9	490.9	500.2	514.4	534.9	569.4	604.9	644.7	688.1	732.3	770.1
60°	444.2	451.5	459.6	475.7	494.2	521.7	560.4	595.0	628.1	668.4	706.3
62.5°	406.2	413.4	422.8	435.8	453.6	479.8	512.0	542.2	576.5	611.7	639.9
65°	349.9	355.6	362.8	375.0	391.8	415.3	441.8	465.2	495.8	521.7	547.4
67.5°	288.2	299.0	308.5	318.3	332.6	354.5	373.7	396.1	416.9	436.1	459.6
70°	247.5	259.6	268.5	278.9	292.7	311.2	329.7	345.1	362.0	380.5	401.5
72.5°	213.4	222.9	229.7	241.0	253.4	270.5	287.8	300.5	314.3	327.0	347.4
75°	168.5	172.6	177.4	186.2	197.5	210.5	224.2	235.4	243.5	254.8	269.3
77.5°	121.1	128.9	132.1	138.4	146.4	154.5	163.5	173.0	180.8	184.8	195.9
80°	92.7	95.9	99.2	108.1	112.9	121.0	127.3	136.2	139.5	143.5	154.0
82.5°	72.1	74.0	75.9	78.4	81.3	89.4	95.8	101.4	104.6	106.1	114.0
85°	41.9	42.7	43.5	44.3	45.1	45.1	48.4	52.4	58.1	58.1	60.5
87.5°	19.0	19.3	19.0	18.0	18.9	18.5	18.8	18.3	19.7	21.1	22.5
90°	23.8	22.5	20.7	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0
92.5°	23.0	21.7	19.9	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9
95°	23.8	22.5	22.3	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2
97.5°	27.2	27.0	52.4	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5
100°	41.2	45.0	76.4	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8
102.5°	175.2	216.9	221.0	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9
105°	321.2	319.2	318.1	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0
107.5°	399.0	398.0	396.5	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0
110°	451.7	451.2	449.9	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	502.7	502.8	502.1	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4
115°	577.5	577.0	577.3	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0
117.5°	653.9	654.0	653.5	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6
120°	700.3	699.8	700.0	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8
122.5°	746.8	746.5	746.2	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7
125°	811.0	810.3	810.8	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3
127.5°	876.2	876.3	875.1	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5
130°	914.9	914.7	914.0	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6
132.5°	953.4	953.2	952.3	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5
135°	1006.2	1005.8	1004.9	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7
137.5°	1057.0	1056.5	1055.5	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6
140°	1088.3	1087.6	1087.2	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6
142.5°	1117.6	1117.1	1116.8	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2
145°	1159.5	1159.2	1159.2	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2
147.5°	1196.1	1195.9	1196.1	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1
150°	1219.6	1219.6	1219.8	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6
152.5°	1239.6	1239.3	1239.7	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8
155°	1266.6	1265.7	1266.4	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7
157.5°	1290.0	1288.8	1289.6	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9
160°	1304.8	1303.5	1303.7	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6
162.5°	1317.2	1315.8	1316.1	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7
