

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: P333431-935

Luminaire Tested: **S125DIW-S1090D470U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333431-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S1090D470U935-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

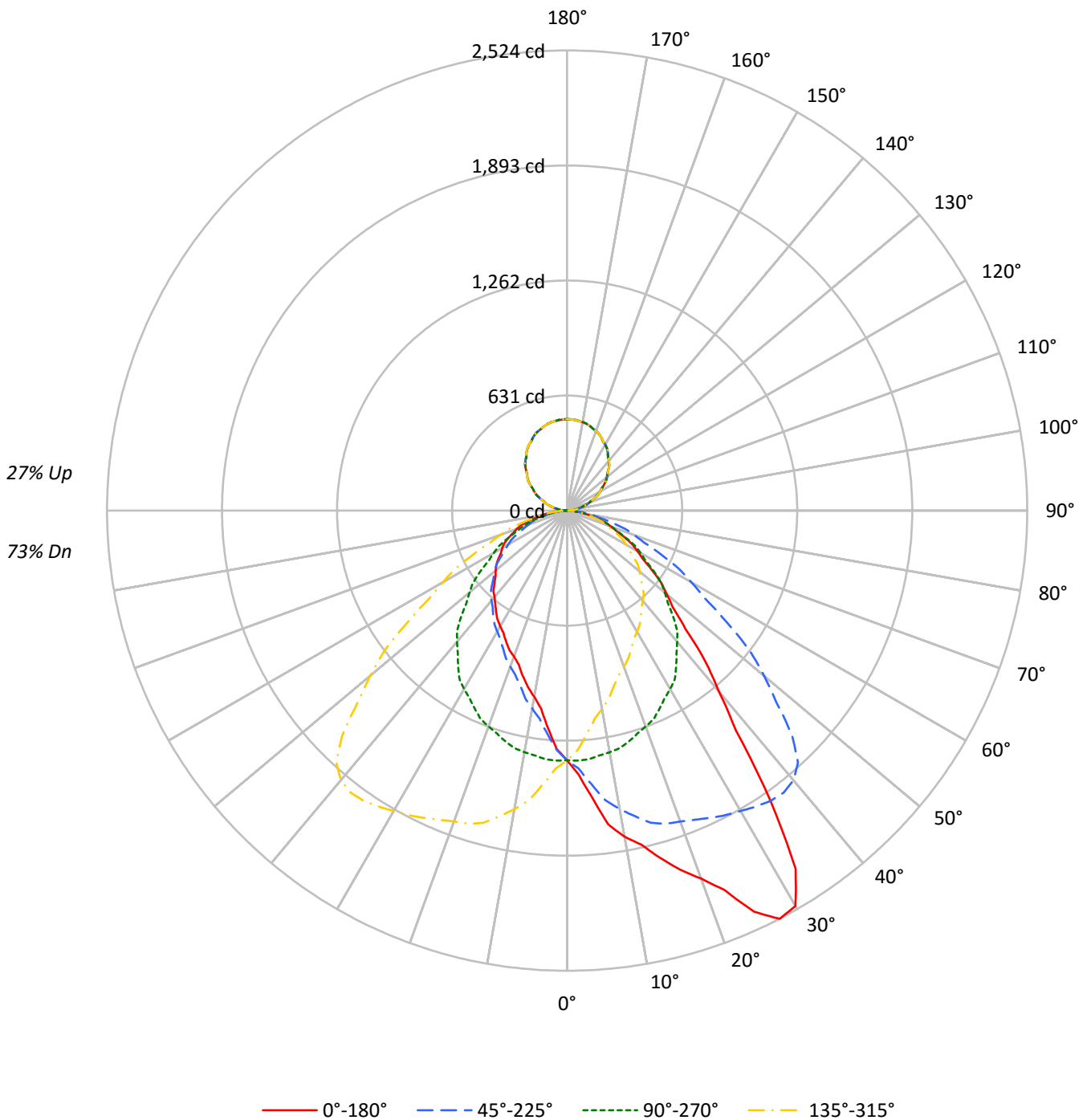
Lumens per Lamp: N/A  
Luminaire Lumens: 5263.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (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	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	73
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	94	87	81	75	89	83	77	72	75	71	67	68	64	61	61	59	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	55	51	48	45
4	79	68	60	54	75	65	58	52	59	53	48	54	49	45	49	45	42	39
5	73	61	53	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	67	55	46	40	64	52	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	19

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

	0°	90°	180°	270°
0°	8843	8843	8843	8843
5°	10240	8873	7769	8873
10°	11913	8826	6807	8826
15°	13188	8762	6279	8762
20°	14762	8659	5856	8659
25°	17293	8543	5648	8543
30°	18678	8429	5469	8429
35°	15358	8215	5351	8215
40°	10916	7917	5223	7917
45°	8386	7516	5149	7516
50°	7159	7018	5138	7018
55°	6373	6531	5183	6531
60°	5749	5997	5315	5997
65°	5310	5462	5453	5462
70°	4828	4906	5531	4906
75°	4262	4319	5480	4319
80°	3585	3522	5013	3522
85°	2838	2542	4046	2542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	2.5
10°-20°	392.4	7.5
20°-30°	637.2	12.1
30°-40°	777.3	14.8
40°-50°	707.1	13.4
50°-60°	563.2	10.7
60°-70°	392.3	7.5
70°-80°	209.2	4.0
80°-90°	53.9	1.0
90°-100°	33.6	0.6
100°-110°	99.2	1.9
110°-120°	168.0	3.2
120°-130°	221.1	4.2
130°-140°	247.7	4.7
140°-150°	242.8	4.6
150°-160°	203.9	3.9
160°-170°	135.6	2.6
170°-180°	47.4	0.9
0°-30°	1161.5	22.1
0°-40°	1938.8	36.8
0°-60°	3209.2	61.0
0°-90°	3864.6	73.4
90°-120°	300.8	5.7
90°-150°	1012.4	19.2
90°-180°	1399.0	26.6
0°-180°	5263.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1580	1369	1198	1369	1580	159
15°	1972	1310	939	1310	1972	565
25°	2427	1199	793	1199	2427	1108
35°	1948	1042	679	1042	1948	1192
45°	918	823	564	823	918	735
55°	566	580	460	580	566	510
65°	348	357	357	357	348	345
75°	171	173	220	173	171	184
85°	38	34	55	34	38	44
90°	9	0	9	0	9	7
95°	34	25	34	25	34	34
105°	97	89	97	89	97	103
115°	170	168	170	168	170	168
125°	247	246	247	246	247	221
135°	320	319	320	319	320	247
145°	388	387	388	387	388	242
155°	443	443	443	443	443	204
165°	480	481	480	481	480	135
175°	498	500	498	500	498	47
180°	501	501	501	501	501	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1448.2	1446.3	1444.5	1440.7	1443.6	1435.6	1431.9	1425.4	1417.5	1414.7	1411.4
5°	1579.5	1582.4	1585.4	1573.1	1574.3	1566.2	1547.6	1532.4	1520.3	1504.5	1493.5
7.5°	1737.6	1730.7	1730.2	1722.3	1708.7	1697.7	1678.2	1653.3	1629.3	1601.8	1579.2
10°	1816.6	1817.2	1812.0	1802.7	1788.1	1777.7	1752.1	1727.7	1698.1	1663.2	1638.2
12.5°	1876.1	1878.5	1872.0	1859.4	1852.3	1828.9	1808.9	1779.8	1744.6	1716.7	1678.7
15°	1972.4	1966.0	1961.4	1945.6	1933.5	1909.0	1877.1	1846.8	1808.4	1773.1	1737.6
17.5°	2065.1	2070.2	2061.5	2047.2	2009.3	1980.8	1937.9	1896.6	1848.8	1801.3	1758.9
20°	2147.9	2152.5	2139.2	2114.2	2068.8	2040.4	1984.0	1930.5	1875.3	1814.3	1767.8
22.5°	2251.1	2247.4	2229.3	2191.3	2152.1	2099.4	2038.4	1973.3	1904.1	1835.2	1773.4
25°	2426.8	2402.4	2391.3	2344.3	2292.6	2215.3	2131.6	2036.3	1950.3	1859.1	1780.0
27.5°	2524.2	2516.5	2504.2	2471.4	2417.1	2334.4	2235.8	2119.6	1998.3	1883.1	1779.7
30°	2504.6	2505.9	2507.0	2496.6	2461.7	2399.5	2301.3	2176.3	2032.2	1902.6	1782.9
32.5°	2331.8	2352.9	2373.1	2397.0	2406.8	2394.9	2333.4	2220.5	2072.2	1924.9	1781.1
35°	1947.9	1954.4	2020.0	2085.1	2173.4	2242.0	2287.9	2237.9	2113.0	1943.9	1778.8
37.5°	1518.9	1550.2	1595.7	1669.2	1796.7	1910.9	2057.7	2125.2	2084.9	1950.1	1774.8
40°	1294.8	1323.8	1353.5	1428.4	1535.9	1674.2	1841.0	1983.4	2016.5	1930.5	1760.8
42.5°	1121.8	1144.9	1177.8	1234.1	1324.0	1446.5	1605.8	1791.8	1906.3	1873.8	1731.6
45°	918.2	932.7	958.3	1003.1	1068.2	1164.0	1304.7	1508.0	1685.3	1744.0	1662.1
47.5°	785.9	785.8	805.7	836.6	883.6	965.0	1069.0	1228.4	1417.7	1557.8	1551.3
50°	712.5	709.6	725.2	752.0	789.2	843.3	942.6	1069.9	1251.7	1410.4	1454.6
52.5°	649.3	649.6	659.3	679.0	710.2	756.3	830.5	945.3	1100.7	1263.5	1346.7
55°	566.0	563.7	574.7	588.1	610.8	641.0	694.5	782.2	908.3	1068.7	1176.8
57.5°	489.7	496.2	500.6	509.9	528.7	549.0	594.0	658.4	758.5	896.1	1010.4
60°	445.1	451.5	455.0	464.3	479.4	496.9	531.8	584.0	668.3	786.9	900.2
62.5°	405.2	410.2	411.3	419.7	432.0	449.0	476.4	520.4	586.9	690.6	801.6
65°	347.5	347.5	349.8	358.5	364.4	379.4	400.4	432.4	485.9	566.6	661.3
