

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: P333096-935

Luminaire Tested: **S124RDIW-S1195D470U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333096-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1195D470U935-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

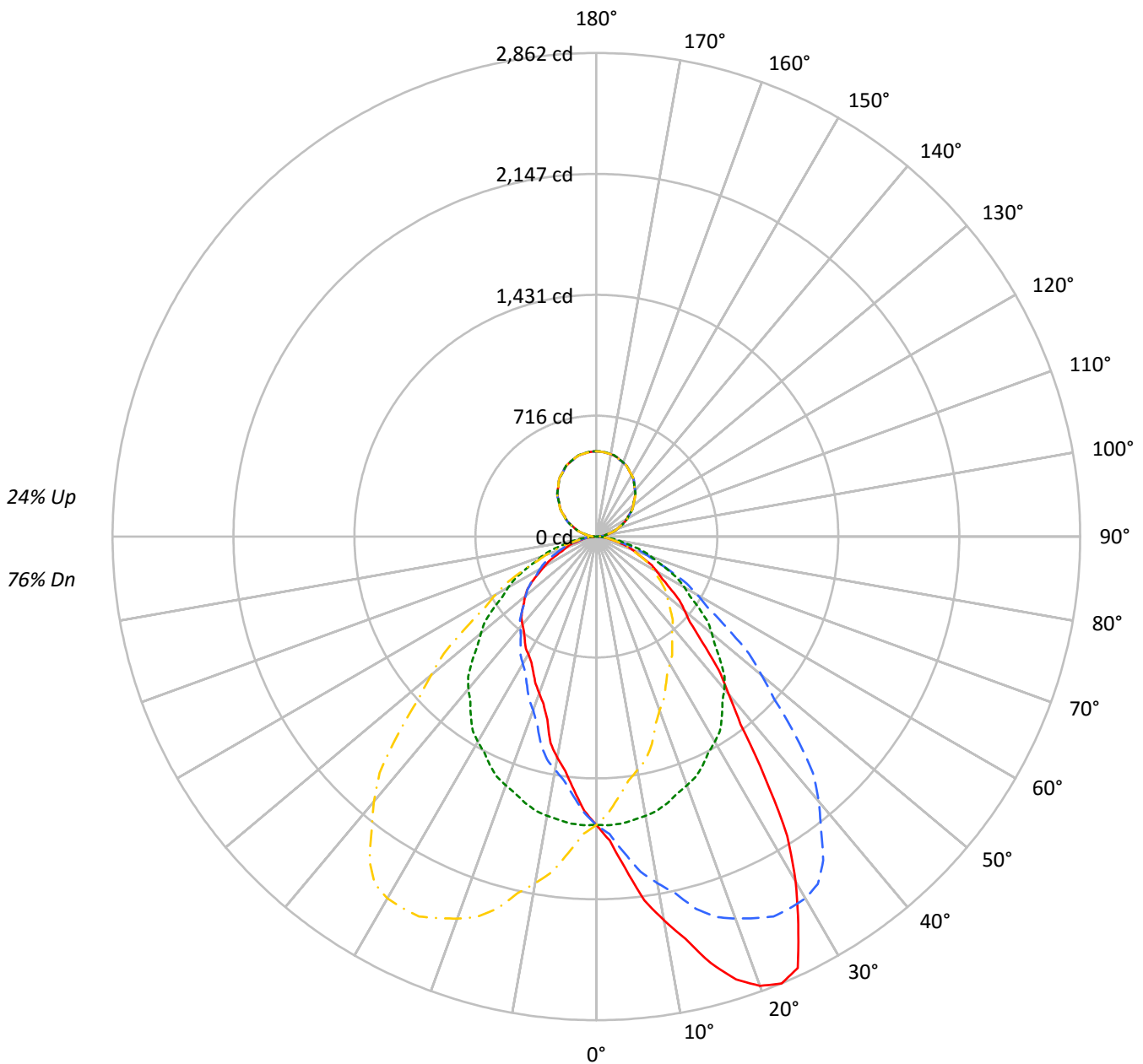
Lumens per Lamp: N/A  
Luminaire Lumens: 5714.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (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



— 0°-180°    - - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	104	100	96	93	99	95	92	89	87	84	82	79	77	75	71	70	69	65
2	95	88	82	77	91	84	79	74	77	73	69	70	67	64	64	61	59	56
3	88	78	71	65	83	75	68	63	68	63	59	63	58	55	57	54	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	48	44	42
5	74	63	54	48	70	60	53	47	55	49	44	51	46	42	47	42	39	36
6	69	56	48	42	65	54	47	41	50	44	39	46	41	37	42	38	35	32
7	64	51	43	38	61	49	42	37	46	39	35	42	37	33	39	34	31	29
8	59	47	39	34	56	45	38	33	42	36	31	39	33	30	36	31	28	26
9	55	43	35	30	53	41	34	30	39	32	28	36	31	27	33	29	25	23
10	52	40	32	27	50	38	31	27	36	30	26	33	28	24	31	26	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	2.9
10°-20°	498.7	8.7
20°-30°	780.0	13.7
30°-40°	867.1	15.2
40°-50°	769.3	13.5
50°-60°	599.5	10.5
60°-70°	392.5	6.9
70°-80°	193.0	3.4
80°-90°	49.1	0.9
90°-100°	33.3	0.6
100°-110°	98.6	1.7
110°-120°	167.3	2.9
120°-130°	220.6	3.9
130°-140°	247.7	4.3
140°-150°	243.4	4.3
150°-160°	204.8	3.6
160°-170°	136.2	2.4
170°-180°	47.7	0.8
0°-30°	1444.0	25.3
0°-40°	2311.0	40.4
0°-60°	3679.8	64.4
0°-90°	4314.4	75.5
90°-120°	299.1	5.2
90°-150°	1010.9	17.7
90°-180°	1400.0	24.5
0°-180°	5714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	12	1	12	1	12	8
95°	31	23	31	23	31	32
105°	95	91	95	91	95	100
115°	169	170	169	170	169	167
125°	246	248	246	248	246	219
135°	320	320	320	320	320	247
145°	389	388	389	388	389	243
155°	444	445	444	445	444	205
165°	483	484	483	484	483	136
175°	501	504	501	504	501	48
180°	504	504	504	504	504	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	14.5	13.9	14.4	14.4	14.8	14.2	14.6	15.7	14.5	14.9	14.8
90°	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6	9.1	8.6	7.9
92.5°	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1	15.8	15.4	15.0
95°	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1	29.9	29.6	29.0
97.5°	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5	47.2	46.9	46.1
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0	59.8	59.7	58.9
102.5°	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3	73.0	72.8	72.1
105°	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4	93.1	92.8	92.5
107.5°	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1	114.9	114.6	114.6
110°	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6	129.8	129.9	130.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5
117.5°	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3	192.5	192.8	193.0
120°	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8	208.3	208.7	209.0
122.5°	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8	224.0	224.4	224.5
125°	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0	247.2	247.4	247.5
127.5°	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2	269.4	269.6	269.8
130°	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8	285.0	285.2	285.2
132.5°	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5	299.7	299.9	300.0
135°	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5	321.7	321.8	321.8
137.5°	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8	343.0	343.3	343.1
140°	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8	356.9	357.0	357.0
142.5°	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1	370.1	370.1	370.1
145°	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0
147.5°	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0	408.1	408.2	408.3
150°	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2	429.9	429.7	429.6
155°	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1	444.7	444.4	444.4
157.5°	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2	458.0	457.7	457.7
