

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: P333099-930

Luminaire Tested: **S124RDIW-S1195D770U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333099-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D770U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 770 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6589.2 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

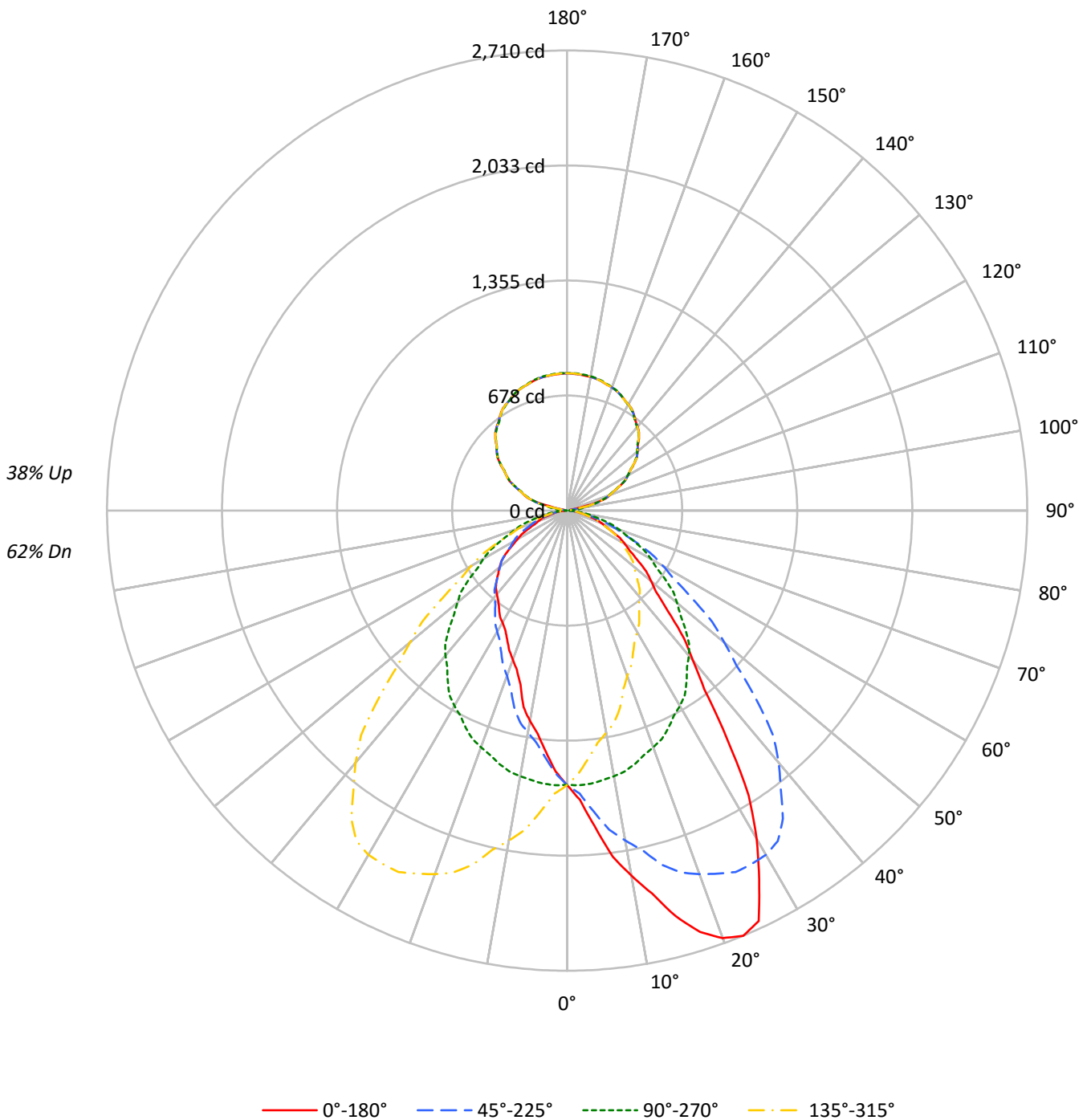
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	90	90	90	78	78	78	67	67	67	62
1	101	97	93	90	95	91	88	85	80	77	75	70	68	66	60	59	58	53
2	92	85	79	74	86	80	75	70	71	67	63	62	59	56	54	52	50	46
3	85	75	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43	39
4	78	67	59	53	73	63	56	51	56	51	46	50	45	42	43	40	37	34
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	39	36	33	30
6	66	54	46	40	62	51	44	39	46	40	35	41	36	32	36	32	29	27
7	61	49	41	36	57	47	39	34	42	36	31	37	32	29	33	29	26	24
8	57	45	37	32	53	42	35	31	38	32	28	34	29	26	30	26	23	21
9	53	41	34	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13043	13043	13043	13043
5°	15129	13083	11563	13083
10°	17898	13025	10320	13025
15°	20674	12904	8868	12904
20°	23018	12740	8019	12740
25°	23762	12577	7445	12577
30°	20801	12379	7100	12379
35°	16192	12086	6890	12086
40°	12142	11751	6777	11751
45°	9587	11215	6719	11215
50°	8093	10595	6523	10595
55°	7054	9913	6175	9913
60°	6347	9206	5465	9206
65°	5595	8443	4701	8443
70°	5039	7652	4242	7652
75°	4223	6781	3615	6781
80°	3570	5779	3389	5779
85°	3010	4520	3010	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.4
10°-20°	472.2	7.2
20°-30°	738.6	11.2
30°-40°	821.0	12.5
40°-50°	728.5	11.1
50°-60°	567.6	8.6
60°-70°	371.6	5.6
70°-80°	182.8	2.8
80°-90°	47.4	0.7
90°-100°	27.7	0.4
100°-110°	176.5	2.7
110°-120°	337.5	5.1
120°-130°	428.5	6.5
130°-140°	458.5	7.0
140°-150°	428.7	6.5
150°-160°	345.7	5.2
160°-170°	223.0	3.4
170°-180°	76.9	1.2
0°-30°	1367.3	20.8
0°-40°	2188.4	33.2
0°-60°	3484.5	52.9
0°-90°	4086.3	62.0
90°-120°	541.7	8.2
90°-150°	1857.3	28.2
90°-180°	2503.0	38.0
0°-180°	6589.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1616	1616	1616	1616	1616	
5°	1867	1614	1427	1614	1867	189
15°	2474	1544	1061	1544	2474	703
25°	2668	1412	836	1412	2668	1183
35°	1643	1226	699	1226	1643	1030
45°	840	982	588	982	840	665
55°	501	704	439	704	501	456
65°	293	442	246	442	293	295
75°	135	217	116	217	135	149
85°	32	49	32	49	32	37
90°	18	2	18	2	18	9
95°	18	33	18	33	18	14
105°	172	182	172	182	172	150
115°	342	340	342	340	342	339
125°	482	478	482	478	482	429
135°	597	593	597	593	597	460
145°	688	684	688	684	688	430
155°	749	750	749	750	749	345
165°	787	791	787	791	787	222
175°	804	809	804	809	804	77
180°	809	809	809	809	809	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1704.1	1708.9	1704.1	1703.6	1698.4	1696.9	1694.8	1688.0	1675.5	1668.3	1669.8
5°	1866.9	1883.2	1874.0	1872.7	1858.5	1844.1	1835.0	1814.2	1792.0	1777.1	1764.7
7.5°	2055.1	2064.5	2058.8	2049.7	2026.5	2013.4	1992.3	1964.8	1925.1	1894.8	1867.0
10°	2183.3	2191.0	2188.5	2171.5	2154.6	2120.1	2100.6	2062.2	2012.1	1972.4	1935.3
12.5°	2309.3	2317.7	2294.7	2295.5	2263.4	2236.3	2205.3	2157.0	2099.1	2047.9	2001.4
15°	2473.6	2463.2	2463.2	2450.1	2414.3	2376.6	2344.7	2293.9	2221.0	2159.8	2095.4
17.5°	2602.2	2605.9	2600.5	2569.8	2541.7	2502.6	2444.2	2384.9	2317.2	2235.1	2169.2
20°	2679.3	2679.3	2673.4	2652.6	2616.1	2574.5	2511.4	2446.9	2360.9	2278.3	2204.1
22.5°	2710.5	2712.6	2705.7	2688.5	2655.8	2615.1	2561.3	2495.9	2407.3	2314.2	2222.3
25°	2667.6	2680.0	2681.2	2676.7	2666.9	2642.1	2596.0	2528.9	2449.5	2348.6	2249.7
27.5°	2449.1	2464.7	2478.4	2500.9	2530.9	2546.5	2548.5	2514.5	2445.2	2348.1	2248.5
30°	2231.4	2244.4	2286.8	2342.1	2385.1	2424.1	2458.0	2467.1	2428.0	2340.8	2236.0
32.5°	1989.8	2007.5	2049.8	2109.3	2180.9	2247.0	2323.1	2361.8	2360.9	2308.5	2211.5
35°	1643.0	1656.0	1695.1	1757.5	1843.5	1941.8	2062.2	2155.9	2219.7	2215.2	2155.9
37.5°	1325.0	1339.8	1379.2	1431.0	1514.3	1636.1	1752.6	1881.7	1999.7	2066.0	2046.2
40°	1152.2	1152.8	1191.2	1244.6	1322.7	1428.8	1555.8	1698.9	1830.4	1937.9	1958.7
42.5°	1015.7	1015.9	1041.2	1098.8	1155.0	1254.9	1376.1	1518.3	1672.2	1796.2	1851.4
45°	839.7	845.5	866.4	900.9	945.2	1029.8	1126.7	1258.9	1431.4	1578.5	1670.3
47.5°	711.1	719.7	733.0	761.1	796.4	852.7	932.9	1051.7	1192.0	1353.8	1484.4
50°	644.4	645.7	662.7	678.2	708.9	753.8	824.1	923.0	1051.9	1207.5	1352.7
52.5°	587.2	586.9	597.0	616.9	641.7	676.7	733.4	823.5	937.8	1077.3	1227.2
55°	501.2	504.5	512.3	527.9	546.8	571.5	616.4	684.1	774.0	893.1	1029.2
57.5°	435.9	437.6	443.7	450.3	467.7	485.6	519.3	566.3	642.1	739.6	866.4
60°	393.1	393.8	395.7	405.5	419.2	436.1	458.9	498.6	562.4	651.6	751.9
62.5°	351.5	352.7	355.7	362.8	373.4	385.1	409.0	440.8	493.7	569.8	660.1
