

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: P331580

Luminaire Tested: **S122DIW-S865D1440U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331580
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: S122DIW-S865D1440U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8811.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

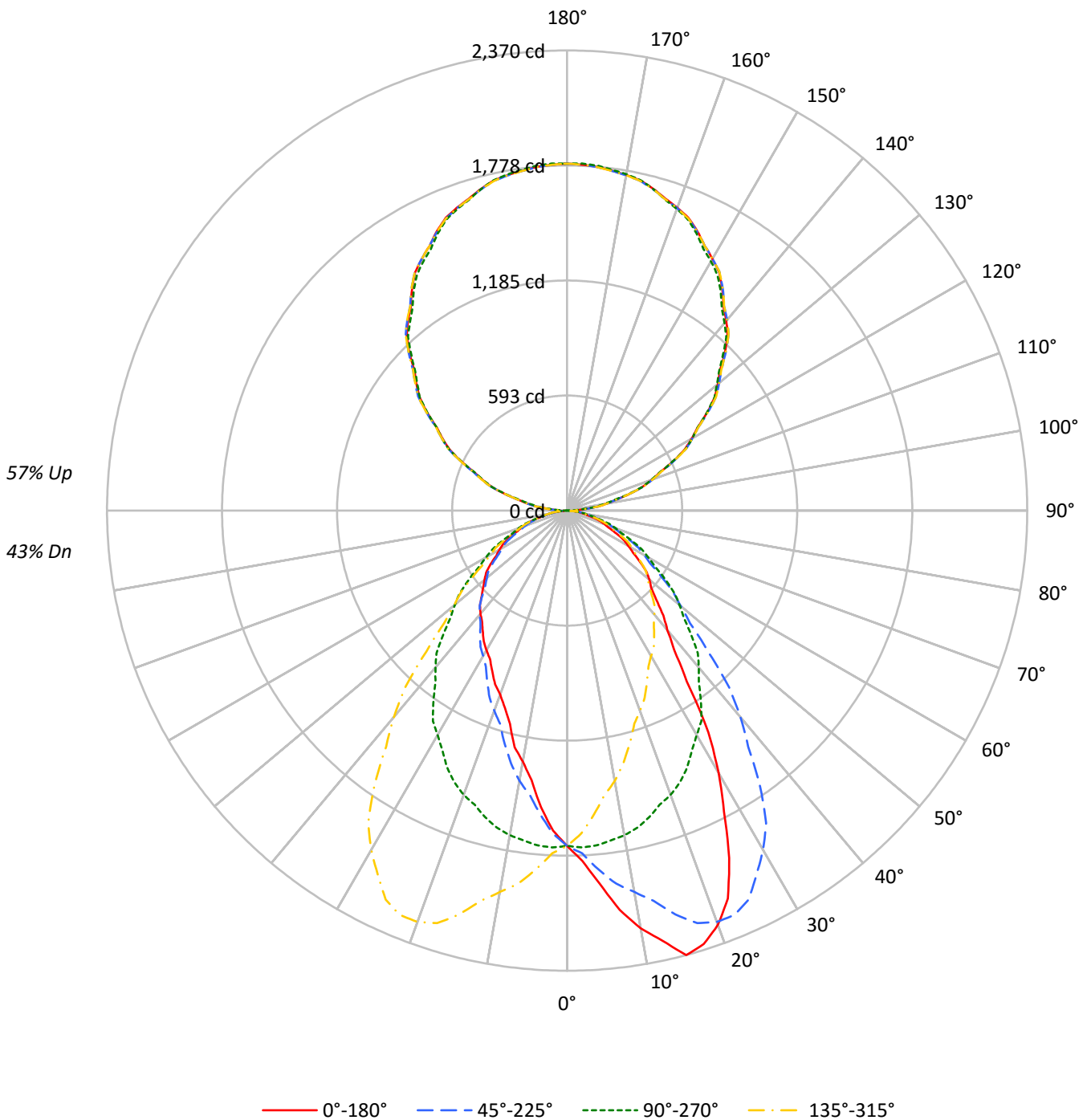
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43																			
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43	37																			
2	88	81	75	70	81	75	70	65	62	58	55	51	48	46	40	38	37	32																			
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27																			
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24																			
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24	21																			
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19																			
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																			
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	23	20	18	15																			
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14																			
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.9
10°-20°	478.0	5.4
20°-30°	693.8	7.9
30°-40°	732.1	8.3
40°-50°	648.2	7.4
50°-60°	517.3	5.9
60°-70°	351.6	4.0
70°-80°	180.3	2.0
80°-90°	50.6	0.6
90°-100°	113.2	1.3
100°-110°	351.6	4.0
110°-120°	601.0	6.8
120°-130°	790.3	9.0
130°-140°	887.0	10.1
140°-150°	869.7	9.9
150°-160°	729.5	8.3
160°-170°	483.8	5.5
170°-180°	169.1	1.9
0°-30°	1336.2	15.2
0°-40°	2068.3	23.5
0°-60°	3233.8	36.7
0°-90°	3816.2	43.3
90°-120°	1065.7	12.1
90°-150°	3612.8	41.0
90°-180°	4995.0	56.7
0°-180°	8811.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	41
90°	51	2	51	2	51	24
95°	94	78	94	78	94	104
105°	335	324	335	324	335	352
115°	603	603	603	603	603	596
125°	880	877	880	877	880	785
135°	1149	1135	1149	1135	1149	884
145°	1393	1378	1393	1378	1393	870
155°	1588	1575	1588	1575	1588	731
165°	1716	1714	1716	1714	1716	484
175°	1777	1783	1777	1783	1777	169
180°	1786	1786	1786	1786	1786	



