

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: P331561-840

Luminaire Tested: **S122DIW-S865D710U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331561-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D710U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6712.3 lumens
Efficiency: N/A
Efficacy: 125.2 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

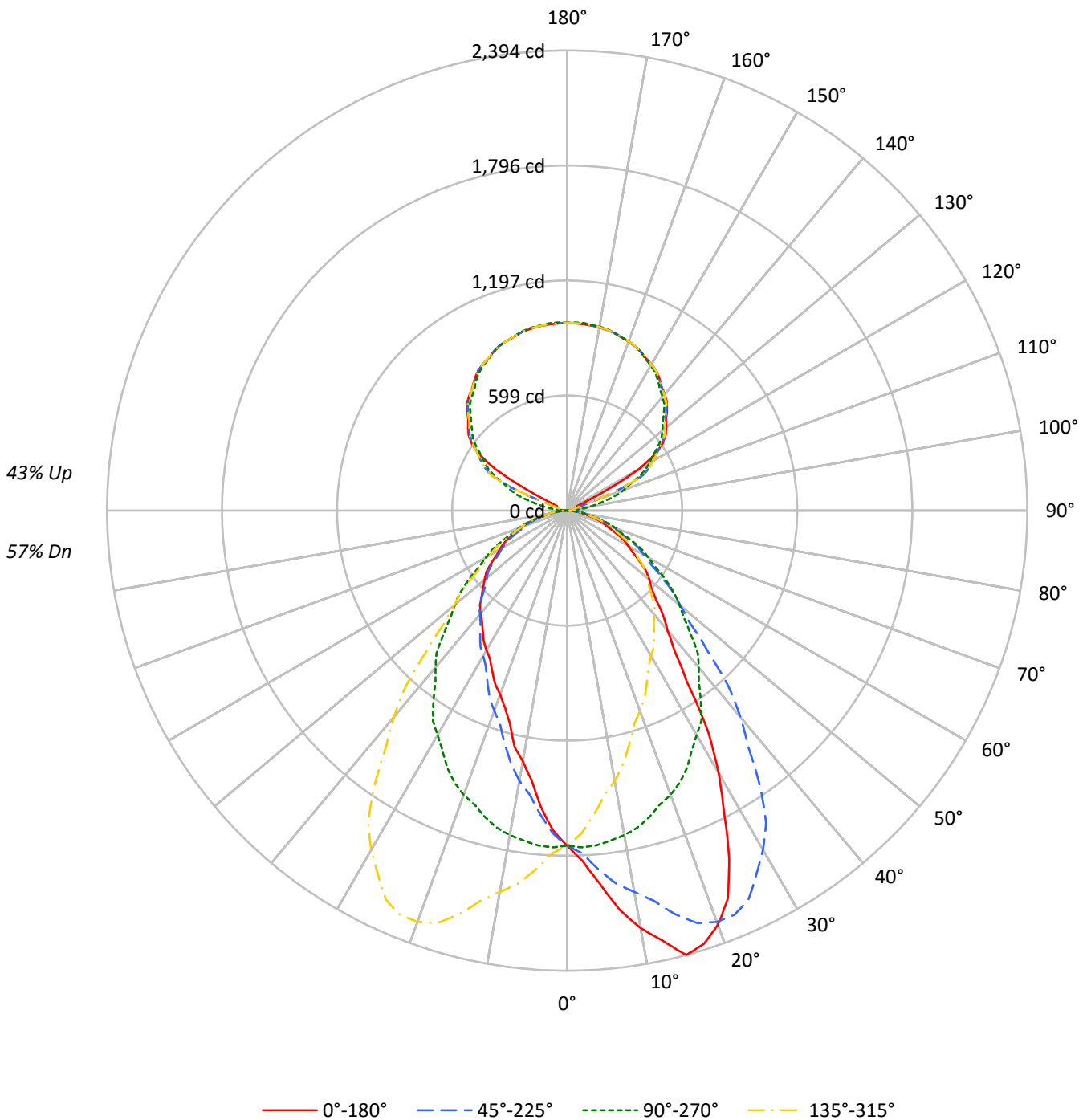
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	96	92	89	93	89	86	83	77	75	73	67	65	63	56	55	54	49
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42
3	84	75	67	62	78	70	64	59	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	72	62	55	50	55	49	45	47	43	40	41	38	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	34	31	28
6	66	54	46	40	61	51	43	38	45	39	35	39	34	31	34	30	28	25
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	23	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	23	28	24	21	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.5
10°-20°	482.7	7.2
20°-30°	700.6	10.4
30°-40°	739.3	11.0
40°-50°	654.6	9.8
50°-60°	522.4	7.8
60°-70°	355.1	5.3
70°-80°	182.0	2.7
80°-90°	46.3	0.7
90°-100°	32.6	0.5
100°-110°	119.5	1.8
110°-120°	319.5	4.8
120°-130°	527.3	7.9
130°-140°	560.8	8.4
140°-150°	521.3	7.8
150°-160°	419.1	6.2
160°-170°	270.1	4.0
170°-180°	93.0	1.4
0°-30°	1349.4	20.1
0°-40°	2088.7	31.1
0°-60°	3265.7	48.7
0°-90°	3849.1	57.3
90°-120°	471.6	7.0
90°-150°	2081.0	31.0
90°-180°	2863.0	42.7
0°-180°	6712.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	40
90°	19	1	19	1	19	10
95°	30	46	30	46	30	28
105°	54	215	54	215	54	56
115°	58	406	58	406	58	145
125°	604	575	604	575	604	523
135°	735	711	735	711	735	566
145°	838	825	838	825	838	524
155°	909	908	909	908	909	419
165°	955	957	955	957	955	270
175°	974	979	974	979	974	93
180°	977	977	977	977	977	