67.5°	292.0	294.7	294.2	298.0	303.3	315.1	330.1	356.5	396.1	455.0	530.8
70°	255.7	258.0	257.4	260.4	266.1	273.7	285.9	310.9	339.4	389.9	455.0
72.5°	223.2	224.1	222.6	226.4	229.9	236.5	250.1	263.5	290.1	332.8	386.2
75°	170.8	172.0	173.1	175.5	179.0	182.4	189.4	202.9	220.2	252.2	286.5
77.5°	128.1	125.9	128.6	128.3	130.3	132.9	139.1	146.2	160.5	180.7	207.2
80°	96.4	97.0	97.0	97.6	100.6	102.3	107.5	112.7	123.8	138.9	157.5
82.5°	70.4	72.0	71.0	72.1	74.5	75.8	78.7	83.0	89.4	101.3	114.7
85°	38.3	35.5	36.6	37.8	37.8	38.3	40.6	42.4	45.9	50.5	55.8
87.5°	13.0	13.9	14.3	14.3	14.7	14.6	16.4	16.3	17.6	18.9	20.7
90°	9.4	9.1	8.9	8.6	8.4	8.0	7.6	7.1	6.7	6.3	5.6
92.5°	18.4	18.3	18.0	17.8	17.7	17.3	16.7	16.1	15.6	15.0	14.2
95°	33.6	33.4	33.2	33.1	32.9	32.5	31.9	31.3	30.7	30.0	29.2
97.5°	50.9	50.8	50.7	50.5	50.5	50.1	49.6	49.0	48.4	47.9	46.7
100°	64.0	63.8	63.6	63.5	63.3	62.9	62.1	61.3	60.5	59.7	58.5
102.5°	77.1	76.9	76.6	76.4	76.1	75.6	74.7	73.9	73.0	72.2	71.6
105°	96.8	96.5	96.3	96.0	95.7	95.3	94.8	94.3	93.8	93.2	92.7
107.5°	116.9	116.9	116.9	117.0	117.0	116.8	116.6	116.3	116.1	115.8	115.5
110°	131.9	132.0	132.1	132.2	132.2	132.2	131.9	131.6	131.4	131.1	130.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.5	146.7	146.9	147.1	147.2	147.2	147.1	147.0	146.9	146.7	146.4
115°	169.8	169.9	170.0	170.0	170.1	170.2	170.3	170.4	170.5	170.6	170.4
117.5°	192.3	192.7	193.1	193.5	193.8	193.9	193.8	193.8	193.7	193.6	193.5
120°	208.0	208.4	208.7	209.1	209.4	209.6	209.6	209.6	209.6	209.6	209.5
122.5°	223.6	223.9	224.2	224.5	224.7	224.9	225.0	225.1	225.1	225.2	225.0
125°	247.0	247.1	247.2	247.3	247.4	247.5	247.7	247.9	248.1	248.2	248.1
127.5°	269.5	269.7	269.8	270.0	270.2	270.4	270.4	270.5	270.6	270.7	270.5
130°	284.5	284.6	284.8	285.0	285.2	285.3	285.4	285.5	285.6	285.7	285.5
132.5°	298.5	298.8	299.0	299.3	299.5	299.6	299.7	299.8	299.9	300.0	300.1
135°	320.4	320.7	321.1	321.4	321.8	321.9	321.9	321.9	321.9	321.9	321.8
137.5°	341.7	342.2	342.7	343.1	343.5	343.7	343.5	343.5	343.4	343.3	343.0
140°	355.5	355.9	356.4	356.8	357.2	357.4	357.2	357.1	356.9	356.7	356.5
142.5°	368.6	369.0	369.5	369.9	370.3	370.5	370.4	370.3	370.2	370.1	369.8
145°	388.3	388.6	388.8	389.1	389.3	389.4	389.4	389.4	389.4	389.4	389.2
147.5°	405.1	405.6	406.2	406.8	407.4	407.6	407.4	407.2	407.0	406.8	406.6
150°	417.6	417.8	417.9	418.1	418.3	418.4	418.4	418.4	418.4	418.4	418.0
152.5°	427.8	428.2	428.5	428.8	429.1	429.1	429.0	428.8	428.5	428.3	428.2
155°	442.6	443.0	443.4	443.8	444.3	444.3	443.9	443.6	443.2	442.9	442.8
157.5°	454.8	455.4	455.9	456.5	457.1	457.2	456.8	456.5	456.2	455.8	455.7
160°	463.2	463.6	464.1	464.5	464.9	465.0	464.7	464.3	464.0	463.6	463.5
162.5°	470.4	470.9	471.4	471.9	472.4	472.4	472.0	471.7	471.2	470.8	470.8
165°	480.0	480.5	481.0	481.6	482.1	482.2	481.8	481.5	481.1	480.8	480.7
167.5°	487.7	488.2	488.7	489.2	489.8	489.8	489.3	488.8	488.3	487.8	487.8
170°	491.7	492.3	492.9	493.5	494.1	494.2	493.6	493.1	492.6	492.1	492.1
172.5°	495.2	495.7	496.2	496.7	497.3	497.3	496.8	496.3	495.8	495.2	495.2
175°	498.3	498.9	499.6	500.2	500.8	500.8	500.3	499.7	499.2	498.7	498.7
177.5°	500.2	500.7	501.2	501.7	502.1	502.2	501.8	501.4	500.9	500.5	500.6
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1408.7	1405.4	1401.7	1395.2	1387.2	1383.1	1376.6	1372.4	1364.0	1357.0	1349.6
5°	1480.1	1465.1	1451.1	1433.0	1413.3	1400.5	1385.4	1368.6	1351.2	1333.1	1313.4
7.5°	1554.2	1527.4	1498.4	1467.1	1436.6	1408.4	1381.6	1355.2	1330.6	1300.8	1275.6
10°	1604.0	1570.2	1534.2	1491.8	1450.5	1414.5	1377.9	1345.9	1313.4	1278.5	1247.7
12.5°	1653.6	1608.8	1557.9	1511.3	1461.6	1418.2	1375.1	1334.3	1293.4	1254.8	1218.8
15°	1688.8	1649.2	1602.1	1535.9	1480.1	1420.3	1363.3	1310.4	1261.0	1218.1	1172.8
17.5°	1711.9	1661.0	1610.4	1546.9	1473.8	1406.8	1342.3	1281.8	1226.1	1171.6	1127.8
20°	1716.1	1663.8	1610.9	1548.7	1473.8	1397.1	1332.6	1259.9	1200.1	1143.7	1090.2
22.5°	1714.7	1655.4	1597.8	1533.9	1460.8	1390.1	1312.1	1238.0	1173.1	1117.7	1061.9
25°	1701.6	1638.2	1566.2	1501.7	1429.6	1354.6	1275.6	1198.9	1132.6	1069.3	1014.1
27.5°	1690.7	1608.4	1526.9	1451.6	1382.1	1313.4	1237.7	1159.2	1085.6	1021.5	969.5
30°	1677.1	1587.1	1495.2	1416.8	1345.3	1278.5	1207.0	1130.3	1053.6	990.8	935.0
32.5°	1665.1	1560.1	1463.2	1377.8	1302.1	1237.1	1171.2	1098.2	1022.9	959.2	903.4
35°	1641.7	1520.3	1409.3	1312.8	1232.0	1165.2	1110.0	1042.0	972.8	911.2	857.7
37.5°	1612.1	1467.9	1348.8	1247.7	1159.2	1088.7	1037.3	985.2	918.8	859.4	811.1
40°	1588.8	1430.7	1304.7	1201.2	1109.4	1036.1	988.5	939.1	883.9	828.7	777.6
42.5°	1559.5	1397.3	1260.0	1148.7	1057.7	986.4	936.4	894.5	845.8	794.3	746.8
45°	1505.7	1336.6	1187.8	1068.2	976.3	905.9	854.3	822.9	786.3	737.4	697.3
47.5°	1426.6	1263.7	1109.8	986.3	891.6	826.4	777.9	747.8	722.0	685.7	649.4
