

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: P332812-935

Luminaire Tested: **S124DIW-S1020D770U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332812-935
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: S124DIW-S1020D770U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6259.2 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

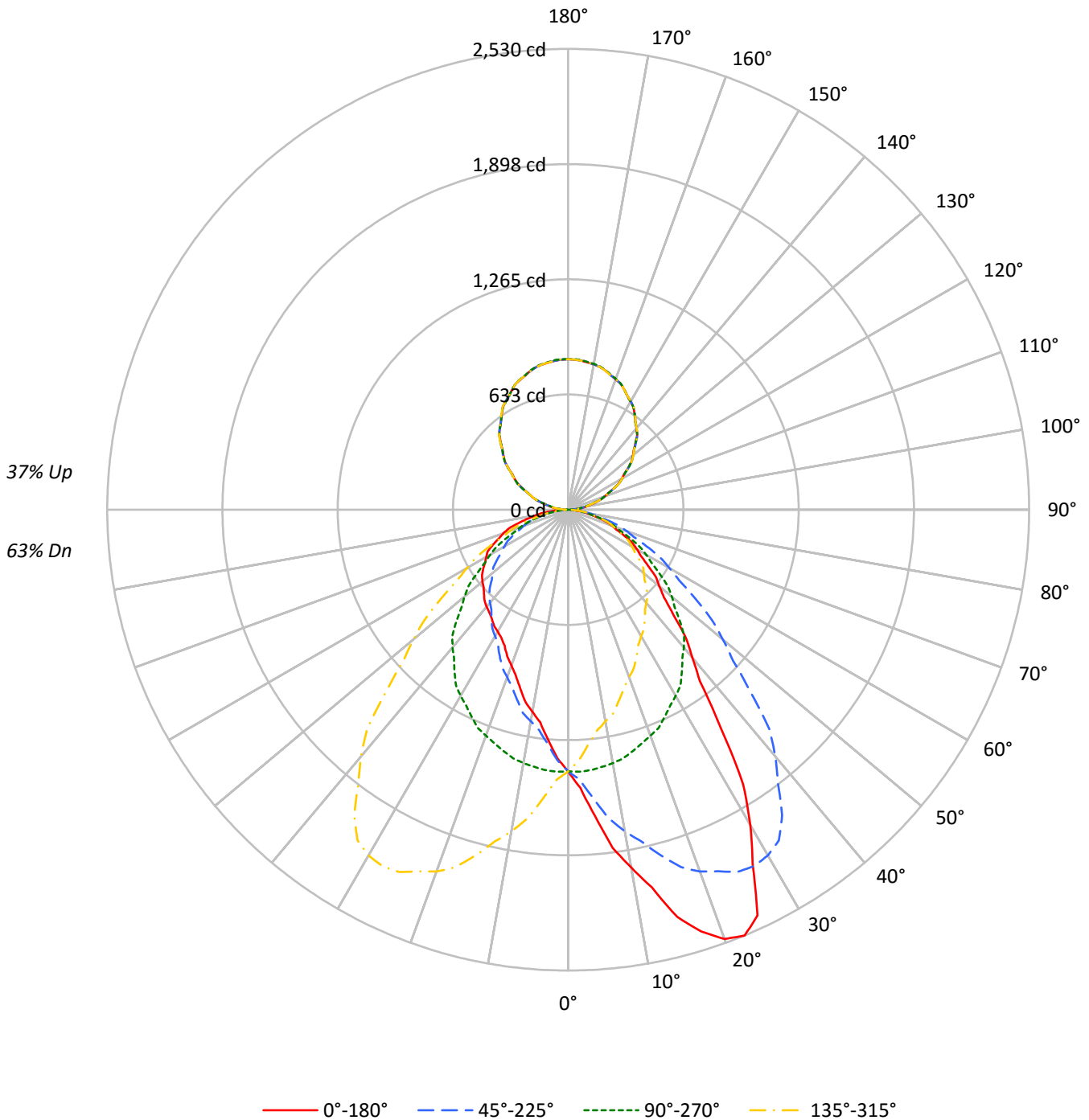
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	84	80	78	75	70	68	67	61	60	58	54
2	92	85	79	74	86	80	74	70	71	66	63	62	59	56	54	52	50	46
3	84	75	67	62	79	71	64	59	62	57	53	55	51	48	48	45	43	39
4	77	66	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	34
5	71	59	51	45	67	56	49	43	50	44	40	44	40	36	39	35	32	29
6	66	54	45	39	62	51	43	38	45	39	35	40	35	32	35	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	32	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11599	11599	11599	11599
5°	13661	11629	10264	11629
10°	16356	11579	9241	11579
15°	19351	11462	8487	11462
20°	21549	11342	7814	11342
25°	21896	11166	7349	11166
30°	18632	10997	7202	10997
35°	14325	10723	7203	10723
40°	11166	10400	7339	10400
45°	9310	9914	7462	9914
50°	8194	9323	7714	9323
55°	7506	8612	8025	8612
60°	7035	7976	8399	7976
65°	6550	7265	8709	7265
70°	5986	6559	8908	6559
75°	5346	5774	8799	5774
80°	4482	4733	8522	4733
85°	3307	3418	8160	3418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	2.2
10°-20°	431.5	6.9
20°-30°	684.2	10.9
30°-40°	761.4	12.2
40°-50°	693.1	11.1
50°-60°	566.4	9.0
60°-70°	404.3	6.5
70°-80°	222.6	3.6
80°-90°	63.3	1.0
90°-100°	54.5	0.9
100°-110°	161.4	2.6
110°-120°	274.0	4.4
120°-130°	361.3	5.8
130°-140°	405.8	6.5
140°-150°	398.7	6.4
150°-160°	335.4	5.4
160°-170°	223.1	3.6
170°-180°	78.1	1.2
0°-30°	1255.6	20.1
0°-40°	2017.1	32.2
0°-60°	3276.5	52.3
0°-90°	3966.8	63.4
90°-120°	489.9	7.8
90°-150°	1655.8	26.5
90°-180°	2292.0	36.6
0°-180°	6259.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1686	1435	1267	1435	1686	171
15°	2315	1371	1016	1371	2315	654
25°	2458	1254	825	1254	2458	1084
35°	1454	1088	731	1088	1454	923
45°	816	868	654	868	816	642
55°	533	612	570	612	533	482
65°	343	380	456	380	343	339
75°	171	185	282	185	171	182
85°	36	37	88	37	36	44
90°	19	2	19	2	19	11
95°	50	38	50	38	50	53
105°	156	149	156	149	156	164
115°	276	279	276	279	276	273
125°	403	406	403	406	403	359
135°	524	523	524	523	524	405
145°	636	636	636	636	636	398
155°	728	728	728	728	728	335
165°	791	793	791	793	791	223
175°	821	825	821	825	821	78
180°	826	826	826	826	826	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1529.2	1528.8	1524.0	1523.0	1519.7	1515.4	1514.5	1506.8	1491.6	1484.5	1482.6
5°	1685.7	1697.5	1682.0	1679.1	1677.3	1657.7	1647.5	1635.6	1608.3	1592.2	1579.7
7.5°	1872.3	1873.7	1867.0	1861.5	1846.3	1829.2	1803.5	1776.2	1743.5	1709.6	1683.9
10°	1995.2	1999.9	1992.2	1991.0	1960.7	1941.6	1903.5	1871.4	1834.4	1793.4	1755.9
12.5°	2124.7	2118.0	2114.1	2088.6	2083.0	2048.2	2004.0	1970.9	1914.0	1866.7	1816.8
15°	2315.4	2302.3	2294.0	2258.8	2241.6	2193.4	2146.3	2110.1	2035.7	1964.8	1911.2
17.5°	2427.2	2440.4	2421.1	2406.7	2362.1	2328.2	2280.2	2204.0	2145.8	2057.8	1990.2
20°	2508.3	2509.4	2498.7	2483.8	2448.7	2405.9	2353.5	2270.1	2200.5	2113.0	2020.2
22.5°	2530.1	2530.4	2525.8	2511.9	2485.4	2450.6	2397.8	2328.2	2243.9	2148.7	2055.9
25°	2458.2	2455.8	2461.3	2476.7	2466.6	2455.8	2425.5	2373.7	2295.2	2194.5	2094.6