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	17.8	17.7	18.2	17.6	17.5	18.0	17.8	17.1	17.5	17.9	18.1
90°	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8	14.9	14.1	12.9
92.5°	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3	16.8	16.4	15.8
95°	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2	28.4	27.6	26.5
97.5°	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2	37.6	36.9	34.3
100°	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8	41.5	40.3	37.7
102.5°	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7	43.0	41.4	63.7
105°	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6	44.8	43.1	86.0
107.5°	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9	58.6	60.4	111.8
110°	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3	108.1	123.7	169.2



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4	254.8	312.0	323.3
115°	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7	363.5	436.2	432.2
117.5°	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0	465.5	483.1	480.4
120°	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0	520.1	518.2	515.3
122.5°	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8	552.7	551.6	548.5
125°	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6	598.4	597.3	594.4
127.5°	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9	640.3	638.6	636.4
130°	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7	667.0	665.3	663.5
132.5°	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8	693.3	691.9	690.1
135°	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1	730.4	728.9	727.5
137.5°	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6	765.1	763.6	761.9
140°	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0	787.6	786.2	784.4
142.5°	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6	808.4	807.1	805.1
145°	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5	837.5	836.4	833.6
147.5°	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7	862.9	862.0	859.4
150°	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2	878.3	877.4	874.8
152.5°	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3	892.4	891.5	889.1
155°	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4	911.5	910.6	908.7
157.5°	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6	927.5	926.3	925.0
160°	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9	937.0	936.0	935.0
162.5°	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6	945.5	944.5	943.7
165°	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4	956.2	955.1	954.6
167.5°	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2	965.1	964.0	963.6
170°	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8	969.7	968.6	968.3
172.5°	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1	973.0	971.9	971.6
175°	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9	976.7	975.6	975.3
177.5°	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3	977.3	976.4	976.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	18.4	18.2	17.9	18.7	16.8	16.4	13.9	11.9	11.7	11.5	10.8
90°	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7	2.4	4.1	5.9
92.5°	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2	14.1	13.9	13.8
95°	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9	40.8	35.5	30.4
97.5°	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2	76.5	62.0	47.4
100°	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1	103.6	82.1	60.6
102.5°	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5	157.9	153.3	148.8
105°	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9	219.6	224.4	229.0
107.5°	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7	278.5	282.4	286.1
110°	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2	316.5	319.8	323.1



