

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: P331562

Luminaire Tested: **S122DIW-S865D710U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331562
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-S865D710U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6271.4 lumens
Efficiency: N/A
Efficacy: 117.0 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: Semi-Direct

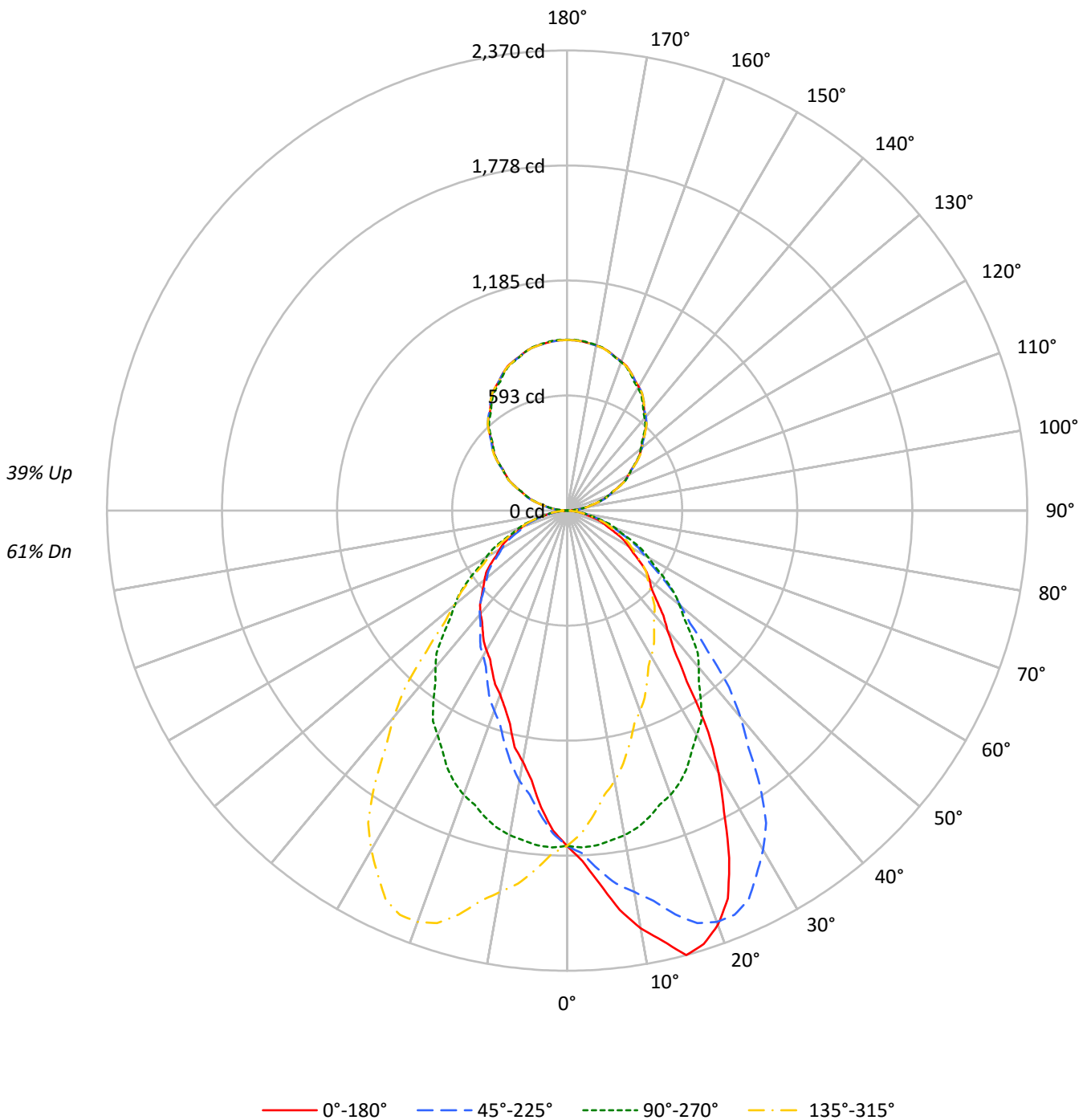
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	62	58	53	55	51	48	47	45	42	39
4	78	67	59	53	73	63	56	51	56	50	46	49	45	41	43	40	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	35	32	29	26
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	18

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.6
10°-20°	478.0	7.6
20°-30°	693.8	11.1
30°-40°	732.1	11.7
40°-50°	648.2	10.3
50°-60°	517.3	8.2
60°-70°	351.6	5.6
70°-80°	180.3	2.9
80°-90°	47.0	0.7
90°-100°	55.7	0.9
100°-110°	173.1	2.8
110°-120°	295.8	4.7
120°-130°	389.0	6.2
130°-140°	436.6	7.0
140°-150°	428.1	6.8
150°-160°	359.1	5.7
160°-170°	238.2	3.8
170°-180°	83.2	1.3
0°-30°	1336.2	21.3
0°-40°	2068.3	33.0
0°-60°	3233.8	51.6
0°-90°	3812.6	60.8
90°-120°	524.6	8.4
90°-150°	1778.3	28.4
90°-180°	2459.0	39.2
0°-180°	6271.4	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	40
90°	25	1	25	1	25	13
95°	46	39	46	39	46	51
105°	165	160	165	160	165	173
115°	297	297	297	297	297	293
125°	433	432	433	432	433	386
135°	565	559	565	559	565	435
145°	686	678	686	678	686	428
155°	781	775	781	775	781	360
165°	844	844	844	844	844	238
175°	875	878	875	878	875	83
180°	879	879	879	879	879	



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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°	18.8	18.8	19.3	18.7	18.7	19.3	19.3	18.9	19.5	20.1	19.9
90°	25.2	25.1	24.9	24.7	24.6	24.7	25.0	25.3	25.6	26.0	22.3
92.5°	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.7	23.7	23.6	22.7
95°	46.0	46.3	46.7	47.0	47.3	47.5	47.5	47.5	47.5	47.5	47.2
97.5°	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.2
100°	101.7	101.8	102.0	102.2	102.3	102.4	102.4	102.4	102.4	102.4	101.9
102.5°	126.6	126.8	126.9	127.1	127.3	127.3	127.1	127.0	126.9	126.7	126.1
105°	164.7	164.7	164.7	164.7	164.7	164.6	164.2	163.9	163.6	163.3	162.9
107.5°	200.7	201.4	202.2	202.9	203.7	204.0	203.9	203.7	203.6	203.5	203.5
110°	228.6	229.0	229.5	230.0	230.5	230.8	230.8	230.8	230.8	230.8	230.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	255.3	255.6	256.0	256.4	256.7	257.1	257.5	257.9	258.3	258.7	258.8
115°	296.8	297.3	297.8	298.3	298.8	299.1	299.3	299.5	299.6	299.8	300.1