27.5°	2191.1	2207.5	2237.7	2275.9	2312.6	2340.5	2348.4	2337.8	2289.1	2206.3	2101.6
30°	1998.7	2019.0	2041.6	2079.7	2153.4	2195.7	2242.2	2277.3	2257.6	2191.6	2094.0
32.5°	1787.3	1792.3	1825.9	1869.2	1936.8	2018.1	2091.7	2163.0	2186.7	2152.1	2070.6
35°	1453.5	1461.8	1498.1	1541.0	1623.8	1723.1	1833.8	1932.7	2014.2	2046.9	2005.3
37.5°	1186.1	1210.0	1235.7	1281.8	1354.6	1444.1	1559.1	1687.0	1808.5	1889.9	1903.8
40°	1059.5	1074.4	1092.8	1127.9	1189.8	1277.9	1376.7	1523.2	1652.3	1769.0	1807.1
42.5°	959.5	968.2	979.5	1011.2	1058.4	1146.0	1236.2	1365.0	1494.7	1634.2	1698.1
45°	815.5	824.4	843.4	861.9	897.6	958.3	1042.2	1148.1	1278.5	1413.1	1530.9
47.5°	711.4	717.1	728.4	748.2	778.5	818.6	886.8	975.3	1096.1	1226.8	1352.3
50°	652.4	657.1	666.1	683.9	707.1	742.8	798.7	881.5	976.1	1107.7	1230.9
52.5°	605.7	607.6	614.2	626.3	644.7	674.8	720.7	789.1	877.1	994.4	1117.1
55°	533.3	535.7	541.7	550.6	566.6	585.7	620.8	672.0	748.8	850.6	957.1
57.5°	473.8	475.4	480.4	483.9	497.1	512.6	539.6	576.2	634.4	720.7	815.8
60°	435.7	434.5	440.5	443.4	452.4	465.5	486.3	521.4	572.0	641.6	729.1
62.5°	398.6	396.9	401.9	405.8	411.0	422.1	439.1	466.7	507.7	570.7	646.3
65°	342.9	340.4	343.5	348.2	352.9	359.0	371.4	395.8	428.5	473.8	531.5
67.5°	286.9	289.4	289.9	292.2	295.0	303.1	311.7	328.9	352.0	388.2	437.1
70°	253.6	254.2	256.6	256.6	258.3	265.4	272.6	282.8	305.3	338.7	378.6
72.5°	220.2	222.7	221.8	223.7	225.0	229.7	235.0	244.6	263.9	288.7	322.4
75°	171.4	173.2	173.2	173.8	175.6	177.4	181.5	188.6	202.3	220.8	244.0
77.5°	125.0	125.3	126.1	128.2	128.2	131.0	134.1	139.9	146.6	159.3	173.4
80°	96.4	97.6	97.0	98.2	98.2	100.6	101.8	108.9	111.9	120.2	131.6
82.5°	70.7	71.9	71.8	73.4	74.4	74.9	76.5	79.4	82.4	89.7	94.4
85°	35.7	36.9	35.7	36.9	38.7	39.3	41.1	41.7	44.1	45.8	50.0
87.5°	14.3	15.7	15.6	16.0	17.0	17.3	17.7	17.0	18.7	19.0	20.7
90°	19.2	18.9	18.6	18.3	18.0	17.5	16.6	15.8	14.9	14.0	12.9
92.5°	28.4	28.2	28.1	27.9	27.7	27.4	26.9	26.3	25.8	25.3	24.5
95°	50.5	50.5	50.5	50.5	50.5	50.3	49.9	49.4	49.0	48.6	47.6
97.5°	79.1	79.1	79.1	79.1	79.1	78.9	78.4	77.8	77.3	76.8	75.7
100°	99.0	99.0	99.0	99.0	99.0	98.9	98.6	98.3	98.1	97.8	96.5
102.5°	121.6	121.4	121.3	121.2	121.1	120.8	120.5	120.0	119.7	119.2	118.0
105°	155.9	155.5	155.1	154.6	154.2	153.8	153.3	152.9	152.5	152.1	151.5
107.5°	189.4	189.4	189.5	189.5	189.5	189.3	188.9	188.6	188.1	187.8	187.7
110°	213.4	213.0	212.6	212.2	211.7	211.6	212.0	212.2	212.5	212.8	212.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	238.0	237.9	237.8	237.7	237.6	237.6	237.6	237.7	237.8	237.8	238.1
115°	276.0	276.2	276.4	276.5	276.6	276.7	276.9	277.1	277.2	277.3	277.6
117.5°	312.4	312.6	312.9	313.2	313.5	313.8	314.4	314.9	315.3	315.8	316.0
120°	339.9	339.7	339.4	339.1	338.8	339.1	339.8	340.4	341.1	341.9	342.3
122.5°	363.0	363.5	363.9	364.5	365.0	365.5	366.0	366.4	367.0	367.5	367.6
125°	402.6	402.9	403.1	403.5	403.7	404.0	404.3	404.6	404.8	405.1	405.3
127.5°	439.3	439.5	439.7	440.0	440.1	440.4	440.7	441.0	441.3	441.6	441.8
130°	463.3	463.8	464.4	465.0	465.5	466.0	466.2	466.6	466.8	467.1	467.1
132.5°	488.9	489.0	489.3	489.6	489.7	490.0	490.3	490.6	490.9	491.1	491.3
135°	524.0	524.4	524.9	525.3	525.7	526.1	526.3	526.6	526.9	527.2	527.2
137.5°	560.9	560.9	560.8	560.7	560.6	560.8	561.1	561.5	561.8	562.2	562.0
140°	583.4	583.6	583.7	583.8	584.0	584.1	584.3	584.4	584.5	584.7	584.7
142.5°	605.9	606.0	606.0	606.0	606.1	606.1	606.1	606.1	606.1	606.1	606.3
