

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: P331562-840

Luminaire Tested: **S122DIW-S865D710U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331562-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D710U840-4F0-1E-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: 6333.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 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: Semi-Direct

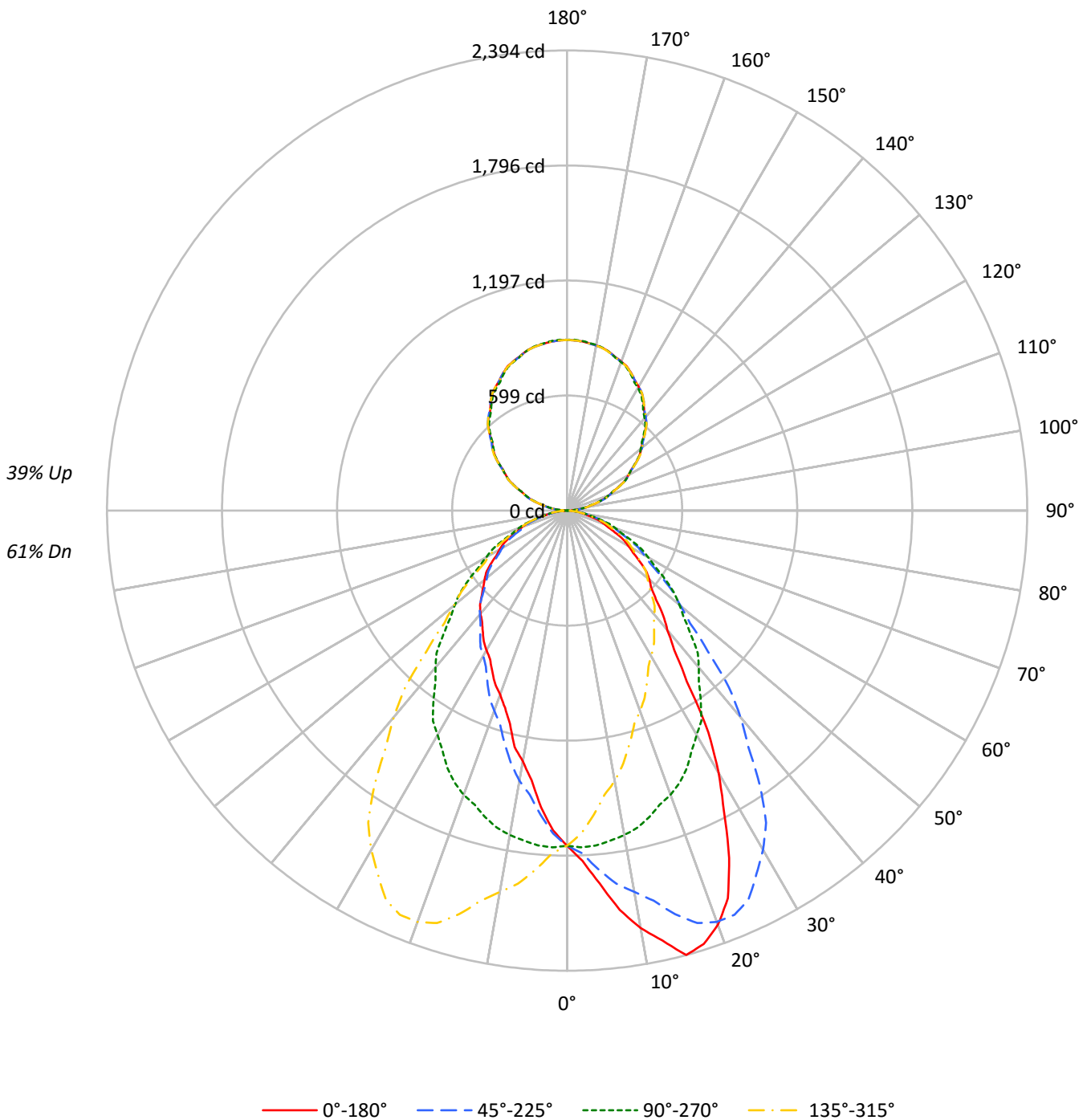
Input Watts (W): 53.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	2.6
10°-20°	482.7	7.6
20°-30°	700.6	11.1
30°-40°	739.3	11.7
40°-50°	654.6	10.3
50°-60°	522.4	8.2
60°-70°	355.1	5.6
70°-80°	182.0	2.9
80°-90°	47.4	0.7
90°-100°	56.3	0.9
100°-110°	174.8	2.8
110°-120°	298.7	4.7
120°-130°	392.8	6.2
130°-140°	440.9	7.0
140°-150°	432.3	6.8
150°-160°	362.6	5.7
160°-170°	240.5	3.8
170°-180°	84.1	1.3
0°-30°	1349.4	21.3
0°-40°	2088.7	33.0
0°-60°	3265.7	51.6
0°-90°	3850.2	60.8
90°-120°	529.8	8.4
90°-150°	1795.8	28.4
90°-180°	2483.0	39.2
0°-180°	6333.2	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°	25	1	25	1	25	13
95°	46	39	46	39	46	52
105°	166	161	166	161	166	175
115°	300	300	300	300	300	296
125°	438	436	438	436	438	390
135°	571	564	571	564	571	440
145°	692	685	692	685	692	432
155°	789	783	789	783	789	363
165°	853	852	853	852	853	241
175°	884	886	884	886	884	84
180°	888	888	888	888	888	