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4	352.3	355.3	358.1
115°	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5	409.2	411.8	414.5
117.5°	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6	460.5	463.5	466.5
120°	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8	497.3	499.6	501.9
122.5°	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5	529.1	531.5	534.0
125°	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7	576.8	578.9	580.9
127.5°	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4	620.7	623.0	625.2
130°	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1	648.6	651.2	653.7
132.5°	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5	676.6	678.7	680.9
135°	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2	713.7	716.2	718.7
137.5°	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4	750.1	751.9	753.7
140°	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7	774.0	775.2	776.5
142.5°	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0	794.2	795.4	796.5
145°	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1	824.9	824.8	824.6
147.5°	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8	852.3	851.7	851.1
150°	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0	869.9	868.8	867.7
152.5°	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3	885.0	883.8	882.5
155°	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5	907.1	905.6	904.2
157.5°	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8	924.6	923.4	922.2
160°	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	935.0	934.1	933.2
162.5°	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0	944.1	943.2	942.2
165°	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3	956.2	955.3	954.4
167.5°	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2	965.3	964.4	963.4
170°	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4	970.4	969.5	968.6
172.5°	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7	973.8	972.9	971.9
175°	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2	978.1	976.9	975.8
177.5°	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9	979.0	978.1	977.2
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	10.6	10.4	10.1	10.4	10.1	9.8	9.4	9.6	9.7	8.8	8.9
90°	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8	16.5	17.3	17.9
92.5°	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3	17.7	18.1	18.4
95°	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2	29.9	30.7	31.0
97.5°	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2	38.8	39.4	39.8
100°	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8	44.0	45.3	46.2
102.5°	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7	46.4	48.0	49.0
105°	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6	48.3	50.0	51.2
107.5°	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9	55.1	53.3	52.8
110°	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3	76.5	60.9	53.3



