

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: P332474-840

Luminaire Tested: **S123RDIW-S1165D755U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332474-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D755U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7669.6 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

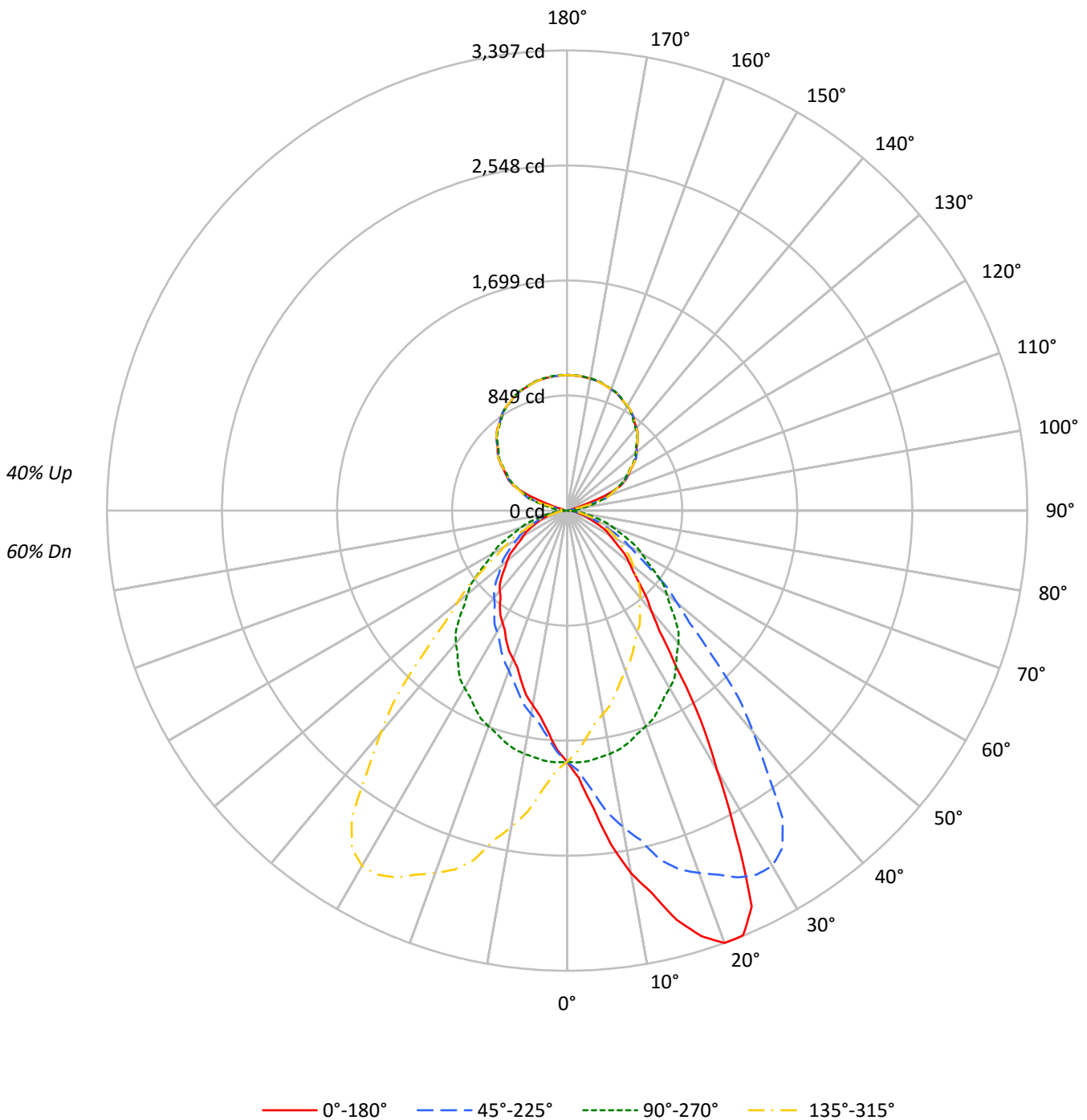
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	101	97	93	90	94	91	87	84	79	77	75	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	71	70	66	63	61	58	56	53	51	49	45
3	85	76	68	63	79	71	65	60	63	58	54	55	51	48	47	45	42	39
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	40	37	34
5	72	60	52	47	67	57	50	45	51	45	41	45	40	37	39	35	33	30
6	66	55	47	41	62	52	44	39	46	40	36	40	36	32	36	32	29	27
7	62	49	42	36	58	47	40	35	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	33	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	24	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°	19957	19957	19957	19957
5°	23791	20042	17650	20042
10°	29704	19928	15946	19928
15°	34867	19724	14540	19724
20°	38913	19420	13347	19420
25°	38292	19099	12613	19099
30°	27524	18804	11857	18804
35°	18378	18419	11369	18419
40°	13540	17956	10863	17956
45°	11357	17145	10368	17145
50°	10021	16083	9676	16083
55°	8788	14865	8728	14865
60°	7828	13702	7995	13702
65°	6872	12455	7440	12455
70°	5397	11339	6795	11339
75°	4754	9902	6209	9902
80°	4135	8412	6106	8412
85°	3335	6756	6472	6756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	2.4
10°-20°	569.6	7.4
20°-30°	894.9	11.7
30°-40°	933.7	12.2
40°-50°	799.0	10.4
50°-60°	609.0	7.9
60°-70°	390.4	5.1
70°-80°	187.8	2.4
80°-90°	52.5	0.7
90°-100°	36.4	0.5
100°-110°	173.3	2.3
110°-120°	416.3	5.4
120°-130°	530.1	6.9
130°-140°	566.4	7.4
140°-150°	529.7	6.9
150°-160°	427.3	5.6
160°-170°	275.7	3.6
170°-180°	95.0	1.2
0°-30°	1646.9	21.5
0°-40°	2580.6	33.6
0°-60°	3988.6	52.0
0°-90°	4619.3	60.2
90°-120°	626.0	8.2
90°-150°	2252.2	29.4
90°-180°	3050.0	39.8
0°-180°	7669.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1854	1854	1854	1854	1854	
5°	2202	1855	1634	1855	2202	227
15°	3129	1770	1305	1770	3129	887
25°	3224	1608	1062	1608	3224	1386
35°	1399	1402	865	1402	1399	917
45°	746	1126	681	1126	746	587
55°	468	792	465	792	468	423
65°	270	489	292	489	270	265
75°	114	238	149	238	114	123
85°	27	55	52	55	27	32
90°	22	1	22	1	22	11
95°	28	45	28	45	28	24
105°	33	222	33	222	33	75
115°	437	415	437	415	437	404
125°	597	586	597	586	597	534
135°	736	729	736	729	736	568
145°	849	841	849	841	849	530
155°	925	927	925	927	925	427
165°	975	977	975	977	975	275
175°	996	1000	996	1000	996	95
180°	1000	1000	1000	1000	1000	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1974.8	1977.3	1969.0	1967.8	1958.2	1955.7	1955.7	1942.4	1934.1	1923.4	1917.0
5°	2201.8	2214.5	2208.2	2193.8	2170.0	2164.4	2149.4	2125.6	2098.6	2065.3	2049.4
7.5°	2485.3	2502.6	2496.0	2473.9	2448.9	2428.8	2386.2	2346.7	2291.3	2242.7	2201.1
10°	2717.7	2699.5	2685.1	2663.7	2640.7	2603.4	2559.0	2497.8	2427.2	2371.7	2309.8
12.5°	2891.6	2888.7	2870.5	2848.5	2816.0	2780.6	2725.9	2651.5	2569.4	2489.1	2418.3
15°	3128.9	3133.6	3121.7	3098.7	3052.6	2989.9	2907.4	2876.5	2759.0	2671.7	2584.3
17.5°	3293.0	3292.1	3290.4	3258.5	3211.6	3166.9	3090.4	3009.0	2902.7	2779.7	2662.0
20°	3397.1	3389.2	3390.8	3355.1	3320.1	3268.5	3193.9	3075.6	2988.4	2846.3	2724.8
22.5°	3394.6	3393.0	3399.0	3386.8	3361.4	3321.8	3263.2	3163.3	3051.9	2908.5	2771.9
25°	3224.1	3217.7	3255.1	3265.4	3305.9	3313.0	3295.5	3240.8	3135.2	2987.6	2818.5
27.5°	2698.4	2694.8	2764.1	2850.7	2960.6	3046.0	3128.6	3168.4	3135.2	3029.5	2860.1
30°	2214.5	2289.1	2324.0	2449.4	2589.1	2755.8	2901.8	3040.7	3074.8	3028.9	2889.9
32.5°	1838.6	1903.7	1932.9	2040.5	2170.7	2365.9	2585.0	2781.7	2920.6	2955.8	2872.2
35°	1398.6	1399.4	1466.0	1513.6	1634.3	1835.1	2047.8	2311.3	2573.2	2771.7	2792.3
37.5°	1116.0	1119.9	1160.2	1207.7	1298.2	1404.4	1591.7	1810.8	2113.3	2418.0	2596.6
40°	963.6	970.7	1000.9	1047.7	1112.8	1193.0	1339.0	1545.4	1797.8	2136.7	2413.7
42.5°	865.8	877.4	892.9	929.0	969.3	1044.4	1162.5	1321.9	1551.5	1871.9	2191.5
45°	746.1	752.5	764.4	781.0	817.5	869.9	949.3	1056.4	1247.0	1504.9	1824.7
47.5°	658.1	654.8	667.3	680.9	705.2	740.8	794.1	881.5	1017.4	1224.4	1495.7
50°	598.4	597.6	606.4	616.7	639.7	665.9	709.6	775.5	883.4	1054.9	1303.3
52.5°	542.6	545.6	551.8	564.6	581.3	602.5	641.7	689.1	781.8	929.8	1136.9
55°	468.3	470.7	479.4	486.6	498.5	519.9	544.5	584.2	647.7	750.8	921.5
57.5°	405.5	404.3	412.7	414.4	428.0	445.5	464.4	495.2	541.3	618.0	733.0
60°	363.6	361.1	368.3	373.9	381.0	395.3	411.1	441.3	477.9	534.2	632.6
62.5°	325.4	324.3	329.5	335.1	341.0	354.0	367.3	390.5	419.4	466.9	544.9
65°	269.8	272.3	274.6	277.0	280.1	288.1	300.8	316.7	336.6	369.9	426.3
67.5°	212.1	214.5	215.3	220.2	227.0	232.0	239.7	253.9	267.6	295.8	327.8
70°	171.5	170.7	171.5	173.8	182.6	191.3	201.6	212.0	220.7	240.4	267.5
