

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: P331838-840

Luminaire Tested: **S122RDIW-S865D1240U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331838-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D1240U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7677.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

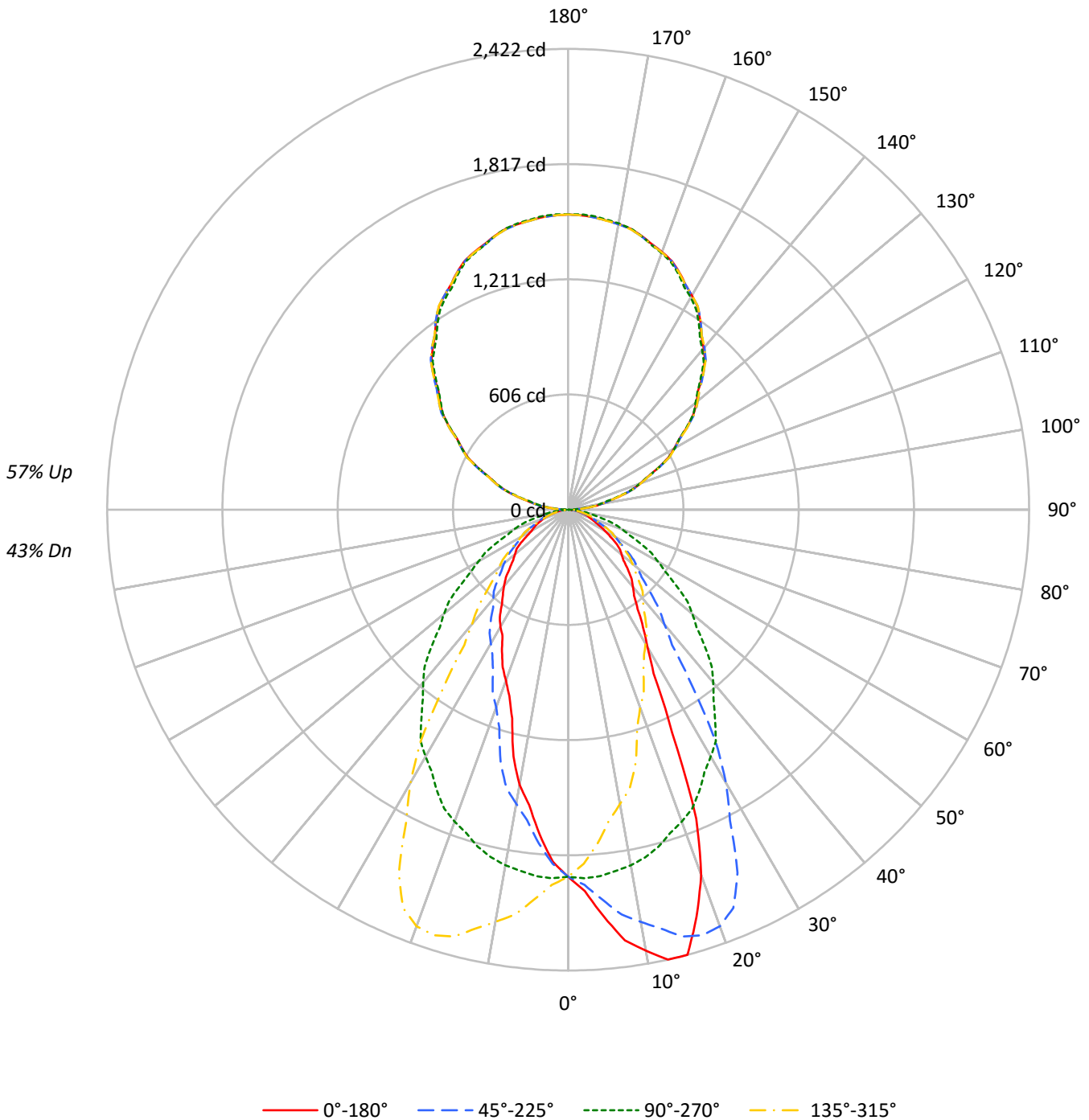
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	45	44	44	38				
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33				
3	82	73	66	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29				
4	75	65	57	52	68	60	53	48	50	46	42	42	38	35	33	31	29	25				
5	69	58	50	45	63	54	47	42	45	40	37	38	34	31	30	28	26	23				
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20				
7	59	48	40	35	54	44	37	33	38	33	29	32	28	25	26	23	21	18				
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17				
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15				
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.4
10°-20°	509.4	6.6
20°-30°	656.4	8.5
30°-40°	623.8	8.1
40°-50°	534.4	7.0
50°-60°	406.9	5.3
60°-70°	257.2	3.4
70°-80°	128.5	1.7
80°-90°	39.6	0.5
90°-100°	98.3	1.3
100°-110°	305.4	4.0
110°-120°	522.0	6.8
120°-130°	686.4	8.9
130°-140°	770.4	10.0
140°-150°	755.4	9.8
150°-160°	633.6	8.3
160°-170°	420.3	5.5
170°-180°	146.9	1.9
0°-30°	1348.5	17.6
0°-40°	1972.3	25.7
0°-60°	2913.6	37.9
0°-90°	3338.9	43.5
90°-120°	925.7	12.1
90°-150°	3138.0	40.9
90°-180°	4339.0	56.5
0°-180°	7677.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	44	1	44	1	44	20
95°	81	68	81	68	81	91
105°	291	282	291	282	291	306
115°	524	524	524	524	524	517
125°	765	762	765	762	765	682
135°	998	986	998	986	998	768
145°	1210	1197	1210	1197	1210	756
155°	1379	1368	1379	1368	1379	635
165°	1490	1489	1490	1489	1490	420
175°	1544	1549	1544	1549	1544	147
180°	1552	1552	1552	1552	1552	



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	17.5	18.0	17.9	17.9	17.8	17.8	18.0	18.6	18.2	18.8	17.0
90°	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6	45.2	45.8	39.4
92.5°	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9	41.7	41.6	40.1
95°	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8	83.8	83.8	83.2
97.5°	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9	140.9	140.9	139.8
100°	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7	180.7	180.7	179.9
102.5°	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1	223.9	223.7	222.6
105°	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2	288.6	288.1	287.5
107.5°	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5	359.3	359.0	359.0
110°	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3	407.3	407.3	407.3



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0	455.8	456.5	456.7
115°	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5	528.8	529.0	529.6
117.5°	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4	600.1	600.8	602.4
120°	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8	646.8	646.8	649.1
122.5°	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8	696.4	697.1	698.7
125°	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2	769.1	769.9	770.8
127.5°	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6	839.6	840.6	841.7
130°	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7	887.2	887.8	888.4
132.5°	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4	934.7	935.9	935.8
135°	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5	1002.7	1003.0	1002.5
137.5°	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5	1068.8	1069.0	1068.2
140°	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0	1113.0	1113.0	1111.6
142.5°	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3	1153.1	1152.9	1151.9
145°	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5	1214.2	1213.9	1212.1
147.5°	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0	1267.4	1266.8	1265.6
150°	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3	1299.1
152.5°	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8	1332.4
155°	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2	1377.7	1376.2	1375.3
157.5°	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0	1416.9	1415.0	1414.4
160°	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6	1440.8	1439.1	1438.8