145°	636.5	636.9	637.3	637.7	638.2	638.4	638.6	638.8	638.9	639.0	638.9
147.5°	667.4	667.5	667.7	667.8	668.0	668.0	668.2	668.3	668.4	668.6	668.7
150°	686.3	686.5	686.6	686.7	686.9	687.0	687.0	687.0	687.0	687.0	687.0
152.5°	703.7	704.0	704.5	704.8	705.2	705.2	704.8	704.5	704.1	703.8	703.7
155°	727.9	728.4	729.0	729.5	730.1	730.1	729.5	729.0	728.4	727.9	728.0
157.5°	749.4	749.9	750.4	750.9	751.4	751.4	751.0	750.5	750.1	749.7	749.8
160°	761.7	762.4	763.1	763.9	764.6	764.7	764.3	763.9	763.4	763.0	763.1
162.5°	774.5	775.2	775.9	776.6	777.3	777.3	776.5	775.8	775.0	774.2	774.4
165°	791.1	791.7	792.2	792.8	793.4	793.2	792.4	791.5	790.7	789.8	790.1
167.5°	803.0	803.9	804.8	805.6	806.5	806.5	805.6	804.9	804.0	803.1	803.1
170°	809.7	810.6	811.7	812.6	813.6	813.7	812.9	812.0	811.1	810.3	810.1
172.5°	815.3	816.2	817.3	818.2	819.2	819.2	818.3	817.3	816.4	815.4	815.4
175°	821.1	822.2	823.1	824.1	825.1	825.1	824.1	823.1	822.2	821.1	821.3
177.5°	824.2	825.1	826.0	826.9	827.9	827.9	827.1	826.3	825.5	824.8	824.8
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1483.1	1476.4	1471.6	1467.8	1457.3	1451.1	1446.4	1439.7	1432.1	1424.0	1414.0
5°	1567.2	1547.0	1532.1	1509.5	1488.1	1470.2	1451.7	1435.0	1414.8	1392.8	1376.7
7.5°	1655.6	1625.6	1587.0	1553.5	1515.9	1483.2	1453.9	1423.8	1392.7	1362.4	1334.7
10°	1711.8	1673.2	1630.3	1579.7	1532.1	1489.8	1450.5	1412.5	1375.5	1338.6	1307.1
12.5°	1772.3	1724.1	1660.8	1601.6	1548.3	1491.8	1444.3	1397.7	1353.1	1314.3	1277.6
15°	1853.5	1783.8	1710.6	1631.5	1561.3	1495.2	1430.3	1371.4	1321.4	1270.1	1234.5
17.5°	1903.4	1817.2	1733.5	1650.8	1565.7	1482.5	1412.5	1344.5	1281.9	1231.1	1186.0
20°	1936.2	1850.5	1746.4	1663.6	1562.5	1476.7	1395.8	1320.2	1254.7	1200.6	1154.1
22.5°	1964.8	1865.8	1761.6	1652.7	1552.0	1461.0	1372.4	1296.4	1229.5	1172.4	1127.9
25°	1980.3	1866.6	1753.5	1645.2	1530.9	1423.1	1342.8	1253.5	1182.1	1122.0	1074.4
27.5°	1981.9	1860.4	1732.4	1612.1	1494.1	1393.8	1292.4	1212.5	1138.4	1074.9	1029.2
30°	1976.7	1849.9	1712.4	1582.1	1463.6	1354.7	1266.6	1179.7	1104.1	1041.0	993.4
32.5°	1960.1	1828.0	1686.7	1548.8	1426.0	1319.5	1228.6	1145.9	1072.2	1010.0	960.1
35°	1911.9	1781.5	1630.9	1487.5	1361.8	1254.1	1172.0	1088.0	1014.3	955.3	907.1
37.5°	1836.5	1718.6	1565.6	1417.1	1293.7	1185.5	1104.1	1028.3	961.7	901.9	852.5
40°	1770.7	1667.2	1513.6	1369.0	1235.7	1132.7	1056.5	986.9	920.8	864.3	817.3
42.5°	1695.1	1604.8	1463.2	1309.9	1181.4	1078.0	1003.7	941.2	878.9	826.6	779.6
45°	1560.0	1500.6	1367.2	1225.5	1091.7	994.0	923.2	868.4	816.1	764.8	725.6
47.5°	1404.8	1375.3	1263.1	1128.5	1001.4	905.2	843.8	793.2	747.3	703.9	669.3
50°	1300.5	1286.2	1189.2	1059.5	938.1	847.6	785.7	742.3	702.9	664.9	632.1
52.5°	1197.7	1197.2	1109.7	990.9	878.6	791.4	730.0	689.4	655.3	624.4	595.0
55°	1040.4	1057.1	988.7	882.7	782.1	703.5	648.2	611.9	588.1	562.5	540.4
57.5°	896.0	923.7	867.2	773.9	690.0	617.6	569.4	542.1	516.8	501.3	485.3
60°	801.8	827.9	783.9	705.3	626.2	564.3	518.4	494.0	472.0	461.3	450.0
62.5°	718.0	741.3	708.7	635.8	567.1	507.6	468.9	445.5	430.6	418.9	411.4
65°	598.2	617.9	589.9	536.9	477.9	430.3	398.8	380.3	366.1	361.3	352.9
67.5°	483.5	501.4	486.3	441.3	394.0	358.0	333.3	315.6	307.1	303.0	297.0
70°	415.4	433.3	417.2	378.0	341.6	311.3	288.1	277.9	269.1	267.3	258.9
72.5°	357.8	370.0	354.0	323.2	292.1	266.6	248.6	238.0	233.3	230.1	225.6
75°	268.5	279.1	268.5	244.6	222.6	204.7	189.2	185.1	179.8	178.0	175.0