50°	1356.3	1209.4	1053.6	931.0	836.3	770.6	725.8	698.5	676.4	648.5	617.8
52.5°	1277.8	1141.0	998.2	877.0	783.3	718.5	674.7	650.7	632.2	612.3	581.9
55°	1153.0	1036.7	904.2	789.2	702.6	639.2	600.9	580.0	564.9	549.7	531.2
57.5°	1015.5	924.5	807.2	702.0	622.2	564.6	528.8	508.5	496.7	489.0	478.0
60°	918.8	840.9	739.8	643.9	566.0	514.9	480.0	464.3	454.4	448.1	439.9
62.5°	829.1	765.1	671.4	583.9	515.8	467.4	436.4	421.1	411.6	408.5	401.8
65°	696.8	647.4	570.1	497.5	439.4	398.0	372.0	357.4	351.5	348.1	348.7
67.5°	566.5	536.4	474.3	412.3	366.0	331.4	310.5	299.3	296.4	291.7	291.6
70°	487.0	464.3	412.0	358.0	316.7	290.0	271.4	259.8	256.8	254.5	254.0
72.5°	416.8	396.9	351.5	308.2	271.1	247.7	232.3	225.3	220.6	219.2	219.1
75°	313.2	302.2	266.1	231.9	206.3	190.0	179.6	173.1	169.7	169.1	169.7
77.5°	222.7	213.0	190.1	165.8	149.7	137.4	128.5	126.3	122.3	122.5	121.9
80°	167.4	161.0	146.5	127.3	113.9	103.4	98.8	94.7	93.6	91.8	93.6
82.5°	121.3	114.5	104.6	92.4	81.4	75.1	70.4	69.1	68.4	67.7	68.0
85°	59.8	60.4	54.6	45.3	40.6	37.2	34.3	34.3	33.7	33.1	33.7
87.5°	21.4	20.4	18.4	16.9	14.5	12.9	12.3	12.7	11.4	11.0	11.6
90°	5.0	4.4	3.8	3.2	2.5	1.8	1.1	0.4	1.1	1.8	2.5
92.5°	13.5	12.7	12.0	11.4	10.9	10.4	9.9	9.5	9.9	10.4	10.9
95°	28.3	27.5	26.6	26.1	25.9	25.7	25.6	25.4	25.6	25.7	25.9
97.5°	45.5	44.3	43.0	42.4	42.4	42.3	42.2	42.1	42.2	42.3	42.4
100°	57.4	56.3	55.2	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
102.5°	71.0	70.5	69.9	69.5	69.1	68.8	68.4	68.0	68.4	68.8	69.1
105°	92.2	91.7	91.2	90.7	90.2	89.8	89.4	88.9	89.4	89.8	90.2
107.5°	115.0	114.6	114.3	113.8	113.4	113.0	112.5	112.1	112.5	113.0	113.4
110°	130.6	130.4	130.1	129.8	129.3	128.9	128.5	128.0	128.5	128.9	129.3





TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	146.1	145.8	145.4	145.2	144.9	144.6	144.5	144.2	144.5	144.6	144.9
115°	170.2	170.0	169.9	169.6	169.3	168.9	168.5	168.2	168.5	168.9	169.3
117.5°	193.3	193.2	193.0	192.9	192.7	192.5	192.3	192.3	192.3	192.5	192.7
120°	209.4	209.3	209.2	209.0	208.5	208.1	207.7	207.2	207.7	208.1	208.5
122.5°	224.7	224.5	224.3	224.0	223.9	223.8	223.6	223.4	223.6	223.8	223.9
125°	248.1	248.0	247.9	247.5	247.0	246.5	246.0	245.5	246.0	246.5	247.0
127.5°	270.4	270.4	270.3	270.1	269.8	269.5	269.1	268.9	269.1	269.5	269.8
130°	285.3	285.2	285.0	284.6	284.2	283.8	283.4	282.9	283.4	283.8	284.2
132.5°	300.1	300.1	300.1	299.8	299.1	298.4	297.6	297.0	297.6	298.4	299.1
135°	321.8	321.7	321.6	321.3	320.8	320.3	319.8	319.2	319.8	320.3	320.8
137.5°	342.9	342.7	342.5	342.2	341.6	341.1	340.6	340.1	340.6	341.1	341.6
140°	356.2	355.9	355.7	355.2	354.8	354.4	354.0	353.5	354.0	354.4	354.8
142.5°	369.5	369.1	368.8	368.4	368.1	367.7	367.3	367.0	367.3	367.7	368.1
145°	388.9	388.7	388.4	388.1	387.8	387.4	387.1	386.8	387.1	387.4	387.8
147.5°	406.4	406.1	406.0	405.8	405.5	405.4	405.2	405.0	405.2	405.4	405.5
150°	417.7	417.3	417.0	416.8	416.9	417.0	417.1	417.2	417.1	417.0	416.9
152.5°	428.1	427.9	427.7	427.7	427.5	427.4	427.3	427.1	427.3	427.4	427.5
155°	442.7	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
157.5°	455.6	455.6	455.5	455.5	455.7	455.9	456.1	456.2	456.1	455.9	455.7
160°	463.4	463.3	463.2	463.3	463.6	463.8	464.2	464.4	464.2	463.8	463.6
162.5°	470.7	470.7	470.7	470.8	471.0	471.2	471.4	471.6	471.4	471.2	471.0
165°	480.6	480.5	480.4	480.4	480.6	480.8	481.0	481.1	481.0	480.8	480.6
167.5°	487.8	487.8	487.8	487.9	488.3	488.6	489.0	489.3	489.0	488.6	488.3
170°	492.1	492.1	492.1	492.2	492.6	492.9	493.3	493.6	493.3	492.9	492.6
172.5°	495.2	495.2	495.2	495.4	495.8	496.1	496.5	496.8	496.5	496.1	495.8
175°	498.7	498.7	498.7	498.9	499.2	499.6	499.9	500.3	499.9	499.6	499.2
177.5°	500.7	500.8	500.8	500.9	501.3	501.5	501.8	502.0	501.8	501.5	501.3
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1345.4	1340.3	1336.1	1326.8	1321.7	1314.7	1309.2	1315.2	1308.7	1311.5	1307.3
5°	1303.5	1287.2	1275.6	1258.7	1244.2	1230.8	1221.0	1219.2	1214.5	1212.2	1205.2
7.5°	1253.0	1232.7	1212.7	1190.6	1172.0	1153.1	1141.0	1131.0	1124.4	1115.7	1109.7
10°	1223.3	1195.9	1172.8	1146.0	1122.7	1102.4	1086.2	1078.0	1070.5	1059.4	1055.3
12.5°	1186.5	1158.3	1130.0	1101.4	1079.0	1056.4	1042.4	1030.1	1024.8	1012.4	1011.2
15°	1142.5	1100.1	1072.2	1043.1	1012.4	993.8	982.1	968.7	962.9	954.2	947.8
17.5°	1089.9	1052.1	1017.2	987.1	960.7	945.0	930.7	921.4	911.5	905.8	895.3
20°	1051.9	1015.8	980.9	949.0	928.7	910.6	899.0	890.3	879.9	876.9	866.5
22.5°	1019.8	980.0	946.6	919.7	897.5	877.2	864.6	858.7	851.4	842.5	840.4
25°	967.6	926.3	897.9	871.2	851.4	832.8	824.1	816.5	809.5	803.1	800.8
27.5°	922.5	885.6	851.8	827.7	810.5	793.5	785.8	776.6	771.5	766.4	760.1
30°	890.9	853.1	823.5	800.2	781.6	766.5	758.4	752.0	747.3	742.7	739.2