162.5°	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0	1462.0	1460.1	1459.8
165°	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6	1489.6	1487.5	1487.5
167.5°	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4	1512.4	1510.3	1510.4
170°	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9	1524.9	1522.9	1523.2
172.5°	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4	1534.4	1532.3	1532.6
175°	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6	1544.6	1542.5	1543.1
177.5°	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5	1549.0
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	15.8	14.9	13.7	12.1	12.0	11.8	13.8	15.9	14.3	13.4	13.1
90°	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3	4.8	8.3	11.8
92.5°	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3	25.9	28.5	31.0
95°	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1	71.0	73.9	76.9
97.5°	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4	126.9	129.6	132.1
100°	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3	168.6	171.0	173.3
102.5°	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3	212.2	214.0	215.9
105°	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6	282.4	283.3	284.2
107.5°	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3	354.6	355.9	357.1
110°	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4	401.1	402.8	404.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7	451.4	453.1	454.9
115°	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8	525.5	527.3	529.0
117.5°	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6	600.0	602.3	604.6
120°	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	649.1	651.6	653.9
122.5°	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9	694.7	697.5	700.2
125°	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0	764.7	767.3	769.9
127.5°	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4	833.7	837.1	840.4
130°	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4	877.2	881.0	884.7
132.5°	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6	924.6	927.8	930.8
135°	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0	989.2	992.4	995.6
137.5°	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8	1056.4	1059.0	1061.7
140°	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7	1097.3	1099.9	1102.6
142.5°	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6	1139.2	1141.9	1144.5
145°	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8	1198.9	1200.9	1203.0
147.5°	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5	1252.9	1255.4	1257.9
150°	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2	1288.9	1290.7	1292.4
152.5°	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7	1321.4	1323.1	1324.8
155°	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4	1369.3	1370.1	1371.0
157.5°	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0	1410.6	1411.2	1411.8
160°	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1	1435.7	1436.3	1436.9
162.5°	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1	1458.3	1458.4	1458.5
165°	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8	1488.5	1488.2	1487.9
167.5°	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5	1513.6	1512.8	1511.9
170°	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1	1527.2	1526.4	1525.5
172.5°	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5	1536.7	1535.8	1534.9
175°	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0	1548.2	1547.3	1546.4
177.5°	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8	1553.1	1552.4	1551.7
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	13.2	13.7	13.9	15.1	16.5	17.2	17.1	16.5	16.4	16.2	15.7
90°	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6	44.1	43.5	43.3
92.5°	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9	42.0	42.1	42.2
95°	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8	83.8	83.8	83.5
97.5°	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9	140.9	140.9	140.9
100°	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7	180.7	180.7	180.6
102.5°	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1	224.4	224.6	224.6
105°	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2	289.8	290.4	290.7
107.5°	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5	359.7	360.0	359.4
110°	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	406.8