77.5°	190.0	199.2	191.1	176.2	159.7	145.9	137.6	132.2	131.0	127.9	129.4
80°	145.3	151.2	143.4	133.4	120.2	110.7	104.8	101.8	98.2	97.0	99.4
82.5°	104.3	106.9	103.0	96.2	86.4	80.2	76.2	72.8	72.0	72.2	72.2
85°	54.2	53.6	53.0	47.0	44.1	39.9	37.5	36.9	36.3	37.5	38.7
87.5°	20.5	20.7	20.0	17.8	16.1	14.4	13.5	12.7	13.5	14.4	15.2
90°	11.8	10.7	9.6	8.2	6.6	5.1	3.4	1.9	3.4	5.1	6.6
92.5°	23.7	22.9	22.1	20.8	19.0	17.2	15.5	13.7	15.5	17.2	19.0
95°	46.6	45.5	44.6	43.5	42.2	40.9	39.6	38.3	39.6	40.9	42.2
97.5°	74.5	73.4	72.2	71.0	70.0	69.1	68.0	67.0	68.0	69.1	70.0
100°	95.2	93.9	92.6	91.7	91.2	90.6	90.1	89.5	90.1	90.6	91.2
102.5°	116.9	115.7	114.6	113.9	113.7	113.4	113.2	113.0	113.2	113.4	113.7
105°	150.9	150.4	149.8	149.5	149.3	149.2	149.0	148.9	149.0	149.2	149.3
107.5°	187.6	187.5	187.4	187.3	187.1	186.9	186.8	186.6	186.8	186.9	187.1
110°	213.1	213.2	213.4	213.3	213.0	212.8	212.4	212.2	212.4	212.8	213.0



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	238.3	238.6	238.8	238.9	238.9	238.8	238.8	238.8	238.8	238.8	238.9
115°	277.9	278.2	278.4	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6
117.5°	316.2	316.4	316.6	316.7	316.5	316.4	316.3	316.2	316.3	316.4	316.5
120°	342.8	343.2	343.5	343.5	342.9	342.3	341.8	341.2	341.8	342.3	342.9
122.5°	367.8	368.1	368.2	368.2	368.0	367.7	367.6	367.3	367.6	367.7	368.0
125°	405.4	405.5	405.7	405.8	405.8	405.8	405.8	405.8	405.8	405.8	405.8
127.5°	442.0	442.2	442.5	442.4	442.0	441.5	441.1	440.7	441.1	441.5	442.0
130°	467.1	467.1	467.1	466.9	466.5	466.1	465.6	465.2	465.6	466.1	466.5
132.5°	491.4	491.5	491.6	491.5	491.2	490.9	490.6	490.3	490.6	490.9	491.2
135°	527.2	527.2	527.2	526.8	525.9	525.0	524.2	523.4	524.2	525.0	525.9
137.5°	561.7	561.5	561.3	561.0	560.6	560.2	559.8	559.4	559.8	560.2	560.6
140°	584.7	584.7	584.7	584.5	584.3	584.0	583.7	583.4	583.7	584.0	584.3
142.5°	606.4	606.5	606.7	606.6	606.2	606.0	605.7	605.4	605.7	606.0	606.2
145°	638.8	638.6	638.4	638.1	637.6	637.0	636.4	635.8	636.4	637.0	637.6
147.5°	668.7	668.9	669.0	668.7	668.0	667.4	666.7	666.0	666.7	667.4	668.0
150°	687.0	687.0	687.0	686.6	686.1	685.5	684.9	684.4	684.9	685.5	686.1
152.5°	703.6	703.4	703.4	703.2	702.8	702.5	702.1	701.8	702.1	702.5	702.8
155°	728.1	728.2	728.4	728.5	728.5	728.5	728.5	728.5	728.5	728.5	728.5
157.5°	749.8	749.8	749.8	749.9	750.2	750.4	750.7	751.0	750.7	750.4	750.2
160°	763.3	763.4	763.5	763.7	763.9	764.0	764.1	764.3	764.1	764.0	763.9
162.5°	774.6	774.6	774.8	775.1	775.4	775.8	776.2	776.5	776.2	775.8	775.4
165°	790.4	790.7	791.0	791.3	791.8	792.2	792.6	793.1	792.6	792.2	791.8
167.5°	803.1	803.1	803.0	803.3	803.9	804.5	805.1	805.6	805.1	804.5	803.9
170°	810.0	809.9	809.7	810.0	810.7	811.4	812.1	812.9	812.1	811.4	810.7
172.5°	815.4	815.3	815.3	815.5	816.1	816.7	817.3	817.9	817.3	816.7	816.1
175°	821.4	821.6	821.7	822.2	822.9	823.5	824.2	825.0	824.2	823.5	822.9
177.5°	824.8	824.8	824.8	825.0	825.6	826.1	826.7	827.2	826.7	826.1	825.6
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1409.2	1405.0	1398.8	1390.2	1383.0	1375.4	1373.6	1370.6	1376.4	1371.6	1370.2
5°	1363.0	1350.6	1334.5	1316.0	1305.3	1289.9	1286.9	1280.9	1275.0	1274.4	1268.4
7.5°	1314.1	1295.8	1274.7	1255.9	1238.5	1221.6	1210.6	1208.2	1199.4	1194.2	1188.3
10°	1282.7	1260.1	1235.7	1217.8	1197.6	1179.7	1167.3	1160.1	1154.1	1147.5	1141.6
12.5°	1245.5	1221.5	1201.4	1182.1	1158.0	1144.4	1123.9	1111.5	1110.3	1110.4	1094.9