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**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°	19.0	19.0	19.5	18.9	18.9	19.5	19.5	19.1	19.7	20.3	20.1
90°	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5	25.9	26.3	22.5
92.5°	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9	23.9	23.8	22.9
95°	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0	48.0	48.0	47.7
97.5°	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.0
100°	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4	103.4	103.4	102.9
102.5°	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3	128.2	127.9	127.3
105°	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5	165.2	164.9	164.5
107.5°	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7	205.6	205.5	205.5
110°	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1	233.1	233.1	233.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4	260.8	261.3	261.4
115°	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5	302.6	302.8	303.1
117.5°	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1	343.5	343.9	344.8
120°	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2	370.2	370.2	371.5
122.5°	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2	398.6	399.0	399.9
125°	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6	440.1	440.6	441.1
127.5°	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9	480.5	481.1	481.7
130°	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5	507.8	508.1	508.4
132.5°	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2	534.9	535.6	535.6
135°	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7	573.8	574.0	573.7
137.5°	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5	611.7	611.8	611.4
140°	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9	636.9	636.9	636.1
142.5°	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0	659.8	659.7	659.1
145°	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0	694.8	694.7	693.7
147.5°	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7	725.3	725.0	724.3
150°	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1	744.7	744.2	743.5
152.5°	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6	764.0	763.4	762.5
155°	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2	788.4	787.6	787.1
157.5°	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0	810.9	809.8	809.5
160°	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6	824.6	823.5	823.3
162.5°	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8	836.7	835.6	835.4
165°	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6	852.4	851.3	851.3
167.5°	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7	865.5	864.3	864.3
170°	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8	872.7	871.5	871.7
172.5°	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3	878.1	876.9	877.1
175°	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0	883.9	882.7	883.1
177.5°	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8	887.0	886.2	886.5
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