117.5°	336.4	336.9	337.4	337.9	338.4	338.9	339.3	339.7	340.1	340.5	341.4
120°	364.3	364.8	365.3	365.8	366.3	366.6	366.6	366.6	366.6	366.6	367.9
122.5°	391.7	392.0	392.4	392.7	393.1	393.5	393.9	394.3	394.7	395.1	396.0
125°	433.4	433.5	433.7	433.9	434.0	434.3	434.8	435.3	435.8	436.3	436.8
127.5°	471.4	471.9	472.4	472.9	473.5	474.0	474.6	475.2	475.8	476.4	477.0
130°	498.7	499.3	500.0	500.6	501.3	501.8	502.1	502.5	502.8	503.1	503.4
132.5°	524.8	525.3	525.8	526.4	526.9	527.5	528.2	529.0	529.7	530.4	530.4
135°	565.4	565.9	566.4	566.9	567.4	567.8	567.9	568.1	568.2	568.4	568.1
137.5°	602.2	602.9	603.6	604.2	604.9	605.3	605.4	605.5	605.7	605.8	605.4
140°	627.8	628.4	629.1	629.8	630.4	630.7	630.7	630.7	630.7	630.7	629.9
142.5°	650.9	651.6	652.2	652.9	653.6	653.8	653.7	653.6	653.4	653.3	652.7
145°	685.7	686.3	687.0	687.6	688.3	688.5	688.4	688.2	688.0	687.9	686.9
147.5°	716.7	717.3	717.9	718.6	719.2	719.3	718.9	718.6	718.2	717.9	717.2
150°	736.9	737.4	737.8	738.3	738.8	738.8	738.3	737.8	737.4	736.9	736.2
152.5°	755.9	756.5	757.1	757.7	758.4	758.4	757.7	757.1	756.5	755.9	755.1
155°	781.4	781.9	782.4	782.9	783.4	783.2	782.4	781.5	780.7	779.9	779.4
157.5°	803.3	804.1	804.9	805.7	806.5	806.3	805.2	804.1	803.0	801.9	801.6
160°	817.0	817.7	818.3	819.0	819.6	819.5	818.5	817.5	816.5	815.5	815.3
162.5°	828.9	829.7	830.5	831.2	832.0	831.9	830.8	829.6	828.5	827.4	827.2
165°	844.5	845.3	846.1	846.9	847.8	847.6	846.4	845.3	844.1	843.0	843.0
167.5°	857.2	858.1	858.9	859.8	860.6	860.5	859.3	858.2	857.0	855.9	855.9
170°	863.7	864.7	865.7	866.7	867.7	867.6	866.5	865.3	864.2	863.0	863.2
172.5°	869.1	870.1	871.1	872.1	873.0	873.0	871.8	870.7	869.5	868.3	868.5
175°	874.9	875.9	876.9	877.8	878.8	878.8	877.6	876.4	875.3	874.1	874.5
177.5°	877.5	878.3	879.1	879.9	880.7	880.7	879.9	879.1	878.3	877.5	877.8
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



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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°	19.7	18.9	18.2	18.7	16.7	16.3	13.8	11.8	11.7	11.6	10.9
90°	18.7	15.1	11.5	8.7	6.7	4.7	2.7	0.7	2.7	4.7	6.7
92.5°	21.9	21.0	20.2	19.0	17.6	16.1	14.7	13.2	14.7	16.1	17.6
95°	46.8	46.5	46.2	45.2	43.5	41.9	40.2	38.6	40.2	41.9	43.5
97.5°	78.6	78.0	77.3	76.3	74.8	73.4	71.9	70.5	71.9	73.4	74.8
100°	101.4	100.9	100.4	99.5	98.2	96.9	95.6	94.2	95.6	96.9	98.2
102.5°	125.5	124.9	124.2	123.4	122.3	121.3	120.2	119.2	120.2	121.3	122.3
105°	162.6	162.3	161.9	161.5	161.0	160.5	160.0	159.5	160.0	160.5	161.0
107.5°	203.5	203.5	203.5	203.1	202.4	201.7	200.9	200.2	200.9	201.7	202.4