15°	1202.3	1178.5	1147.5	1120.2	1107.1	1080.9	1069.6	1055.3	1046.4	1037.4	1030.4
17.5°	1153.0	1123.3	1099.2	1067.7	1042.7	1021.8	1007.0	998.4	985.0	972.3	963.2
20°	1122.0	1090.5	1064.8	1031.5	1004.1	978.5	966.0	954.2	944.0	933.3	923.2
22.5°	1090.5	1057.6	1026.2	993.9	968.5	941.4	929.4	913.2	903.5	897.6	887.4
25°	1041.0	1005.3	969.6	938.7	912.5	888.6	872.6	860.1	849.4	844.6	838.1
27.5°	987.2	951.7	917.2	882.1	852.4	835.1	822.3	812.8	806.7	800.3	797.4
30°	953.0	916.0	879.2	846.4	819.0	801.8	789.9	783.3	778.5	775.6	772.6
32.5°	918.2	881.8	842.9	813.0	788.5	773.2	764.1	757.6	755.2	754.1	753.0
35°	862.5	825.5	789.9	763.1	739.9	733.9	726.2	722.6	721.4	725.6	727.4
37.5°	808.6	774.3	741.4	715.4	700.3	691.6	688.9	689.1	693.3	697.0	701.3
40°	773.8	740.5	709.5	686.9	672.6	667.3	666.1	669.0	673.8	678.0	682.7
42.5°	739.9	707.1	679.0	657.8	647.8	642.9	643.7	646.6	653.3	658.4	665.6
45°	687.5	660.1	632.7	615.4	607.1	608.3	608.3	613.6	620.2	627.9	635.7
47.5°	638.1	610.4	588.0	573.4	569.1	568.1	571.4	578.4	587.8	597.4	608.2
50°	604.8	578.5	558.9	545.8	541.1	542.9	547.6	554.1	565.4	577.4	588.7
52.5°	570.9	547.1	528.9	516.8	513.4	516.7	521.4	531.8	541.7	554.5	568.2
55°	518.4	498.2	483.9	475.0	473.8	475.6	481.0	492.2	506.5	522.6	535.7
57.5°	466.1	449.3	436.2	430.0	430.6	432.2	441.1	454.5	469.8	486.9	503.8
60°	430.9	415.4	404.8	400.0	400.5	404.2	414.8	427.4	446.4	463.0	481.0
62.5°	397.6	384.0	373.8	369.5	368.7	376.5	386.8	399.8	418.8	437.4	456.7
65°	344.1	333.3	325.0	322.6	324.4	330.4	343.5	360.7	376.8	396.4	416.6
67.5°	291.6	282.8	277.2	278.2	280.3	289.1	300.1	315.0	333.2	353.5	373.6
70°	258.3	249.9	245.2	245.8	249.4	260.1	269.7	284.5	304.2	325.0	341.6
72.5°	224.0	218.5	214.3	216.8	220.3	227.7	239.6	254.5	271.8	291.2	308.8
75°	172.0	172.0	169.6	171.4	176.8	183.9	192.9	208.4	225.6	241.1	255.4
77.5°	127.6	126.3	127.9	130.0	133.1	141.5	151.8	162.8	175.8	191.3	203.1
80°	97.6	98.2	101.2	104.8	106.0	112.5	123.2	133.4	143.4	156.5	167.8
82.5°	73.4	74.0	75.5	80.0	81.2	88.3	95.1	105.2	114.4	123.2	132.6
85°	39.9	39.9	42.9	44.6	47.6	52.3	56.6	62.5	70.9	76.8	85.7
87.5°	16.9	17.1	19.3	20.5	22.1	24.7	25.8	31.3	33.3	35.9	40.3
90°	8.2	9.6	10.7	11.8	12.9	14.0	14.9	15.8	16.6	17.5	18.0
92.5°	20.8	22.1	22.9	23.7	24.5	25.3	25.8	26.3	26.9	27.4	27.7
95°	43.5	44.6	45.5	46.6	47.6	48.6	49.0	49.4	49.9	50.3	50.5
97.5°	71.0	72.2	73.4	74.5	75.7	76.8	77.3	77.8	78.4	78.9	79.1
100°	91.7	92.6	93.9	95.2	96.5	97.8	98.1	98.3	98.6	98.9	99.0
102.5°	113.9	114.6	115.7	116.9	118.0	119.2	119.7	120.0	120.5	120.8	121.1
105°	149.5	149.8	150.4	150.9	151.5	152.1	152.5	152.9	153.3	153.8	154.2
107.5°	187.3	187.4	187.5	187.6	187.7	187.8	188.1	188.6	188.9	189.3	189.5
110°	213.3	213.4	213.2	213.1	212.9	212.8	212.5	212.2	212.0	211.6	211.7



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.9	238.8	238.6	238.3	238.1	237.8	237.8	237.7	237.6	237.6	237.6
115°	278.6	278.4	278.2	277.9	277.6	277.3	277.2	277.1	276.9	276.7	276.6
117.5°	316.7	316.6	316.4	316.2	316.0	315.8	315.3	314.9	314.4	313.8	313.5
120°	343.5	343.5	343.2	342.8	342.3	341.9	341.1	340.4	339.8	339.1	338.8
122.5°	368.2	368.2	368.1	367.8	367.6	367.5	367.0	366.4	366.0	365.5	365.0
125°	405.8	405.7	405.5	405.4	405.3	405.1	404.8	404.6	404.3	404.0	403.7
127.5°	442.4	442.5	442.2	442.0	441.8	441.6	441.3	441.0	440.7	440.4	440.1
130°	466.9	467.1	467.1	467.1	467.1	467.1	466.8	466.6	466.2	466.0	465.5
132.5°	491.5	491.6	491.5	491.4	491.3	491.1	490.9	490.6	490.3	490.0	489.7