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**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°	19.9	19.1	18.4	18.9	16.9	16.5	13.9	11.9	11.8	11.7	11.0
90°	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7	2.7	4.7	6.8
92.5°	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3	14.8	16.3	17.8
95°	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0	40.6	42.3	43.9
97.5°	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2	72.6	74.1	75.5
100°	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1	96.5	97.9	99.2
102.5°	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4	121.4	122.5	123.5
105°	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1	161.6	162.1	162.6
107.5°	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2	202.9	203.7	204.4
110°	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5	229.5	230.6	231.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3	258.3	259.3	260.3
115°	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7	300.7	301.7	302.8
117.5°	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0	343.4	344.7	346.0
120°	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	371.5	372.8	374.2
122.5°	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0	397.6	399.2	400.7
125°	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2	437.7	439.1	440.6
127.5°	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2	477.2	479.1	480.9
130°	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8	502.0	504.1	506.3
132.5°	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5	529.2	531.0	532.7
135°	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3	566.1	567.9	569.8
137.5°	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1	604.6	606.1	607.6
140°	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5	627.9	629.4	631.0
142.5°	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5	652.0	653.5	655.0
145°	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9	686.1	687.2	688.4
147.5°	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7	717.0	718.4	719.8
150°	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6	737.6	738.6	739.6
152.5°	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2	756.2	757.2	758.2
155°	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0	783.6	784.1	784.6
157.5°	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9	807.3	807.6	807.9
160°	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3	821.6	821.9	822.3
162.5°	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5	834.6	834.7	834.7
165°	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0	851.8	851.7	851.5
167.5°	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8	866.3	865.8	865.3
170°	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5	874.0	873.5	873.0
172.5°	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9	879.4	878.9	878.4
175°	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5	886.1	885.6	885.0
177.5°	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2	888.8	888.4	888.0
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331562-840

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**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°	10.9	10.9	11.1	11.8	12.0	12.2	11.6	11.5	11.5	10.3	10.3
90°	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5	25.2	24.9	24.8
92.5°	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9	24.0	24.1	24.1
95°	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0	48.0	48.0	47.8
97.5°	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6	80.6	80.6	80.6
100°	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4	103.4	103.4	103.3
102.5°	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3	128.4	128.6	128.6
105°	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5	165.8	166.2	166.3
107.5°	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7	205.9	206.0	205.7
110°	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	232.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4	260.0	259.6	259.2
115°	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5	302.3	302.1	301.7
117.5°	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1	342.6	342.2	341.7
120°	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2	370.2	370.2	369.9
122.5°	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2	397.8	397.4	397.0
125°	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6	439.1	438.6	438.3
127.5°	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9	479.3	478.7	478.2
130°	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5	507.1	506.8	506.2
132.5°	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2	533.4	532.7	532.1
135°	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7	573.5	573.4	573.0
137.5°	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5	611.4	611.3	610.9
140°	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9	636.9	636.9	636.6
142.5°	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0	660.1	660.2	660.0
145°	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0	695.2	695.3	695.1
147.5°	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7	726.0	726.4	726.3
150°	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1	745.6	746.1	746.1
152.5°	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6	765.2	765.9	765.9
155°	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2	790.1	790.9	791.1
157.5°	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0	813.1	814.3	814.5
160°	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6	826.6	827.6	827.7
162.5°	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8	839.0	840.1	840.2
165°	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6	854.7	856.0	856.2
167.5°	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7	867.8	869.0	869.1
170°	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8	875.0	876.2	876.3
172.5°	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3	880.4	881.6	881.6
175°	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0	886.3	887.5	887.5
177.5°	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8	888.6	889.4	889.4
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331562-840