110°	230.8	230.8	230.8	230.3	229.3	228.3	227.3	226.3	227.3	228.3	229.3



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	258.9	259.1	259.2	258.8	257.8	256.8	255.8	254.8	255.8	256.8	257.8
115°	300.4	300.8	301.1	300.8	299.8	298.8	297.8	296.8	297.8	298.8	299.8
117.5°	342.3	343.2	344.1	343.9	342.6	341.3	340.0	338.7	340.0	341.3	342.6
120°	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6	367.9	369.2	370.5
122.5°	396.9	397.8	398.8	398.4	396.8	395.3	393.7	392.1	393.7	395.3	396.8
125°	437.3	437.8	438.3	437.8	436.3	434.8	433.4	431.9	433.4	434.8	436.3
127.5°	477.6	478.2	478.8	478.1	476.2	474.4	472.5	470.6	472.5	474.4	476.2
130°	503.8	504.1	504.4	503.5	501.4	499.2	497.1	494.9	497.1	499.2	501.4
132.5°	530.3	530.2	530.2	529.2	527.5	525.8	524.0	522.3	524.0	525.8	527.5
135°	567.8	567.4	567.1	566.0	564.2	562.4	560.6	558.8	560.6	562.4	564.2
137.5°	605.0	604.5	604.1	603.1	601.7	600.2	598.7	597.2	598.7	600.2	601.7
140°	629.1	628.3	627.4	626.3	624.8	623.3	621.8	620.4	621.8	623.3	624.8
142.5°	652.2	651.6	651.1	650.0	648.6	647.1	645.6	644.1	645.6	647.1	648.6
145°	685.9	684.9	683.9	682.9	681.7	680.5	679.4	678.2	679.4	680.5	681.7
147.5°	716.5	715.9	715.2	714.2	712.8	711.4	710.0	708.7	710.0	711.4	712.8
150°	735.5	734.9	734.2	733.4	732.4	731.4	730.4	729.4	730.4	731.4	732.4
152.5°	754.3	753.5	752.7	751.8	750.8	749.8	748.8	747.8	748.8	749.8	750.8
155°	778.9	778.4	777.9	777.4	776.9	776.4	775.9	775.4	775.9	776.4	776.9
157.5°	801.3	801.0	800.7	800.4	800.0	799.7	799.4	799.0	799.4	799.7	800.0
160°	815.2	815.0	814.9	814.6	814.3	813.9	813.6	813.3	813.6	813.9	814.3
162.5°	827.1	826.9	826.7	826.6	826.5	826.5	826.4	826.3	826.4	826.5	826.5
165°	843.0	843.0	843.0	843.1	843.2	843.4	843.5	843.7	843.5	843.4	843.2
167.5°	855.9	856.0	856.0	856.3	856.8	857.3	857.8	858.3	857.8	857.3	856.8
170°	863.3	863.5	863.7	864.0	864.5	865.0	865.5	866.0	865.5	865.0	864.5
172.5°	868.7	868.8	869.0	869.3	869.8	870.3	870.8	871.3	870.8	870.3	869.8
175°	874.8	875.1	875.5	875.9	876.4	876.9	877.4	877.8	877.4	876.9	876.4
177.5°	878.1	878.3	878.6	878.9	879.3	879.7	880.1	880.5	880.1	879.7	879.3
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-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°	10.8	10.8	11.0	11.7	11.9	12.1	11.5	11.4	11.4	10.2	10.2
90°	8.7	11.5	15.1	18.7	22.3	26.0	25.6	25.3	25.0	24.7	24.6
92.5°	19.0	20.2	21.0	21.9	22.7	23.6	23.7	23.7	23.8	23.9	23.9
95°	45.2	46.2	46.5	46.8	47.2	47.5	47.5	47.5	47.5	47.5	47.3
97.5°	76.3	77.3	78.0	78.6	79.2	79.8	79.8	79.8	79.8	79.8	79.8
100°	99.5	100.4	100.9	101.4	101.9	102.4	102.4	102.4	102.4	102.4	102.3