72.5°	147.3	145.9	147.9	148.5	152.7	155.1	161.6	171.3	182.6	196.0	215.4
75°	114.3	114.3	114.3	114.3	117.4	119.1	121.5	123.8	127.7	134.1	148.5
77.5°	84.4	84.6	85.7	86.5	87.2	88.1	89.6	91.9	93.3	96.6	102.9
80°	66.7	67.5	66.7	67.5	67.5	69.1	69.9	72.2	73.0	77.0	79.4
82.5°	50.2	49.7	50.2	51.0	51.0	52.5	52.7	54.4	54.6	56.7	59.1
85°	27.0	25.4	27.0	26.2	27.8	26.2	27.0	28.6	28.6	29.4	32.5
87.5°	10.8	12.0	10.7	11.2	11.2	11.7	11.6	11.4	12.6	11.8	12.0
90°	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2	18.5	17.9	15.7
92.5°	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1	20.1	19.0	17.4
95°	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3	24.2	23.0	21.2
97.5°	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6	25.2	23.9	35.9
100°	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2	25.9	24.5	50.3
102.5°	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7	44.8	48.9	77.1
105°	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3	133.5	162.8	177.6
107.5°	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4	276.8	298.3	296.0
110°	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3	329.7	335.2	333.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8	372.7	372.6	370.8
115°	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9	428.2	426.6	425.1
117.5°	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5	480.2	478.9	478.1
120°	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4	514.1	512.7	512.3
122.5°	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5	547.5	546.6	546.0
125°	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1	594.8	594.5	593.8
127.5°	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0	641.4	640.9	640.1
130°	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1	669.4	668.8	668.1
132.5°	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9	696.2	695.6	695.0
135°	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4	736.9	736.4	735.8
137.5°	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6	772.7	771.9	771.6
140°	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5	795.8	795.2	794.7
142.5°	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2	817.7	817.2	816.7
145°	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6	848.2	847.9	847.6
147.5°	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8	875.5	875.0	874.7
150°	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4	892.1	891.7	891.4
152.5°	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2	906.6	906.1	905.8
155°	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6	926.8	925.9	925.7
157.5°	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3	944.3	943.3	943.5
160°	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4	954.4	953.4	953.6
162.5°	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6	963.5	962.3	962.5
165°	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8	975.5	974.2	974.4
167.5°	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3	985.0	983.7	983.7
170°	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7	990.4	989.1	989.1
172.5°	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3	994.0	992.7	992.5
175°	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6	998.5	997.2	997.1
177.5°	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2	1000.1	999.1	999.0
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1914.5	1912.6	1903.7	1893.5	1880.2	1871.3	1864.3	1860.5	1849.1	1835.1	1825.5
5°	2032.8	2008.9	1983.5	1952.6	1924.0	1894.6	1876.3	1854.9	1828.8	1799.4	1778.8
7.5°	2159.4	2112.7	2062.4	2010.5	1959.2	1913.2	1872.6	1837.8	1796.0	1753.9	1724.4
10°	2256.5	2188.3	2117.7	2045.4	1979.5	1917.6	1870.0	1823.2	1773.2	1724.7	1688.3
12.5°	2344.8	2254.9	2173.5	2084.8	2000.5	1926.5	1857.9	1802.8	1742.7	1691.1	1649.5
15°	2456.6	2364.5	2266.0	2131.1	2019.2	1925.6	1842.2	1770.0	1697.0	1633.5	1593.0
17.5°	2561.0	2422.5	2290.2	2177.7	2032.3	1915.2	1813.5	1727.2	1647.0	1579.6	1529.8
20°	2604.2	2470.0	2326.4	2182.7	2039.8	1908.9	1790.6	1695.4	1612.0	1535.8	1489.9
22.5°	2630.2	2478.3	2327.0	2172.6	2020.8	1884.8	1767.8	1663.0	1572.7	1500.3	1443.5
25°	2660.6	2479.6	2312.9	2160.5	2005.7	1858.2	1719.2	1608.1	1510.5	1433.5	1373.1
27.5°	2680.6	2467.7	2270.7	2101.3	1944.3	1797.3	1670.0	1552.2	1453.2	1371.7	1307.0
30°	2684.3	2458.1	2238.3	2055.0	1895.4	1760.5	1625.6	1512.9	1408.1	1321.5	1261.2
32.5°	2689.5	2434.7	2194.4	1999.7	1836.3	1702.7	1580.4	1472.8	1365.5	1280.3	1218.7
35°	2668.5	2421.7	2128.0	1904.1	1740.6	1611.2	1501.0	1401.7	1296.2	1213.6	1150.9
37.5°	2578.3	2370.1	2059.1	1796.5	1625.6	1505.7	1415.8	1329.3	1232.5	1143.5	1084.4
40°	2487.5	2319.3	2005.7	1731.1	1552.6	1429.5	1348.6	1277.9	1184.3	1100.9	1037.4
42.5°	2352.3	2250.1	1954.9	1662.5	1470.0	1351.4	1283.1	1216.9	1134.7	1050.1	990.4
45°	2104.2	2117.7	1851.0	1553.3	1355.6	1236.6	1172.4	1126.3	1053.3	983.4	922.3
47.5°	1793.0	1919.2	1728.9	1436.9	1235.2	1123.5	1067.2	1027.0	977.9	909.3	853.5