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	24.1	24.0	24.5	23.9	23.8	24.3	24.5	24.1	24.8	25.4	24.5
90°	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4	52.1	52.8	45.4
92.5°	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2	48.1	47.9	46.2
95°	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5	96.5	96.5	95.8
97.5°	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2	162.2	162.2	160.9
100°	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0	208.0	208.0	207.0
102.5°	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0	257.8	257.5	256.2
105°	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0	332.3	331.7	331.0
107.5°	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9	413.6	413.4	413.4
110°	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9	468.9	468.9	468.9



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9	524.7	525.5	525.8
115°	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4	608.7	609.1	609.7
117.5°	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1	690.9	691.7	693.5
120°	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7	744.7	744.7	747.4
122.5°	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0	801.8	802.6	804.5
125°	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4	885.4	886.4	887.5
127.5°	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4	966.6	967.9	969.1
130°	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8	1021.5	1022.1	1022.8
132.5°	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7	1076.1	1077.6	1077.5
135°	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1	1154.5	1154.8	1154.1
137.5°	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2	1230.5	1230.8	1229.9
140°	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4	1281.4	1281.4	1279.8
142.5°	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8	1327.5	1327.3	1326.1
145°	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2	1397.8	1397.5	1395.5
147.5°	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9	1459.2	1458.4	1457.1
150°	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0	1495.7
152.5°	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6	1534.0
155°	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8	1586.1	1584.4	1583.4
157.5°	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6	1631.3	1629.1	1628.5
160°	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8	1658.8	1656.8	1656.5
162.5°	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5	1683.2	1680.9	1680.6
165°	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3	1714.9	1712.6	1712.6
167.5°	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5	1741.2	1738.8	1738.9
170°	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0	1755.6	1753.3	1753.6
172.5°	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8	1766.5	1764.1	1764.5
175°	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6	1778.3	1775.9	1776.6
177.5°	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8	1783.4
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	23.5	22.1	20.6	20.5	18.1	17.3	14.4	12.0	12.3	12.5	12.3
90°	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5	5.5	9.5	13.6
92.5°	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8	29.8	32.7	35.7
95°	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4	81.7	85.1	88.4
97.5°	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2	146.2	149.1	152.1
100°	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5	194.1	196.8	199.5
102.5°	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1	244.3	246.4	248.5
105°	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1	325.1	326.1	327.1
107.5°	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7	408.2	409.7	411.2
110°	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8	461.8	463.8	465.8