CATALOG NUMBER: S122DIW-S865D710U840-4F0-1E-UDD-A1

**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°	10.4	9.9	9.9	9.4	9.9	9.9	10.4	10.3	10.3	11.5	11.5
90°	24.9	25.1	25.3	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5
92.5°	24.1	24.2	24.2	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9
95°	47.5	47.2	46.8	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0
97.5°	80.6	80.6	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6
100°	103.2	103.0	102.8	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4
102.5°	128.4	128.2	128.1	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3
105°	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5
107.5°	204.9	204.2	203.4	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7
110°	232.3	231.8	231.3	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	258.9	258.5	258.1	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4
115°	301.2	300.7	300.2	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5
117.5°	341.2	340.7	340.2	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1
120°	369.4	368.9	368.4	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2
122.5°	396.6	396.3	395.9	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2
125°	438.2	438.0	437.8	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6
127.5°	477.6	477.1	476.6	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9
130°	505.5	504.9	504.2	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5
132.5°	531.6	531.0	530.5	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2
135°	572.5	572.0	571.5	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7
137.5°	610.2	609.6	608.8	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5
140°	636.0	635.3	634.6	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9
142.5°	659.3	658.6	658.0	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0
145°	694.4	693.8	693.1	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0
147.5°	725.7	725.0	724.4	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7
150°	745.6	745.1	744.7	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1
152.5°	765.2	764.6	764.0	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6
155°	790.6	790.1	789.6	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2
157.5°	813.6	812.8	812.0	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0
160°	827.1	826.4	825.8	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6
162.5°	839.4	838.7	837.9	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8
165°	855.3	854.4	853.6	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6
167.5°	868.3	867.4	866.6	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7
170°	875.3	874.2	873.2	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8
172.5°	880.7	879.7	878.7	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3
175°	886.5	885.6	884.5	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0
177.5°	888.6	887.8	887.0	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331562-840

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**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°	11.6	12.2	12.0	11.8	11.1	10.9	10.9	11.0	11.7	11.8	11.9
90°	25.9	26.3	22.5	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7
92.5°	23.9	23.8	22.9	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3
95°	48.0	48.0	47.7	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0
97.5°	80.6	80.6	80.0	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2
100°	103.4	103.4	102.9	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1
102.5°	128.2	127.9	127.3	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4
105°	165.2	164.9	164.5	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1
107.5°	205.6	205.5	205.5	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2
110°	233.1	233.1	233.1	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.8	261.3	261.4	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3
115°	302.6	302.8	303.1	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7
117.5°	343.5	343.9	344.8	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0
120°	370.2	370.2	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2
122.5°	398.6	399.0	399.9	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0
125°	440.1	440.6	441.1	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2
127.5°	480.5	481.1	481.7	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2
130°	507.8	508.1	508.4	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8
132.5°	534.9	535.6	535.6	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5
135°	573.8	574.0	573.7	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3
137.5°	611.7	611.8	611.4	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1
140°	636.9	636.9	636.1	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5
142.5°	659.8	659.7	659.1	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5
145°	694.8	694.7	693.7	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9
147.5°	725.3	725.0	724.3	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7
150°	744.7	744.2	743.5	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6
152.5°	764.0	763.4	762.5	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2
155°	788.4	787.6	787.1	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0
157.5°	810.9	809.8	809.5	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9
160°	824.6	823.5	823.3	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3
162.5°	836.7	835.6	835.4	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5
165°	852.4	851.3	851.3	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0
167.5°	865.5	864.3	864.3	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8
170°	872.7	871.5	871.7	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5
172.5°	878.1	876.9	877.1	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9
175°	883.9	882.7	883.1	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5
177.5°	887.0	886.2	886.5	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331562-840

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**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	16.5	16.9	18.9	18.4	19.1	19.9	20.1	20.3	19.7	19.1
90°	2.7	4.7	6.8	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5
92.5°	14.8	16.3	17.8	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9
95°	40.6	42.3	43.9	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0
97.5°	72.6	74.1	75.5	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6
100°	96.5	97.9	99.2	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4
102.5°	121.4	122.5	123.5	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3
105°	161.6	162.1	162.6	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5
107.5°	202.9	203.7	204.4	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7
110°	229.5	230.6	231.6	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	258.3	259.3	260.3	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4
115°	300.7	301.7	302.8	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5
117.5°	343.4	344.7	346.0	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1
120°	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2
122.5°	397.6	399.2	400.7	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2
125°	437.7	439.1	440.6	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6
127.5°	477.2	479.1	480.9	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9
130°	502.0	504.1	506.3	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5
132.5°	529.2	531.0	532.7	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2
135°	566.1	567.9	569.8	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7
137.5°	604.6	606.1	607.6	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5
140°	627.9	629.4	631.0	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9
142.5°	652.0	653.5	655.0	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0
145°	686.1	687.2	688.4	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0
147.5°	717.0	718.4	719.8	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7
150°	737.6	738.6	739.6	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1
152.5°	756.2	757.2	758.2	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6
155°	783.6	784.1	784.6	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2
157.5°	807.3	807.6	807.9	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0
160°	821.6	821.9	822.3	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6
162.5°	834.6	834.7	834.7	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8
165°	851.8	851.7	851.5	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6
167.5°	866.3	865.8	865.3	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7
170°	874.0	873.5	873.0	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8
172.5°	879.4	878.9	878.4	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3
175°	886.1	885.6	885.0	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0
177.5°	888.8	888.4	888.0	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