50°	1589.8	1770.0	1631.1	1358.9	1159.6	1048.5	992.9	960.4	917.6	863.5	810.4
52.5°	1402.5	1596.0	1513.0	1271.8	1077.7	976.1	921.8	895.0	861.0	810.2	762.1
55°	1143.8	1339.8	1320.8	1140.5	954.8	863.5	822.3	792.1	769.1	731.0	693.0
57.5°	925.1	1111.1	1120.8	994.5	846.6	756.4	720.8	698.1	683.1	654.4	619.1
60°	787.4	958.1	991.4	896.2	769.1	689.7	654.8	636.5	624.7	601.7	574.6
62.5°	673.1	818.3	856.1	787.5	694.8	620.6	593.2	575.6	567.5	547.6	523.8
65°	515.1	635.8	672.3	634.2	585.7	526.2	504.0	489.0	481.8	470.7	453.2
67.5°	387.4	475.2	515.3	488.5	471.0	433.3	419.2	411.1	404.8	397.2	382.5
70°	311.1	376.2	417.5	410.3	396.1	376.2	365.9	360.3	354.0	347.7	335.0
72.5°	250.1	295.0	333.7	337.3	325.6	321.6	312.6	310.2	306.4	298.7	291.8
75°	165.9	196.8	223.8	234.2	238.9	242.9	238.9	238.1	237.3	231.0	227.0
77.5°	108.8	125.4	142.4	160.1	167.4	172.9	174.1	177.0	174.9	171.6	169.7
80°	83.3	87.4	99.2	114.3	126.2	131.0	134.1	135.7	134.9	134.1	131.0
82.5°	60.5	63.8	69.4	80.0	90.0	98.0	99.9	99.6	101.3	101.8	99.2
85°	32.5	33.3	34.9	36.6	42.1	50.8	53.2	54.7	56.4	56.4	51.6
87.5°	12.8	11.8	12.6	12.2	13.8	14.1	17.7	20.5	21.4	19.2	19.6
90°	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8	13.3	12.9	12.4
95°	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3	38.6	31.8	25.0
97.5°	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1	88.1	85.0	82.0
100°	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6	128.9	132.2	135.5
102.5°	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8	167.2	169.6	172.0
105°	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5	223.3	225.1	226.9
107.5°	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1	282.7	284.1	285.6
110°	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0	322.3	323.7	325.0



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1	360.2	361.4	362.6
115°	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4	416.4	417.4	418.4
117.5°	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0	471.2	472.4	473.6
120°	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8	505.3	506.9	508.3
122.5°	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4	539.6	540.8	542.0
125°	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6	586.9	588.2	589.6
127.5°	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4	632.7	634.0	635.3
130°	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8	661.3	662.6	663.9
132.5°	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2	688.5	689.8	691.2
135°	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0	730.0	730.9	732.0
137.5°	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7	765.9	767.2	768.4
140°	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4	789.4	790.4	791.4
142.5°	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4	811.4	812.4	813.4
145°	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2	842.3	843.5	844.7
147.5°	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2	870.9	871.7	872.4
150°	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1	888.5	889.0	889.5
152.5°	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0	904.3	904.5	904.7
155°	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7	926.3	926.0	925.6
157.5°	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2	944.2	944.1	944.1
160°	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9	954.7	954.6	954.4
162.5°	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0	964.6	964.1	963.7
165°	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2	976.7	976.2	975.7
167.5°	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7	986.0	985.4	984.7
170°	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1	991.4	990.8	990.1
172.5°	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6	994.8	994.0	993.3
175°	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3	999.4	998.6	997.7
177.5°	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4	1000.8	1000.1	999.5
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1822.4	1814.1	1808.5	1795.7	1787.5	1778.6	1769.7	1775.4	1774.7	1774.1	1774.1
5°	1761.3	1743.0	1726.4	1705.0	1691.4	1674.8	1662.0	1660.4	1663.7	1652.5	1646.2
7.5°	1700.6	1675.7	1652.0	1628.4	1603.4	1583.4	1570.7	1564.9	1556.8	1549.9	1542.9
10°	1658.1	1628.7	1605.7	1576.3	1549.3	1525.5	1510.5	1500.2	1494.6	1489.0	1478.7
12.5°	1614.3	1585.6	1556.2	1523.0	1497.3	1469.7	1458.3	1446.8	1436.1	1430.0	1415.8
15°	1550.1	1512.9	1481.9	1446.9	1418.4	1391.4	1375.5	1352.5	1349.3	1341.4	1327.1
17.5°	1485.8	1445.3	1402.7	1376.7	1344.5	1316.5	1292.3	1284.5	1261.8	1253.2	1240.9
20°	1435.0	1397.8	1365.2	1331.1	1284.2	1258.1	1239.0	1228.7	1210.4	1199.3	1191.3
22.5°	1391.2	1353.3	1315.7	1275.9	1237.3	1207.9	1194.0	1177.9	1167.9	1152.4	1143.8
25°	1328.7	1287.4	1242.1	1199.3	1171.5	1149.3	1127.1	1112.8	1098.5	1091.4	1075.5
27.5°	1256.0	1212.8	1170.5	1138.0	1103.9	1082.0	1061.9	1049.1	1032.0	1020.0	1011.2
30°	1216.0	1165.2	1128.6	1099.3	1055.6	1035.0	1020.0	1004.1	991.4	978.7	970.0