32.5°	858.3	823.4	794.6	771.9	753.3	741.8	734.7	730.1	725.0	719.5	715.1
35°	815.4	777.0	749.1	729.4	714.8	706.1	697.9	693.9	688.0	688.0	683.4
37.5°	766.9	733.7	709.1	691.1	678.0	670.3	661.4	658.7	655.0	652.5	650.8
40°	738.0	707.2	684.0	666.0	652.0	645.7	638.7	634.0	631.7	628.8	627.6
42.5°	708.3	678.9	656.6	640.0	627.8	622.4	615.9	612.6	608.0	604.2	603.5
45°	663.1	634.6	614.2	600.9	590.4	584.0	580.0	573.0	570.7	566.0	565.4
47.5°	620.2	592.9	572.9	562.0	552.8	547.5	541.1	534.2	531.5	529.2	528.9
50°	588.1	563.1	544.5	534.1	525.4	517.8	511.4	506.8	505.0	505.0	506.2
52.5°	555.6	534.3	518.5	505.7	497.5	489.4	483.5	480.7	478.0	480.9	482.9
55°	507.9	486.4	474.8	462.6	454.4	445.1	442.2	441.1	439.4	444.0	446.3
57.5°	457.4	442.4	428.8	416.6	409.3	404.0	400.0	399.3	402.6	404.8	412.3
60°	425.4	407.9	395.7	386.4	377.7	374.3	373.1	372.0	374.3	380.6	390.5
62.5°	390.0	375.9	362.7	355.8	349.4	343.5	343.4	344.1	348.7	356.0	365.8
65°	338.2	326.0	317.3	309.2	303.9	300.4	301.6	303.9	309.2	319.0	330.1
67.5°	285.6	277.2	269.4	262.8	257.8	257.8	259.0	262.4	268.6	280.0	290.1
70°	251.7	242.4	235.9	233.1	228.9	226.6	230.1	235.9	241.2	251.7	260.4
72.5°	217.7	209.8	204.8	202.9	201.0	199.2	200.4	206.6	213.7	224.2	234.3
75°	167.4	164.5	161.0	158.7	156.9	158.1	159.2	165.1	170.8	181.9	193.6
77.5°	122.2	119.2	117.0	116.5	115.5	116.1	119.3	123.6	129.3	137.4	146.2
80°	92.4	91.3	90.1	89.5	89.5	90.1	94.7	97.6	102.9	110.4	117.4
82.5°	67.3	66.6	66.4	66.2	66.7	66.8	69.7	73.4	77.7	83.4	89.5
85°	35.5	34.3	36.0	36.6	35.5	37.2	38.3	40.6	42.4	45.3	48.2
87.5°	12.2	13.3	13.0	13.5	13.7	14.7	14.4	16.3	17.3	18.3	17.9
90°	3.2	3.8	4.4	5.0	5.6	6.3	6.7	7.1	7.6	8.0	8.4
92.5°	11.4	12.0	12.7	13.5	14.2	15.0	15.6	16.1	16.7	17.3	17.7
95°	26.1	26.6	27.5	28.3	29.2	30.0	30.7	31.3	31.9	32.5	32.9
97.5°	42.4	43.0	44.3	45.5	46.7	47.9	48.4	49.0	49.6	50.1	50.5
100°	54.7	55.2	56.3	57.4	58.5	59.7	60.5	61.3	62.1	62.9	63.3
102.5°	69.5	69.9	70.5	71.0	71.6	72.2	73.0	73.9	74.7	75.6	76.1
105°	90.7	91.2	91.7	92.2	92.7	93.2	93.8	94.3	94.8	95.3	95.7
107.5°	113.8	114.3	114.6	115.0	115.5	115.8	116.1	116.3	116.6	116.8	117.0
110°	129.8	130.1	130.4	130.6	130.9	131.1	131.4	131.6	131.9	132.2	132.2



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.2	145.4	145.8	146.1	146.4	146.7	146.9	147.0	147.1	147.2	147.2
115°	169.6	169.9	170.0	170.2	170.4	170.6	170.5	170.4	170.3	170.2	170.1
117.5°	192.9	193.0	193.2	193.3	193.5	193.6	193.7	193.8	193.8	193.9	193.8
120°	209.0	209.2	209.3	209.4	209.5	209.6	209.6	209.6	209.6	209.6	209.4
122.5°	224.0	224.3	224.5	224.7	225.0	225.2	225.1	225.1	225.0	224.9	224.7
125°	247.5	247.9	248.0	248.1	248.1	248.2	248.1	247.9	247.7	247.5	247.4
127.5°	270.1	270.3	270.4	270.4	270.5	270.7	270.6	270.5	270.4	270.4	270.2
130°	284.6	285.0	285.2	285.3	285.5	285.7	285.6	285.5	285.4	285.3	285.2
132.5°	299.8	300.1	300.1	300.1	300.1	300.0	299.9	299.8	299.7	299.6	299.5
135°	321.3	321.6	321.7	321.8	321.8	321.9	321.9	321.9	321.9	321.9	321.8
137.5°	342.2	342.5	342.7	342.9	343.0	343.3	343.4	343.5	343.5	343.7	343.5
140°	355.2	355.7	355.9	356.2	356.5	356.7	356.9	357.1	357.2	357.4	357.2
142.5°	368.4	368.8	369.1	369.5	369.8	370.1	370.2	370.3	370.4	370.5	370.3
145°	388.1	388.4	388.7	388.9	389.2	389.4	389.4	389.4	389.4	389.4	389.3
147.5°	405.8	406.0	406.1	406.4	406.6	406.8	407.0	407.2	407.4	407.6	407.4
150°	416.8	417.0	417.3	417.7	418.0	418.4	418.4	418.4	418.4	418.4	418.3
152.5°	427.7	427.7	427.9	428.1	428.2	428.3	428.5	428.8	429.0	429.1	429.1
155°	442.6	442.6	442.6	442.7	442.8	442.9	443.2	443.6	443.9	444.3	444.3
157.5°	455.5	455.5	455.6	455.6	455.7	455.8	456.2	456.5	456.8	457.2	457.1
160°	463.3	463.2	463.3	463.4	463.5	463.6	464.0	464.3	464.7	465.0	464.9
162.5°	470.8	470.7	470.7	470.7	470.8	470.8	471.2	471.7	472.0	472.4	472.4
165°	480.4	480.4	480.5	480.6	480.7	480.8	481.1	481.5	481.8	482.2	482.1
167.5°	487.9	487.8	487.8	487.8	487.8	487.8	488.3	488.8	489.3	489.8	489.8
170°	492.2	492.1	492.1	492.1	492.1	492.1	492.6	493.1	493.6	494.2	494.1
172.5°	495.4	495.2	495.2	495.2	495.2	495.2	495.8	496.3	496.8	497.3	497.3
175°	498.9	498.7	498.7	498.7	498.7	498.7	499.2	499.7	500.3	500.8	500.8
177.5°	500.9	500.8	500.8	500.7	500.6	500.5	500.9	501.4	501.8	502.2	502.1
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1304.5	1307.8	1305.0	1308.7	1305.0	1307.8	1304.5	1307.3	1311.5	1308.7	1315.2
5°	1202.4	1197.1	1200.6	1198.3	1200.6	1197.1	1202.4	1205.2	1212.2	1214.5	1219.2
7.5°	1108.0	1103.0	1097.3	1094.6	1097.3	1103.0	1108.0	1109.7	1115.7	1124.4	1131.0
10°	1049.0	1042.6	1042.0	1037.9	1042.0	1042.6	1049.0	1055.3	1059.4	1070.5	1078.0
12.5°	1005.7	999.8	993.2	991.4	993.2	999.8	1005.7	1011.2	1012.4	1024.8	1030.1
15°	944.3	939.7	935.6	939.1	935.6	939.7	944.3	947.8	954.2	962.9	968.7