135°	526.8	527.2	527.2	527.2	527.2	527.2	526.9	526.6	526.3	526.1	525.7
137.5°	561.0	561.3	561.5	561.7	562.0	562.2	561.8	561.5	561.1	560.8	560.6
140°	584.5	584.7	584.7	584.7	584.7	584.7	584.5	584.4	584.3	584.1	584.0
142.5°	606.6	606.7	606.5	606.4	606.3	606.1	606.1	606.1	606.1	606.1	606.1
145°	638.1	638.4	638.6	638.8	638.9	639.0	638.9	638.8	638.6	638.4	638.2
147.5°	668.7	669.0	668.9	668.7	668.7	668.6	668.4	668.3	668.2	668.0	668.0
150°	686.6	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	686.9
152.5°	703.2	703.4	703.4	703.6	703.7	703.8	704.1	704.5	704.8	705.2	705.2
155°	728.5	728.4	728.2	728.1	728.0	727.9	728.4	729.0	729.5	730.1	730.1
157.5°	749.9	749.8	749.8	749.8	749.8	749.7	750.1	750.5	751.0	751.4	751.4
160°	763.7	763.5	763.4	763.3	763.1	763.0	763.4	763.9	764.3	764.7	764.6
162.5°	775.1	774.8	774.6	774.6	774.4	774.2	775.0	775.8	776.5	777.3	777.3
165°	791.3	791.0	790.7	790.4	790.1	789.8	790.7	791.5	792.4	793.2	793.4
167.5°	803.3	803.0	803.1	803.1	803.1	803.1	804.0	804.9	805.6	806.5	806.5
170°	810.0	809.7	809.9	810.0	810.1	810.3	811.1	812.0	812.9	813.7	813.6
172.5°	815.5	815.3	815.3	815.4	815.4	815.4	816.4	817.3	818.3	819.2	819.2
175°	822.2	821.7	821.6	821.4	821.3	821.1	822.2	823.1	824.1	825.1	825.1
177.5°	825.0	824.8	824.8	824.8	824.8	824.8	825.5	826.3	827.1	827.9	827.9
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1369.2	1368.3	1364.9	1364.5	1364.9	1368.3	1369.2	1370.2	1371.6	1376.4	1370.6
5°	1264.8	1261.9	1260.1	1266.6	1260.1	1261.9	1264.8	1268.4	1274.4	1275.0	1280.9
7.5°	1186.1	1183.8	1178.5	1176.9	1178.5	1183.8	1186.1	1188.3	1194.2	1199.4	1208.2
10°	1135.7	1133.2	1128.5	1127.3	1128.5	1133.2	1135.7	1141.6	1147.5	1154.1	1160.1
12.5°	1087.1	1082.4	1081.4	1082.5	1081.4	1082.4	1087.1	1094.9	1110.4	1110.3	1111.5
15°	1022.6	1020.2	1013.7	1015.5	1013.7	1020.2	1022.6	1030.4	1037.4	1046.4	1055.3
17.5°	959.0	956.1	948.2	955.2	948.2	956.1	959.0	963.2	972.3	985.0	998.4
20°	919.0	914.2	910.1	909.5	910.1	914.2	919.0	923.2	933.3	944.0	954.2
22.5°	880.9	876.7	876.2	872.4	876.2	876.7	880.9	887.4	897.6	903.5	913.2
25°	833.3	829.1	827.9	825.0	827.9	829.1	833.3	838.1	844.6	849.4	860.1
27.5°	796.8	794.7	792.6	793.5	792.6	794.7	796.8	797.4	800.3	806.7	812.8
30°	774.4	773.8	772.6	772.6	772.6	773.8	774.4	772.6	775.6	778.5	783.3
32.5°	755.8	755.7	756.4	756.4	756.4	755.7	755.8	753.0	754.1	755.2	757.6
35°	729.7	731.5	732.7	730.9	732.7	731.5	729.7	727.4	725.6	721.4	722.6
37.5°	706.2	707.9	709.6	711.6	709.6	707.9	706.2	701.3	697.0	693.3	689.1
40°	688.0	692.2	693.4	696.4	693.4	692.2	688.0	682.7	678.0	673.8	669.0
42.5°	670.9	675.5	678.6	679.2	678.6	675.5	670.9	665.6	658.4	653.3	646.6
45°	644.6	649.4	653.6	653.6	653.6	649.4	644.6	635.7	627.9	620.2	613.6
47.5°	617.3	624.2	628.4	629.5	628.4	624.2	617.3	608.2	597.4	587.8	578.4
50°	598.8	607.1	611.3	614.2	611.3	607.1	598.8	588.7	577.4	565.4	554.1
52.5°	580.7	589.0	594.6	596.2	594.6	589.0	580.7	568.2	554.5	541.7	531.8
55°	549.4	561.3	567.8	570.2	567.8	561.3	549.4	535.7	522.6	506.5	492.2
57.5°	519.9	530.8	538.5	540.2	538.5	530.8	519.9	503.8	486.9	469.8	454.5
60°	497.0	508.9	518.4	520.2	518.4	508.9	497.0	481.0	463.0	446.4	427.4
62.5°	473.6	486.0	494.6	499.3	494.6	486.0	473.6	456.7	437.4	418.8	399.8
65°	433.3	445.8	454.2	455.9	454.2	445.8	433.3	416.6	396.4	376.8	360.7
67.5°	389.3	401.7	407.3	410.7	407.3	401.7	389.3	373.6	353.5	333.2	315.0