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4	140.2	82.8	54.4
115°	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7	217.9	145.2	103.2
117.5°	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0	430.3	412.7	385.4
120°	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0	523.8	525.7	516.0
122.5°	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8	554.9	556.1	554.6
125°	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6	600.7	601.8	602.6
127.5°	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9	643.5	645.1	645.9
130°	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7	670.4	672.2	673.0
132.5°	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8	696.3	697.7	698.4
135°	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1	733.6	735.2	735.8
137.5°	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6	768.1	769.7	770.2
140°	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0	790.4	791.8	792.1
142.5°	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6	810.9	812.2	812.4
145°	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5	839.6	840.7	840.9
147.5°	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7	864.5	865.4	865.5
150°	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2	880.2	881.1	881.2
152.5°	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3	894.3	895.2	895.2
155°	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4	913.4	914.3	914.1
157.5°	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6	929.6	930.7	930.6
160°	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9	938.9	939.8	939.7
162.5°	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6	947.7	948.8	948.7
165°	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4	958.4	959.5	959.5
167.5°	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2	967.3	968.4	968.3
170°	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8	971.8	972.9	972.8
172.5°	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1	975.2	976.3	976.1
175°	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9	978.9	980.0	979.8
177.5°	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3	979.1	980.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	9.0	8.5	8.6	8.1	8.6	8.5	9.0	8.9	8.8	9.7	9.6
90°	18.2	18.5	18.8	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8
92.5°	18.5	18.7	18.9	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3
95°	30.9	30.7	30.6	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2
97.5°	40.0	40.2	40.4	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2
100°	46.5	46.8	47.1	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8
102.5°	49.5	49.9	50.3	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7
105°	51.8	52.5	53.1	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6
107.5°	53.4	54.0	54.6	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9
110°	53.9	54.6	55.2	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.9	55.4	55.9	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4
115°	91.9	80.6	69.3	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7
117.5°	348.2	311.0	273.9	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0
120°	494.8	473.6	452.4	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0
122.5°	550.5	546.3	542.3	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8
125°	603.0	603.5	604.0	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6
127.5°	646.0	646.1	646.2	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9
130°	672.8	672.7	672.5	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7
132.5°	698.2	698.1	697.9	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8
135°	735.5	735.2	734.9	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1
137.5°	769.6	769.1	768.6	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6
140°	791.3	790.5	789.7	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0
142.5°	811.7	810.9	810.1	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6
145°	840.1	839.3	838.5	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5
147.5°	864.7	864.1	863.4	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7
150°	880.4	879.6	878.8	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2
152.5°	894.1	893.1	892.1	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3
155°	912.9	911.7	910.4	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4
157.5°	929.4	928.2	927.0	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6
160°	938.6	937.5	936.4	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9
162.5°	947.3	945.9	944.5	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6
165°	958.4	957.4	956.2	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4
167.5°	966.8	965.4	964.0	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2
170°	971.4	970.0	968.6	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8
172.5°	974.7	973.3	971.9	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1
175°	978.2	976.6	975.0	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9
177.5°	978.8	977.5	976.4	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	9.4	9.8	10.1	10.4	10.1	10.4	10.6	10.8	11.5	11.7	11.9
90°	14.9	14.1	12.9	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7
92.5°	16.8	16.4	15.8	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2
95°	28.4	27.6	26.5	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9
97.5°	37.6	36.9	34.3	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2
100°	41.5	40.3	37.7	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1
102.5°	43.0	41.4	63.7	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5
105°	44.8	43.1	86.0	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9
107.5°	58.6	60.4	111.8	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7
110°	108.1	123.7	169.2	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	254.8	312.0	323.3	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4
115°	363.5	436.2	432.2	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5
117.5°	465.5	483.1	480.4	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6
120°	520.1	518.2	515.3	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8
122.5°	552.7	551.6	548.5	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5
125°	598.4	597.3	594.4	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7
127.5°	640.3	638.6	636.4	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4
130°	667.0	665.3	663.5	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1
132.5°	693.3	691.9	690.1	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5
135°	730.4	728.9	727.5	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2
137.5°	765.1	763.6	761.9	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4
140°	787.6	786.2	784.4	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7
142.5°	808.4	807.1	805.1	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0
145°	837.5	836.4	833.6	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1
147.5°	862.9	862.0	859.4	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8
150°	878.3	877.4	874.8	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0
152.5°	892.4	891.5	889.1	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3
155°	911.5	910.6	908.7	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5
157.5°	927.5	926.3	925.0	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8
160°	937.0	936.0	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0
162.5°	945.5	944.5	943.7	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0
165°	956.2	955.1	954.6	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3
167.5°	965.1	964.0	963.6	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2
170°	969.7	968.6	968.3	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4
172.5°	973.0	971.9	971.6	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7
175°	976.7	975.6	975.3	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2
177.5°	977.3	976.4	976.3	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	13.9	16.4	16.8	18.7	17.9	18.2	18.4	18.1	17.9	17.5	17.1
90°	2.4	4.1	5.9	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8
92.5°	14.1	13.9	13.8	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3
95°	40.8	35.5	30.4	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2
97.5°	76.5	62.0	47.4	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2
100°	103.6	82.1	60.6	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8
102.5°	157.9	153.3	148.8	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7
105°	219.6	224.4	229.0	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6
107.5°	278.5	282.4	286.1	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9
110°	316.5	319.8	323.1	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.3	355.3	358.1	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4
115°	409.2	411.8	414.5	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7
117.5°	460.5	463.5	466.5	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0
120°	497.3	499.6	501.9	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0
122.5°	529.1	531.5	534.0	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8
125°	576.8	578.9	580.9	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6
127.5°	620.7	623.0	625.2	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9
130°	648.6	651.2	653.7	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7
132.5°	676.6	678.7	680.9	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8
135°	713.7	716.2	718.7	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1
137.5°	750.1	751.9	753.7	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6
140°	774.0	775.2	776.5	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0
142.5°	794.2	795.4	796.5	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6
145°	824.9	824.8	824.6	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5
147.5°	852.3	851.7	851.1	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7
150°	869.9	868.8	867.7	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2
152.5°	885.0	883.8	882.5	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3
155°	907.1	905.6	904.2	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4
157.5°	924.6	923.4	922.2	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6
160°	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9
162.5°	944.1	943.2	942.2	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6
165°	956.2	955.3	954.4	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4
167.5°	965.3	964.4	963.4	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2
170°	970.4	969.5	968.6	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8
172.5°	973.8	972.9	971.9	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1
175°	978.1	976.9	975.8	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9
177.5°	979.0	978.1	977.2	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	17.8	18.0	17.5	17.6	18.2	17.7	17.8
90°	16.5	17.3	17.9	18.2	18.5	18.8	19.1
92.5°	17.7	18.1	18.4	18.5	18.7	18.9	19.1
95°	29.9	30.7	31.0	30.9	30.7	30.6	30.4
97.5°	38.8	39.4	39.8	40.0	40.2	40.4	40.6
100°	44.0	45.3	46.2	46.5	46.8	47.1	47.4
102.5°	46.4	48.0	49.0	49.5	49.9	50.3	50.8
105°	48.3	50.0	51.2	51.8	52.5	53.1	53.7
107.5°	55.1	53.3	52.8	53.4	54.0	54.6	55.2
110°	76.5	60.9	53.3	53.9	54.6	55.2	55.8