65°	292.9	293.6	298.2	300.8	309.2	319.6	337.2	358.7	395.1	458.9	527.3
67.5°	244.8	244.8	245.0	248.5	254.4	261.3	271.8	289.0	316.5	355.7	416.0
70°	213.5	213.5	214.8	216.8	220.0	225.8	231.7	244.8	265.0	296.9	343.1
72.5°	184.3	184.8	186.1	186.5	188.3	193.1	197.4	205.7	220.7	244.8	282.1
75°	135.4	137.4	140.6	143.2	146.4	145.8	150.3	155.6	160.1	174.5	195.9
77.5°	100.8	99.7	100.1	102.3	102.7	103.4	106.6	110.6	114.1	120.8	128.5
80°	76.8	76.8	78.8	79.4	78.8	79.4	82.7	84.6	85.9	88.5	95.7
82.5°	58.0	59.1	58.5	59.1	59.5	60.2	62.9	63.3	64.6	65.6	68.6
85°	32.5	33.2	33.8	32.5	32.5	32.5	33.8	34.5	35.8	35.1	36.4
87.5°	15.1	14.5	15.0	14.9	15.4	14.8	15.2	16.0	14.8	15.2	14.9
90°	18.2	17.9	17.6	17.4	17.0	16.6	15.7	14.9	14.1	13.3	12.2
92.5°	16.7	16.6	16.6	16.6	16.5	16.1	15.2	14.4	13.6	12.8	11.7
95°	17.5	17.4	17.3	17.1	17.0	16.6	15.7	14.9	14.1	13.3	13.2
97.5°	17.0	16.8	16.7	16.6	16.4	16.3	16.2	16.1	16.1	16.0	31.0
100°	17.0	16.8	16.7	16.6	16.4	17.4	19.7	22.1	24.4	26.7	45.2
102.5°	17.4	17.4	17.4	17.4	17.3	29.7	54.3	79.0	103.6	128.3	130.7
105°	172.5	177.3	182.1	187.0	191.8	193.6	192.4	191.3	190.0	188.8	188.2
107.5°	240.4	239.9	239.4	238.9	238.3	237.8	237.2	236.6	236.0	235.4	234.5
110°	269.9	269.5	269.1	268.7	268.3	268.0	267.7	267.4	267.2	266.8	266.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	299.5	299.0	298.4	297.9	297.4	297.2	297.3	297.3	297.3	297.4	297.0
115°	342.5	342.5	342.5	342.5	342.5	342.4	342.1	341.9	341.6	341.3	341.4
117.5°	386.4	386.4	386.5	386.5	386.5	386.6	386.7	386.7	386.8	386.9	386.5
120°	413.9	414.3	414.5	414.7	415.0	415.0	414.7	414.5	414.3	413.9	414.1
122.5°	441.1	441.3	441.6	441.9	442.1	442.2	442.1	441.9	441.7	441.6	441.3
125°	481.8	481.6	481.4	481.4	481.2	480.9	480.5	480.1	479.7	479.3	479.6
127.5°	517.5	517.6	517.6	517.8	517.9	518.0	518.0	518.1	518.2	518.3	517.6
130°	541.6	541.6	541.6	541.6	541.6	541.6	541.4	541.3	541.2	541.0	540.6
132.5°	563.9	564.0	564.1	564.3	564.4	564.4	564.2	564.0	563.9	563.8	563.3
135°	597.3	597.0	596.8	596.5	596.2	596.0	595.7	595.4	595.2	594.9	594.4
137.5°	625.9	626.0	626.1	626.1	626.2	626.1	625.8	625.5	625.2	624.9	624.4
140°	645.7	645.6	645.5	645.3	645.2	644.9	644.5	644.1	643.7	643.4	643.0
142.5°	662.2	662.2	662.1	662.1	662.1	661.9	661.6	661.4	661.0	660.7	660.6
145°	687.5	687.2	687.0	686.6	686.4	686.2	686.1	685.9	685.8	685.7	685.7
147.5°	708.4	708.3	708.2	708.0	707.9	707.8	707.7	707.5	707.4	707.4	707.4
150°	721.9	721.9	721.7	721.6	721.5	721.4	721.4	721.4	721.4	721.4	721.5
152.5°	733.6	733.7	733.8	733.9	733.9	733.9	733.6	733.4	733.2	733.0	733.3
155°	749.3	749.6	750.0	750.4	750.8	750.7	750.2	749.7	749.2	748.6	749.0
157.5°	762.3	763.0	763.7	764.4	765.1	765.1	764.4	763.7	763.0	762.3	762.7
160°	771.0	771.8	772.7	773.4	774.2	774.2	773.4	772.7	771.8	771.0	771.1
162.5°	777.8	778.7	779.6	780.6	781.5	781.5	780.6	779.9	779.1	778.3	778.4
165°	787.3	788.6	789.8	791.0	792.2	792.2	791.2	790.1	789.0	788.0	788.0
167.5°	794.5	795.8	797.2	798.5	799.9	800.0	798.7	797.6	796.4	795.2	795.3
170°	798.8	800.2	801.5	802.9	804.2	804.4	803.3	802.2	801.1	800.1	799.9
172.5°	801.3	802.7	804.2	805.6	807.1	807.2	806.2	805.1	804.0	803.0	802.8
175°	804.3	805.9	807.6	809.1	810.7	811.0	809.8	808.5	807.3	806.1	806.0
177.5°	806.2	807.6	808.8	810.1	811.4	811.6	810.7	809.9	809.0	808.1	808.0
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1664.6	1657.3	1653.7	1645.4	1635.4	1630.2	1625.5	1618.8	1609.9	1600.5	1593.7
5°	1749.1	1733.5	1713.9	1690.5	1669.7	1649.5	1631.9	1614.4	1594.2	1573.4	1552.5
7.5°	1835.8	1805.1	1771.9	1733.5	1696.1	1662.2	1630.8	1600.9	1567.1	1536.8	1509.1
10°	1896.2	1854.6	1808.3	1759.5	1710.7	1668.3	1626.7	1588.9	1547.3	1510.2	1479.0
12.5°	1945.1	1896.2	1840.6	1779.8	1721.1	1669.9	1622.0	1572.8	1525.4	1485.2	1443.6
15°	2026.3	1959.3	1884.5	1811.6	1735.4	1665.7	1601.3	1544.0	1490.0	1433.4	1393.7
17.5°	2082.3	2002.7	1911.7	1824.1	1734.1	1652.0	1577.6	1509.4	1447.1	1389.3	1342.0
20°	2115.5	2027.6	1926.8	1827.2	1726.3	1638.4	1558.4	1482.9	1418.4	1355.9	1307.1
22.5°	2134.3	2037.0	1926.8	1822.5	1718.0	1622.8	1534.9	1456.3	1386.1	1323.6	1269.6
25°	2140.3	2036.1	1923.5	1803.8	1689.2	1588.3	1497.1	1411.9	1333.7	1271.3	1214.0
27.5°	2132.0	2009.3	1894.0	1771.1	1652.9	1546.5	1450.8	1361.2	1283.0	1215.9	1157.2
30°	2119.5	1987.9	1864.3	1736.8	1616.9	1514.7	1413.8	1328.0	1246.6	1176.9	1117.7
32.5°	2092.4	1961.9	1828.9	1698.2	1576.9	1471.5	1375.8	1289.4	1209.6	1138.4	1075.5
35°	2038.7	1906.6	1762.1	1628.0	1508.9	1399.5	1309.7	1226.4	1150.2	1074.1	1007.6
37.5°	1968.1	1833.0	1689.3	1542.5	1423.2	1320.0	1237.5	1159.4	1085.0	1015.5	941.9
40°	1901.4	1778.4	1629.9	1484.2	1361.8	1262.2	1186.0	1115.1	1040.2	971.2	897.6
42.5°	1820.7	1715.9	1565.9	1419.6	1298.8	1202.8	1131.9	1062.5	994.4	927.5	850.8
45°	1686.0	1606.5	1465.9	1325.4	1203.6	1108.6	1043.5	982.3	922.3	858.6	786.4