102.5°	123.4	124.2	124.9	125.5	126.1	126.7	126.9	127.0	127.1	127.3	127.3
105°	161.5	161.9	162.3	162.6	162.9	163.3	163.6	163.9	164.2	164.6	164.7
107.5°	203.1	203.5	203.5	203.5	203.5	203.5	203.6	203.7	203.9	204.0	203.7
110°	230.3	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.5



TEST NUMBER: P331562

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	258.8	259.2	259.1	258.9	258.8	258.7	258.3	257.9	257.5	257.1	256.7
115°	300.8	301.1	300.8	300.4	300.1	299.8	299.6	299.5	299.3	299.1	298.8
117.5°	343.9	344.1	343.2	342.3	341.4	340.5	340.1	339.7	339.3	338.9	338.4
120°	371.8	371.8	370.5	369.2	367.9	366.6	366.6	366.6	366.6	366.6	366.3
122.5°	398.4	398.8	397.8	396.9	396.0	395.1	394.7	394.3	393.9	393.5	393.1
125°	437.8	438.3	437.8	437.3	436.8	436.3	435.8	435.3	434.8	434.3	434.0
127.5°	478.1	478.8	478.2	477.6	477.0	476.4	475.8	475.2	474.6	474.0	473.5
130°	503.5	504.4	504.1	503.8	503.4	503.1	502.8	502.5	502.1	501.8	501.3
132.5°	529.2	530.2	530.2	530.3	530.4	530.4	529.7	529.0	528.2	527.5	526.9
135°	566.0	567.1	567.4	567.8	568.1	568.4	568.2	568.1	567.9	567.8	567.4
137.5°	603.1	604.1	604.5	605.0	605.4	605.8	605.7	605.5	605.4	605.3	604.9
140°	626.3	627.4	628.3	629.1	629.9	630.7	630.7	630.7	630.7	630.7	630.4
142.5°	650.0	651.1	651.6	652.2	652.7	653.3	653.4	653.6	653.7	653.8	653.6
145°	682.9	683.9	684.9	685.9	686.9	687.9	688.0	688.2	688.4	688.5	688.3
147.5°	714.2	715.2	715.9	716.5	717.2	717.9	718.2	718.6	718.9	719.3	719.2
150°	733.4	734.2	734.9	735.5	736.2	736.9	737.4	737.8	738.3	738.8	738.8
152.5°	751.8	752.7	753.5	754.3	755.1	755.9	756.5	757.1	757.7	758.4	758.4
155°	777.4	777.9	778.4	778.9	779.4	779.9	780.7	781.5	782.4	783.2	783.4
157.5°	800.4	800.7	801.0	801.3	801.6	801.9	803.0	804.1	805.2	806.3	806.5
160°	814.6	814.9	815.0	815.2	815.3	815.5	816.5	817.5	818.5	819.5	819.6
162.5°	826.6	826.7	826.9	827.1	827.2	827.4	828.5	829.6	830.8	831.9	832.0
165°	843.1	843.0	843.0	843.0	843.0	843.0	844.1	845.3	846.4	847.6	847.8
167.5°	856.3	856.0	856.0	855.9	855.9	855.9	857.0	858.2	859.3	860.5	860.6
170°	864.0	863.7	863.5	863.3	863.2	863.0	864.2	865.3	866.5	867.6	867.7
172.5°	869.3	869.0	868.8	868.7	868.5	868.3	869.5	870.7	871.8	873.0	873.0
175°	875.9	875.5	875.1	874.8	874.5	874.1	875.3	876.4	877.6	878.8	878.8
177.5°	878.9	878.6	878.3	878.1	877.8	877.5	878.3	879.1	879.9	880.7	880.7
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-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°	10.3	9.8	9.8	9.3	9.8	9.8	10.3	10.2	10.2	11.4	11.4
90°	24.7	24.9	25.1	25.2	25.1	24.9	24.7	24.6	24.7	25.0	25.3