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7	519.7	521.7	523.7
115°	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0	605.0	607.0	609.1
117.5°	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1	690.7	693.4	696.1
120°	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	747.4	750.1	752.8
122.5°	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6	799.8	803.0	806.2
125°	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4	880.4	883.4	886.4
127.5°	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1	959.9	963.7	967.6
130°	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5	1009.9	1014.3	1018.6
132.5°	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0	1064.6	1068.1	1071.7
135°	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2	1138.9	1142.6	1146.2
137.5°	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3	1216.3	1219.3	1222.3
140°	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3	1263.3	1266.4	1269.4
142.5°	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6	1311.6	1314.6	1317.6
145°	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9	1380.3	1382.6	1384.9
147.5°	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7	1442.5	1445.3	1448.2
150°	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9	1483.9	1486.0	1488.0
152.5°	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3	1521.3	1523.3	1525.3
155°	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4	1576.4	1577.4	1578.4
157.5°	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3	1624.0	1624.7	1625.4
160°	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3	1653.0	1653.6	1654.3
162.5°	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8	1679.0	1679.1	1679.2
165°	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1	1713.8	1713.4	1713.1
167.5°	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6	1742.6	1741.6	1740.6
170°	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3	1758.3	1757.3	1756.3
172.5°	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2	1769.2	1768.2	1767.2
175°	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4	1782.4	1781.4	1780.4
177.5°	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9	1788.1	1787.3	1786.5
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	12.5	13.2	14.1	15.6	16.5	17.5	16.8	16.7	16.5	15.3	15.3
90°	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4	50.8	50.1	49.9
92.5°	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2	48.3	48.5	48.6
95°	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5	96.5	96.5	96.1
97.5°	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2	162.2	162.2	162.2
100°	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0	208.0	208.0	207.9
102.5°	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0	258.3	258.6	258.5
105°	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0	333.7	334.3	334.7
107.5°	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9	414.2	414.4	413.8
110°	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.3