47.5°	1531.5	1477.7	1356.4	1212.4	1099.8	1014.3	951.5	901.4	850.8	787.0	723.6
50°	1424.2	1389.8	1272.6	1141.1	1033.7	955.0	890.5	843.6	801.3	740.1	683.5
52.5°	1309.7	1291.4	1192.4	1066.7	962.9	885.7	830.6	788.4	745.6	694.8	641.8
55°	1135.2	1145.0	1061.0	952.4	854.7	789.6	739.5	704.3	667.9	624.9	583.9
57.5°	956.9	992.5	936.2	840.7	749.3	689.1	651.3	621.7	591.2	555.5	520.5
60°	850.1	880.0	848.2	764.2	684.1	628.2	593.0	570.2	539.6	507.1	480.4
62.5°	746.0	778.0	759.1	691.3	616.9	568.8	537.8	516.6	493.8	465.5	437.7
65°	615.1	635.9	626.9	580.0	527.3	486.2	457.6	442.0	421.2	400.3	375.6
67.5°	471.2	511.4	506.1	481.2	435.6	403.6	384.8	371.0	352.0	336.6	319.8
70°	387.3	424.4	423.8	403.6	378.9	348.9	335.9	324.2	307.2	292.3	278.6
72.5°	317.0	351.0	356.0	340.6	323.7	301.0	288.5	280.5	264.0	253.7	242.6
75°	222.0	246.7	253.2	253.2	245.4	233.7	222.7	217.4	205.7	196.6	190.0
77.5°	145.5	161.2	171.3	173.7	174.9	171.0	161.8	158.2	149.2	145.9	139.7
80°	102.8	113.2	125.0	128.9	132.2	130.9	126.9	124.3	115.9	112.6	110.0
82.5°	71.1	76.8	86.4	95.1	94.1	97.5	94.1	92.0	85.7	84.5	81.9
85°	37.1	37.7	39.1	44.9	48.2	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	14.8	14.0	14.8	14.6	14.8	16.6	17.9	18.1	16.8	15.6	14.3
90°	11.2	10.1	9.0	7.7	6.3	4.8	3.3	1.8	3.3	4.8	6.3
92.5°	10.7	9.6	8.6	7.9	7.8	7.8	7.7	7.7	7.7	7.8	7.8
95°	13.0	12.9	12.8	15.0	19.6	24.1	28.7	33.3	28.7	24.1	19.6
97.5°	46.0	61.0	76.0	82.1	79.2	76.4	73.5	70.7	73.5	76.4	79.2
100°	63.8	82.3	100.9	108.9	106.5	104.1	101.7	99.2	101.7	104.1	106.5
102.5°	133.1	135.6	137.9	138.3	136.6	134.8	133.0	131.2	133.0	134.8	136.6
105°	187.4	186.8	186.1	185.4	184.6	183.8	183.0	182.1	183.0	183.8	184.6
107.5°	233.6	232.7	231.8	231.1	230.7	230.3	229.9	229.5	229.9	230.3	230.7
110°	265.3	264.5	263.7	263.0	262.7	262.3	261.9	261.5	261.9	262.3	262.7



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	296.6	296.3	295.9	295.3	294.6	293.9	293.2	292.4	293.2	293.9	294.6
115°	341.6	341.7	341.9	341.7	341.3	341.0	340.6	340.1	340.6	341.0	341.3
117.5°	386.2	386.0	385.6	385.2	384.7	384.2	383.6	383.1	383.6	384.2	384.7
120°	414.3	414.3	414.5	414.3	413.8	413.2	412.7	412.1	412.7	413.2	413.8
122.5°	441.2	441.0	440.8	440.5	440.2	439.9	439.5	439.3	439.5	439.9	440.2
125°	479.9	480.1	480.4	480.2	479.7	479.2	478.7	478.1	478.7	479.2	479.7
127.5°	517.1	516.4	515.8	515.4	515.3	515.2	515.0	514.9	515.0	515.2	515.3
130°	540.2	539.8	539.4	539.2	539.0	538.9	538.7	538.6	538.7	538.9	539.0
132.5°	562.8	562.2	561.7	561.3	561.1	560.9	560.7	560.4	560.7	560.9	561.1
135°	593.8	593.3	592.7	592.6	592.6	592.8	593.0	593.0	593.0	592.8	592.6
137.5°	623.7	623.1	622.6	622.2	622.2	622.2	622.1	622.0	622.1	622.2	622.2
140°	642.8	642.5	642.2	642.0	641.7	641.4	641.2	640.9	641.2	641.4	641.7
142.5°	660.4	660.2	660.1	659.7	659.3	658.8	658.4	657.9	658.4	658.8	659.3
145°	685.7	685.7	685.7	685.5	685.1	684.7	684.3	683.9	684.3	684.7	685.1
147.5°	707.6	707.8	707.8	707.6	706.8	706.0	705.3	704.6	705.3	706.0	706.8
150°	721.6	721.8	721.9	721.7	721.2	720.6	720.1	719.6	720.1	720.6	721.2
152.5°	733.5	733.7	733.9	733.9	733.4	733.0	732.5	732.1	732.5	733.0	733.4
155°	749.4	749.8	750.2	750.4	750.2	750.1	750.0	749.8	750.0	750.1	750.2
157.5°	763.2	763.7	764.1	764.4	764.5	764.6	764.7	764.8	764.7	764.6	764.5
160°	771.3	771.4	771.5	771.8	772.3	772.7	773.0	773.4	773.0	772.7	772.3
162.5°	778.5	778.7	778.8	779.1	779.7	780.2	780.6	781.1	780.6	780.2	779.7
165°	788.0	788.0	788.0	788.3	789.0	789.6	790.3	791.0	790.3	789.6	789.0
167.5°	795.4	795.5	795.6	795.9	796.6	797.4	798.0	798.7	798.0	797.4	796.6
170°	799.8	799.6	799.5	799.9	800.6	801.4	802.3	803.1	802.3	801.4	800.6
172.5°	802.7	802.6	802.4	802.7	803.6	804.4	805.2	806.0	805.2	804.4	803.6
175°	805.8	805.7	805.6	805.9	806.7	807.6	808.3	809.1	808.3	807.6	806.7
177.5°	807.7	807.6	807.3	807.6	808.3	809.1	809.8	810.6	809.8	809.1	808.3
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1586.5	1581.3	1574.5	1566.7	1557.3	1549.0	1545.3	1548.5	1550.0	1545.9	1545.3
5°	1538.1	1521.9	1508.9	1489.4	1473.7	1460.7	1451.6	1447.7	1449.0	1438.6	1436.0
7.5°	1483.9	1464.6	1443.2	1420.1	1398.5	1379.3	1369.3	1363.8	1352.8	1348.1	1340.2
10°	1449.0	1422.9	1402.2	1374.8	1350.1	1327.3	1316.2	1307.1	1296.0	1290.8	1279.8
12.5°	1413.1	1382.8	1359.9	1331.5	1306.3	1278.9	1268.3	1251.4	1234.0	1223.1	1208.9
15°	1362.4	1326.0	1298.0	1264.1	1234.2	1203.0	1174.9	1143.7	1132.0	1107.3	1092.9
17.5°	1303.2	1266.2	1231.6	1186.2	1140.0	1101.1	1071.3	1041.4	1023.4	1007.6	1000.4
20°	1264.1	1230.3	1182.1	1129.4	1078.0	1035.0	1010.9	991.4	971.8	960.8	953.0
22.5°	1227.2	1183.9	1128.0	1071.1	1019.6	986.0	965.6	945.6	929.7	919.2	908.7
25°	1165.2	1108.6	1049.3	984.2	949.1	919.8	897.6	881.3	871.6	857.9	852.7
27.5°	1101.6	1032.9	967.6	923.8	887.2	860.4	841.1	828.9	816.5	807.8	801.0