92.5°	23.9	24.0	24.0	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.7
95°	47.0	46.7	46.3	46.0	46.3	46.7	47.0	47.3	47.5	47.5	47.5
97.5°	79.8	79.8	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8
100°	102.2	102.0	101.8	101.7	101.8	102.0	102.2	102.3	102.4	102.4	102.4
102.5°	127.1	126.9	126.8	126.6	126.8	126.9	127.1	127.3	127.3	127.1	127.0
105°	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.6	164.2	163.9
107.5°	202.9	202.2	201.4	200.7	201.4	202.2	202.9	203.7	204.0	203.9	203.7
110°	230.0	229.5	229.0	228.6	229.0	229.5	230.0	230.5	230.8	230.8	230.8



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	256.4	256.0	255.6	255.3	255.6	256.0	256.4	256.7	257.1	257.5	257.9
115°	298.3	297.8	297.3	296.8	297.3	297.8	298.3	298.8	299.1	299.3	299.5
117.5°	337.9	337.4	336.9	336.4	336.9	337.4	337.9	338.4	338.9	339.3	339.7
120°	365.8	365.3	364.8	364.3	364.8	365.3	365.8	366.3	366.6	366.6	366.6
122.5°	392.7	392.4	392.0	391.7	392.0	392.4	392.7	393.1	393.5	393.9	394.3
125°	433.9	433.7	433.5	433.4	433.5	433.7	433.9	434.0	434.3	434.8	435.3
127.5°	472.9	472.4	471.9	471.4	471.9	472.4	472.9	473.5	474.0	474.6	475.2
130°	500.6	500.0	499.3	498.7	499.3	500.0	500.6	501.3	501.8	502.1	502.5
132.5°	526.4	525.8	525.3	524.8	525.3	525.8	526.4	526.9	527.5	528.2	529.0
135°	566.9	566.4	565.9	565.4	565.9	566.4	566.9	567.4	567.8	567.9	568.1
137.5°	604.2	603.6	602.9	602.2	602.9	603.6	604.2	604.9	605.3	605.4	605.5
140°	629.8	629.1	628.4	627.8	628.4	629.1	629.8	630.4	630.7	630.7	630.7
142.5°	652.9	652.2	651.6	650.9	651.6	652.2	652.9	653.6	653.8	653.7	653.6
145°	687.6	687.0	686.3	685.7	686.3	687.0	687.6	688.3	688.5	688.4	688.2
147.5°	718.6	717.9	717.3	716.7	717.3	717.9	718.6	719.2	719.3	718.9	718.6
150°	738.3	737.8	737.4	736.9	737.4	737.8	738.3	738.8	738.8	738.3	737.8
152.5°	757.7	757.1	756.5	755.9	756.5	757.1	757.7	758.4	758.4	757.7	757.1
155°	782.9	782.4	781.9	781.4	781.9	782.4	782.9	783.4	783.2	782.4	781.5
157.5°	805.7	804.9	804.1	803.3	804.1	804.9	805.7	806.5	806.3	805.2	804.1
160°	819.0	818.3	817.7	817.0	817.7	818.3	819.0	819.6	819.5	818.5	817.5
162.5°	831.2	830.5	829.7	828.9	829.7	830.5	831.2	832.0	831.9	830.8	829.6
165°	846.9	846.1	845.3	844.5	845.3	846.1	846.9	847.8	847.6	846.4	845.3
167.5°	859.8	858.9	858.1	857.2	858.1	858.9	859.8	860.6	860.5	859.3	858.2
170°	866.7	865.7	864.7	863.7	864.7	865.7	866.7	867.7	867.6	866.5	865.3
172.5°	872.1	871.1	870.1	869.1	870.1	871.1	872.1	873.0	873.0	871.8	870.7
175°	877.8	876.9	875.9	874.9	875.9	876.9	877.8	878.8	878.8	877.6	876.4