165°	1334.0	1332.2	1332.2	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3
167.5°	1346.5	1344.4	1344.6	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4
170°	1354.4	1352.6	1352.4	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8
172.5°	1359.4	1357.6	1357.4	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6
175°	1364.9	1362.9	1362.6	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0
177.5°	1367.8	1366.3	1365.9	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2013.5	2019.2	2025.7	2038.0	2048.3	2052.9	2061.8	2068.3	2066.4	2075.4	2090.8
5°	2021.3	2043.2	2068.1	2094.0	2122.9	2147.2	2166.5	2185.9	2201.2	2219.7	2247.2
7.5°	2020.0	2058.8	2100.8	2147.2	2194.7	2235.8	2273.9	2312.6	2346.9	2384.5	2433.7
10°	2014.9	2066.5	2118.9	2179.4	2239.9	2297.1	2348.7	2397.1	2443.1	2492.2	2554.4
12.5°	2009.1	2068.4	2131.8	2204.5	2279.9	2348.7	2409.3	2479.0	2536.6	2600.0	2671.7
15°	1983.5	2063.3	2149.6	2243.9	2334.2	2426.9	2509.9	2595.5	2675.2	2751.1	2841.4
17.5°	1954.1	2046.2	2148.0	2259.4	2367.9	2480.6	2579.2	2686.8	2768.4	2870.2	2954.1
20°	1930.3	2029.4	2138.3	2263.2	2386.6	2511.5	2620.4	2730.1	2822.0	2924.4	3030.8
22.5°	1901.2	2010.0	2128.0	2257.5	2386.6	2523.1	2643.6	2752.7	2866.5	2981.8	3091.5
25°	1854.4	1967.3	2092.3	2234.2	2382.6	2522.0	2651.1	2786.5	2909.1	3034.0	3132.4
27.5°	1797.1	1915.6	2047.3	2193.7	2346.0	2488.8	2640.8	2785.1	2908.4	3028.7	3114.5
30°	1751.2	1876.2	2002.8	2151.2	2309.2	2462.4	2625.2	2769.6	2899.4	3007.5	3055.9
32.5°	1704.1	1822.7	1953.2	2103.4	2265.3	2430.1	2591.7	2739.3	2859.4	2924.3	2925.5
35°	1622.2	1733.5	1869.0	2016.5	2182.6	2361.6	2525.3	2670.4	2743.8	2749.5	2670.4
37.5°	1532.9	1635.0	1762.8	1910.6	2092.4	2270.5	2437.7	2534.5	2559.0	2476.9	2330.8
40°	1469.1	1563.4	1686.8	1838.4	2018.9	2202.8	2355.2	2426.1	2400.3	2267.2	2104.4
42.5°	1402.0	1489.9	1608.7	1758.4	1939.6	2125.4	2255.2	2293.2	2224.8	2071.2	1880.6
45°	1292.5	1373.1	1490.9	1641.6	1815.7	1989.9	2088.3	2068.9	1955.2	1773.0	1559.3
47.5°	1178.5	1256.4	1362.3	1501.8	1680.1	1830.4	1897.0	1838.7	1676.9	1476.4	1302.6
50°	1103.0	1182.9	1280.4	1413.4	1576.3	1721.4	1764.1	1675.5	1495.6	1302.9	1143.3
52.5°	1028.9	1097.0	1192.7	1321.2	1476.9	1599.5	1622.2	1520.0	1334.4	1161.6	1020.1
55°	915.9	978.1	1058.6	1179.6	1314.2	1418.3	1406.1	1274.8	1106.2	958.7	847.4
57.5°	806.8	853.5	928.1	1041.4	1159.6	1229.4	1185.3	1073.2	916.1	795.4	701.5
60°	734.6	778.1	847.4	946.5	1050.6	1090.0	1053.0	931.3	807.1	696.6	617.6
62.5°	666.1	704.6	764.2	856.3	940.3	963.7	924.0	817.7	705.8	611.5	546.0
65°	566.8	602.3	653.1	718.4	776.5	787.7	761.9	653.1	568.5	489.4	444.2
67.5°	476.7	499.9	539.6	596.0	626.8	633.4	583.6	515.2	440.6	392.0	358.0
70°	416.1	432.1	469.3	499.9	524.9	525.7	479.8	425.0	367.7	328.2	303.2
72.5°	357.4	372.8	400.9	421.8	441.0	434.7	392.6	349.4	303.2	273.4	254.8
75°	275.8	289.4	304.0	313.7	313.7	305.6	275.0	242.7	216.1	198.3	192.7
77.5°	200.5	211.8	216.6	215.1	212.2	199.7	180.3	159.2	149.7	141.3	137.0
80°	157.2	162.1	163.7	159.7	154.8	140.3	127.3	118.6	109.7	106.4	104.8
82.5°	116.5	120.8	116.5	117.8	107.0	95.1	88.1	85.0	81.3	80.0	78.4
85°	62.1	61.3	59.7	55.6	48.4	46.8	45.9	45.1	43.5	44.3	42.7
87.5°	22.4	21.0	18.9	18.8	19.2	18.3	19.3	19.6	20.0	19.6	21.2
90°	5.6	8.1	10.6	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2