160°	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4	466.1	465.9	466.0
162.5°	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6	473.2	472.7	472.8
165°	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3	482.8	482.2	482.4
167.5°	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4	490.9	490.3	490.3
170°	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8	495.2	494.7	494.6
172.5°	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0	498.4	497.8	497.8
175°	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6	502.0	501.4	501.4
177.5°	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5	504.0	503.5	503.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	14.6	13.9	14.9	14.7	15.1	17.1	18.6	18.9	17.5	16.0	14.6
90°	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2	2.2	3.1	4.0
92.5°	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4	9.5	10.5	11.6
95°	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4	24.2	25.0	25.7
97.5°	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9	41.5	42.1	42.8
100°	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6	54.9	55.3	55.6
102.5°	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0	69.1	69.2	69.4
105°	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9	91.0	91.1	91.2
107.5°	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9	114.0	114.2	114.3
110°	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5	129.7	129.8	130.0





TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8	145.8	145.9	145.9
115°	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
117.5°	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0	193.1	193.2	193.3
120°	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4	208.7	209.1	209.4
122.5°	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3	224.4	224.5	224.6
125°	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1	269.3	269.6	269.8
130°	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0	284.3	284.6	284.8
132.5°	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3	299.5	299.7	299.9
135°	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5	320.0	320.6	321.1
137.5°	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6	341.8	342.0	342.2
140°	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2	356.4	356.5	356.7
142.5°	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6	369.8	370.0	370.1
145°	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2	388.6	388.9	389.3
147.5°	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7	407.0	407.4	407.9
150°	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8	418.2	418.5	418.9
152.5°	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4	428.7	428.9	429.1
155°	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8
157.5°	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5	458.3	458.2	458.1
160°	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7	466.6	466.5	466.4
162.5°	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2	473.9	473.6	473.5
165°	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1	483.9	483.6	483.4
167.5°	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9	491.5	491.2	490.9
170°	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3	495.8	495.4	495.0
172.5°	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4	499.0	498.7	498.3
175°	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7	503.3	502.8	502.4
177.5°	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1	504.7	504.4	504.0
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	14.7	14.4	14.5	13.5	14.2	14.4	13.9	14.0	14.6	13.7	13.8
90°	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6	10.2	10.7	11.0
92.5°	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.4	16.7	16.9
95°	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1	30.4	30.7	30.8
97.5°	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5	47.9	48.1	48.3
100°	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0	60.2	60.4	60.4
102.5°	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3	73.5	73.8	74.0
105°	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4	93.7	93.9	94.2
107.5°	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1	115.4	115.6	115.7