32.5°	1169.6	1123.3	1088.6	1052.3	1018.9	996.2	976.7	962.8	952.0	939.9	931.2
35°	1096.9	1058.0	1022.3	985.8	961.2	938.2	915.1	903.2	892.9	881.8	873.9
37.5°	1031.2	994.8	960.9	926.2	895.8	877.1	858.5	849.4	835.5	828.0	819.9
40°	990.6	954.8	918.4	885.0	853.2	839.0	822.3	808.8	796.1	790.5	781.8
42.5°	946.1	910.4	879.6	843.7	817.7	798.3	782.9	768.2	758.6	750.5	745.6
45°	880.2	848.5	818.3	782.6	758.0	741.3	723.9	710.3	701.7	696.1	687.3
47.5°	816.3	784.6	753.9	722.8	698.9	679.9	662.5	653.1	641.5	634.7	628.7
50°	769.9	741.3	708.8	680.2	656.4	637.3	623.1	611.2	600.9	592.1	588.1
52.5°	727.4	696.9	668.8	642.1	617.0	595.4	582.4	569.9	562.1	552.1	547.5
55°	657.2	627.8	604.0	577.8	553.2	534.9	519.1	508.0	500.1	489.0	482.6
57.5°	591.3	565.0	536.5	513.8	488.5	473.0	459.9	444.8	435.2	426.4	420.2
60°	546.8	516.7	492.1	470.7	448.5	428.6	416.7	404.8	394.5	385.8	380.2
62.5°	500.5	474.1	450.8	427.5	407.2	389.9	376.1	366.1	357.0	351.4	345.9
65°	429.4	408.8	385.0	365.9	346.9	334.2	323.1	314.3	308.0	304.0	299.2
67.5°	364.0	344.0	323.2	304.5	291.8	282.1	274.8	267.3	264.2	259.0	255.9
70°	321.4	300.8	282.6	268.3	255.6	248.4	243.7	238.1	234.9	228.6	225.4
72.5°	275.1	260.1	247.0	235.3	225.1	218.6	212.6	205.7	200.7	193.7	190.5
75°	216.7	203.2	192.9	184.9	178.5	169.9	161.2	154.0	151.6	149.3	148.5
77.5°	160.5	151.9	144.4	137.7	129.9	123.5	121.6	120.0	119.6	118.3	118.3
80°	126.2	118.3	112.7	104.7	100.0	100.0	100.0	98.5	99.2	99.2	99.2
82.5°	93.8	86.5	83.5	80.7	79.7	80.3	80.3	80.7	80.2	81.4	80.8
85°	48.4	49.2	50.8	50.0	50.8	50.8	52.4	51.6	52.4	50.8	52.4
87.5°	19.3	21.5	22.6	23.6	24.7	24.5	25.2	25.4	26.2	26.4	26.5
90°	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2	19.8	20.5	21.0
92.5°	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1	22.2	23.2	23.8
95°	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3	26.5	27.7	28.3
97.5°	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6	27.9	29.2	30.0
100°	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2	28.5	29.8	30.6
102.5°	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7	36.7	32.5	30.6
105°	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3	75.0	45.8	31.4
107.5°	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4	234.0	212.6	190.9
110°	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3	318.8	313.4	298.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8	372.9	373.0	370.5
115°	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9	431.5	433.1	434.3
117.5°	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5	482.8	484.1	484.8
120°	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4	516.7	518.1	518.7
122.5°	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5	549.4	550.4	550.9
125°	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1	595.5	595.8	596.1
127.5°	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0	642.5	643.0	643.1
130°	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1	670.8	671.5	671.7
132.5°	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9	697.5	698.2	698.3
135°	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4	737.9	738.4	738.4
137.5°	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6	774.4	775.2	775.4
140°	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5	797.1	797.8	798.0
142.5°	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2	818.7	819.2	819.3
145°	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6	848.9	849.2	849.4
147.5°	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8	876.1	876.5	876.2
150°	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4	892.7	893.0	893.0
152.5°	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2	907.8	908.4	908.3
155°	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6	928.4	929.3	929.2
157.5°	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3	946.2	947.3	947.2
160°	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4	956.4	957.4	957.4
162.5°	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6	965.7	966.8	966.8
165°	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8	978.2	979.5	979.6
167.5°	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3	987.7	989.1	989.1
170°	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7	993.1	994.4	994.4
172.5°	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3	996.6	997.9	997.8
175°	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6	1000.8	1001.9	1001.8
177.5°	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2	1002.2	1003.3	1003.1
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1766.6	1765.8	1766.6	1763.9	1766.6	1765.8	1766.6	1774.1	1774.1	1774.7	1775.4
5°	1643.8	1643.1	1640.6	1633.5	1640.6	1643.1	1643.8	1646.2	1652.5	1663.7	1660.4
7.5°	1536.6	1535.5	1528.5	1528.7	1528.5	1535.5	1536.6	1542.9	1549.9	1556.8	1564.9
10°	1473.2	1473.9	1464.4	1458.9	1464.4	1473.9	1473.2	1478.7	1489.0	1494.6	1500.2
12.5°	1411.6	1408.0	1400.3	1394.1	1400.3	1408.0	1411.6	1415.8	1430.0	1436.1	1446.8