92.5°	13.0	13.1	13.3	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4
95°	48.6	40.8	33.1	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2
97.5°	124.3	129.2	134.0	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3
100°	171.9	176.0	180.1	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3
102.5°	224.8	227.8	230.9	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5
105°	309.3	310.7	312.0	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4
107.5°	388.7	389.3	390.0	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0
110°	442.7	443.3	444.0	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	495.6	496.9	498.1	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6
115°	575.7	576.4	577.0	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9
117.5°	648.5	649.4	650.4	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8
120°	697.7	698.6	699.5	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7
122.5°	743.2	743.7	744.3	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1
125°	809.2	810.1	811.0	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7
127.5°	870.7	871.0	871.2	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0
130°	910.9	911.1	911.3	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1
132.5°	947.9	948.3	948.7	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6
135°	1002.5	1002.3	1002.0	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7
137.5°	1051.7	1051.8	1051.9	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5
140°	1084.0	1084.5	1084.9	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0
142.5°	1113.0	1113.8	1114.7	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1
145°	1156.9	1157.5	1158.2	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7
147.5°	1192.4	1193.8	1195.0	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3
150°	1217.5	1218.4	1219.3	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6
152.5°	1238.6	1239.3	1240.0	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0
155°	1268.0	1268.2	1268.4	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5
157.5°	1292.7	1292.6	1292.4	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1
160°	1307.0	1306.3	1305.6	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3
162.5°	1319.9	1319.0	1318.1	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5
165°	1336.2	1335.0	1333.8	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8
167.5°	1349.2	1348.1	1346.9	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5
170°	1356.3	1355.0	1353.6	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2
172.5°	1361.3	1359.9	1358.6	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2
175°	1366.7	1365.2	1363.9	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0
177.5°	1369.2	1367.9	1366.7	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2099.2	2101.8	2103.8	2110.2	2110.8	2116.7	2110.8
5°	2272.9	2284.2	2302.0	2319.7	2321.3	2332.6	2312.4
7.5°	2467.7	2493.9	2510.1	2538.8	2550.1	2557.2	2545.6
10°	2601.9	2626.1	2668.8	2689.8	2710.8	2713.9	2704.3
12.5°	2731.6	2770.0	2803.6	2843.3	2842.4	2870.7	2860.3
15°	2904.3	2943.8	2990.5	3034.8	3051.0	3051.0	3063.9
17.5°	3027.5	3099.9	3148.3	3183.1	3221.1	3227.7	3223.2
20°	3110.7	3188.9	3240.5	3285.6	3311.4	3318.7	3318.7
22.5°	3172.6	3239.1	3289.5	3330.1	3351.4	3359.9	3357.4