TEST NUMBER: P331561-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	140.2	82.8	54.4	54.9	55.4	55.9	56.5
115°	217.9	145.2	103.2	91.9	80.6	69.3	58.0
117.5°	430.3	412.7	385.4	348.2	311.0	273.9	236.7
120°	523.8	525.7	516.0	494.8	473.6	452.4	431.2
122.5°	554.9	556.1	554.6	550.5	546.3	542.3	538.2
125°	600.7	601.8	602.6	603.0	603.5	604.0	604.4
127.5°	643.5	645.1	645.9	646.0	646.1	646.2	646.3
130°	670.4	672.2	673.0	672.8	672.7	672.5	672.4
132.5°	696.3	697.7	698.4	698.2	698.1	697.9	697.8
135°	733.6	735.2	735.8	735.5	735.2	734.9	734.6
137.5°	768.1	769.7	770.2	769.6	769.1	768.6	768.0
140°	790.4	791.8	792.1	791.3	790.5	789.7	789.0
142.5°	810.9	812.2	812.4	811.7	810.9	810.1	809.3
145°	839.6	840.7	840.9	840.1	839.3	838.5	837.8
147.5°	864.5	865.4	865.5	864.7	864.1	863.4	862.7
150°	880.2	881.1	881.2	880.4	879.6	878.8	878.1
152.5°	894.3	895.2	895.2	894.1	893.1	892.1	891.0
155°	913.4	914.3	914.1	912.9	911.7	910.4	909.2
157.5°	929.6	930.7	930.6	929.4	928.2	927.0	925.6
160°	938.9	939.8	939.7	938.6	937.5	936.4	935.3
162.5°	947.7	948.8	948.7	947.3	945.9	944.5	943.2
165°	958.4	959.5	959.5	958.4	957.4	956.2	955.1
167.5°	967.3	968.4	968.3	966.8	965.4	964.0	962.6
170°	971.8	972.9	972.8	971.4	970.0	968.6	967.1
172.5°	975.2	976.3	976.1	974.7	973.3	971.9	970.5
175°	978.9	980.0	979.8	978.2	976.6	975.0	973.5
177.5°	979.1	980.0	979.9	978.8	977.5	976.4	975.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0

(END OF REPORT)