177.5°	879.9	879.1	878.3	877.5	878.3	879.1	879.9	880.7	880.7	879.9	879.1
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-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°	11.5	12.1	11.9	11.7	11.0	10.8	10.8	10.9	11.6	11.7	11.8
90°	25.6	26.0	22.3	18.7	15.1	11.5	8.7	6.7	4.7	2.7	0.7
92.5°	23.7	23.6	22.7	21.9	21.0	20.2	19.0	17.6	16.1	14.7	13.2
95°	47.5	47.5	47.2	46.8	46.5	46.2	45.2	43.5	41.9	40.2	38.6
97.5°	79.8	79.8	79.2	78.6	78.0	77.3	76.3	74.8	73.4	71.9	70.5
100°	102.4	102.4	101.9	101.4	100.9	100.4	99.5	98.2	96.9	95.6	94.2
102.5°	126.9	126.7	126.1	125.5	124.9	124.2	123.4	122.3	121.3	120.2	119.2
105°	163.6	163.3	162.9	162.6	162.3	161.9	161.5	161.0	160.5	160.0	159.5
107.5°	203.6	203.5	203.5	203.5	203.5	203.5	203.1	202.4	201.7	200.9	200.2
110°	230.8	230.8	230.8	230.8	230.8	230.8	230.3	229.3	228.3	227.3	226.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	258.3	258.7	258.8	258.9	259.1	259.2	258.8	257.8	256.8	255.8	254.8
115°	299.6	299.8	300.1	300.4	300.8	301.1	300.8	299.8	298.8	297.8	296.8
117.5°	340.1	340.5	341.4	342.3	343.2	344.1	343.9	342.6	341.3	340.0	338.7
120°	366.6	366.6	367.9	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6
122.5°	394.7	395.1	396.0	396.9	397.8	398.8	398.4	396.8	395.3	393.7	392.1
125°	435.8	436.3	436.8	437.3	437.8	438.3	437.8	436.3	434.8	433.4	431.9
127.5°	475.8	476.4	477.0	477.6	478.2	478.8	478.1	476.2	474.4	472.5	470.6
130°	502.8	503.1	503.4	503.8	504.1	504.4	503.5	501.4	499.2	497.1	494.9
132.5°	529.7	530.4	530.4	530.3	530.2	530.2	529.2	527.5	525.8	524.0	522.3
135°	568.2	568.4	568.1	567.8	567.4	567.1	566.0	564.2	562.4	560.6	558.8
137.5°	605.7	605.8	605.4	605.0	604.5	604.1	603.1	601.7	600.2	598.7	597.2
140°	630.7	630.7	629.9	629.1	628.3	627.4	626.3	624.8	623.3	621.8	620.4
142.5°	653.4	653.3	652.7	652.2	651.6	651.1	650.0	648.6	647.1	645.6	644.1
145°	688.0	687.9	686.9	685.9	684.9	683.9	682.9	681.7	680.5	679.4	678.2
147.5°	718.2	717.9	717.2	716.5	715.9	715.2	714.2	712.8	711.4	710.0	708.7
150°	737.4	736.9	736.2	735.5	734.9	734.2	733.4	732.4	731.4	730.4	729.4
152.5°	756.5	755.9	755.1	754.3	753.5	752.7	751.8	750.8	749.8	748.8	747.8
155°	780.7	779.9	779.4	778.9	778.4	777.9	777.4	776.9	776.4	775.9	775.4
157.5°	803.0	801.9	801.6	801.3	801.0	800.7	800.4	800.0	799.7	799.4	799.0
160°	816.5	815.5	815.3	815.2	815.0	814.9	814.6	814.3	813.9	813.6	813.3
162.5°	828.5	827.4	827.2	827.1	826.9	826.7	826.6	826.5	826.5	826.4	826.3
165°	844.1	843.0	843.0	843.0	843.0	843.0	843.1	843.2	843.4	843.5	843.7
167.5°	857.0	855.9	855.9	855.9	856.0	856.0	856.3	856.8	857.3	857.8	858.3