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0	454.3	453.6	453.0
115°	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5	528.2	527.9	527.3
117.5°	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4	598.6	597.9	597.2
120°	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8	646.8	646.8	646.4
122.5°	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8	695.1	694.4	693.7
125°	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2	767.3	766.5	765.9
127.5°	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6	837.5	836.5	835.5
130°	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7	886.1	885.4	884.6
132.5°	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4	932.1	930.9	929.8
135°	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5	1002.2	1001.9	1001.3
137.5°	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5	1068.3	1068.1	1067.4
140°	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0	1113.0	1113.0	1112.5
142.5°	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3	1153.6	1153.8	1153.3
145°	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5	1214.8	1215.0	1214.6
147.5°	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0	1268.7	1269.3	1269.1
150°	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7
152.5°	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2
155°	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2	1380.6	1382.0	1382.3
157.5°	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0	1420.9	1422.9	1423.2
160°	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6	1444.3	1446.0	1446.3
162.5°	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0	1465.9	1467.9	1468.2
165°	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6	1493.6	1495.7	1495.9
167.5°	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4	1516.4	1518.4	1518.7
170°	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9	1528.9	1531.1	1531.2
172.5°	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4	1538.4	1540.4	1540.5
175°	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6	1548.6	1550.6	1550.8
177.5°	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	15.7	15.2	15.9	15.3	15.9	15.2	15.7	15.7	16.2	16.4	16.5
90°	43.6	43.9	44.2	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6
92.5°	42.2	42.3	42.4	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9
95°	82.9	82.3	81.8	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8
97.5°	140.8	140.8	140.7	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9
100°	180.3	180.0	179.7	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7
102.5°	224.3	224.0	223.7	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1
105°	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2
107.5°	358.1	356.8	355.4	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5
110°	406.0	405.1	404.1	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	452.3	451.7	451.1	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0
115°	526.4	525.5	524.6	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5
117.5°	596.3	595.4	594.6	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4
120°	645.5	644.7	643.8	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8
122.5°	693.1	692.4	691.8	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8
125°	765.6	765.3	765.0	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2
127.5°	834.6	833.6	832.7	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6
130°	883.4	882.3	881.1	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7
132.5°	928.9	927.9	927.0	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4
135°	1000.4	999.6	998.7	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5
137.5°	1066.2	1065.1	1063.9	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5
140°	1111.3	1110.1	1108.9	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0
142.5°	1152.2	1150.9	1149.8	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3
145°	1213.5	1212.2	1211.1	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5
147.5°	1268.0	1266.9	1265.8	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0
150°	1302.9	1302.0	1301.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0
152.5°	1337.1	1336.1	1334.9	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1
155°	1381.5	1380.6	1379.7	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2