17.5°	893.3	889.5	888.8	884.5	888.8	889.5	893.3	895.3	905.8	911.5	921.4
20°	861.3	858.3	859.5	852.0	859.5	858.3	861.3	866.5	876.9	879.9	890.3
22.5°	835.7	830.0	829.3	827.8	829.3	830.0	835.7	840.4	842.5	851.4	858.7
25°	795.6	792.6	789.8	792.6	789.8	792.6	795.6	800.8	803.1	809.5	816.5
27.5°	760.6	757.1	756.3	756.6	756.3	757.1	760.6	760.1	766.4	771.5	776.6
30°	739.2	733.4	734.0	733.4	734.0	733.4	739.2	739.2	742.7	747.3	752.0
32.5°	715.9	712.0	711.2	710.2	711.2	712.0	715.9	715.1	719.5	725.0	730.1
35°	681.7	681.7	678.7	678.7	678.7	681.7	681.7	683.4	688.0	688.0	693.9
37.5°	649.5	648.8	647.1	647.4	647.1	648.8	649.5	650.8	652.5	655.0	658.7
40°	625.3	624.7	622.9	619.5	622.9	624.7	625.3	627.6	628.8	631.7	634.0
42.5°	602.0	600.1	599.3	598.1	599.3	600.1	602.0	603.5	604.2	608.0	612.6
45°	565.4	565.4	564.3	563.7	564.3	565.4	565.4	565.4	566.0	570.7	573.0
47.5°	529.9	530.9	533.1	532.8	533.1	530.9	529.9	528.9	529.2	531.5	534.2
50°	508.5	509.1	510.8	511.4	510.8	509.1	508.5	506.2	505.0	505.0	506.8
52.5°	484.7	488.2	490.3	490.0	490.3	488.2	484.7	482.9	480.9	478.0	480.7
55°	451.5	455.6	459.7	460.3	459.7	455.6	451.5	446.3	444.0	439.4	441.1
57.5°	418.6	424.3	428.6	430.1	428.6	424.3	418.6	412.3	404.8	402.6	399.3
60°	396.3	403.9	409.1	411.5	409.1	403.9	396.3	390.5	380.6	374.3	372.0
62.5°	375.0	383.4	388.7	389.1	388.7	383.4	375.0	365.8	356.0	348.7	344.1
65°	339.9	348.7	353.4	356.8	353.4	348.7	339.9	330.1	319.0	309.2	303.9
67.5°	302.3	311.0	316.2	318.9	316.2	311.0	302.3	290.1	280.0	268.6	262.4
70°	274.9	283.6	290.6	292.9	290.6	283.6	274.9	260.4	251.7	241.2	235.9
72.5°	247.9	255.7	261.3	264.1	261.3	255.7	247.9	234.3	224.2	213.7	206.6
75°	201.0	211.5	216.8	219.6	216.8	211.5	201.0	193.6	181.9	170.8	165.1
77.5°	155.1	164.5	167.7	169.2	167.7	164.5	155.1	146.2	137.4	129.3	123.6
80°	124.3	130.2	134.2	134.8	134.2	130.2	124.3	117.4	110.4	102.9	97.6
82.5°	95.6	100.4	101.7	103.2	101.7	100.4	95.6	89.5	83.4	77.7	73.4
85°	52.3	54.6	55.2	54.6	55.2	54.6	52.3	48.2	45.3	42.4	40.6
87.5°	18.9	18.5	18.6	19.5	18.6	18.5	18.9	17.9	18.3	17.3	16.3
90°	8.6	8.9	9.1	9.4	9.1	8.9	8.6	8.4	8.0	7.6	7.1
92.5°	17.8	18.0	18.3	18.4	18.3	18.0	17.8	17.7	17.3	16.7	16.1
95°	33.1	33.2	33.4	33.6	33.4	33.2	33.1	32.9	32.5	31.9	31.3
97.5°	50.5	50.7	50.8	50.9	50.8	50.7	50.5	50.5	50.1	49.6	49.0
100°	63.5	63.6	63.8	64.0	63.8	63.6	63.5	63.3	62.9	62.1	61.3
102.5°	76.4	76.6	76.9	77.1	76.9	76.6	76.4	76.1	75.6	74.7	73.9
105°	96.0	96.3	96.5	96.8	96.5	96.3	96.0	95.7	95.3	94.8	94.3
107.5°	117.0	116.9	116.9	116.9	116.9	116.9	117.0	117.0	116.8	116.6	116.3
110°	132.2	132.1	132.0	131.9	132.0	132.1	132.2	132.2	132.2	131.9	131.6



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	147.1	146.9	146.7	146.5	146.7	146.9	147.1	147.2	147.2	147.1	147.0
115°	170.0	170.0	169.9	169.8	169.9	170.0	170.0	170.1	170.2	170.3	170.4
117.5°	193.5	193.1	192.7	192.3	192.7	193.1	193.5	193.8	193.9	193.8	193.8
120°	209.1	208.7	208.4	208.0	208.4	208.7	209.1	209.4	209.6	209.6	209.6
122.5°	224.5	224.2	223.9	223.6	223.9	224.2	224.5	224.7	224.9	225.0	225.1
125°	247.3	247.2	247.1	247.0	247.1	247.2	247.3	247.4	247.5	247.7	247.9
127.5°	270.0	269.8	269.7	269.5	269.7	269.8	270.0	270.2	270.4	270.4	270.5
130°	285.0	284.8	284.6	284.5	284.6	284.8	285.0	285.2	285.3	285.4	285.5
132.5°	299.3	299.0	298.8	298.5	298.8	299.0	299.3	299.5	299.6	299.7	299.8
135°	321.4	321.1	320.7	320.4	320.7	321.1	321.4	321.8	321.9	321.9	321.9
137.5°	343.1	342.7	342.2	341.7	342.2	342.7	343.1	343.5	343.7	343.5	343.5
140°	356.8	356.4	355.9	355.5	355.9	356.4	356.8	357.2	357.4	357.2	357.1
142.5°	369.9	369.5	369.0	368.6	369.0	369.5	369.9	370.3	370.5	370.4	370.3
145°	389.1	388.8	388.6	388.3	388.6	388.8	389.1	389.3	389.4	389.4	389.4
147.5°	406.8	406.2	405.6	405.1	405.6	406.2	406.8	407.4	407.6	407.4	407.2
150°	418.1	417.9	417.8	417.6	417.8	417.9	418.1	418.3	418.4	418.4	418.4
152.5°	428.8	428.5	428.2	427.8	428.2	428.5	428.8	429.1	429.1	429.0	428.8
155°	443.8	443.4	443.0	442.6	443.0	443.4	443.8	444.3	444.3	443.9	443.6
157.5°	456.5	455.9	455.4	454.8	455.4	455.9	456.5	457.1	457.2	456.8	456.5
160°	464.5	464.1	463.6	463.2	463.6	464.1	464.5	464.9	465.0	464.7	464.3
162.5°	471.9	471.4	470.9	470.4	470.9	471.4	471.9	472.4	472.4	472.0	471.7
165°	481.6	481.0	480.5	480.0	480.5	481.0	481.6	482.1	482.2	481.8	481.5
167.5°	489.2	488.7	488.2	487.7	488.2	488.7	489.2	489.8	489.8	489.3	488.8
170°	493.5	492.9	492.3	491.7	492.3	492.9	493.5	494.1	494.2	493.6	493.1
172.5°	496.7	496.2	495.7	495.2	495.7	496.2	496.7	497.3	497.3	496.8	496.3
175°	500.2	499.6	498.9	498.3	498.9	499.6	500.2	500.8	500.8	500.3	499.7
177.5°	501.7	501.2	500.7	500.2	500.7	501.2	501.7	502.1	502.2	501.8	501.4
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1309.2	1314.7	1321.7	1326.8	1336.1	1340.3	1345.4	1349.6	1357.0	1364.0	1372.4