30°	1052.6	982.9	924.3	882.6	845.5	823.5	807.8	793.5	783.7	776.6	771.4
32.5°	1004.1	934.5	885.3	840.5	811.2	789.6	772.9	762.2	754.6	745.3	742.2
35°	934.1	872.3	829.3	789.0	759.0	739.5	726.4	715.4	708.9	706.3	704.3
37.5°	866.8	816.1	770.0	736.9	710.2	694.8	679.5	674.0	669.5	664.9	667.0
40°	824.1	776.6	735.6	700.4	678.9	662.0	652.9	646.4	642.5	642.5	642.5
42.5°	787.1	740.6	700.7	669.2	647.7	633.4	623.2	617.8	616.4	616.0	619.1
45°	729.7	686.7	646.4	620.4	602.1	587.8	582.0	577.4	577.4	580.0	580.7
47.5°	672.8	632.6	600.1	571.0	554.3	545.4	540.3	537.9	538.2	540.8	543.8
50°	637.9	598.2	566.3	540.3	524.6	516.2	511.6	510.4	511.6	511.6	516.2
52.5°	599.9	564.4	533.0	511.1	493.4	485.5	483.0	481.2	481.9	484.0	486.0
55°	544.2	512.3	482.3	461.5	448.5	443.3	437.4	438.1	436.8	438.1	438.1
57.5°	488.4	459.7	431.9	415.3	403.8	396.3	389.9	391.8	389.8	389.6	388.5
60°	452.4	421.2	399.0	384.1	371.0	364.5	358.7	360.0	358.0	356.7	354.1
62.5°	413.4	387.3	366.2	351.8	341.4	333.8	327.9	326.6	322.1	317.6	311.9
65°	356.7	335.3	316.3	302.7	292.9	287.1	282.5	278.6	268.8	258.4	253.2
67.5°	301.7	286.2	268.6	257.0	249.1	241.4	232.7	226.0	216.9	211.2	207.9
70°	266.2	251.3	236.3	225.2	216.8	209.6	199.8	195.3	188.7	186.1	183.0
72.5°	232.4	218.4	204.6	194.5	185.5	179.9	172.3	167.7	164.9	163.8	160.5
75°	181.0	169.9	159.5	150.3	143.2	139.3	136.1	132.8	131.5	125.6	122.4
77.5°	132.0	124.7	118.2	111.7	106.6	104.0	97.8	94.0	91.8	89.0	88.4
80°	102.8	97.7	91.2	87.2	80.1	77.5	74.8	74.2	73.5	72.9	72.2
82.5°	77.4	72.2	65.6	63.3	61.3	59.8	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.4	36.4	35.8	35.1	34.5	33.8	33.8	33.2	33.8	33.2
87.5°	14.6	14.3	14.5	13.7	14.4	14.7	14.3	14.4	15.2	14.3	14.3
90°	7.7	9.0	10.1	11.2	12.2	13.3	14.1	14.9	15.7	16.6	17.0
92.5°	7.9	8.6	9.6	10.7	11.7	12.8	13.6	14.4	15.2	16.1	16.5
95°	15.0	12.8	12.9	13.0	13.2	13.3	14.1	14.9	15.7	16.6	17.0
97.5°	82.1	76.0	61.0	46.0	31.0	16.0	16.1	16.1	16.2	16.3	16.4
100°	108.9	100.9	82.3	63.8	45.2	26.7	24.4	22.1	19.7	17.4	16.4
102.5°	138.3	137.9	135.6	133.1	130.7	128.3	103.6	79.0	54.3	29.7	17.3
105°	185.4	186.1	186.8	187.4	188.2	188.8	190.0	191.3	192.4	193.6	191.8
107.5°	231.1	231.8	232.7	233.6	234.5	235.4	236.0	236.6	237.2	237.8	238.3
110°	263.0	263.7	264.5	265.3	266.1	266.8	267.2	267.4	267.7	268.0	268.3



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	295.3	295.9	296.3	296.6	297.0	297.4	297.3	297.3	297.3	297.2	297.4
115°	341.7	341.9	341.7	341.6	341.4	341.3	341.6	341.9	342.1	342.4	342.5
117.5°	385.2	385.6	386.0	386.2	386.5	386.9	386.8	386.7	386.7	386.6	386.5
120°	414.3	414.5	414.3	414.3	414.1	413.9	414.3	414.5	414.7	415.0	415.0
122.5°	440.5	440.8	441.0	441.2	441.3	441.6	441.7	441.9	442.1	442.2	442.1
125°	480.2	480.4	480.1	479.9	479.6	479.3	479.7	480.1	480.5	480.9	481.2
127.5°	515.4	515.8	516.4	517.1	517.6	518.3	518.2	518.1	518.0	518.0	517.9
130°	539.2	539.4	539.8	540.2	540.6	541.0	541.2	541.3	541.4	541.6	541.6
132.5°	561.3	561.7	562.2	562.8	563.3	563.8	563.9	564.0	564.2	564.4	564.4
135°	592.6	592.7	593.3	593.8	594.4	594.9	595.2	595.4	595.7	596.0	596.2
137.5°	622.2	622.6	623.1	623.7	624.4	624.9	625.2	625.5	625.8	626.1	626.2
140°	642.0	642.2	642.5	642.8	643.0	643.4	643.7	644.1	644.5	644.9	645.2
142.5°	659.7	660.1	660.2	660.4	660.6	660.7	661.0	661.4	661.6	661.9	662.1
145°	685.5	685.7	685.7	685.7	685.7	685.7	685.8	685.9	686.1	686.2	686.4
147.5°	707.6	707.8	707.8	707.6	707.4	707.4	707.4	707.5	707.7	707.8	707.9
150°	721.7	721.9	721.8	721.6	721.5	721.4	721.4	721.4	721.4	721.4	721.5
152.5°	733.9	733.9	733.7	733.5	733.3	733.0	733.2	733.4	733.6	733.9	733.9
155°	750.4	750.2	749.8	749.4	749.0	748.6	749.2	749.7	750.2	750.7	750.8
157.5°	764.4	764.1	763.7	763.2	762.7	762.3	763.0	763.7	764.4	765.1	765.1
160°	771.8	771.5	771.4	771.3	771.1	771.0	771.8	772.7	773.4	774.2	774.2
162.5°	779.1	778.8	778.7	778.5	778.4	778.3	779.1	779.9	780.6	781.5	781.5
165°	788.3	788.0	788.0	788.0	788.0	788.0	789.0	790.1	791.2	792.2	792.2
167.5°	795.9	795.6	795.5	795.4	795.3	795.2	796.4	797.6	798.7	800.0	799.9
170°	799.9	799.5	799.6	799.8	799.9	800.1	801.1	802.2	803.3	804.4	804.2
172.5°	802.7	802.4	802.6	802.7	802.8	803.0	804.0	805.1	806.2	807.2	807.1
175°	805.9	805.6	805.7	805.8	806.0	806.1	807.3	808.5	809.8	811.0	810.7
177.5°	807.6	807.3	807.6	807.7	808.0	808.1	809.0	809.9	810.7	811.6	811.4
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1542.2	1543.3	1539.6	1538.6	1539.6	1543.3	1542.2	1545.3	1545.9	1550.0	1548.5
5°	1430.8	1429.5	1426.2	1426.9	1426.2	1429.5	1430.8	1436.0	1438.6	1449.0	1447.7
7.5°	1335.5	1330.4	1331.8	1326.7	1331.8	1330.4	1335.5	1340.2	1348.1	1352.8	1363.8
10°	1277.2	1270.0	1264.1	1258.9	1264.1	1270.0	1277.2	1279.8	1290.8	1296.0	1307.1
12.5°	1197.5	1191.3	1183.4	1185.0	1183.4	1191.3	1197.5	1208.9	1223.1	1234.0	1251.4