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**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°	19.5	19.5	18.9	18.9	19.5	19.0	19.0
90°	25.2	24.9	24.8	24.9	25.1	25.3	25.4
92.5°	24.0	24.1	24.1	24.1	24.2	24.2	24.2
95°	48.0	48.0	47.8	47.5	47.2	46.8	46.5
97.5°	80.6	80.6	80.6	80.6	80.6	80.5	80.5
100°	103.4	103.4	103.3	103.2	103.0	102.8	102.7
102.5°	128.4	128.6	128.6	128.4	128.2	128.1	127.8
105°	165.8	166.2	166.3	166.3	166.3	166.3	166.3
107.5°	205.9	206.0	205.7	204.9	204.2	203.4	202.7
110°	233.1	233.1	232.8	232.3	231.8	231.3	230.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	260.0	259.6	259.2	258.9	258.5	258.1	257.8
115°	302.3	302.1	301.7	301.2	300.7	300.2	299.7
117.5°	342.6	342.2	341.7	341.2	340.7	340.2	339.7
120°	370.2	370.2	369.9	369.4	368.9	368.4	367.9
122.5°	397.8	397.4	397.0	396.6	396.3	395.9	395.6
125°	439.1	438.6	438.3	438.2	438.0	437.8	437.7
127.5°	479.3	478.7	478.2	477.6	477.1	476.6	476.1
130°	507.1	506.8	506.2	505.5	504.9	504.2	503.6
132.5°	533.4	532.7	532.1	531.6	531.0	530.5	530.0
135°	573.5	573.4	573.0	572.5	572.0	571.5	571.0
137.5°	611.4	611.3	610.9	610.2	609.6	608.8	608.1
140°	636.9	636.9	636.6	636.0	635.3	634.6	634.0
142.5°	660.1	660.2	660.0	659.3	658.6	658.0	657.3
145°	695.2	695.3	695.1	694.4	693.8	693.1	692.5
147.5°	726.0	726.4	726.3	725.7	725.0	724.4	723.8
150°	745.6	746.1	746.1	745.6	745.1	744.7	744.2
152.5°	765.2	765.9	765.9	765.2	764.6	764.0	763.4
155°	790.1	790.9	791.1	790.6	790.1	789.6	789.1
157.5°	813.1	814.3	814.5	813.6	812.8	812.0	811.2
160°	826.6	827.6	827.7	827.1	826.4	825.8	825.1
162.5°	839.0	840.1	840.2	839.4	838.7	837.9	837.1
165°	854.7	856.0	856.2	855.3	854.4	853.6	852.8
167.5°	867.8	869.0	869.1	868.3	867.4	866.6	865.7
170°	875.0	876.2	876.3	875.3	874.2	873.2	872.2
172.5°	880.4	881.6	881.6	880.7	879.7	878.7	877.7
175°	886.3	887.5	887.5	886.5	885.6	884.5	883.5
177.5°	888.6	889.4	889.4	888.6	887.8	887.0	886.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0

(END OF REPORT)