110°	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6	129.4	129.2	129.2



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2	145.1	145.1	145.1
115°	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2	169.1	169.0	168.9
117.5°	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3	191.9	191.7	191.4
120°	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8	207.4	207.0	206.9
122.5°	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8	223.4	223.2	222.8
125°	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0	246.8	246.7	246.5
127.5°	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2	269.1	268.9	268.7
130°	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8	284.6	284.5	284.2
132.5°	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5	299.4	299.2	299.0
135°	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5	321.3	321.2	321.0
137.5°	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8	342.6	342.3	342.2
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8	356.7	356.6	356.5
142.5°	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1	370.1	370.1	370.0
145°	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9	389.9	389.8	389.6
147.5°	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0	407.9	407.9	407.9
150°	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2	430.3	430.6	430.5
155°	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1	445.4	445.7	445.7
157.5°	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2	458.5	458.7	458.7
160°	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4	466.7	466.9	466.8
162.5°	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6	474.2	474.6	474.6
165°	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3	483.8	484.3	484.4
167.5°	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4	491.9	492.4	492.4
170°	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8	496.3	496.8	496.7
172.5°	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0	499.6	500.2	500.2
175°	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6	503.2	503.8	503.8
177.5°	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5	505.0	505.5	505.4
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	14.9	14.4	13.9	14.5	13.9	14.4	14.9	13.8	13.7	14.6	14.0
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6
92.5°	17.0	17.1	17.2	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1
95°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1
97.5°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0
102.5°	74.0	74.0	74.1	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3
105°	94.5	94.7	95.0	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4
107.5°	115.7	115.7	115.6	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1
110°	129.5	129.8	130.0	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	145.2	145.2	145.3	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2
115°	168.8	168.8	168.7	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2
117.5°	191.2	191.1	190.9	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3
120°	207.1	207.2	207.4	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8
122.5°	222.6	222.2	221.9	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8
125°	246.3	246.2	246.0	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0
127.5°	268.6	268.5	268.4	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2
130°	283.9	283.5	283.2	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8
132.5°	298.9	298.8	298.6	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5
135°	320.7	320.5	320.2	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5
137.5°	342.3	342.3	342.4	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8
140°	356.5	356.4	356.3	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8
142.5°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1
145°	389.3	389.1	388.8	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9
147.5°	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0
150°	419.3	419.2	419.1	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4
152.5°	430.3	430.1	429.9	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2
