

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: P331591

Luminaire Tested: **S122DIW-S1005D710U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331591
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-S1005D710U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 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: 7236.9 lumens
Efficiency: N/A
Efficacy: 121.0 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

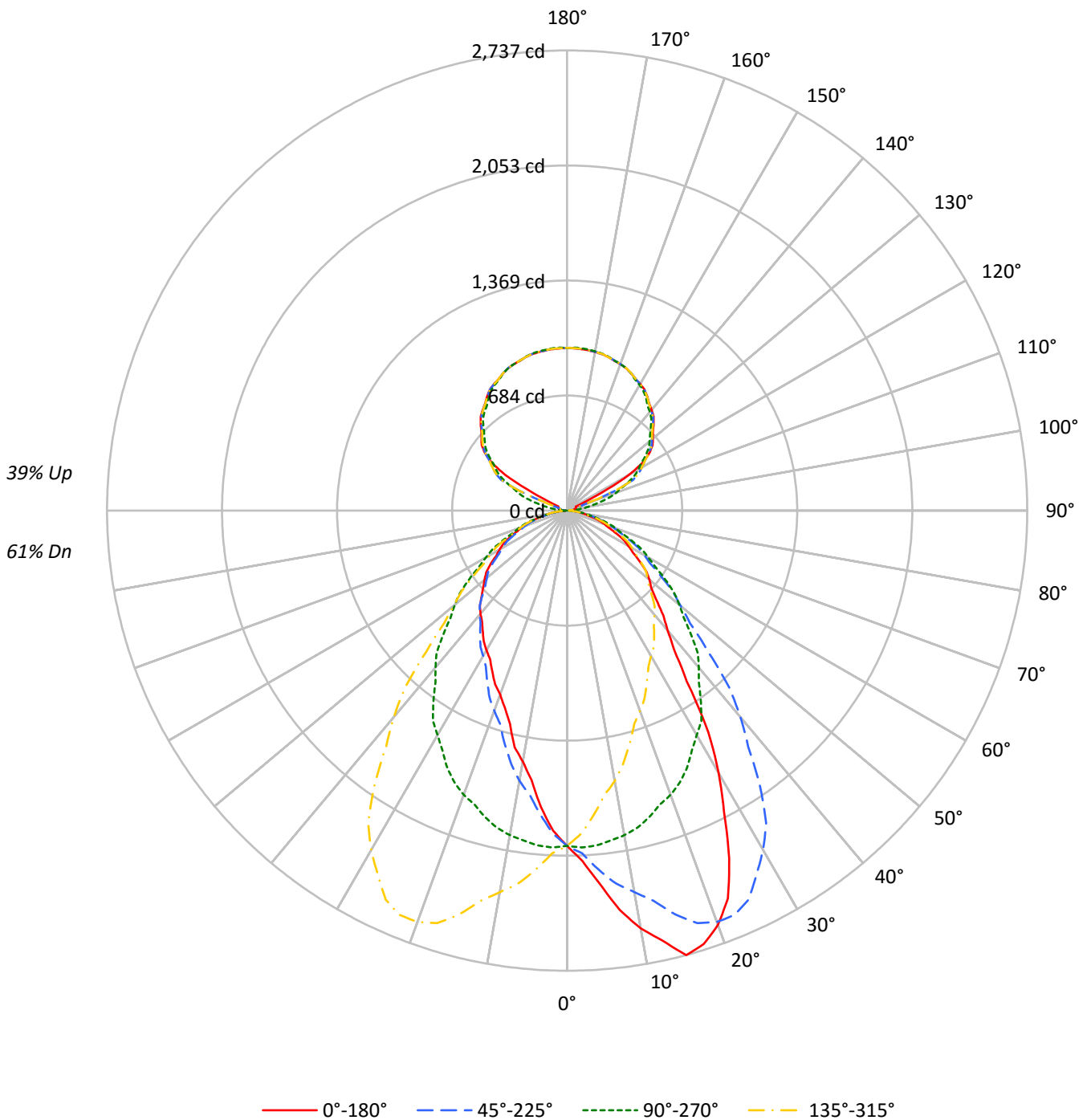
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	90	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	54	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°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.6
10°-20°	552.1	7.6
20°-30°	801.2	11.1
30°-40°	845.5	11.7
40°-50°	748.6	10.3
50°-60°	597.4	8.3
60°-70°	406.1	5.6
70°-80°	208.2	2.9
80°-90°	52.6	0.7
90°-100°	32.3	0.4
100°-110°	118.3	1.6
110°-120°	316.3	4.4
120°-130°	522.2	7.2
130°-140°	555.4	7.7
140°-150°	516.2	7.1
150°-160°	415.0	5.7
160°-170°	267.4	3.7
170°-180°	92.1	1.3
0°-30°	1543.2	21.3
0°-40°	2388.7	33.0
0°-60°	3734.8	51.6
0°-90°	4401.7	60.8
90°-120°	467.0	6.5
90°-150°	2060.7	28.5
90°-180°	2835.0	39.2
0°-180°	7236.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	19	1	19	1	19	10
95°	30	46	30	46	30	28
105°	53	213	53	213	53	55
115°	57	402	57	402	57	144
125°	598	569	598	569	598	518
135°	727	704	727	704	727	561
145°	830	817	830	817	830	519
155°	900	900	900	900	900	415
165°	946	948	946	948	946	267
175°	964	970	964	970	964	92
180°	968	968	968	968	968	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	19.7	19.7	20.2	19.5	19.5	20.0	19.8	19.1	19.5	20.0	20.3
90°	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6	14.8	14.0	12.8
92.5°	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1	16.6	16.2	15.6
95°	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9	28.1	27.3	26.2
97.5°	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8	37.2	36.5	34.0
100°	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4	41.1	39.9	37.3
102.5°	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3	42.6	41.0	63.1
105°	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1	44.4	42.7	85.2
107.5°	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3	58.0	59.8	110.7
110°	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4	107.0	122.5	167.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5	252.3	309.0	320.1
115°	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9	359.9	431.9	428.0
117.5°	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6	461.0	478.4	475.7
120°	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9	515.0	513.1	510.3
122.5°	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4	547.3	546.2	543.1
125°	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7	592.6	591.5	588.6
127.5°	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6	634.0	632.4	630.2
130°	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2	660.5	658.8	657.0
132.5°	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0	686.5	685.1	683.4
135°	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9	723.3	721.8	720.4
137.5°	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1	757.6	756.1	754.5
140°	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3	779.9	778.5	776.7
142.5°	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7	800.5	799.2	797.2
145°	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3	829.3	828.2	825.5
147.5°	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3	854.5	853.6	851.0
150°	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6	869.7	868.8	866.3
152.5°	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6	883.7	882.8	880.4
155°	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5	902.6	901.7	899.8
157.5°	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5	918.4	917.3	916.0
160°	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7	927.8	926.9	925.9
162.5°	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4	936.3	935.3	934.5
165°	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0	946.9	945.8	945.3
167.5°	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8	955.7	954.6	954.2
170°	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3	960.2	959.1	958.8
172.5°	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6	963.5	962.4	962.1
175°	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3	967.2	966.1	965.8
177.5°	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7	967.8	966.9	966.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	20.7	20.4	20.2	21.1	18.9	18.6	15.8	13.6	13.4	13.1	12.2
90°	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1	14.0	13.8	13.7
95°	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5	40.4	35.2	30.1
97.5°	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3	75.8	61.4	46.9
100°	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9	102.6	81.3	60.0
102.5°	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9	156.4	151.8	147.3
105°	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8	217.5	222.2	226.8
107.5°	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0	275.8	279.6	283.3
110°	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1	313.4	316.7	319.9