70°	358.3	368.4	374.4	377.4	374.4	368.4	358.3	341.6	325.0	304.2	284.5
72.5°	323.0	333.6	340.6	341.2	340.6	333.6	323.0	308.8	291.2	271.8	254.5
75°	269.1	278.5	282.1	282.1	282.1	278.5	269.1	255.4	241.1	225.6	208.4
77.5°	212.9	217.8	222.4	223.3	222.4	217.8	212.9	203.1	191.3	175.8	162.8
80°	176.8	179.8	183.3	183.3	183.3	179.8	176.8	167.8	156.5	143.4	133.4
82.5°	139.7	142.2	145.7	145.3	145.7	142.2	139.7	132.6	123.2	114.4	105.2
85°	84.6	89.9	89.3	88.1	89.3	89.9	84.6	85.7	76.8	70.9	62.5
87.5°	41.8	42.3	43.7	44.8	43.7	42.3	41.8	40.3	35.9	33.3	31.3
90°	18.3	18.6	18.9	19.2	18.9	18.6	18.3	18.0	17.5	16.6	15.8
92.5°	27.9	28.1	28.2	28.4	28.2	28.1	27.9	27.7	27.4	26.9	26.3
95°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.3	49.9	49.4
97.5°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	78.9	78.4	77.8
100°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	98.9	98.6	98.3
102.5°	121.2	121.3	121.4	121.6	121.4	121.3	121.2	121.1	120.8	120.5	120.0
105°	154.6	155.1	155.5	155.9	155.5	155.1	154.6	154.2	153.8	153.3	152.9
107.5°	189.5	189.5	189.4	189.4	189.4	189.5	189.5	189.5	189.3	188.9	188.6
110°	212.2	212.6	213.0	213.4	213.0	212.6	212.2	211.7	211.6	212.0	212.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	237.7	237.8	237.9	238.0	237.9	237.8	237.7	237.6	237.6	237.6	237.7
115°	276.5	276.4	276.2	276.0	276.2	276.4	276.5	276.6	276.7	276.9	277.1
117.5°	313.2	312.9	312.6	312.4	312.6	312.9	313.2	313.5	313.8	314.4	314.9
120°	339.1	339.4	339.7	339.9	339.7	339.4	339.1	338.8	339.1	339.8	340.4
122.5°	364.5	363.9	363.5	363.0	363.5	363.9	364.5	365.0	365.5	366.0	366.4
125°	403.5	403.1	402.9	402.6	402.9	403.1	403.5	403.7	404.0	404.3	404.6
127.5°	440.0	439.7	439.5	439.3	439.5	439.7	440.0	440.1	440.4	440.7	441.0
130°	465.0	464.4	463.8	463.3	463.8	464.4	465.0	465.5	466.0	466.2	466.6
132.5°	489.6	489.3	489.0	488.9	489.0	489.3	489.6	489.7	490.0	490.3	490.6
135°	525.3	524.9	524.4	524.0	524.4	524.9	525.3	525.7	526.1	526.3	526.6
137.5°	560.7	560.8	560.9	560.9	560.9	560.8	560.7	560.6	560.8	561.1	561.5
140°	583.8	583.7	583.6	583.4	583.6	583.7	583.8	584.0	584.1	584.3	584.4
142.5°	606.0	606.0	606.0	605.9	606.0	606.0	606.0	606.1	606.1	606.1	606.1
145°	637.7	637.3	636.9	636.5	636.9	637.3	637.7	638.2	638.4	638.6	638.8
147.5°	667.8	667.7	667.5	667.4	667.5	667.7	667.8	668.0	668.0	668.2	668.3
150°	686.7	686.6	686.5	686.3	686.5	686.6	686.7	686.9	687.0	687.0	687.0
152.5°	704.8	704.5	704.0	703.7	704.0	704.5	704.8	705.2	705.2	704.8	704.5
155°	729.5	729.0	728.4	727.9	728.4	729.0	729.5	730.1	730.1	729.5	729.0
157.5°	750.9	750.4	749.9	749.4	749.9	750.4	750.9	751.4	751.4	751.0	750.5
160°	763.9	763.1	762.4	761.7	762.4	763.1	763.9	764.6	764.7	764.3	763.9
162.5°	776.6	775.9	775.2	774.5	775.2	775.9	776.6	777.3	777.3	776.5	775.8
165°	792.8	792.2	791.7	791.1	791.7	792.2	792.8	793.4	793.2	792.4	791.5
167.5°	805.6	804.8	803.9	803.0	803.9	804.8	805.6	806.5	806.5	805.6	804.9
170°	812.6	811.7	810.6	809.7	810.6	811.7	812.6	813.6	813.7	812.9	812.0
172.5°	818.2	817.3	816.2	815.3	816.2	817.3	818.2	819.2	819.2	818.3	817.3
175°	824.1	823.1	822.2	821.1	822.2	823.1	824.1	825.1	825.1	824.1	823.1
177.5°	826.9	826.0	825.1	824.2	825.1	826.0	826.9	827.9	827.9	827.1	826.3
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1373.6	1375.4	1383.0	1390.2	1398.8	1405.0	1409.2	1414.0	1424.0	1432.1	1439.7
5°	1286.9	1289.9	1305.3	1316.0	1334.5	1350.6	1363.0	1376.7	1392.8	1414.8	1435.0