15°	1330.3	1322.3	1303.3	1304.8	1303.3	1322.3	1330.3	1327.1	1341.4	1349.3	1352.5
17.5°	1234.6	1228.7	1228.4	1217.3	1228.4	1228.7	1234.6	1240.9	1253.2	1261.8	1284.5
20°	1178.7	1174.7	1176.3	1165.2	1176.3	1174.7	1178.7	1191.3	1199.3	1210.4	1228.7
22.5°	1134.9	1130.8	1124.2	1120.7	1124.2	1130.8	1134.9	1143.8	1152.4	1167.9	1177.9
25°	1070.8	1064.4	1058.0	1062.0	1058.0	1064.4	1070.8	1075.5	1091.4	1098.5	1112.8
27.5°	1006.6	1001.9	995.5	994.7	995.5	1001.9	1006.6	1011.2	1020.0	1032.0	1049.1
30°	965.9	961.2	958.1	954.0	958.1	961.2	965.9	970.0	978.7	991.4	1004.1
32.5°	924.7	923.7	918.1	917.3	918.1	923.7	924.7	931.2	939.9	952.0	962.8
35°	870.7	866.0	864.3	865.2	864.3	866.0	870.7	873.9	881.8	892.9	903.2
37.5°	819.4	813.0	810.2	807.4	810.2	813.0	819.4	819.9	828.0	835.5	849.4
40°	782.6	776.3	774.7	773.1	774.7	776.3	782.6	781.8	790.5	796.1	808.8
42.5°	741.3	738.8	737.8	735.0	737.8	738.8	741.3	745.6	750.5	758.6	768.2
45°	685.0	684.2	679.4	681.1	679.4	684.2	685.0	687.3	696.1	701.7	710.3
47.5°	625.6	622.1	618.7	621.0	618.7	622.1	625.6	628.7	634.7	641.5	653.1
50°	585.0	583.4	576.2	577.8	576.2	583.4	585.0	588.1	592.1	600.9	611.2
52.5°	544.3	538.3	535.6	534.6	535.6	538.3	544.3	547.5	552.1	562.1	569.9
55°	477.1	469.9	466.7	465.1	466.7	469.9	477.1	482.6	489.0	500.1	508.0
57.5°	411.0	409.1	406.6	408.3	406.6	409.1	411.0	420.2	426.4	435.2	444.8
60°	372.2	372.2	372.2	371.4	372.2	372.2	372.2	380.2	385.8	394.5	404.8
62.5°	342.4	340.5	339.9	341.0	339.9	340.5	342.4	345.9	351.4	357.0	366.1
65°	296.9	296.1	292.9	292.1	292.9	296.1	296.9	299.2	304.0	308.0	314.3
67.5°	253.9	251.0	250.0	248.9	250.0	251.0	253.9	255.9	259.0	264.2	267.3
70°	221.5	219.8	215.1	215.9	215.1	219.8	221.5	225.4	228.6	234.9	238.1
72.5°	186.5	184.9	184.0	182.9	184.0	184.9	186.5	190.5	193.7	200.7	205.7
75°	147.6	146.8	146.0	149.3	146.0	146.8	147.6	148.5	149.3	151.6	154.0
77.5°	118.3	118.3	118.8	117.4	118.8	118.3	118.3	118.3	118.3	119.6	120.0
80°	99.2	99.2	98.5	98.5	98.5	99.2	99.2	99.2	99.2	99.2	98.5
82.5°	79.6	80.2	80.7	79.4	80.7	80.2	79.6	80.8	81.4	80.2	80.7
85°	52.4	51.6	53.2	52.4	53.2	51.6	52.4	52.4	50.8	52.4	51.6
87.5°	27.8	26.6	26.7	27.4	26.7	26.6	27.8	26.5	26.4	26.2	25.4
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2
92.5°	24.0	24.2	24.4	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1
95°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3
97.5°	30.1	30.3	30.5	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6
100°	30.7	30.9	31.0	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2
102.5°	30.9	31.2	31.5	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7
105°	31.7	32.0	32.4	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3
107.5°	168.7	146.7	124.7	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4
110°	275.2	251.6	227.9	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.6	360.6	355.6	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8
115°	434.9	435.7	436.3	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9
117.5°	485.0	485.1	485.2	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5
120°	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4
122.5°	551.0	551.1	551.3	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5
125°	596.5	596.8	597.1	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1
127.5°	642.8	642.4	642.1	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0
130°	671.3	671.0	670.7	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1
132.5°	697.8	697.4	696.9	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9
135°	737.9	737.4	736.9	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4
137.5°	775.1	774.7	774.4	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6
140°	797.6	797.3	797.0	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5
142.5°	818.8	818.4	817.9	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2
145°	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6
147.5°	875.5	874.6	873.9	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8
150°	892.5	892.0	891.5	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4
152.5°	907.6	906.8	906.1	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2
155°	928.2	927.2	926.1	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6
157.5°	945.8	944.5	943.3	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3
160°	956.1	955.0	953.8	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4
162.5°	965.8	964.8	963.8	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6
165°	978.5	977.2	976.1	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8
167.5°	987.7	986.3	985.0	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3
170°	993.1	991.7	990.4	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7
172.5°	996.4	995.0	993.5	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3
175°	1000.5	999.2	997.8	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6