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0	348.9	351.8	354.6
115°	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5	405.2	407.8	410.5
117.5°	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1	456.0	459.0	461.9
120°	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0	492.4	494.7	497.0
122.5°	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4	523.9	526.3	528.8
125°	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1	571.2	573.2	575.2
127.5°	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4	614.6	616.9	619.1
130°	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8	642.3	644.8	647.3
132.5°	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9	670.0	672.1	674.2
135°	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3	706.7	709.2	711.7
137.5°	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1	742.8	744.6	746.3
140°	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2	766.4	767.6	768.9
142.5°	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3	786.4	787.6	788.7
145°	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0	816.8	816.7	816.5
147.5°	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5	844.0	843.4	842.8
150°	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5	861.4	860.3	859.2
152.5°	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6	876.4	875.2	873.9
155°	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6	898.2	896.8	895.4
157.5°	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8	915.6	914.4	913.2
160°	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	925.9	925.0	924.1
162.5°	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8	934.9	934.0	933.0
165°	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9	946.9	946.0	945.1
167.5°	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8	955.9	955.0	954.0
170°	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9	960.9	960.0	959.1
172.5°	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2	964.3	963.4	962.4
175°	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6	968.5	967.4	966.3
177.5°	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3	969.4	968.5	967.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	11.9	11.6	11.2	11.5	11.1	10.8	10.3	10.5	10.6	9.6	9.7
90°	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6	16.3	17.1	17.7
92.5°	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1	17.5	17.9	18.2
95°	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9	29.6	30.4	30.7
97.5°	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8	38.4	39.0	39.4
100°	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4	43.6	44.9	45.7
102.5°	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3	45.9	47.5	48.5
105°	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1	47.8	49.5	50.7
107.5°	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3	54.6	52.8	52.3
110°	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4	75.8	60.3	52.8