5°	1221.0	1230.8	1244.2	1258.7	1275.6	1287.2	1303.5	1313.4	1333.1	1351.2	1368.6
7.5°	1141.0	1153.1	1172.0	1190.6	1212.7	1232.7	1253.0	1275.6	1300.8	1330.6	1355.2
10°	1086.2	1102.4	1122.7	1146.0	1172.8	1195.9	1223.3	1247.7	1278.5	1313.4	1345.9
12.5°	1042.4	1056.4	1079.0	1101.4	1130.0	1158.3	1186.5	1218.8	1254.8	1293.4	1334.3
15°	982.1	993.8	1012.4	1043.1	1072.2	1100.1	1142.5	1172.8	1218.1	1261.0	1310.4
17.5°	930.7	945.0	960.7	987.1	1017.2	1052.1	1089.9	1127.8	1171.6	1226.1	1281.8
20°	899.0	910.6	928.7	949.0	980.9	1015.8	1051.9	1090.2	1143.7	1200.1	1259.9
22.5°	864.6	877.2	897.5	919.7	946.6	980.0	1019.8	1061.9	1117.7	1173.1	1238.0
25°	824.1	832.8	851.4	871.2	897.9	926.3	967.6	1014.1	1069.3	1132.6	1198.9
27.5°	785.8	793.5	810.5	827.7	851.8	885.6	922.5	969.5	1021.5	1085.6	1159.2
30°	758.4	766.5	781.6	800.2	823.5	853.1	890.9	935.0	990.8	1053.6	1130.3
32.5°	734.7	741.8	753.3	771.9	794.6	823.4	858.3	903.4	959.2	1022.9	1098.2
35°	697.9	706.1	714.8	729.4	749.1	777.0	815.4	857.7	911.2	972.8	1042.0
37.5°	661.4	670.3	678.0	691.1	709.1	733.7	766.9	811.1	859.4	918.8	985.2
40°	638.7	645.7	652.0	666.0	684.0	707.2	738.0	777.6	828.7	883.9	939.1
42.5°	615.9	622.4	627.8	640.0	656.6	678.9	708.3	746.8	794.3	845.8	894.5
45°	580.0	584.0	590.4	600.9	614.2	634.6	663.1	697.3	737.4	786.3	822.9
47.5°	541.1	547.5	552.8	562.0	572.9	592.9	620.2	649.4	685.7	722.0	747.8
50°	511.4	517.8	525.4	534.1	544.5	563.1	588.1	617.8	648.5	676.4	698.5
52.5°	483.5	489.4	497.5	505.7	518.5	534.3	555.6	581.9	612.3	632.2	650.7
55°	442.2	445.1	454.4	462.6	474.8	486.4	507.9	531.2	549.7	564.9	580.0
57.5°	400.0	404.0	409.3	416.6	428.8	442.4	457.4	478.0	489.0	496.7	508.5
60°	373.1	374.3	377.7	386.4	395.7	407.9	425.4	439.9	448.1	454.4	464.3
62.5°	343.4	343.5	349.4	355.8	362.7	375.9	390.0	401.8	408.5	411.6	421.1
65°	301.6	300.4	303.9	309.2	317.3	326.0	338.2	348.7	348.1	351.5	357.4
67.5°	259.0	257.8	257.8	262.8	269.4	277.2	285.6	291.6	291.7	296.4	299.3
70°	230.1	226.6	228.9	233.1	235.9	242.4	251.7	254.0	254.5	256.8	259.8
72.5°	200.4	199.2	201.0	202.9	204.8	209.8	217.7	219.1	219.2	220.6	225.3
75°	159.2	158.1	156.9	158.7	161.0	164.5	167.4	169.7	169.1	169.7	173.1
77.5°	119.3	116.1	115.5	116.5	117.0	119.2	122.2	121.9	122.5	122.3	126.3
80°	94.7	90.1	89.5	89.5	90.1	91.3	92.4	93.6	91.8	93.6	94.7
82.5°	69.7	66.8	66.7	66.2	66.4	66.6	67.3	68.0	67.7	68.4	69.1
85°	38.3	37.2	35.5	36.6	36.0	34.3	35.5	33.7	33.1	33.7	34.3
87.5°	14.4	14.7	13.7	13.5	13.0	13.3	12.2	11.6	11.0	11.4	12.7
90°	6.7	6.3	5.6	5.0	4.4	3.8	3.2	2.5	1.8	1.1	0.4
92.5°	15.6	15.0	14.2	13.5	12.7	12.0	11.4	10.9	10.4	9.9	9.5
95°	30.7	30.0	29.2	28.3	27.5	26.6	26.1	25.9	25.7	25.6	25.4
97.5°	48.4	47.9	46.7	45.5	44.3	43.0	42.4	42.4	42.3	42.2	42.1
100°	60.5	59.7	58.5	57.4	56.3	55.2	54.7	54.7	54.7	54.7	54.7
102.5°	73.0	72.2	71.6	71.0	70.5	69.9	69.5	69.1	68.8	68.4	68.0
105°	93.8	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.8	89.4	88.9
107.5°	116.1	115.8	115.5	115.0	114.6	114.3	113.8	113.4	113.0	112.5	112.1
110°	131.4	131.1	130.9	130.6	130.4	130.1	129.8	129.3	128.9	128.5	128.0



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	146.9	146.7	146.4	146.1	145.8	145.4	145.2	144.9	144.6	144.5	144.2
115°	170.5	170.6	170.4	170.2	170.0	169.9	169.6	169.3	168.9	168.5	168.2
117.5°	193.7	193.6	193.5	193.3	193.2	193.0	192.9	192.7	192.5	192.3	192.3
120°	209.6	209.6	209.5	209.4	209.3	209.2	209.0	208.5	208.1	207.7	207.2
122.5°	225.1	225.2	225.0	224.7	224.5	224.3	224.0	223.9	223.8	223.6	223.4
125°	248.1	248.2	248.1	248.1	248.0	247.9	247.5	247.0	246.5	246.0	245.5
127.5°	270.6	270.7	270.5	270.4	270.4	270.3	270.1	269.8	269.5	269.1	268.9
130°	285.6	285.7	285.5	285.3	285.2	285.0	284.6	284.2	283.8	283.4	282.9
132.5°	299.9	300.0	300.1	300.1	300.1	300.1	299.8	299.1	298.4	297.6	297.0
135°	321.9	321.9	321.8	321.8	321.7	321.6	321.3	320.8	320.3	319.8	319.2
137.5°	343.4	343.3	343.0	342.9	342.7	342.5	342.2	341.6	341.1	340.6	340.1
140°	356.9	356.7	356.5	356.2	355.9	355.7	355.2	354.8	354.4	354.0	353.5
142.5°	370.2	370.1	369.8	369.5	369.1	368.8	368.4	368.1	367.7	367.3	367.0
145°	389.4	389.4	389.2	388.9	388.7	388.4	388.1	387.8	387.4	387.1	386.8
147.5°	407.0	406.8	406.6	406.4	406.1	406.0	405.8	405.5	405.4	405.2	405.0
150°	418.4	418.4	418.0	417.7	417.3	417.0	416.8	416.9	417.0	417.1	417.2
152.5°	428.5	428.3	428.2	428.1	427.9	427.7	427.7	427.5	427.4	427.3	427.1
155°	443.2	442.9	442.8	442.7	442.6	442.6	442.6	442.6	442.6	442.6	442.6
157.5°	456.2	455.8	455.7	455.6	455.6	455.5	455.5	455.7	455.9	456.1	456.2
160°	464.0	463.6	463.5	463.4	463.3	463.2	463.3	463.6	463.8	464.2	464.4
162.5°	471.2	470.8	470.8	470.7	470.7	470.7	470.8	471.0	471.2	471.4	471.6
165°	481.1	480.8	480.7	480.6	480.5	480.4	480.4	480.6	480.8	481.0	481.1