170°	864.2	863.0	863.2	863.3	863.5	863.7	864.0	864.5	865.0	865.5	866.0
172.5°	869.5	868.3	868.5	868.7	868.8	869.0	869.3	869.8	870.3	870.8	871.3
175°	875.3	874.1	874.5	874.8	875.1	875.5	875.9	876.4	876.9	877.4	877.8
177.5°	878.3	877.5	877.8	878.1	878.3	878.6	878.9	879.3	879.7	880.1	880.5
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331562

CATALOG NUMBER: S122DIW-S865D710U835-4F0-1E-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°	13.8	16.3	16.7	18.7	18.2	18.9	19.7	19.9	20.1	19.5	18.9
90°	2.7	4.7	6.7	8.7	11.5	15.1	18.7	22.3	26.0	25.6	25.3
92.5°	14.7	16.1	17.6	19.0	20.2	21.0	21.9	22.7	23.6	23.7	23.7
95°	40.2	41.9	43.5	45.2	46.2	46.5	46.8	47.2	47.5	47.5	47.5
97.5°	71.9	73.4	74.8	76.3	77.3	78.0	78.6	79.2	79.8	79.8	79.8
100°	95.6	96.9	98.2	99.5	100.4	100.9	101.4	101.9	102.4	102.4	102.4
102.5°	120.2	121.3	122.3	123.4	124.2	124.9	125.5	126.1	126.7	126.9	127.0
105°	160.0	160.5	161.0	161.5	161.9	162.3	162.6	162.9	163.3	163.6	163.9
107.5°	200.9	201.7	202.4	203.1	203.5	203.5	203.5	203.5	203.5	203.6	203.7
110°	227.3	228.3	229.3	230.3	230.8	230.8	230.8	230.8	230.8	230.8	230.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	255.8	256.8	257.8	258.8	259.2	259.1	258.9	258.8	258.7	258.3	257.9
115°	297.8	298.8	299.8	300.8	301.1	300.8	300.4	300.1	299.8	299.6	299.5
117.5°	340.0	341.3	342.6	343.9	344.1	343.2	342.3	341.4	340.5	340.1	339.7
120°	367.9	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6	366.6	366.6
122.5°	393.7	395.3	396.8	398.4	398.8	397.8	396.9	396.0	395.1	394.7	394.3
125°	433.4	434.8	436.3	437.8	438.3	437.8	437.3	436.8	436.3	435.8	435.3
127.5°	472.5	474.4	476.2	478.1	478.8	478.2	477.6	477.0	476.4	475.8	475.2
130°	497.1	499.2	501.4	503.5	504.4	504.1	503.8	503.4	503.1	502.8	502.5
132.5°	524.0	525.8	527.5	529.2	530.2	530.2	530.3	530.4	530.4	529.7	529.0
135°	560.6	562.4	564.2	566.0	567.1	567.4	567.8	568.1	568.4	568.2	568.1
137.5°	598.7	600.2	601.7	603.1	604.1	604.5	605.0	605.4	605.8	605.7	605.5
140°	621.8	623.3	624.8	626.3	627.4	628.3	629.1	629.9	630.7	630.7	630.7
142.5°	645.6	647.1	648.6	650.0	651.1	651.6	652.2	652.7	653.3	653.4	653.6
145°	679.4	680.5	681.7	682.9	683.9	684.9	685.9	686.9	687.9	688.0	688.2
147.5°	710.0	711.4	712.8	714.2	715.2	715.9	716.5	717.2	717.9	718.2	718.6
150°	730.4	731.4	732.4	733.4	734.2	734.9	735.5	736.2	736.9	737.4	737.8
152.5°	748.8	749.8	750.8	751.8	752.7	753.5	754.3	755.1	755.9	756.5	757.1
155°	775.9	776.4	776.9	777.4	777.9	778.4	778.9	779.4	779.9	780.7	781.5
157.5°	799.4	799.7	800.0	800.4	800.7	801.0	801.3	801.6	801.9	803.0	804.1
160°	813.6	813.9	814.3	814.6	814.9	815.0	815.2	815.3	815.5	816.5	817.5