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9	523.1	522.3	521.5
115°	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4	608.0	607.7	607.0
117.5°	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1	689.3	688.5	687.5
120°	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7	744.7	744.7	744.2
122.5°	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0	800.2	799.4	798.6
125°	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4	883.4	882.4	881.8
127.5°	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4	964.2	963.0	961.9
130°	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8	1020.1	1019.4	1018.4
132.5°	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7	1073.2	1071.7	1070.4
135°	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1	1153.8	1153.5	1152.8
137.5°	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2	1230.0	1229.7	1228.9
140°	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4	1281.4	1281.4	1280.8
142.5°	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8	1328.1	1328.3	1327.8
145°	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2	1398.5	1398.8	1398.3
147.5°	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9	1460.6	1461.4	1461.1
150°	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0
152.5°	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7
155°	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8	1589.5	1591.1	1591.5
157.5°	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6	1635.9	1638.2	1638.5
160°	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8	1662.8	1664.8	1665.2
162.5°	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5	1687.8	1690.0	1690.4
165°	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3	1719.6	1722.0	1722.3
167.5°	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5	1745.9	1748.2	1748.5
170°	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0	1760.3	1762.7	1762.8
172.5°	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8	1771.2	1773.5	1773.7
175°	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6	1782.9	1785.3	1785.5
177.5°	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	15.4	14.9	15.0	14.5	15.0	14.9	15.4	15.3	15.3	16.5	16.7
90°	50.3	50.6	50.9	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4
92.5°	48.6	48.7	48.8	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2
95°	95.5	94.8	94.1	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5
97.5°	162.1	162.0	162.0	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2
100°	207.5	207.2	206.9	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0
102.5°	258.2	257.9	257.5	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0
105°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0
107.5°	412.3	410.7	409.2	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9
110°	467.3	466.3	465.3	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	520.8	520.1	519.3	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9
115°	606.0	605.0	604.0	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4
117.5°	686.5	685.5	684.5	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1
120°	743.2	742.2	741.2	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7
122.5°	797.9	797.2	796.4	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0
125°	881.4	881.1	880.8	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4
127.5°	960.8	959.7	958.7	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4
130°	1017.1	1015.8	1014.4	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8
132.5°	1069.4	1068.3	1067.2	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7
135°	1151.8	1150.8	1149.8	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1
137.5°	1227.6	1226.2	1224.9	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2
140°	1279.4	1278.1	1276.7	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4
142.5°	1326.5	1325.1	1323.8	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8
145°	1397.0	1395.7	1394.3	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2
147.5°	1459.8	1458.5	1457.3	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9
150°	1500.0	1499.0	1498.0	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0
152.5°	1539.4	1538.1	1536.9	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1
155°	1590.5	1589.5	1588.5	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8
157.5°	1636.9	1635.3	1633.7	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6
160°	1663.8	1662.5	1661.2	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8
162.5°	1688.8	1687.2	1685.6	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5
165°	1720.6	1719.0	1717.3	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3
167.5°	1746.8	1745.0	1743.3	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5
170°	1760.8	1758.8	1756.8	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0
172.5°	1771.7	1769.7	1767.7	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8
175°	1783.4	1781.4	1779.4	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6
177.5°	1787.7	1786.1	1784.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	16.8	17.5	16.5	15.6	14.1	13.2	12.5	12.3	12.5	12.3	12.0
90°	52.1	52.8	45.4	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5
92.5°	48.1	47.9	46.2	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8
95°	96.5	96.5	95.8	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4
97.5°	162.2	162.2	160.9	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2
100°	208.0	208.0	207.0	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5
102.5°	257.8	257.5	256.2	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1
105°	332.3	331.7	331.0	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1
107.5°	413.6	413.4	413.4	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7
110°	468.9	468.9	468.9	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	524.7	525.5	525.8	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7
115°	608.7	609.1	609.7	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0
117.5°	690.9	691.7	693.5	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1
120°	744.7	744.7	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7
122.5°	801.8	802.6	804.5	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6
125°	885.4	886.4	887.5	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4
127.5°	966.6	967.9	969.1	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1
130°	1021.5	1022.1	1022.8	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5
132.5°	1076.1	1077.6	1077.5	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0
135°	1154.5	1154.8	1154.1	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2
137.5°	1230.5	1230.8	1229.9	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3
140°	1281.4	1281.4	1279.8	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3
142.5°	1327.5	1327.3	1326.1	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6
145°	1397.8	1397.5	1395.5	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9
147.5°	1459.2	1458.4	1457.1	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7
150°	1498.0	1497.0	1495.7	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9
152.5°	1536.9	1535.6	1534.0	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3
155°	1586.1	1584.4	1583.4	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4
157.5°	1631.3	1629.1	1628.5	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3
160°	1658.8	1656.8	1656.5	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3
162.5°	1683.2	1680.9	1680.6	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8
165°	1714.9	1712.6	1712.6	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1
167.5°	1741.2	1738.8	1738.9	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6
170°	1755.6	1753.3	1753.6	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3
172.5°	1766.5	1764.1	1764.5	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2
175°	1778.3	1775.9	1776.6	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4
177.5°	1784.4	1782.8	1783.4	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	14.4	17.3	18.1	20.5	20.6	22.1	23.5	24.5	25.4	24.8	24.1
90°	5.5	9.5	13.6	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4
92.5°	29.8	32.7	35.7	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2
95°	81.7	85.1	88.4	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5
97.5°	146.2	149.1	152.1	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2
100°	194.1	196.8	199.5	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0
102.5°	244.3	246.4	248.5	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0
105°	325.1	326.1	327.1	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0
107.5°	408.2	409.7	411.2	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9
110°	461.8	463.8	465.8	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	519.7	521.7	523.7	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9
115°	605.0	607.0	609.1	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4
117.5°	690.7	693.4	696.1	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1
120°	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7
122.5°	799.8	803.0	806.2	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0
125°	880.4	883.4	886.4	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4
127.5°	959.9	963.7	967.6	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4
130°	1009.9	1014.3	1018.6	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8
132.5°	1064.6	1068.1	1071.7	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7
135°	1138.9	1142.6	1146.2	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1
137.5°	1216.3	1219.3	1222.3	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2
140°	1263.3	1266.4	1269.4	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4
142.5°	1311.6	1314.6	1317.6	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8
145°	1380.3	1382.6	1384.9	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2
147.5°	1442.5	1445.3	1448.2	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9
150°	1483.9	1486.0	1488.0	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0
152.5°	1521.3	1523.3	1525.3	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1
155°	1576.4	1577.4	1578.4	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8
157.5°	1624.0	1624.7	1625.4	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6
160°	1653.0	1653.6	1654.3	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8
162.5°	1679.0	1679.1	1679.2	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5
165°	1713.8	1713.4	1713.1	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3
167.5°	1742.6	1741.6	1740.6	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5
170°	1758.3	1757.3	1756.3	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0
172.5°	1769.2	1768.2	1767.2	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8
175°	1782.4	1781.4	1780.4	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6
177.5°	1788.1	1787.3	1786.5	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	24.5	24.3	23.8	23.9	24.5	24.0	24.1
90°	50.8	50.1	49.9	50.3	50.6	50.9	51.3
92.5°	48.3	48.5	48.6	48.6	48.7	48.8	48.8
95°	96.5	96.5	96.1	95.5	94.8	94.1	93.5
97.5°	162.2	162.2	162.2	162.1	162.0	162.0	161.9
100°	208.0	208.0	207.9	207.5	207.2	206.9	206.5
102.5°	258.3	258.6	258.5	258.2	257.9	257.5	257.2
105°	333.7	334.3	334.7	334.7	334.7	334.7	334.7
107.5°	414.2	414.4	413.8	412.3	410.7	409.2	407.6
110°	468.9	468.9	468.3	467.3	466.3	465.3	464.3