167.5°	488.3	487.8	487.8	487.8	487.8	487.8	487.9	488.3	488.6	489.0	489.3
170°	492.6	492.1	492.1	492.1	492.1	492.1	492.2	492.6	492.9	493.3	493.6
172.5°	495.8	495.2	495.2	495.2	495.2	495.2	495.4	495.8	496.1	496.5	496.8
175°	499.2	498.7	498.7	498.7	498.7	498.7	498.9	499.2	499.6	499.9	500.3
177.5°	500.9	500.5	500.6	500.7	500.8	500.8	500.9	501.3	501.5	501.8	502.0
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



TEST NUMBER: P333431-935

CATALOG NUMBER: S125DIW-S1090D470U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1376.6	1383.1	1387.2	1395.2	1401.7	1405.4	1408.7	1411.4	1414.7	1417.5	1425.4
5°	1385.4	1400.5	1413.3	1433.0	1451.1	1465.1	1480.1	1493.5	1504.5	1520.3	1532.4
7.5°	1381.6	1408.4	1436.6	1467.1	1498.4	1527.4	1554.2	1579.2	1601.8	1629.3	1653.3
10°	1377.9	1414.5	1450.5	1491.8	1534.2	1570.2	1604.0	1638.2	1663.2	1698.1	1727.7
12.5°	1375.1	1418.2	1461.6	1511.3	1557.9	1608.8	1653.6	1678.7	1716.7	1744.6	1779.8
15°	1363.3	1420.3	1480.1	1535.9	1602.1	1649.2	1688.8	1737.6	1773.1	1808.4	1846.8
17.5°	1342.3	1406.8	1473.8	1546.9	1610.4	1661.0	1711.9	1758.9	1801.3	1848.8	1896.6
20°	1332.6	1397.1	1473.8	1548.7	1610.9	1663.8	1716.1	1767.8	1814.3	1875.3	1930.5
22.5°	1312.1	1390.1	1460.8	1533.9	1597.8	1655.4	1714.7	1773.4	1835.2	1904.1	1973.3
25°	1275.6	1354.6	1429.6	1501.7	1566.2	1638.2	1701.6	1780.0	1859.1	1950.3	2036.3
27.5°	1237.7	1313.4	1382.1	1451.6	1526.9	1608.4	1690.7	1779.7	1883.1	1998.3	2119.6
30°	1207.0	1278.5	1345.3	1416.8	1495.2	1587.1	1677.1	1782.9	1902.6	2032.2	2176.3
32.5°	1171.2	1237.1	1302.1	1377.8	1463.2	1560.1	1665.1	1781.1	1924.9	2072.2	2220.5
35°	1110.0	1165.2	1232.0	1312.8	1409.3	1520.3	1641.7	1778.8	1943.9	2113.0	2237.9
37.5°	1037.3	1088.7	1159.2	1247.7	1348.8	1467.9	1612.1	1774.8	1950.1	2084.9	2125.2
40°	988.5	1036.1	1109.4	1201.2	1304.7	1430.7	1588.8	1760.8	1930.5	2016.5	1983.4
42.5°	936.4	986.4	1057.7	1148.7	1260.0	1397.3	1559.5	1731.6	1873.8	1906.3	1791.8
45°	854.3	905.9	976.3	1068.2	1187.8	1336.6	1505.7	1662.1	1744.0	1685.3	1508.0
47.5°	777.9	826.4	891.6	986.3	1109.8	1263.7	1426.6	1551.3	1557.8	1417.7	1228.4
50°	725.8	770.6	836.3	931.0	1053.6	1209.4	1356.3	1454.6	1410.4	1251.7	1069.9
52.5°	674.7	718.5	783.3	877.0	998.2	1141.0	1277.8	1346.7	1263.5	1100.7	945.3
55°	600.9	639.2	702.6	789.2	904.2	1036.7	1153.0	1176.8	1068.7	908.3	782.2
57.5°	528.8	564.6	622.2	702.0	807.2	924.5	1015.5	1010.4	896.1	758.5	658.4
60°	480.0	514.9	566.0	643.9	739.8	840.9	918.8	900.2	786.9	668.3	584.0
62.5°	436.4	467.4	515.8	583.9	671.4	765.1	829.1	801.6	690.6	586.9	520.4
65°	372.0	398.0	439.4	497.5	570.1	647.4	696.8	661.3	566.6	485.9	432.4
67.5°	310.5	331.4	366.0	412.3	474.3	536.4	566.5	530.8	455.0	396.1	356.5
70°	271.4	290.0	316.7	358.0	412.0	464.3	487.0	455.0	389.9	339.4	310.9
72.5°	232.3	247.7	271.1	308.2	351.5	396.9	416.8	386.2	332.8	290.1	263.5
75°	179.6	190.0	206.3	231.9	266.1	302.2	313.2	286.5	252.2	220.2	202.9
77.5°	128.5	137.4	149.7	165.8	190.1	213.0	222.7	207.2	180.7	160.5	146.2
80°	98.8	103.4	113.9	127.3	146.5	161.0	167.4	157.5	138.9	123.8	112.7
82.5°	70.4	75.1	81.4	92.4	104.6	114.5	121.3	114.7	101.3	89.4	83.0
85°	34.3	37.2	40.6	45.3	54.6	60.4	59.8	55.8	50.5	45.9	42.4
87.5°	12.3	12.9	14.5	16.9	18.4	20.4	21.4	20.7	18.9	17.6	16.3
90°	1.1	1.8	2.5	3.2	3.8	4.4	5.0	5.6	6.3	6.7	7.1
92.5°	9.9	10.4	10.9	11.4	12.0	12.7	13.5	14.2	15.0	15.6	16.1
95°	25.6	25.7	25.9	26.1	26.6	27.5	28.3	29.2	30.0	30.7	31.3
97.5°	42.2	42.3	42.4	42.4	43.0	44.3	45.5	46.7	47.9	48.4	49.0
100°	54.7	54.7	54.7	54.7	55.2	56.3	57.4	58.5	59.7	60.5	61.3
102.5°	68.4	68.8	69.1	69.5	69.9	70.5	71.0	71.6	72.2	73.0	73.9
105°	89.4	89.8	90.2	90.7	91.2	91.7	92.2	92.7	93.2	93.8	94.3
107.5°	112.5	113.0	113.4	113.8	114.3	114.6	115.0	115.5	115.8	116.1	116.3
110°	128.5	128.9	129.3	129.8	130.1	130.4	130.6	130.9	131.1	131.4	131.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.5	144.6	144.9	145.2	145.4	145.8	146.1	146.4	146.7	146.9	147.0
115°	168.5	168.9	169.3	169.6	169.9	170.0	170.2	170.4	170.6	170.5	170.4
117.5°	192.3	192.5	192.7	192.9	193.0	193.2	193.3	193.5	193.6	193.7	193.8
120°	207.7	208.1	208.5	209.0	209.2	209.3	209.4	209.5	209.6	209.6	209.6
122.5°	223.6	223.8	223.9	224.0	224.3	224.5	224.7	225.0	225.2	225.1	225.1
125°	246.0	246.5	247.0	247.5	247.9	248.0	248.1	248.1	248.2	248.1	247.9
127.5°	269.1	269.5	269.8	270.1	270.3	270.4	270.4	270.5	270.7	270.6	270.5
130°	283.4	283.8	284.2	284.6	285.0	285.2	285.3	285.5	285.7	285.6	285.5
132.5°	297.6	298.4	299.1	299.8	300.1	300.1	300.1	300.1	300.0	299.9	299.8
135°	319.8	320.3	320.8	321.3	321.6	321.7	321.8	321.8	321.9	321.9	321.9
137.5°	340.6	341.1	341.6	342.2	342.5	342.7	342.9	343.0	343.3	343.4	343.5
140°	354.0	354.4	354.8	355.2	355.7	355.9	356.2	356.5	356.7	356.9	357.1