155°	445.4	445.1	444.7	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1
157.5°	458.5	458.1	457.9	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2
160°	466.4	466.0	465.5	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4
162.5°	474.2	473.7	473.3	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6
165°	484.1	483.7	483.4	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3
167.5°	491.9	491.4	490.8	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4
170°	496.1	495.5	494.9	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8
172.5°	499.6	498.9	498.3	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0
175°	503.2	502.6	502.0	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6
177.5°	504.9	504.4	503.8	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	13.9	14.4	14.2	13.5	14.5	14.4	14.7	14.6	16.0	17.5	18.9
90°	9.1	8.6	7.9	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2
92.5°	15.8	15.4	15.0	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4
95°	29.9	29.6	29.0	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4
97.5°	47.2	46.9	46.1	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9
100°	59.8	59.7	58.9	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6
102.5°	73.0	72.8	72.1	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0
105°	93.1	92.8	92.5	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9
107.5°	114.9	114.6	114.6	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9
110°	129.8	129.9	130.0	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	145.3	145.3	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8
115°	169.3	169.4	169.5	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1
117.5°	192.5	192.8	193.0	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0
120°	208.3	208.7	209.0	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4
122.5°	224.0	224.4	224.5	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3
125°	247.2	247.4	247.5	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.4	269.6	269.8	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1
130°	285.0	285.2	285.2	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0
132.5°	299.7	299.9	300.0	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3
135°	321.7	321.8	321.8	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5
137.5°	343.0	343.3	343.1	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2
142.5°	370.1	370.1	370.1	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6
145°	390.0	390.1	390.0	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2
147.5°	408.1	408.2	408.3	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7
150°	419.4	419.4	419.4	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8
152.5°	429.9	429.7	429.6	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4
155°	444.7	444.4	444.4	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8
157.5°	458.0	457.7	457.7	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5
160°	466.1	465.9	466.0	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7
162.5°	473.2	472.7	472.8	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2
165°	482.8	482.2	482.4	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1
167.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9
170°	495.2	494.7	494.6	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3
172.5°	498.4	497.8	497.8	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4
175°	502.0	501.4	501.4	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7
177.5°	504.0	503.5	503.5	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333096-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.6	17.1	15.1	14.7	14.9	13.9	14.6	14.8	14.9	14.5	15.7
90°	2.2	3.1	4.0	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6
92.5°	9.5	10.5	11.6	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1
95°	24.2	25.0	25.7	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1
97.5°	41.5	42.1	42.8	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5
100°	54.9	55.3	55.6	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0
102.5°	69.1	69.2	69.4	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3