177.5°	1001.8	1000.5	999.2	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1769.7	1778.6	1787.5	1795.7	1808.5	1814.1	1822.4	1825.5	1835.1	1849.1	1860.5
5°	1662.0	1674.8	1691.4	1705.0	1726.4	1743.0	1761.3	1778.8	1799.4	1828.8	1854.9
7.5°	1570.7	1583.4	1603.4	1628.4	1652.0	1675.7	1700.6	1724.4	1753.9	1796.0	1837.8
10°	1510.5	1525.5	1549.3	1576.3	1605.7	1628.7	1658.1	1688.3	1724.7	1773.2	1823.2
12.5°	1458.3	1469.7	1497.3	1523.0	1556.2	1585.6	1614.3	1649.5	1691.1	1742.7	1802.8
15°	1375.5	1391.4	1418.4	1446.9	1481.9	1512.9	1550.1	1593.0	1633.5	1697.0	1770.0
17.5°	1292.3	1316.5	1344.5	1376.7	1402.7	1445.3	1485.8	1529.8	1579.6	1647.0	1727.2
20°	1239.0	1258.1	1284.2	1331.1	1365.2	1397.8	1435.0	1489.9	1535.8	1612.0	1695.4
22.5°	1194.0	1207.9	1237.3	1275.9	1315.7	1353.3	1391.2	1443.5	1500.3	1572.7	1663.0
25°	1127.1	1149.3	1171.5	1199.3	1242.1	1287.4	1328.7	1373.1	1433.5	1510.5	1608.1
27.5°	1061.9	1082.0	1103.9	1138.0	1170.5	1212.8	1256.0	1307.0	1371.7	1453.2	1552.2
30°	1020.0	1035.0	1055.6	1099.3	1128.6	1165.2	1216.0	1261.2	1321.5	1408.1	1512.9
32.5°	976.7	996.2	1018.9	1052.3	1088.6	1123.3	1169.6	1218.7	1280.3	1365.5	1472.8
35°	915.1	938.2	961.2	985.8	1022.3	1058.0	1096.9	1150.9	1213.6	1296.2	1401.7
37.5°	858.5	877.1	895.8	926.2	960.9	994.8	1031.2	1084.4	1143.5	1232.5	1329.3
40°	822.3	839.0	853.2	885.0	918.4	954.8	990.6	1037.4	1100.9	1184.3	1277.9
42.5°	782.9	798.3	817.7	843.7	879.6	910.4	946.1	990.4	1050.1	1134.7	1216.9
45°	723.9	741.3	758.0	782.6	818.3	848.5	880.2	922.3	983.4	1053.3	1126.3
47.5°	662.5	679.9	698.9	722.8	753.9	784.6	816.3	853.5	909.3	977.9	1027.0
50°	623.1	637.3	656.4	680.2	708.8	741.3	769.9	810.4	863.5	917.6	960.4
52.5°	582.4	595.4	617.0	642.1	668.8	696.9	727.4	762.1	810.2	861.0	895.0
55°	519.1	534.9	553.2	577.8	604.0	627.8	657.2	693.0	731.0	769.1	792.1
57.5°	459.9	473.0	488.5	513.8	536.5	565.0	591.3	619.1	654.4	683.1	698.1
60°	416.7	428.6	448.5	470.7	492.1	516.7	546.8	574.6	601.7	624.7	636.5
62.5°	376.1	389.9	407.2	427.5	450.8	474.1	500.5	523.8	547.6	567.5	575.6
65°	323.1	334.2	346.9	365.9	385.0	408.8	429.4	453.2	470.7	481.8	489.0
67.5°	274.8	282.1	291.8	304.5	323.2	344.0	364.0	382.5	397.2	404.8	411.1
70°	243.7	248.4	255.6	268.3	282.6	300.8	321.4	335.0	347.7	354.0	360.3
72.5°	212.6	218.6	225.1	235.3	247.0	260.1	275.1	291.8	298.7	306.4	310.2
75°	161.2	169.9	178.5	184.9	192.9	203.2	216.7	227.0	231.0	237.3	238.1
77.5°	121.6	123.5	129.9	137.7	144.4	151.9	160.5	169.7	171.6	174.9	177.0
80°	100.0	100.0	100.0	104.7	112.7	118.3	126.2	131.0	134.1	134.9	135.7
82.5°	80.3	80.3	79.7	80.7	83.5	86.5	93.8	99.2	101.8	101.3	99.6
85°	52.4	50.8	50.8	50.0	50.8	49.2	48.4	51.6	56.4	56.4	54.7
87.5°	25.2	24.5	24.7	23.6	22.6	21.5	19.3	19.6	19.2	21.4	20.5
90°	18.5	17.9	15.7	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7
92.5°	20.1	19.0	17.4	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8
95°	24.2	23.0	21.2	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3
97.5°	25.2	23.9	35.9	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1
100°	25.9	24.5	50.3	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6
102.5°	44.8	48.9	77.1	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8
105°	133.5	162.8	177.6	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5
107.5°	276.8	298.3	296.0	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1
110°	329.7	335.2	333.4	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0



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CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.7	372.6	370.8	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1
115°	428.2	426.6	425.1	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4
117.5°	480.2	478.9	478.1	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0
120°	514.1	512.7	512.3	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8
122.5°	547.5	546.6	546.0	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4
125°	594.8	594.5	593.8	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6
127.5°	641.4	640.9	640.1	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4
130°	669.4	668.8	668.1	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8
132.5°	696.2	695.6	695.0	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2
135°	736.9	736.4	735.8	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0
137.5°	772.7	771.9	771.6	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7
140°	795.8	795.2	794.7	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4
142.5°	817.7	817.2	816.7	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4
145°	848.2	847.9	847.6	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2
147.5°	875.5	875.0	874.7	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2
150°	892.1	891.7	891.4	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1
152.5°	906.6	906.1	905.8	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0
155°	926.8	925.9	925.7	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7
157.5°	944.3	943.3	943.5	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2