142.5°	367.3	367.7	368.1	368.4	368.8	369.1	369.5	369.8	370.1	370.2	370.3
145°	387.1	387.4	387.8	388.1	388.4	388.7	388.9	389.2	389.4	389.4	389.4
147.5°	405.2	405.4	405.5	405.8	406.0	406.1	406.4	406.6	406.8	407.0	407.2
150°	417.1	417.0	416.9	416.8	417.0	417.3	417.7	418.0	418.4	418.4	418.4
152.5°	427.3	427.4	427.5	427.7	427.7	427.9	428.1	428.2	428.3	428.5	428.8
155°	442.6	442.6	442.6	442.6	442.6	442.6	442.7	442.8	442.9	443.2	443.6
157.5°	456.1	455.9	455.7	455.5	455.5	455.6	455.6	455.7	455.8	456.2	456.5
160°	464.2	463.8	463.6	463.3	463.2	463.3	463.4	463.5	463.6	464.0	464.3
162.5°	471.4	471.2	471.0	470.8	470.7	470.7	470.7	470.8	470.8	471.2	471.7
165°	481.0	480.8	480.6	480.4	480.4	480.5	480.6	480.7	480.8	481.1	481.5
167.5°	489.0	488.6	488.3	487.9	487.8	487.8	487.8	487.8	487.8	488.3	488.8
170°	493.3	492.9	492.6	492.2	492.1	492.1	492.1	492.1	492.1	492.6	493.1
172.5°	496.5	496.1	495.8	495.4	495.2	495.2	495.2	495.2	495.2	495.8	496.3
175°	499.9	499.6	499.2	498.9	498.7	498.7	498.7	498.7	498.7	499.2	499.7
177.5°	501.8	501.5	501.3	500.9	500.8	500.8	500.7	500.6	500.5	500.9	501.4
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1431.9	1435.6	1443.6	1440.7	1444.5	1446.3	1448.2
5°	1547.6	1566.2	1574.3	1573.1	1585.4	1582.4	1579.5
7.5°	1678.2	1697.7	1708.7	1722.3	1730.2	1730.7	1737.6
10°	1752.1	1777.7	1788.1	1802.7	1812.0	1817.2	1816.6
12.5°	1808.9	1828.9	1852.3	1859.4	1872.0	1878.5	1876.1
15°	1877.1	1909.0	1933.5	1945.6	1961.4	1966.0	1972.4
17.5°	1937.9	1980.8	2009.3	2047.2	2061.5	2070.2	2065.1
20°	1984.0	2040.4	2068.8	2114.2	2139.2	2152.5	2147.9
22.5°	2038.4	2099.4	2152.1	2191.3	2229.3	2247.4	2251.1
25°	2131.6	2215.3	2292.6	2344.3	2391.3	2402.4	2426.8
27.5°	2235.8	2334.4	2417.1	2471.4	2504.2	2516.5	2524.2
30°	2301.3	2399.5	2461.7	2496.6	2507.0	2505.9	2504.6
32.5°	2333.4	2394.9	2406.8	2397.0	2373.1	2352.9	2331.8
35°	2287.9	2242.0	2173.4	2085.1	2020.0	1954.4	1947.9
37.5°	2057.7	1910.9	1796.7	1669.2	1595.7	1550.2	1518.9
40°	1841.0	1674.2	1535.9	1428.4	1353.5	1323.8	1294.8
42.5°	1605.8	1446.5	1324.0	1234.1	1177.8	1144.9	1121.8
45°	1304.7	1164.0	1068.2	1003.1	958.3	932.7	918.2
47.5°	1069.0	965.0	883.6	836.6	805.7	785.8	785.9
50°	942.6	843.3	789.2	752.0	725.2	709.6	712.5
52.5°	830.5	756.3	710.2	679.0	659.3	649.6	649.3
55°	694.5	641.0	610.8	588.1	574.7	563.7	566.0
57.5°	594.0	549.0	528.7	509.9	500.6	496.2	489.7
60°	531.8	496.9	479.4	464.3	455.0	451.5	445.1
62.5°	476.4	449.0	432.0	419.7	411.3	410.2	405.2
65°	400.4	379.4	364.4	358.5	349.8	347.5	347.5
67.5°	330.1	315.1	303.3	298.0	294.2	294.7	292.0
70°	285.9	273.7	266.1	260.4	257.4	258.0	255.7
72.5°	250.1	236.5	229.9	226.4	222.6	224.1	223.2
75°	189.4	182.4	179.0	175.5	173.1	172.0	170.8
77.5°	139.1	132.9	130.3	128.3	128.6	125.9	128.1
80°	107.5	102.3	100.6	97.6	97.0	97.0	96.4
82.5°	78.7	75.8	74.5	72.1	71.0	72.0	70.4
85°	40.6	38.3	37.8	37.8	36.6	35.5	38.3
87.5°	16.4	14.6	14.7	14.3	14.3	13.9	13.0
90°	7.6	8.0	8.4	8.6	8.9	9.1	9.4
92.5°	16.7	17.3	17.7	17.8	18.0	18.3	18.4
95°	31.9	32.5	32.9	33.1	33.2	33.4	33.6
97.5°	49.6	50.1	50.5	50.5	50.7	50.8	50.9
100°	62.1	62.9	63.3	63.5	63.6	63.8	64.0
102.5°	74.7	75.6	76.1	76.4	76.6	76.9	77.1
105°	94.8	95.3	95.7	96.0	96.3	96.5	96.8
107.5°	116.6	116.8	117.0	117.0	116.9	116.9	116.9
110°	131.9	132.2	132.2	132.2	132.1	132.0	131.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	147.1	147.2	147.2	147.1	146.9	146.7	146.5
115°	170.3	170.2	170.1	170.0	170.0	169.9	169.8
117.5°	193.8	193.9	193.8	193.5	193.1	192.7	192.3
120°	209.6	209.6	209.4	209.1	208.7	208.4	208.0
122.5°	225.0	224.9	224.7	224.5	224.2	223.9	223.6
125°	247.7	247.5	247.4	247.3	247.2	247.1	247.0
127.5°	270.4	270.4	270.2	270.0	269.8	269.7	269.5
130°	285.4	285.3	285.2	285.0	284.8	284.6	284.5
132.5°	299.7	299.6	299.5	299.3	299.0	298.8	298.5
135°	321.9	321.9	321.8	321.4	321.1	320.7	320.4
137.5°	343.5	343.7	343.5	343.1	342.7	342.2	341.7
140°	357.2	357.4	357.2	356.8	356.4	355.9	355.5
142.5°	370.4	370.5	370.3	369.9	369.5	369.0	368.6
145°	389.4	389.4	389.3	389.1	388.8	388.6	388.3
147.5°	407.4	407.6	407.4	406.8	406.2	405.6	405.1
150°	418.4	418.4	418.3	418.1	417.9	417.8	417.6
152.5°	429.0	429.1	429.1	428.8	428.5	428.2	427.8
155°	443.9	444.3	444.3	443.8	443.4	443.0	442.6
157.5°	456.8	457.2	457.1	456.5	455.9	455.4	454.8
160°	464.7	465.0	464.9	464.5	464.1	463.6	463.2
162.5°	472.0	472.4	472.4	471.9	471.4	470.9	470.4
165°	481.8	482.2	482.1	481.6	481.0	480.5	480.0
167.5°	489.3	489.8	489.8	489.2	488.7	488.2	487.7
170°	493.6	494.2	494.1	493.5	492.9	492.3	491.7
172.5°	496.8	497.3	497.3	496.7	496.2	495.7	495.2
175°	500.3	500.8	500.8	500.2	499.6	498.9	498.3
177.5°	501.8	502.2	502.1	501.7	501.2	500.7	500.2
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4

(END OF REPORT)