157.5°	1421.8	1420.4	1419.0	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0
160°	1445.2	1444.0	1442.9	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6
162.5°	1466.8	1465.4	1464.0	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0
165°	1494.5	1493.1	1491.6	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6
167.5°	1517.2	1515.7	1514.2	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4
170°	1529.4	1527.7	1525.9	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9
172.5°	1538.8	1537.1	1535.4	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4
175°	1549.0	1547.3	1545.6	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6
177.5°	1552.8	1551.4	1549.9	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	17.1	17.2	16.5	15.1	13.9	13.7	13.2	13.1	13.4	14.3	15.9
90°	45.2	45.8	39.4	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3
92.5°	41.7	41.6	40.1	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3
95°	83.8	83.8	83.2	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1
97.5°	140.9	140.9	139.8	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4
100°	180.7	180.7	179.9	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3
102.5°	223.9	223.7	222.6	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3
105°	288.6	288.1	287.5	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6
107.5°	359.3	359.0	359.0	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3
110°	407.3	407.3	407.3	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	455.8	456.5	456.7	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7
115°	528.8	529.0	529.6	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8
117.5°	600.1	600.8	602.4	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6
120°	646.8	646.8	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8
122.5°	696.4	697.1	698.7	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9
125°	769.1	769.9	770.8	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0
127.5°	839.6	840.6	841.7	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4
130°	887.2	887.8	888.4	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4
132.5°	934.7	935.9	935.8	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6
135°	1002.7	1003.0	1002.5	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0
137.5°	1068.8	1069.0	1068.2	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8
140°	1113.0	1113.0	1111.6	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7
142.5°	1153.1	1152.9	1151.9	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6
145°	1214.2	1213.9	1212.1	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8
147.5°	1267.4	1266.8	1265.6	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5
150°	1301.1	1300.3	1299.1	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2
152.5°	1334.9	1333.8	1332.4	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7
155°	1377.7	1376.2	1375.3	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4
157.5°	1416.9	1415.0	1414.4	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0
160°	1440.8	1439.1	1438.8	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1
162.5°	1462.0	1460.1	1459.8	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1
165°	1489.6	1487.5	1487.5	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8
167.5°	1512.4	1510.3	1510.4	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5
170°	1524.9	1522.9	1523.2	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1
172.5°	1534.4	1532.3	1532.6	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5
175°	1544.6	1542.5	1543.1	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0
177.5°	1549.9	1548.5	1549.0	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.8	11.8	12.0	12.1	13.7	14.9	15.8	17.0	18.8	18.2	18.6
90°	4.8	8.3	11.8	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6
92.5°	25.9	28.5	31.0	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9
95°	71.0	73.9	76.9	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8
97.5°	126.9	129.6	132.1	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9
100°	168.6	171.0	173.3	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7
102.5°	212.2	214.0	215.9	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1
105°	282.4	283.3	284.2	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2