15°	1084.4	1074.7	1059.1	1061.0	1059.1	1074.7	1084.4	1092.9	1107.3	1132.0	1143.7
17.5°	988.8	988.9	981.8	983.4	981.8	988.9	988.8	1000.4	1007.6	1023.4	1041.4
20°	939.3	934.7	935.4	933.4	935.4	934.7	939.3	953.0	960.8	971.8	991.4
22.5°	904.9	899.4	894.8	890.7	894.8	899.4	904.9	908.7	919.2	929.7	945.6
25°	846.9	842.9	837.1	835.8	837.1	842.9	846.9	852.7	857.9	871.6	881.3
27.5°	795.8	795.1	792.7	789.7	792.7	795.1	795.8	801.0	807.8	816.5	828.9
30°	766.1	764.8	763.5	761.6	763.5	764.8	766.1	771.4	776.6	783.7	793.5
32.5°	739.6	738.8	737.5	737.7	737.5	738.8	739.6	742.2	745.3	754.6	762.2
35°	701.7	701.1	699.8	699.1	699.8	701.1	701.7	704.3	706.3	708.9	715.4
37.5°	666.3	668.0	667.2	667.1	667.2	668.0	666.3	667.0	664.9	669.5	674.0
40°	641.8	642.5	643.8	643.1	643.8	642.5	641.8	642.5	642.5	642.5	646.4
42.5°	621.5	621.7	623.5	621.3	623.5	621.7	621.5	619.1	616.0	616.4	617.8
45°	585.2	589.1	588.5	588.5	588.5	589.1	585.2	580.7	580.0	577.4	577.4
47.5°	545.5	548.9	549.8	549.7	549.8	548.9	545.5	543.8	540.8	538.2	537.9
50°	519.4	518.1	520.1	519.4	520.1	518.1	519.4	516.2	511.6	511.6	510.4
52.5°	487.7	488.0	487.8	487.1	487.8	488.0	487.7	486.0	484.0	481.9	481.2
55°	438.7	439.4	438.1	438.7	438.1	439.4	438.7	438.1	438.1	436.8	438.1
57.5°	385.6	382.5	383.8	382.2	383.8	382.5	385.6	388.5	389.6	389.8	391.8
60°	347.6	342.4	341.1	338.5	341.1	342.4	347.6	354.1	356.7	358.0	360.0
62.5°	304.9	301.3	296.9	298.9	296.9	301.3	304.9	311.9	317.6	322.1	326.6
65°	248.0	245.4	243.4	246.1	243.4	245.4	248.0	253.2	258.4	268.8	278.6
67.5°	205.3	203.9	203.9	202.6	203.9	203.9	205.3	207.9	211.2	216.9	226.0
70°	183.0	181.0	181.0	179.7	181.0	181.0	183.0	183.0	186.1	188.7	195.3
72.5°	160.0	158.1	158.6	157.8	158.6	158.1	160.0	160.5	163.8	164.9	167.7
75°	118.5	115.2	115.2	115.9	115.2	115.2	118.5	122.4	125.6	131.5	132.8
77.5°	88.4	87.7	88.6	87.5	88.6	87.7	88.4	88.4	89.0	91.8	94.0
80°	72.2	71.6	70.9	72.9	70.9	71.6	72.2	72.2	72.9	73.5	74.2
82.5°	56.1	56.0	55.8	58.3	55.8	56.0	56.1	57.2	57.3	56.9	57.6
85°	33.8	32.5	33.8	32.5	33.8	32.5	33.8	33.2	33.8	33.2	33.8
87.5°	15.4	15.0	14.5	15.1	14.5	15.0	15.4	14.3	14.3	15.2	14.4
90°	17.4	17.6	17.9	18.2	17.9	17.6	17.4	17.0	16.6	15.7	14.9
92.5°	16.6	16.6	16.6	16.7	16.6	16.6	16.6	16.5	16.1	15.2	14.4
95°	17.1	17.3	17.4	17.5	17.4	17.3	17.1	17.0	16.6	15.7	14.9
97.5°	16.6	16.7	16.8	17.0	16.8	16.7	16.6	16.4	16.3	16.2	16.1
100°	16.6	16.7	16.8	17.0	16.8	16.7	16.6	16.4	17.4	19.7	22.1
102.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.3	29.7	54.3	79.0
105°	187.0	182.1	177.3	172.5	177.3	182.1	187.0	191.8	193.6	192.4	191.3
107.5°	238.9	239.4	239.9	240.4	239.9	239.4	238.9	238.3	237.8	237.2	236.6
110°	268.7	269.1	269.5	269.9	269.5	269.1	268.7	268.3	268.0	267.7	267.4



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	297.9	298.4	299.0	299.5	299.0	298.4	297.9	297.4	297.2	297.3	297.3
115°	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.5	342.4	342.1	341.9
117.5°	386.5	386.5	386.4	386.4	386.4	386.5	386.5	386.5	386.6	386.7	386.7
120°	414.7	414.5	414.3	413.9	414.3	414.5	414.7	415.0	415.0	414.7	414.5
122.5°	441.9	441.6	441.3	441.1	441.3	441.6	441.9	442.1	442.2	442.1	441.9
125°	481.4	481.4	481.6	481.8	481.6	481.4	481.4	481.2	480.9	480.5	480.1
127.5°	517.8	517.6	517.6	517.5	517.6	517.6	517.8	517.9	518.0	518.0	518.1
130°	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.4	541.3
132.5°	564.3	564.1	564.0	563.9	564.0	564.1	564.3	564.4	564.4	564.2	564.0
135°	596.5	596.8	597.0	597.3	597.0	596.8	596.5	596.2	596.0	595.7	595.4
137.5°	626.1	626.1	626.0	625.9	626.0	626.1	626.1	626.2	626.1	625.8	625.5
140°	645.3	645.5	645.6	645.7	645.6	645.5	645.3	645.2	644.9	644.5	644.1
142.5°	662.1	662.1	662.2	662.2	662.2	662.1	662.1	662.1	661.9	661.6	661.4
145°	686.6	687.0	687.2	687.5	687.2	687.0	686.6	686.4	686.2	686.1	685.9
147.5°	708.0	708.2	708.3	708.4	708.3	708.2	708.0	707.9	707.8	707.7	707.5
150°	721.6	721.7	721.9	721.9	721.9	721.7	721.6	721.5	721.4	721.4	721.4
152.5°	733.9	733.8	733.7	733.6	733.7	733.8	733.9	733.9	733.9	733.6	733.4
155°	750.4	750.0	749.6	749.3	749.6	750.0	750.4	750.8	750.7	750.2	749.7
157.5°	764.4	763.7	763.0	762.3	763.0	763.7	764.4	765.1	765.1	764.4	763.7
160°	773.4	772.7	771.8	771.0	771.8	772.7	773.4	774.2	774.2	773.4	772.7
162.5°	780.6	779.6	778.7	777.8	778.7	779.6	780.6	781.5	781.5	780.6	779.9
165°	791.0	789.8	788.6	787.3	788.6	789.8	791.0	792.2	792.2	791.2	790.1
167.5°	798.5	797.2	795.8	794.5	795.8	797.2	798.5	799.9	800.0	798.7	797.6
170°	802.9	801.5	800.2	798.8	800.2	801.5	802.9	804.2	804.4	803.3	802.2
172.5°	805.6	804.2	802.7	801.3	802.7	804.2	805.6	807.1	807.2	806.2	805.1
175°	809.1	807.6	805.9	804.3	805.9	807.6	809.1	810.7	811.0	809.8	808.5
177.5°	810.1	808.8	807.6	806.2	807.6	808.8	810.1	811.4	811.6	810.7	809.9
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1545.3	1549.0	1557.3	1566.7	1574.5	1581.3	1586.5	1593.7	1600.5	1609.9	1618.8