162.5°	826.4	826.5	826.5	826.6	826.7	826.9	827.1	827.2	827.4	828.5	829.6
165°	843.5	843.4	843.2	843.1	843.0	843.0	843.0	843.0	843.0	844.1	845.3
167.5°	857.8	857.3	856.8	856.3	856.0	856.0	855.9	855.9	855.9	857.0	858.2
170°	865.5	865.0	864.5	864.0	863.7	863.5	863.3	863.2	863.0	864.2	865.3
172.5°	870.8	870.3	869.8	869.3	869.0	868.8	868.7	868.5	868.3	869.5	870.7
175°	877.4	876.9	876.4	875.9	875.5	875.1	874.8	874.5	874.1	875.3	876.4
177.5°	880.1	879.7	879.3	878.9	878.6	878.3	878.1	877.8	877.5	878.3	879.1
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



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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°	19.3	19.3	18.7	18.7	19.3	18.8	18.8
90°	25.0	24.7	24.6	24.7	24.9	25.1	25.2
92.5°	23.8	23.9	23.9	23.9	24.0	24.0	24.0
95°	47.5	47.5	47.3	47.0	46.7	46.3	46.0
97.5°	79.8	79.8	79.8	79.8	79.8	79.7	79.7
100°	102.4	102.4	102.3	102.2	102.0	101.8	101.7
102.5°	127.1	127.3	127.3	127.1	126.9	126.8	126.6
105°	164.2	164.6	164.7	164.7	164.7	164.7	164.7
107.5°	203.9	204.0	203.7	202.9	202.2	201.4	200.7
110°	230.8	230.8	230.5	230.0	229.5	229.0	228.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.5	257.1	256.7	256.4	256.0	255.6	255.3
115°	299.3	299.1	298.8	298.3	297.8	297.3	296.8
117.5°	339.3	338.9	338.4	337.9	337.4	336.9	336.4
120°	366.6	366.6	366.3	365.8	365.3	364.8	364.3
122.5°	393.9	393.5	393.1	392.7	392.4	392.0	391.7
125°	434.8	434.3	434.0	433.9	433.7	433.5	433.4
127.5°	474.6	474.0	473.5	472.9	472.4	471.9	471.4
130°	502.1	501.8	501.3	500.6	500.0	499.3	498.7
132.5°	528.2	527.5	526.9	526.4	525.8	525.3	524.8
135°	567.9	567.8	567.4	566.9	566.4	565.9	565.4
137.5°	605.4	605.3	604.9	604.2	603.6	602.9	602.2
140°	630.7	630.7	630.4	629.8	629.1	628.4	627.8
142.5°	653.7	653.8	653.6	652.9	652.2	651.6	650.9
145°	688.4	688.5	688.3	687.6	687.0	686.3	685.7
147.5°	718.9	719.3	719.2	718.6	717.9	717.3	716.7
150°	738.3	738.8	738.8	738.3	737.8	737.4	736.9
152.5°	757.7	758.4	758.4	757.7	757.1	756.5	755.9
155°	782.4	783.2	783.4	782.9	782.4	781.9	781.4
157.5°	805.2	806.3	806.5	805.7	804.9	804.1	803.3
160°	818.5	819.5	819.6	819.0	818.3	817.7	817.0
162.5°	830.8	831.9	832.0	831.2	830.5	829.7	828.9
165°	846.4	847.6	847.8	846.9	846.1	845.3	844.5
167.5°	859.3	860.5	860.6	859.8	858.9	858.1	857.2
170°	866.5	867.6	867.7	866.7	865.7	864.7	863.7
172.5°	871.8	873.0	873.0	872.1	871.1	870.1	869.1
175°	877.6	878.8	878.8	877.8	876.9	875.9	874.9
177.5°	879.9	880.7	880.7	879.9	879.1	878.3	877.5
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3

(END OF REPORT)