105°	91.0	91.1	91.2	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4
107.5°	114.0	114.2	114.3	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1
110°	129.7	129.8	130.0	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	145.8	145.9	145.9	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2
115°	170.1	170.1	170.1	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2
117.5°	193.1	193.2	193.3	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3
120°	208.7	209.1	209.4	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8
122.5°	224.4	224.5	224.6	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8
125°	247.7	247.7	247.7	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0
127.5°	269.3	269.6	269.8	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2
130°	284.3	284.6	284.8	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8
132.5°	299.5	299.7	299.9	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5
135°	320.0	320.6	321.1	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5
137.5°	341.8	342.0	342.2	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8
140°	356.4	356.5	356.7	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8
142.5°	369.8	370.0	370.1	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1
145°	388.6	388.9	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9
147.5°	407.0	407.4	407.9	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0
150°	418.2	418.5	418.9	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	428.7	428.9	429.1	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2
155°	444.8	444.8	444.8	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1
157.5°	458.3	458.2	458.1	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2
160°	466.6	466.5	466.4	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4
162.5°	473.9	473.6	473.5	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6
165°	483.9	483.6	483.4	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3
167.5°	491.5	491.2	490.9	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4
170°	495.8	495.4	495.0	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8
172.5°	499.0	498.7	498.3	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0
175°	503.3	502.8	502.4	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6
177.5°	504.7	504.4	504.0	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	14.6	14.2	14.8	14.4	14.4	13.9	14.5
90°	10.2	10.7	11.0	11.2	11.4	11.5	11.7
92.5°	16.4	16.7	16.9	17.0	17.1	17.2	17.3
95°	30.4	30.7	30.8	30.8	30.8	30.8	30.8
97.5°	47.9	48.1	48.3	48.3	48.3	48.3	48.3
100°	60.2	60.4	60.4	60.4	60.4	60.4	60.4
102.5°	73.5	73.8	74.0	74.0	74.0	74.1	74.2
105°	93.7	93.9	94.2	94.5	94.7	95.0	95.2
107.5°	115.4	115.6	115.7	115.7	115.7	115.6	115.6
110°	129.4	129.2	129.2	129.5	129.8	130.0	130.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	169.1	169.0	168.9	168.8	168.8	168.7	168.6
117.5°	191.9	191.7	191.4	191.2	191.1	190.9	190.7
120°	207.4	207.0	206.9	207.1	207.2	207.4	207.6
122.5°	223.4	223.2	222.8	222.6	222.2	221.9	221.6
125°	246.8	246.7	246.5	246.3	246.2	246.0	245.8
127.5°	269.1	268.9	268.7	268.6	268.5	268.4	268.2
130°	284.6	284.5	284.2	283.9	283.5	283.2	282.8
132.5°	299.4	299.2	299.0	298.9	298.8	298.6	298.5
135°	321.3	321.2	321.0	320.7	320.5	320.2	319.9
137.5°	342.6	342.3	342.2	342.3	342.3	342.4	342.5
140°	356.7	356.6	356.5	356.5	356.4	356.3	356.2
142.5°	370.1	370.1	370.0	370.0	370.0	370.0	370.0
145°	389.9	389.8	389.6	389.3	389.1	388.8	388.6
147.5°	407.9	407.9	407.9	407.8	407.7	407.6	407.5
150°	419.4	419.4	419.4	419.3	419.2	419.1	419.0
152.5°	430.3	430.6	430.5	430.3	430.1	429.9	429.6
155°	445.4	445.7	445.7	445.4	445.1	444.7	444.4
157.5°	458.5	458.7	458.7	458.5	458.1	457.9	457.5
160°	466.7	466.9	466.8	466.4	466.0	465.5	465.0
162.5°	474.2	474.6	474.6	474.2	473.7	473.3	472.9
165°	483.8	484.3	484.4	484.1	483.7	483.4	483.0
167.5°	491.9	492.4	492.4	491.9	491.4	490.8	490.3
170°	496.3	496.8	496.7	496.1	495.5	494.9	494.3
172.5°	499.6	500.2	500.2	499.6	498.9	498.3	497.7
175°	503.2	503.8	503.8	503.2	502.6	502.0	501.4
177.5°	505.0	505.5	505.4	504.9	504.4	503.8	503.3
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5

(END OF REPORT)