107.5°	354.6	355.9	357.1	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5
110°	401.1	402.8	404.7	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	451.4	453.1	454.9	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0
115°	525.5	527.3	529.0	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5
117.5°	600.0	602.3	604.6	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4
120°	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8
122.5°	694.7	697.5	700.2	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8
125°	764.7	767.3	769.9	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2
127.5°	833.7	837.1	840.4	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6
130°	877.2	881.0	884.7	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7
132.5°	924.6	927.8	930.8	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4
135°	989.2	992.4	995.6	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5
137.5°	1056.4	1059.0	1061.7	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5
140°	1097.3	1099.9	1102.6	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0
142.5°	1139.2	1141.9	1144.5	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3
145°	1198.9	1200.9	1203.0	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5
147.5°	1252.9	1255.4	1257.9	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0
150°	1288.9	1290.7	1292.4	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0
152.5°	1321.4	1323.1	1324.8	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1
155°	1369.3	1370.1	1371.0	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2
157.5°	1410.6	1411.2	1411.8	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0
160°	1435.7	1436.3	1436.9	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6
162.5°	1458.3	1458.4	1458.5	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0
165°	1488.5	1488.2	1487.9	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6
167.5°	1513.6	1512.8	1511.9	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4
170°	1527.2	1526.4	1525.5	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9
172.5°	1536.7	1535.8	1534.9	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4
175°	1548.2	1547.3	1546.4	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6
177.5°	1553.1	1552.4	1551.7	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	18.0	17.8	17.8	17.9	17.9	18.0	17.5
90°	44.1	43.5	43.3	43.6	43.9	44.2	44.5
92.5°	42.0	42.1	42.2	42.2	42.3	42.4	42.4
95°	83.8	83.8	83.5	82.9	82.3	81.8	81.2
97.5°	140.9	140.9	140.9	140.8	140.8	140.7	140.7
100°	180.7	180.7	180.6	180.3	180.0	179.7	179.4
102.5°	224.4	224.6	224.6	224.3	224.0	223.7	223.4
105°	289.8	290.4	290.7	290.7	290.7	290.7	290.7
107.5°	359.7	360.0	359.4	358.1	356.8	355.4	354.1
110°	407.3	407.3	406.8	406.0	405.1	404.1	403.3



TEST NUMBER: P331838-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.3	453.6	453.0	452.3	451.7	451.1	450.4
115°	528.2	527.9	527.3	526.4	525.5	524.6	523.8
117.5°	598.6	597.9	597.2	596.3	595.4	594.6	593.7
120°	646.8	646.8	646.4	645.5	644.7	643.8	643.0
122.5°	695.1	694.4	693.7	693.1	692.4	691.8	691.2
125°	767.3	766.5	765.9	765.6	765.3	765.0	764.7
127.5°	837.5	836.5	835.5	834.6	833.6	832.7	831.7
130°	886.1	885.4	884.6	883.4	882.3	881.1	879.9
132.5°	932.1	930.9	929.8	928.9	927.9	927.0	926.0
135°	1002.2	1001.9	1001.3	1000.4	999.6	998.7	997.7
137.5°	1068.3	1068.1	1067.4	1066.2	1065.1	1063.9	1062.8
140°	1113.0	1113.0	1112.5	1111.3	1110.1	1108.9	1107.8
142.5°	1153.6	1153.8	1153.3	1152.2	1150.9	1149.8	1148.6
145°	1214.8	1215.0	1214.6	1213.5	1212.2	1211.1	1209.9
147.5°	1268.7	1269.3	1269.1	1268.0	1266.9	1265.8	1264.7
150°	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3
152.5°	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8
155°	1380.6	1382.0	1382.3	1381.5	1380.6	1379.7	1378.9
157.5°	1420.9	1422.9	1423.2	1421.8	1420.4	1419.0	1417.5
160°	1444.3	1446.0	1446.3	1445.2	1444.0	1442.9	1441.7
162.5°	1465.9	1467.9	1468.2	1466.8	1465.4	1464.0	1462.7
165°	1493.6	1495.7	1495.9	1494.5	1493.1	1491.6	1490.2
167.5°	1516.4	1518.4	1518.7	1517.2	1515.7	1514.2	1512.7
170°	1528.9	1531.1	1531.2	1529.4	1527.7	1525.9	1524.2
172.5°	1538.4	1540.4	1540.5	1538.8	1537.1	1535.4	1533.6
175°	1548.6	1550.6	1550.8	1549.0	1547.3	1545.6	1543.8
177.5°	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7

(END OF REPORT)