160°	954.4	953.4	953.6	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9
162.5°	963.5	962.3	962.5	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0
165°	975.5	974.2	974.4	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2
167.5°	985.0	983.7	983.7	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7
170°	990.4	989.1	989.1	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1
172.5°	994.0	992.7	992.5	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6
175°	998.5	997.2	997.1	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3
177.5°	1000.1	999.1	999.0	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332474-840

CATALOG NUMBER: S123RDIW-S1165D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1864.3	1871.3	1880.2	1893.5	1903.7	1912.6	1914.5	1917.0	1923.4	1934.1	1942.4
5°	1876.3	1894.6	1924.0	1952.6	1983.5	2008.9	2032.8	2049.4	2065.3	2098.6	2125.6
7.5°	1872.6	1913.2	1959.2	2010.5	2062.4	2112.7	2159.4	2201.1	2242.7	2291.3	2346.7
10°	1870.0	1917.6	1979.5	2045.4	2117.7	2188.3	2256.5	2309.8	2371.7	2427.2	2497.8
12.5°	1857.9	1926.5	2000.5	2084.8	2173.5	2254.9	2344.8	2418.3	2489.1	2569.4	2651.5
15°	1842.2	1925.6	2019.2	2131.1	2266.0	2364.5	2456.6	2584.3	2671.7	2759.0	2876.5
17.5°	1813.5	1915.2	2032.3	2177.7	2290.2	2422.5	2561.0	2662.0	2779.7	2902.7	3009.0
20°	1790.6	1908.9	2039.8	2182.7	2326.4	2470.0	2604.2	2724.8	2846.3	2988.4	3075.6
22.5°	1767.8	1884.8	2020.8	2172.6	2327.0	2478.3	2630.2	2771.9	2908.5	3051.9	3163.3
25°	1719.2	1858.2	2005.7	2160.5	2312.9	2479.6	2660.6	2818.5	2987.6	3135.2	3240.8
27.5°	1670.0	1797.3	1944.3	2101.3	2270.7	2467.7	2680.6	2860.1	3029.5	3135.2	3168.4
30°	1625.6	1760.5	1895.4	2055.0	2238.3	2458.1	2684.3	2889.9	3028.9	3074.8	3040.7
32.5°	1580.4	1702.7	1836.3	1999.7	2194.4	2434.7	2689.5	2872.2	2955.8	2920.6	2781.7
35°	1501.0	1611.2	1740.6	1904.1	2128.0	2421.7	2668.5	2792.3	2771.7	2573.2	2311.3
37.5°	1415.8	1505.7	1625.6	1796.5	2059.1	2370.1	2578.3	2596.6	2418.0	2113.3	1810.8
40°	1348.6	1429.5	1552.6	1731.1	2005.7	2319.3	2487.5	2413.7	2136.7	1797.8	1545.4
42.5°	1283.1	1351.4	1470.0	1662.5	1954.9	2250.1	2352.3	2191.5	1871.9	1551.5	1321.9
45°	1172.4	1236.6	1355.6	1553.3	1851.0	2117.7	2104.2	1824.7	1504.9	1247.0	1056.4
47.5°	1067.2	1123.5	1235.2	1436.9	1728.9	1919.2	1793.0	1495.7	1224.4	1017.4	881.5
50°	992.9	1048.5	1159.6	1358.9	1631.1	1770.0	1589.8	1303.3	1054.9	883.4	775.5
52.5°	921.8	976.1	1077.7	1271.8	1513.0	1596.0	1402.5	1136.9	929.8	781.8	689.1
55°	822.3	863.5	954.8	1140.5	1320.8	1339.8	1143.8	921.5	750.8	647.7	584.2
57.5°	720.8	756.4	846.6	994.5	1120.8	1111.1	925.1	733.0	618.0	541.3	495.2
60°	654.8	689.7	769.1	896.2	991.4	958.1	787.4	632.6	534.2	477.9	441.3
62.5°	593.2	620.6	694.8	787.5	856.1	818.3	673.1	544.9	466.9	419.4	390.5
65°	504.0	526.2	585.7	634.2	672.3	635.8	515.1	426.3	369.9	336.6	316.7
67.5°	419.2	433.3	471.0	488.5	515.3	475.2	387.4	327.8	295.8	267.6	253.9
70°	365.9	376.2	396.1	410.3	417.5	376.2	311.1	267.5	240.4	220.7	212.0
72.5°	312.6	321.6	325.6	337.3	333.7	295.0	250.1	215.4	196.0	182.6	171.3
75°	238.9	242.9	238.9	234.2	223.8	196.8	165.9	148.5	134.1	127.7	123.8
77.5°	174.1	172.9	167.4	160.1	142.4	125.4	108.8	102.9	96.6	93.3	91.9
80°	134.1	131.0	126.2	114.3	99.2	87.4	83.3	79.4	77.0	73.0	72.2
82.5°	99.9	98.0	90.0	80.0	69.4	63.8	60.5	59.1	56.7	54.6	54.4
85°	53.2	50.8	42.1	36.6	34.9	33.3	32.5	32.5	29.4	28.6	28.6
87.5°	17.7	14.1	13.8	12.2	12.6	11.8	12.8	12.0	11.8	12.6	11.4
90°	2.4	4.0	5.7	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2
92.5°	13.3	12.9	12.4	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1
95°	38.6	31.8	25.0	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3
97.5°	88.1	85.0	82.0	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6
100°	128.9	132.2	135.5	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2
102.5°	167.2	169.6	172.0	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7
105°	223.3	225.1	226.9	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3
107.5°	282.7	284.1	285.6	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4
110°	322.3	323.7	325.0	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	360.2	361.4	362.6	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8
115°	416.4	417.4	418.4	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9
117.5°	471.2	472.4	473.6	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5
120°	505.3	506.9	508.3	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4
122.5°	539.6	540.8	542.0	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5
125°	586.9	588.2	589.6	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1
127.5°	632.7	634.0	635.3	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0
130°	661.3	662.6	663.9	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1
132.5°	688.5	689.8	691.2	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9
135°	730.0	730.9	732.0	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4