25°	3215.5	3272.7	3303.4	3315.5	3321.0	3319.5	3304.2
27.5°	3156.7	3154.2	3134.8	3097.8	3069.9	3052.9	3033.5
30°	3044.5	3002.6	2954.3	2901.0	2832.5	2780.1	2763.9
32.5°	2877.5	2783.3	2701.4	2612.7	2539.0	2486.6	2464.7
35°	2554.4	2405.2	2283.4	2177.0	2099.6	2051.2	2035.1
37.5°	2170.8	2026.5	1875.7	1772.5	1708.4	1659.5	1641.2
40°	1927.0	1769.8	1638.4	1541.7	1475.5	1427.9	1427.1
42.5°	1704.5	1554.4	1430.7	1361.0	1289.7	1258.3	1258.1
45°	1395.6	1275.6	1170.7	1115.9	1073.2	1047.3	1040.1
47.5°	1155.6	1056.2	986.4	942.7	907.9	891.4	880.8
50°	1020.8	933.7	878.1	840.1	820.8	799.8	798.2
52.5°	908.5	838.2	794.9	764.1	739.5	726.9	727.3
55°	763.6	707.9	677.3	653.9	634.5	624.9	620.9
57.5°	643.3	601.5	579.3	557.7	549.6	542.0	539.9
60°	568.5	540.2	519.3	502.3	490.2	487.8	487.0
62.5°	506.5	477.0	462.5	449.4	440.6	436.9	435.4
65°	417.7	395.9	382.9	372.5	369.3	363.7	362.8
67.5°	336.7	323.7	315.1	307.8	303.5	303.2	303.2
70°	287.0	279.7	272.6	268.5	266.1	264.5	264.5
72.5°	244.5	239.1	233.2	231.1	230.6	228.9	228.3
75°	186.2	180.6	181.4	177.4	174.2	170.2	167.7
77.5°	132.1	128.1	127.2	126.7	124.0	123.5	124.8
80°	102.4	98.4	97.6	98.4	97.6	95.1	95.1
82.5°	77.9	74.5	73.7	73.2	72.4	73.2	71.9
85°	41.9	40.3	40.3	40.3	41.9	41.1	40.3
87.5°	20.2	19.8	20.6	20.1	20.2	19.6	20.3
90°	26.6	28.0	28.9	29.3	29.8	30.2	30.7
92.5°	25.8	27.2	27.9	28.0	28.1	28.2	28.3
95°	26.6	28.0	28.8	29.0	29.2	29.5	29.7
97.5°	27.5	27.6	27.8	28.0	28.2	28.4	28.7
100°	33.4	29.6	27.8	28.0	28.2	28.4	28.7
102.5°	91.8	50.1	29.3	29.3	29.4	29.4	29.5
105°	325.4	327.4	324.4	316.2	308.0	299.8	291.6
107.5°	401.0	402.0	402.9	403.8	404.7	405.6	406.4
110°	452.6	453.0	453.6	454.3	454.9	455.7	456.4



TEST NUMBER: P333103-840

CATALOG NUMBER: S124RDIW-S1195D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.5	502.4	502.8	503.7	504.5	505.4	506.2
115°	578.5	578.9	579.2	579.2	579.2	579.2	579.2
117.5°	653.8	653.7	653.6	653.5	653.4	653.3	653.2
120°	701.3	701.7	701.7	701.3	700.7	700.3	699.8
122.5°	747.3	747.6	747.5	747.1	746.6	746.2	745.7
125°	812.4	813.0	813.5	813.7	814.0	814.3	814.5
127.5°	875.9	875.7	875.6	875.4	875.1	874.9	874.8
130°	915.4	915.6	915.7	915.7	915.7	915.7	915.7
132.5°	953.9	954.1	954.1	953.9	953.7	953.6	953.4
135°	1007.1	1007.6	1008.0	1008.6	1009.0	1009.5	1009.9
137.5°	1058.0	1058.5	1058.7	1058.5	1058.4	1058.3	1058.1
140°	1089.6	1090.4	1090.9	1091.1	1091.3	1091.5	1091.8
142.5°	1118.6	1119.1	1119.3	1119.4	1119.4	1119.5	1119.5
145°	1159.9	1160.1	1160.5	1160.9	1161.4	1161.8	1162.4
147.5°	1196.4	1196.6	1196.8	1197.1	1197.3	1197.5	1197.7
150°	1219.6	1219.6	1219.7	1219.9	1220.2	1220.4	1220.6
152.5°	1240.3	1240.7	1240.8	1240.7	1240.5	1240.4	1240.3
155°	1268.4	1269.3	1269.4	1268.7	1268.1	1267.4	1266.7
157.5°	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8
160°	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5
162.5°	1319.9	1321.2	1321.2	1319.6	1318.1	1316.6	1314.9
165°	1337.7	1339.5	1339.3	1337.3	1335.2	1333.2	1331.1
167.5°	1350.5	1352.4	1352.3	1350.1	1347.8	1345.5	1343.2
170°	1358.1	1359.9	1359.7	1357.4	1355.1	1352.8	1350.6
172.5°	1363.0	1364.8	1364.5	1362.0	1359.6	1357.2	1354.6
175°	1369.0	1371.1	1370.7	1368.0	1365.2	1362.5	1359.8
177.5°	1370.7	1372.2	1371.8	1369.6	1367.5	1365.2	1363.1
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0

(END OF REPORT)