5°	1451.6	1460.7	1473.7	1489.4	1508.9	1521.9	1538.1	1552.5	1573.4	1594.2	1614.4
7.5°	1369.3	1379.3	1398.5	1420.1	1443.2	1464.6	1483.9	1509.1	1536.8	1567.1	1600.9
10°	1316.2	1327.3	1350.1	1374.8	1402.2	1422.9	1449.0	1479.0	1510.2	1547.3	1588.9
12.5°	1268.3	1278.9	1306.3	1331.5	1359.9	1382.8	1413.1	1443.6	1485.2	1525.4	1572.8
15°	1174.9	1203.0	1234.2	1264.1	1298.0	1326.0	1362.4	1393.7	1433.4	1490.0	1544.0
17.5°	1071.3	1101.1	1140.0	1186.2	1231.6	1266.2	1303.2	1342.0	1389.3	1447.1	1509.4
20°	1010.9	1035.0	1078.0	1129.4	1182.1	1230.3	1264.1	1307.1	1355.9	1418.4	1482.9
22.5°	965.6	986.0	1019.6	1071.1	1128.0	1183.9	1227.2	1269.6	1323.6	1386.1	1456.3
25°	897.6	919.8	949.1	984.2	1049.3	1108.6	1165.2	1214.0	1271.3	1333.7	1411.9
27.5°	841.1	860.4	887.2	923.8	967.6	1032.9	1101.6	1157.2	1215.9	1283.0	1361.2
30°	807.8	823.5	845.5	882.6	924.3	982.9	1052.6	1117.7	1176.9	1246.6	1328.0
32.5°	772.9	789.6	811.2	840.5	885.3	934.5	1004.1	1075.5	1138.4	1209.6	1289.4
35°	726.4	739.5	759.0	789.0	829.3	872.3	934.1	1007.6	1074.1	1150.2	1226.4
37.5°	679.5	694.8	710.2	736.9	770.0	816.1	866.8	941.9	1015.5	1085.0	1159.4
40°	652.9	662.0	678.9	700.4	735.6	776.6	824.1	897.6	971.2	1040.2	1115.1
42.5°	623.2	633.4	647.7	669.2	700.7	740.6	787.1	850.8	927.5	994.4	1062.5
45°	582.0	587.8	602.1	620.4	646.4	686.7	729.7	786.4	858.6	922.3	982.3
47.5°	540.3	545.4	554.3	571.0	600.1	632.6	672.8	723.6	787.0	850.8	901.4
50°	511.6	516.2	524.6	540.3	566.3	598.2	637.9	683.5	740.1	801.3	843.6
52.5°	483.0	485.5	493.4	511.1	533.0	564.4	599.9	641.8	694.8	745.6	788.4
55°	437.4	443.3	448.5	461.5	482.3	512.3	544.2	583.9	624.9	667.9	704.3
57.5°	389.9	396.3	403.8	415.3	431.9	459.7	488.4	520.5	555.5	591.2	621.7
60°	358.7	364.5	371.0	384.1	399.0	421.2	452.4	480.4	507.1	539.6	570.2
62.5°	327.9	333.8	341.4	351.8	366.2	387.3	413.4	437.7	465.5	493.8	516.6
65°	282.5	287.1	292.9	302.7	316.3	335.3	356.7	375.6	400.3	421.2	442.0
67.5°	232.7	241.4	249.1	257.0	268.6	286.2	301.7	319.8	336.6	352.0	371.0
70°	199.8	209.6	216.8	225.2	236.3	251.3	266.2	278.6	292.3	307.2	324.2
72.5°	172.3	179.9	185.5	194.5	204.6	218.4	232.4	242.6	253.7	264.0	280.5
75°	136.1	139.3	143.2	150.3	159.5	169.9	181.0	190.0	196.6	205.7	217.4
77.5°	97.8	104.0	106.6	111.7	118.2	124.7	132.0	139.7	145.9	149.2	158.2
80°	74.8	77.5	80.1	87.2	91.2	97.7	102.8	110.0	112.6	115.9	124.3
82.5°	58.2	59.8	61.3	63.3	65.6	72.2	77.4	81.9	84.5	85.7	92.0
85°	33.8	34.5	35.1	35.8	36.4	36.4	39.1	42.3	46.9	46.9	48.8
87.5°	14.3	14.7	14.4	13.7	14.5	14.3	14.6	14.3	15.6	16.8	18.1
90°	14.1	13.3	12.2	11.2	10.1	9.0	7.7	6.3	4.8	3.3	1.8
92.5°	13.6	12.8	11.7	10.7	9.6	8.6	7.9	7.8	7.8	7.7	7.7
95°	14.1	13.3	13.2	13.0	12.9	12.8	15.0	19.6	24.1	28.7	33.3
97.5°	16.1	16.0	31.0	46.0	61.0	76.0	82.1	79.2	76.4	73.5	70.7
100°	24.4	26.7	45.2	63.8	82.3	100.9	108.9	106.5	104.1	101.7	99.2
102.5°	103.6	128.3	130.7	133.1	135.6	137.9	138.3	136.6	134.8	133.0	131.2
105°	190.0	188.8	188.2	187.4	186.8	186.1	185.4	184.6	183.8	183.0	182.1
107.5°	236.0	235.4	234.5	233.6	232.7	231.8	231.1	230.7	230.3	229.9	229.5
110°	267.2	266.8	266.1	265.3	264.5	263.7	263.0	262.7	262.3	261.9	261.5



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	297.3	297.4	297.0	296.6	296.3	295.9	295.3	294.6	293.9	293.2	292.4
115°	341.6	341.3	341.4	341.6	341.7	341.9	341.7	341.3	341.0	340.6	340.1
117.5°	386.8	386.9	386.5	386.2	386.0	385.6	385.2	384.7	384.2	383.6	383.1
120°	414.3	413.9	414.1	414.3	414.3	414.5	414.3	413.8	413.2	412.7	412.1
122.5°	441.7	441.6	441.3	441.2	441.0	440.8	440.5	440.2	439.9	439.5	439.3
125°	479.7	479.3	479.6	479.9	480.1	480.4	480.2	479.7	479.2	478.7	478.1
127.5°	518.2	518.3	517.6	517.1	516.4	515.8	515.4	515.3	515.2	515.0	514.9
130°	541.2	541.0	540.6	540.2	539.8	539.4	539.2	539.0	538.9	538.7	538.6
132.5°	563.9	563.8	563.3	562.8	562.2	561.7	561.3	561.1	560.9	560.7	560.4
135°	595.2	594.9	594.4	593.8	593.3	592.7	592.6	592.6	592.8	593.0	593.0
137.5°	625.2	624.9	624.4	623.7	623.1	622.6	622.2	622.2	622.2	622.1	622.0
140°	643.7	643.4	643.0	642.8	642.5	642.2	642.0	641.7	641.4	641.2	640.9
142.5°	661.0	660.7	660.6	660.4	660.2	660.1	659.7	659.3	658.8	658.4	657.9
145°	685.8	685.7	685.7	685.7	685.7	685.7	685.5	685.1	684.7	684.3	683.9
147.5°	707.4	707.4	707.4	707.6	707.8	707.8	707.6	706.8	706.0	705.3	704.6
150°	721.4	721.4	721.5	721.6	721.8	721.9	721.7	721.2	720.6	720.1	719.6
152.5°	733.2	733.0	733.3	733.5	733.7	733.9	733.9	733.4	733.0	732.5	732.1
155°	749.2	748.6	749.0	749.4	749.8	750.2	750.4	750.2	750.1	750.0	749.8
157.5°	763.0	762.3	762.7	763.2	763.7	764.1	764.4	764.5	764.6	764.7	764.8
160°	771.8	771.0	771.1	771.3	771.4	771.5	771.8	772.3	772.7	773.0	773.4
162.5°	779.1	778.3	778.4	778.5	778.7	778.8	779.1	779.7	780.2	780.6	781.1