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5	138.8	82.0	53.9
115°	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9	215.8	143.8	102.2
117.5°	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6	426.1	408.7	381.6
120°	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9	518.7	520.6	511.0
122.5°	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4	549.5	550.7	549.2
125°	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7	594.8	595.9	596.7
127.5°	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6	637.2	638.8	639.6
130°	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2	663.9	665.6	666.4
132.5°	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0	689.5	690.9	691.6
135°	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9	726.4	728.0	728.6
137.5°	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1	760.6	762.2	762.7
140°	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3	782.7	784.1	784.4
142.5°	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7	803.0	804.3	804.5
145°	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3	831.4	832.5	832.7
147.5°	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3	856.1	856.9	857.0
150°	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6	871.6	872.5	872.6
152.5°	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6	885.6	886.5	886.5
155°	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5	904.5	905.4	905.2
157.5°	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5	920.5	921.6	921.5
160°	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7	929.7	930.6	930.5
162.5°	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4	938.4	939.5	939.4
165°	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0	949.0	950.1	950.1
167.5°	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8	957.9	958.9	958.8
170°	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3	962.3	963.4	963.3
172.5°	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6	965.7	966.8	966.6
175°	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3	969.3	970.4	970.2
177.5°	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7	969.5	970.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	9.7	9.2	9.2	8.7	9.2	9.2	9.7	9.7	9.6	10.6	10.5
90°	18.0	18.3	18.6	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6
92.5°	18.3	18.5	18.7	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1
95°	30.6	30.4	30.3	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9
97.5°	39.6	39.8	40.0	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8
100°	46.0	46.3	46.6	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4
102.5°	49.0	49.4	49.8	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3
105°	51.3	52.0	52.6	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1
107.5°	52.9	53.5	54.1	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3
110°	53.4	54.1	54.7	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.4	54.9	55.4	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5
115°	91.0	79.8	68.6	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9
117.5°	344.8	308.0	271.2	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6
120°	490.0	469.0	448.0	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9
122.5°	545.1	541.0	537.0	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4
125°	597.1	597.6	598.1	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7
127.5°	639.7	639.8	639.9	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6
130°	666.2	666.1	665.9	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2
132.5°	691.4	691.3	691.1	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0
135°	728.3	728.0	727.7	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9
137.5°	762.1	761.6	761.1	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1
140°	783.6	782.8	782.0	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3
142.5°	803.8	803.0	802.2	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7
145°	831.9	831.1	830.3	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3
147.5°	856.3	855.7	855.0	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3
150°	871.8	871.0	870.2	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6
152.5°	885.4	884.4	883.4	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6
155°	904.0	902.8	901.5	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5
157.5°	920.3	919.1	917.9	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5
160°	929.4	928.3	927.3	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7
162.5°	938.0	936.7	935.3	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4
165°	949.0	948.0	946.9	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0
167.5°	957.4	956.0	954.6	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8
170°	961.9	960.5	959.1	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3
172.5°	965.2	963.8	962.4	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6
175°	968.6	967.1	965.5	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3
177.5°	969.2	968.0	966.9	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	10.3	10.8	11.1	11.5	11.2	11.6	11.9	12.2	13.1	13.4	13.6
90°	14.8	14.0	12.8	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7
92.5°	16.6	16.2	15.6	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1
95°	28.1	27.3	26.2	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5
97.5°	37.2	36.5	34.0	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3
100°	41.1	39.9	37.3	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9
102.5°	42.6	41.0	63.1	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9
105°	44.4	42.7	85.2	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8
107.5°	58.0	59.8	110.7	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0
110°	107.0	122.5	167.5	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	252.3	309.0	320.1	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0
115°	359.9	431.9	428.0	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5
117.5°	461.0	478.4	475.7	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1
120°	515.0	513.1	510.3	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0
122.5°	547.3	546.2	543.1	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4
125°	592.6	591.5	588.6	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1
127.5°	634.0	632.4	630.2	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4
130°	660.5	658.8	657.0	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8
132.5°	686.5	685.1	683.4	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9
135°	723.3	721.8	720.4	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3
137.5°	757.6	756.1	754.5	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1
140°	779.9	778.5	776.7	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2
142.5°	800.5	799.2	797.2	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3
145°	829.3	828.2	825.5	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0
147.5°	854.5	853.6	851.0	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5
150°	869.7	868.8	866.3	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5
152.5°	883.7	882.8	880.4	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6
155°	902.6	901.7	899.8	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6
157.5°	918.4	917.3	916.0	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8
160°	927.8	926.9	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9
162.5°	936.3	935.3	934.5	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8
165°	946.9	945.8	945.3	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9
167.5°	955.7	954.6	954.2	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8
170°	960.2	959.1	958.8	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9
172.5°	963.5	962.4	962.1	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2
175°	967.2	966.1	965.8	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6
177.5°	967.8	966.9	966.8	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331591