TEST NUMBER: P331580

CATALOG NUMBER: S122DIW-S865D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	523.1	522.3	521.5	520.8	520.1	519.3	518.6
115°	608.0	607.7	607.0	606.0	605.0	604.0	603.0
117.5°	689.3	688.5	687.5	686.5	685.5	684.5	683.5
120°	744.7	744.7	744.2	743.2	742.2	741.2	740.2
122.5°	800.2	799.4	798.6	797.9	797.2	796.4	795.7
125°	883.4	882.4	881.8	881.4	881.1	880.8	880.4
127.5°	964.2	963.0	961.9	960.8	959.7	958.7	957.6
130°	1020.1	1019.4	1018.4	1017.1	1015.8	1014.4	1013.1
132.5°	1073.2	1071.7	1070.4	1069.4	1068.3	1067.2	1066.1
135°	1153.8	1153.5	1152.8	1151.8	1150.8	1149.8	1148.8
137.5°	1230.0	1229.7	1228.9	1227.6	1226.2	1224.9	1223.5
140°	1281.4	1281.4	1280.8	1279.4	1278.1	1276.7	1275.4
142.5°	1328.1	1328.3	1327.8	1326.5	1325.1	1323.8	1322.4
145°	1398.5	1398.8	1398.3	1397.0	1395.7	1394.3	1393.0
147.5°	1460.6	1461.4	1461.1	1459.8	1458.5	1457.3	1456.0
150°	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0
152.5°	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6
155°	1589.5	1591.1	1591.5	1590.5	1589.5	1588.5	1587.5
157.5°	1635.9	1638.2	1638.5	1636.9	1635.3	1633.7	1632.1
160°	1662.8	1664.8	1665.2	1663.8	1662.5	1661.2	1659.8
162.5°	1687.8	1690.0	1690.4	1688.8	1687.2	1685.6	1683.9
165°	1719.6	1722.0	1722.3	1720.6	1719.0	1717.3	1715.6
167.5°	1745.9	1748.2	1748.5	1746.8	1745.0	1743.3	1741.5
170°	1760.3	1762.7	1762.8	1760.8	1758.8	1756.8	1754.8
172.5°	1771.2	1773.5	1773.7	1771.7	1769.7	1767.7	1765.7
175°	1782.9	1785.3	1785.5	1783.4	1781.4	1779.4	1777.4
177.5°	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5

(END OF REPORT)