165°	789.0	788.0	788.0	788.0	788.0	788.0	788.3	789.0	789.6	790.3	791.0
167.5°	796.4	795.2	795.3	795.4	795.5	795.6	795.9	796.6	797.4	798.0	798.7
170°	801.1	800.1	799.9	799.8	799.6	799.5	799.9	800.6	801.4	802.3	803.1
172.5°	804.0	803.0	802.8	802.7	802.6	802.4	802.7	803.6	804.4	805.2	806.0
175°	807.3	806.1	806.0	805.8	805.7	805.6	805.9	806.7	807.6	808.3	809.1
177.5°	809.0	808.1	808.0	807.7	807.6	807.3	807.6	808.3	809.1	809.8	810.6
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



TEST NUMBER: P333099-930

CATALOG NUMBER: S124RDIW-S1195D770U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1625.5	1630.2	1635.4	1645.4	1653.7	1657.3	1664.6	1669.8	1668.3	1675.5	1688.0
5°	1631.9	1649.5	1669.7	1690.5	1713.9	1733.5	1749.1	1764.7	1777.1	1792.0	1814.2
7.5°	1630.8	1662.2	1696.1	1733.5	1771.9	1805.1	1835.8	1867.0	1894.8	1925.1	1964.8
10°	1626.7	1668.3	1710.7	1759.5	1808.3	1854.6	1896.2	1935.3	1972.4	2012.1	2062.2
12.5°	1622.0	1669.9	1721.1	1779.8	1840.6	1896.2	1945.1	2001.4	2047.9	2099.1	2157.0
15°	1601.3	1665.7	1735.4	1811.6	1884.5	1959.3	2026.3	2095.4	2159.8	2221.0	2293.9
17.5°	1577.6	1652.0	1734.1	1824.1	1911.7	2002.7	2082.3	2169.2	2235.1	2317.2	2384.9
20°	1558.4	1638.4	1726.3	1827.2	1926.8	2027.6	2115.5	2204.1	2278.3	2360.9	2446.9
22.5°	1534.9	1622.8	1718.0	1822.5	1926.8	2037.0	2134.3	2222.3	2314.2	2407.3	2495.9
25°	1497.1	1588.3	1689.2	1803.8	1923.5	2036.1	2140.3	2249.7	2348.6	2449.5	2528.9
27.5°	1450.8	1546.5	1652.9	1771.1	1894.0	2009.3	2132.0	2248.5	2348.1	2445.2	2514.5
30°	1413.8	1514.7	1616.9	1736.8	1864.3	1987.9	2119.5	2236.0	2340.8	2428.0	2467.1
32.5°	1375.8	1471.5	1576.9	1698.2	1828.9	1961.9	2092.4	2211.5	2308.5	2360.9	2361.8
35°	1309.7	1399.5	1508.9	1628.0	1762.1	1906.6	2038.7	2155.9	2215.2	2219.7	2155.9
37.5°	1237.5	1320.0	1423.2	1542.5	1689.3	1833.0	1968.1	2046.2	2066.0	1999.7	1881.7
40°	1186.0	1262.2	1361.8	1484.2	1629.9	1778.4	1901.4	1958.7	1937.9	1830.4	1698.9
42.5°	1131.9	1202.8	1298.8	1419.6	1565.9	1715.9	1820.7	1851.4	1796.2	1672.2	1518.3
45°	1043.5	1108.6	1203.6	1325.4	1465.9	1606.5	1686.0	1670.3	1578.5	1431.4	1258.9
47.5°	951.5	1014.3	1099.8	1212.4	1356.4	1477.7	1531.5	1484.4	1353.8	1192.0	1051.7
50°	890.5	955.0	1033.7	1141.1	1272.6	1389.8	1424.2	1352.7	1207.5	1051.9	923.0
52.5°	830.6	885.7	962.9	1066.7	1192.4	1291.4	1309.7	1227.2	1077.3	937.8	823.5
55°	739.5	789.6	854.7	952.4	1061.0	1145.0	1135.2	1029.2	893.1	774.0	684.1
57.5°	651.3	689.1	749.3	840.7	936.2	992.5	956.9	866.4	739.6	642.1	566.3
60°	593.0	628.2	684.1	764.2	848.2	880.0	850.1	751.9	651.6	562.4	498.6
62.5°	537.8	568.8	616.9	691.3	759.1	778.0	746.0	660.1	569.8	493.7	440.8
65°	457.6	486.2	527.3	580.0	626.9	635.9	615.1	527.3	458.9	395.1	358.7
67.5°	384.8	403.6	435.6	481.2	506.1	511.4	471.2	416.0	355.7	316.5	289.0
70°	335.9	348.9	378.9	403.6	423.8	424.4	387.3	343.1	296.9	265.0	244.8
72.5°	288.5	301.0	323.7	340.6	356.0	351.0	317.0	282.1	244.8	220.7	205.7
75°	222.7	233.7	245.4	253.2	253.2	246.7	222.0	195.9	174.5	160.1	155.6
77.5°	161.8	171.0	174.9	173.7	171.3	161.2	145.5	128.5	120.8	114.1	110.6
80°	126.9	130.9	132.2	128.9	125.0	113.2	102.8	95.7	88.5	85.9	84.6
82.5°	94.1	97.5	94.1	95.1	86.4	76.8	71.1	68.6	65.6	64.6	63.3
85°	50.1	49.5	48.2	44.9	39.1	37.7	37.1	36.4	35.1	35.8	34.5
87.5°	17.9	16.6	14.8	14.6	14.8	14.0	14.8	14.9	15.2	14.8	16.0
90°	3.3	4.8	6.3	7.7	9.0	10.1	11.2	12.2	13.3	14.1	14.9
92.5°	7.7	7.8	7.8	7.9	8.6	9.6	10.7	11.7	12.8	13.6	14.4
95°	28.7	24.1	19.6	15.0	12.8	12.9	13.0	13.2	13.3	14.1	14.9
97.5°	73.5	76.4	79.2	82.1	76.0	61.0	46.0	31.0	16.0	16.1	16.1
100°	101.7	104.1	106.5	108.9	100.9	82.3	63.8	45.2	26.7	24.4	22.1
102.5°	133.0	134.8	136.6	138.3	137.9	135.6	133.1	130.7	128.3	103.6	79.0
105°	183.0	183.8	184.6	185.4	186.1	186.8	187.4	188.2	188.8	190.0	191.3
107.5°	229.9	230.3	230.7	231.1	231.8	232.7	233.6	234.5	235.4	236.0	236.6
110°	261.9	262.3	262.7	263.0	263.7	264.5	265.3	266.1	266.8	267.2	267.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	293.2	293.9	294.6	295.3	295.9	296.3	296.6	297.0	297.4	297.3	297.3
115°	340.6	341.0	341.3	341.7	341.9	341.7	341.6	341.4	341.3	341.6	341.9
117.5°	383.6	384.2	384.7	385.2	385.6	386.0	386.2	386.5	386.9	386.8	386.7
120°	412.7	413.2	413.8	414.3	414.5	414.3	414.3	414.1	413.9	414.3	414.5
122.5°	439.5	439.9	440.2	440.5	440.8	441.0	441.2	441.3	441.6	441.7	441.9
125°	478.7	479.2	479.7	480.2	480.4	480.1	479.9	479.6	479.3	479.7	480.1
127.5°	515.0	515.2	515.3	515.4	515.8	516.4	517.1	517.6	518.3	518.2	518.1
130°	538.7	538.9	539.0	539.2	539.4	539.8	540.2	540.6	541.0	541.2	541.3
132.5°	560.7	560.9	561.1	561.3	561.7	562.2	562.8	563.3	563.8	563.9	564.0
135°	593.0	592.8	592.6	592.6	592.7	593.3	593.8	594.4	594.9	595.2	595.4
137.5°	622.1	622.2	622.2	622.2	622.6	623.1	623.7	624.4	624.9	625.2	625.5
140°	641.2	641.4	641.7	642.0	642.2	642.5	642.8	643.0	643.4	643.7	644.1