CATALOG NUMBER: S122DIW-S1005D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	15.8	18.6	18.9	21.1	20.2	20.4	20.7	20.3	20.0	19.5	19.1
90°	2.4	4.1	5.8	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6
92.5°	14.0	13.8	13.7	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1
95°	40.4	35.2	30.1	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9
97.5°	75.8	61.4	46.9	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8
100°	102.6	81.3	60.0	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4
102.5°	156.4	151.8	147.3	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3
105°	217.5	222.2	226.8	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1
107.5°	275.8	279.6	283.3	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3
110°	313.4	316.7	319.9	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.9	351.8	354.6	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5
115°	405.2	407.8	410.5	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9
117.5°	456.0	459.0	461.9	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6
120°	492.4	494.7	497.0	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9
122.5°	523.9	526.3	528.8	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4
125°	571.2	573.2	575.2	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7
127.5°	614.6	616.9	619.1	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6
130°	642.3	644.8	647.3	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2
132.5°	670.0	672.1	674.2	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0
135°	706.7	709.2	711.7	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9
137.5°	742.8	744.6	746.3	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1
140°	766.4	767.6	768.9	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3
142.5°	786.4	787.6	788.7	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7
145°	816.8	816.7	816.5	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3
147.5°	844.0	843.4	842.8	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3
150°	861.4	860.3	859.2	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6
152.5°	876.4	875.2	873.9	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6
155°	898.2	896.8	895.4	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5
157.5°	915.6	914.4	913.2	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5
160°	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7
162.5°	934.9	934.0	933.0	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4
165°	946.9	946.0	945.1	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0
167.5°	955.9	955.0	954.0	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8
170°	960.9	960.0	959.1	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3
172.5°	964.3	963.4	962.4	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6
175°	968.5	967.4	966.3	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3
177.5°	969.4	968.5	967.7	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	19.8	20.0	19.5	19.5	20.2	19.7	19.7
90°	16.3	17.1	17.7	18.0	18.3	18.6	18.9
92.5°	17.5	17.9	18.2	18.3	18.5	18.7	18.9
95°	29.6	30.4	30.7	30.6	30.4	30.3	30.1
97.5°	38.4	39.0	39.4	39.6	39.8	40.0	40.2
100°	43.6	44.9	45.7	46.0	46.3	46.6	46.9
102.5°	45.9	47.5	48.5	49.0	49.4	49.8	50.3
105°	47.8	49.5	50.7	51.3	52.0	52.6	53.2
107.5°	54.6	52.8	52.3	52.9	53.5	54.1	54.7
110°	75.8	60.3	52.8	53.4	54.1	54.7	55.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	138.8	82.0	53.9	54.4	54.9	55.4	55.9
115°	215.8	143.8	102.2	91.0	79.8	68.6	57.4
117.5°	426.1	408.7	381.6	344.8	308.0	271.2	234.4
120°	518.7	520.6	511.0	490.0	469.0	448.0	427.0
122.5°	549.5	550.7	549.2	545.1	541.0	537.0	532.9
125°	594.8	595.9	596.7	597.1	597.6	598.1	598.5
127.5°	637.2	638.8	639.6	639.7	639.8	639.9	640.0
130°	663.9	665.6	666.4	666.2	666.1	665.9	665.8
132.5°	689.5	690.9	691.6	691.4	691.3	691.1	691.0
135°	726.4	728.0	728.6	728.3	728.0	727.7	727.4
137.5°	760.6	762.2	762.7	762.1	761.6	761.1	760.5
140°	782.7	784.1	784.4	783.6	782.8	782.0	781.3
142.5°	803.0	804.3	804.5	803.8	803.0	802.2	801.4
145°	831.4	832.5	832.7	831.9	831.1	830.3	829.6
147.5°	856.1	856.9	857.0	856.3	855.7	855.0	854.3
150°	871.6	872.5	872.6	871.8	871.0	870.2	869.5
152.5°	885.6	886.5	886.5	885.4	884.4	883.4	882.3
155°	904.5	905.4	905.2	904.0	902.8	901.5	900.3
157.5°	920.5	921.6	921.5	920.3	919.1	917.9	916.6
160°	929.7	930.6	930.5	929.4	928.3	927.3	926.2
162.5°	938.4	939.5	939.4	938.0	936.7	935.3	934.0
165°	949.0	950.1	950.1	949.0	948.0	946.9	945.8
167.5°	957.9	958.9	958.8	957.4	956.0	954.6	953.2
170°	962.3	963.4	963.3	961.9	960.5	959.1	957.7
172.5°	965.7	966.8	966.6	965.2	963.8	962.4	961.0
175°	969.3	970.4	970.2	968.6	967.1	965.5	964.0
177.5°	969.5	970.4	970.3	969.2	968.0	966.9	965.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5

(END OF REPORT)