137.5°	765.9	767.2	768.4	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6
140°	789.4	790.4	791.4	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5
142.5°	811.4	812.4	813.4	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2
145°	842.3	843.5	844.7	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6
147.5°	870.9	871.7	872.4	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8
150°	888.5	889.0	889.5	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4
152.5°	904.3	904.5	904.7	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2
155°	926.3	926.0	925.6	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6
157.5°	944.2	944.1	944.1	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3
160°	954.7	954.6	954.4	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4
162.5°	964.6	964.1	963.7	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6
165°	976.7	976.2	975.7	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8
167.5°	986.0	985.4	984.7	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3
170°	991.4	990.8	990.1	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7
172.5°	994.8	994.0	993.3	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3
175°	999.4	998.6	997.7	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6
177.5°	1000.8	1000.1	999.5	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1955.7	1955.7	1958.2	1967.8	1969.0	1977.3	1974.8
5°	2149.4	2164.4	2170.0	2193.8	2208.2	2214.5	2201.8
7.5°	2386.2	2428.8	2448.9	2473.9	2496.0	2502.6	2485.3
10°	2559.0	2603.4	2640.7	2663.7	2685.1	2699.5	2717.7
12.5°	2725.9	2780.6	2816.0	2848.5	2870.5	2888.7	2891.6
15°	2907.4	2989.9	3052.6	3098.7	3121.7	3133.6	3128.9
17.5°	3090.4	3166.9	3211.6	3258.5	3290.4	3292.1	3293.0
20°	3193.9	3268.5	3320.1	3355.1	3390.8	3389.2	3397.1
22.5°	3263.2	3321.8	3361.4	3386.8	3399.0	3393.0	3394.6
25°	3295.5	3313.0	3305.9	3265.4	3255.1	3217.7	3224.1
27.5°	3128.6	3046.0	2960.6	2850.7	2764.1	2694.8	2698.4
30°	2901.8	2755.8	2589.1	2449.4	2324.0	2289.1	2214.5
32.5°	2585.0	2365.9	2170.7	2040.5	1932.9	1903.7	1838.6
35°	2047.8	1835.1	1634.3	1513.6	1466.0	1399.4	1398.6
37.5°	1591.7	1404.4	1298.2	1207.7	1160.2	1119.9	1116.0
40°	1339.0	1193.0	1112.8	1047.7	1000.9	970.7	963.6
42.5°	1162.5	1044.4	969.3	929.0	892.9	877.4	865.8
45°	949.3	869.9	817.5	781.0	764.4	752.5	746.1
47.5°	794.1	740.8	705.2	680.9	667.3	654.8	658.1
50°	709.6	665.9	639.7	616.7	606.4	597.6	598.4
52.5°	641.7	602.5	581.3	564.6	551.8	545.6	542.6
55°	544.5	519.9	498.5	486.6	479.4	470.7	468.3
57.5°	464.4	445.5	428.0	414.4	412.7	404.3	405.5
60°	411.1	395.3	381.0	373.9	368.3	361.1	363.6
62.5°	367.3	354.0	341.0	335.1	329.5	324.3	325.4
65°	300.8	288.1	280.1	277.0	274.6	272.3	269.8
67.5°	239.7	232.0	227.0	220.2	215.3	214.5	212.1
70°	201.6	191.3	182.6	173.8	171.5	170.7	171.5
72.5°	161.6	155.1	152.7	148.5	147.9	145.9	147.3
75°	121.5	119.1	117.4	114.3	114.3	114.3	114.3
77.5°	89.6	88.1	87.2	86.5	85.7	84.6	84.4
80°	69.9	69.1	67.5	67.5	66.7	67.5	66.7
82.5°	52.7	52.5	51.0	51.0	50.2	49.7	50.2
85°	27.0	26.2	27.8	26.2	27.0	25.4	27.0
87.5°	11.6	11.7	11.2	11.2	10.7	12.0	10.8
90°	19.8	20.5	21.0	21.3	21.6	21.9	22.3
92.5°	22.2	23.2	23.8	24.0	24.2	24.4	24.6
95°	26.5	27.7	28.3	28.3	28.3	28.3	28.3
97.5°	27.9	29.2	30.0	30.1	30.3	30.5	30.6
100°	28.5	29.8	30.6	30.7	30.9	31.0	31.2
102.5°	36.7	32.5	30.6	30.9	31.2	31.5	31.8
105°	75.0	45.8	31.4	31.7	32.0	32.4	32.7
107.5°	234.0	212.6	190.9	168.7	146.7	124.7	102.7
110°	318.8	313.4	298.8	275.2	251.6	227.9	204.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.9	373.0	370.5	365.6	360.6	355.6	350.6
115°	431.5	433.1	434.3	434.9	435.7	436.3	437.0
117.5°	482.8	484.1	484.8	485.0	485.1	485.2	485.4
120°	516.7	518.1	518.7	518.7	518.7	518.7	518.7
122.5°	549.4	550.4	550.9	551.0	551.1	551.3	551.4
125°	595.5	595.8	596.1	596.5	596.8	597.1	597.4
127.5°	642.5	643.0	643.1	642.8	642.4	642.1	641.8
130°	670.8	671.5	671.7	671.3	671.0	670.7	670.2
132.5°	697.5	698.2	698.3	697.8	697.4	696.9	696.4
135°	737.9	738.4	738.4	737.9	737.4	736.9	736.4
137.5°	774.4	775.2	775.4	775.1	774.7	774.4	774.1
140°	797.1	797.8	798.0	797.6	797.3	797.0	796.6
142.5°	818.7	819.2	819.3	818.8	818.4	817.9	817.4
145°	848.9	849.2	849.4	849.4	849.4	849.4	849.4
147.5°	876.1	876.5	876.2	875.5	874.6	873.9	873.1
150°	892.7	893.0	893.0	892.5	892.0	891.5	891.0
152.5°	907.8	908.4	908.3	907.6	906.8	906.1	905.2
155°	928.4	929.3	929.2	928.2	927.2	926.1	925.1
157.5°	946.2	947.3	947.2	945.8	944.5	943.3	942.0
160°	956.4	957.4	957.4	956.1	955.0	953.8	952.7
162.5°	965.7	966.8	966.8	965.8	964.8	963.8	962.8
165°	978.2	979.5	979.6	978.5	977.2	976.1	974.9
167.5°	987.7	989.1	989.1	987.7	986.3	985.0	983.7
170°	993.1	994.4	994.4	993.1	991.7	990.4	989.1
172.5°	996.6	997.9	997.8	996.4	995.0	993.5	992.1
175°	1000.8	1001.9	1001.8	1000.5	999.2	997.8	996.5
177.5°	1002.2	1003.3	1003.1	1001.8	1000.5	999.2	997.8
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3

(END OF REPORT)