142.5°	658.4	658.8	659.3	659.7	660.1	660.2	660.4	660.6	660.7	661.0	661.4
145°	684.3	684.7	685.1	685.5	685.7	685.7	685.7	685.7	685.7	685.8	685.9
147.5°	705.3	706.0	706.8	707.6	707.8	707.8	707.6	707.4	707.4	707.4	707.5
150°	720.1	720.6	721.2	721.7	721.9	721.8	721.6	721.5	721.4	721.4	721.4
152.5°	732.5	733.0	733.4	733.9	733.9	733.7	733.5	733.3	733.0	733.2	733.4
155°	750.0	750.1	750.2	750.4	750.2	749.8	749.4	749.0	748.6	749.2	749.7
157.5°	764.7	764.6	764.5	764.4	764.1	763.7	763.2	762.7	762.3	763.0	763.7
160°	773.0	772.7	772.3	771.8	771.5	771.4	771.3	771.1	771.0	771.8	772.7
162.5°	780.6	780.2	779.7	779.1	778.8	778.7	778.5	778.4	778.3	779.1	779.9
165°	790.3	789.6	789.0	788.3	788.0	788.0	788.0	788.0	788.0	789.0	790.1
167.5°	798.0	797.4	796.6	795.9	795.6	795.5	795.4	795.3	795.2	796.4	797.6
170°	802.3	801.4	800.6	799.9	799.5	799.6	799.8	799.9	800.1	801.1	802.2
172.5°	805.2	804.4	803.6	802.7	802.4	802.6	802.7	802.8	803.0	804.0	805.1
175°	808.3	807.6	806.7	805.9	805.6	805.7	805.8	806.0	806.1	807.3	808.5
177.5°	809.8	809.1	808.3	807.6	807.3	807.6	807.7	808.0	808.1	809.0	809.9
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1	809.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1694.8	1696.9	1698.4	1703.6	1704.1	1708.9	1704.1
5°	1835.0	1844.1	1858.5	1872.7	1874.0	1883.2	1866.9
7.5°	1992.3	2013.4	2026.5	2049.7	2058.8	2064.5	2055.1
10°	2100.6	2120.1	2154.6	2171.5	2188.5	2191.0	2183.3
12.5°	2205.3	2236.3	2263.4	2295.5	2294.7	2317.7	2309.3
15°	2344.7	2376.6	2414.3	2450.1	2463.2	2463.2	2473.6
17.5°	2444.2	2502.6	2541.7	2569.8	2600.5	2605.9	2602.2
20°	2511.4	2574.5	2616.1	2652.6	2673.4	2679.3	2679.3
22.5°	2561.3	2615.1	2655.8	2688.5	2705.7	2712.6	2710.5
25°	2596.0	2642.1	2666.9	2676.7	2681.2	2680.0	2667.6
27.5°	2548.5	2546.5	2530.9	2500.9	2478.4	2464.7	2449.1
30°	2458.0	2424.1	2385.1	2342.1	2286.8	2244.4	2231.4
32.5°	2323.1	2247.0	2180.9	2109.3	2049.8	2007.5	1989.8
35°	2062.2	1941.8	1843.5	1757.5	1695.1	1656.0	1643.0
37.5°	1752.6	1636.1	1514.3	1431.0	1379.2	1339.8	1325.0
40°	1555.8	1428.8	1322.7	1244.6	1191.2	1152.8	1152.2
42.5°	1376.1	1254.9	1155.0	1098.8	1041.2	1015.9	1015.7
45°	1126.7	1029.8	945.2	900.9	866.4	845.5	839.7
47.5°	932.9	852.7	796.4	761.1	733.0	719.7	711.1
50°	824.1	753.8	708.9	678.2	662.7	645.7	644.4
52.5°	733.4	676.7	641.7	616.9	597.0	586.9	587.2
55°	616.4	571.5	546.8	527.9	512.3	504.5	501.2
57.5°	519.3	485.6	467.7	450.3	443.7	437.6	435.9
60°	458.9	436.1	419.2	405.5	395.7	393.8	393.1
62.5°	409.0	385.1	373.4	362.8	355.7	352.7	351.5
65°	337.2	319.6	309.2	300.8	298.2	293.6	292.9
67.5°	271.8	261.3	254.4	248.5	245.0	244.8	244.8
70°	231.7	225.8	220.0	216.8	214.8	213.5	213.5
72.5°	197.4	193.1	188.3	186.5	186.1	184.8	184.3
75°	150.3	145.8	146.4	143.2	140.6	137.4	135.4
77.5°	106.6	103.4	102.7	102.3	100.1	99.7	100.8
80°	82.7	79.4	78.8	79.4	78.8	76.8	76.8
82.5°	62.9	60.2	59.5	59.1	58.5	59.1	58.0
85°	33.8	32.5	32.5	32.5	33.8	33.2	32.5
87.5°	15.2	14.8	15.4	14.9	15.0	14.5	15.1
90°	15.7	16.6	17.0	17.4	17.6	17.9	18.2
92.5°	15.2	16.1	16.5	16.6	16.6	16.6	16.7
95°	15.7	16.6	17.0	17.1	17.3	17.4	17.5
97.5°	16.2	16.3	16.4	16.6	16.7	16.8	17.0
100°	19.7	17.4	16.4	16.6	16.7	16.8	17.0
102.5°	54.3	29.7	17.3	17.4	17.4	17.4	17.4
105°	192.4	193.6	191.8	187.0	182.1	177.3	172.5
107.5°	237.2	237.8	238.3	238.9	239.4	239.9	240.4
110°	267.7	268.0	268.3	268.7	269.1	269.5	269.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	297.3	297.2	297.4	297.9	298.4	299.0	299.5
115°	342.1	342.4	342.5	342.5	342.5	342.5	342.5
117.5°	386.7	386.6	386.5	386.5	386.5	386.4	386.4
120°	414.7	415.0	415.0	414.7	414.5	414.3	413.9
122.5°	442.1	442.2	442.1	441.9	441.6	441.3	441.1
125°	480.5	480.9	481.2	481.4	481.4	481.6	481.8
127.5°	518.0	518.0	517.9	517.8	517.6	517.6	517.5
130°	541.4	541.6	541.6	541.6	541.6	541.6	541.6
132.5°	564.2	564.4	564.4	564.3	564.1	564.0	563.9
135°	595.7	596.0	596.2	596.5	596.8	597.0	597.3
137.5°	625.8	626.1	626.2	626.1	626.1	626.0	625.9
140°	644.5	644.9	645.2	645.3	645.5	645.6	645.7
142.5°	661.6	661.9	662.1	662.1	662.1	662.2	662.2
145°	686.1	686.2	686.4	686.6	687.0	687.2	687.5
147.5°	707.7	707.8	707.9	708.0	708.2	708.3	708.4
150°	721.4	721.4	721.5	721.6	721.7	721.9	721.9
152.5°	733.6	733.9	733.9	733.9	733.8	733.7	733.6
155°	750.2	750.7	750.8	750.4	750.0	749.6	749.3
157.5°	764.4	765.1	765.1	764.4	763.7	763.0	762.3
160°	773.4	774.2	774.2	773.4	772.7	771.8	771.0
162.5°	780.6	781.5	781.5	780.6	779.6	778.7	777.8
165°	791.2	792.2	792.2	791.0	789.8	788.6	787.3
167.5°	798.7	800.0	799.9	798.5	797.2	795.8	794.5
170°	803.3	804.4	804.2	802.9	801.5	800.2	798.8
172.5°	806.2	807.2	807.1	805.6	804.2	802.7	801.3
175°	809.8	811.0	810.7	809.1	807.6	805.9	804.3
177.5°	810.7	811.6	811.4	810.1	808.8	807.6	806.2
180°	809.1	809.1	809.1	809.1	809.1	809.1	809.1

(END OF REPORT)