7.5°	1210.6	1221.6	1238.5	1255.9	1274.7	1295.8	1314.1	1334.7	1362.4	1392.7	1423.8
10°	1167.3	1179.7	1197.6	1217.8	1235.7	1260.1	1282.7	1307.1	1338.6	1375.5	1412.5
12.5°	1123.9	1144.4	1158.0	1182.1	1201.4	1221.5	1245.5	1277.6	1314.3	1353.1	1397.7
15°	1069.6	1080.9	1107.1	1120.2	1147.5	1178.5	1202.3	1234.5	1270.1	1321.4	1371.4
17.5°	1007.0	1021.8	1042.7	1067.7	1099.2	1123.3	1153.0	1186.0	1231.1	1281.9	1344.5
20°	966.0	978.5	1004.1	1031.5	1064.8	1090.5	1122.0	1154.1	1200.6	1254.7	1320.2
22.5°	929.4	941.4	968.5	993.9	1026.2	1057.6	1090.5	1127.9	1172.4	1229.5	1296.4
25°	872.6	888.6	912.5	938.7	969.6	1005.3	1041.0	1074.4	1122.0	1182.1	1253.5
27.5°	822.3	835.1	852.4	882.1	917.2	951.7	987.2	1029.2	1074.9	1138.4	1212.5
30°	789.9	801.8	819.0	846.4	879.2	916.0	953.0	993.4	1041.0	1104.1	1179.7
32.5°	764.1	773.2	788.5	813.0	842.9	881.8	918.2	960.1	1010.0	1072.2	1145.9
35°	726.2	733.9	739.9	763.1	789.9	825.5	862.5	907.1	955.3	1014.3	1088.0
37.5°	688.9	691.6	700.3	715.4	741.4	774.3	808.6	852.5	901.9	961.7	1028.3
40°	666.1	667.3	672.6	686.9	709.5	740.5	773.8	817.3	864.3	920.8	986.9
42.5°	643.7	642.9	647.8	657.8	679.0	707.1	739.9	779.6	826.6	878.9	941.2
45°	608.3	608.3	607.1	615.4	632.7	660.1	687.5	725.6	764.8	816.1	868.4
47.5°	571.4	568.1	569.1	573.4	588.0	610.4	638.1	669.3	703.9	747.3	793.2
50°	547.6	542.9	541.1	545.8	558.9	578.5	604.8	632.1	664.9	702.9	742.3
52.5°	521.4	516.7	513.4	516.8	528.9	547.1	570.9	595.0	624.4	655.3	689.4
55°	481.0	475.6	473.8	475.0	483.9	498.2	518.4	540.4	562.5	588.1	611.9
57.5°	441.1	432.2	430.6	430.0	436.2	449.3	466.1	485.3	501.3	516.8	542.1
60°	414.8	404.2	400.5	400.0	404.8	415.4	430.9	450.0	461.3	472.0	494.0
62.5°	386.8	376.5	368.7	369.5	373.8	384.0	397.6	411.4	418.9	430.6	445.5
65°	343.5	330.4	324.4	322.6	325.0	333.3	344.1	352.9	361.3	366.1	380.3
67.5°	300.1	289.1	280.3	278.2	277.2	282.8	291.6	297.0	303.0	307.1	315.6
70°	269.7	260.1	249.4	245.8	245.2	249.9	258.3	258.9	267.3	269.1	277.9
72.5°	239.6	227.7	220.3	216.8	214.3	218.5	224.0	225.6	230.1	233.3	238.0
75°	192.9	183.9	176.8	171.4	169.6	172.0	172.0	175.0	178.0	179.8	185.1
77.5°	151.8	141.5	133.1	130.0	127.9	126.3	127.6	129.4	127.9	131.0	132.2
80°	123.2	112.5	106.0	104.8	101.2	98.2	97.6	99.4	97.0	98.2	101.8
82.5°	95.1	88.3	81.2	80.0	75.5	74.0	73.4	72.2	72.2	72.0	72.8
85°	56.6	52.3	47.6	44.6	42.9	39.9	39.9	38.7	37.5	36.3	36.9
87.5°	25.8	24.7	22.1	20.5	19.3	17.1	16.9	15.2	14.4	13.5	12.7
90°	14.9	14.0	12.9	11.8	10.7	9.6	8.2	6.6	5.1	3.4	1.9
92.5°	25.8	25.3	24.5	23.7	22.9	22.1	20.8	19.0	17.2	15.5	13.7
95°	49.0	48.6	47.6	46.6	45.5	44.6	43.5	42.2	40.9	39.6	38.3
97.5°	77.3	76.8	75.7	74.5	73.4	72.2	71.0	70.0	69.1	68.0	67.0
100°	98.1	97.8	96.5	95.2	93.9	92.6	91.7	91.2	90.6	90.1	89.5
102.5°	119.7	119.2	118.0	116.9	115.7	114.6	113.9	113.7	113.4	113.2	113.0
105°	152.5	152.1	151.5	150.9	150.4	149.8	149.5	149.3	149.2	149.0	148.9
107.5°	188.1	187.8	187.7	187.6	187.5	187.4	187.3	187.1	186.9	186.8	186.6
110°	212.5	212.8	212.9	213.1	213.2	213.4	213.3	213.0	212.8	212.4	212.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	237.8	238.1	238.3	238.6	238.8	238.9	238.9	238.8	238.8	238.8
115°	277.2	277.3	277.6	277.9	278.2	278.4	278.6	278.6	278.6	278.6	278.6
117.5°	315.3	315.8	316.0	316.2	316.4	316.6	316.7	316.5	316.4	316.3	316.2
120°	341.1	341.9	342.3	342.8	343.2	343.5	343.5	342.9	342.3	341.8	341.2
122.5°	367.0	367.5	367.6	367.8	368.1	368.2	368.2	368.0	367.7	367.6	367.3
125°	404.8	405.1	405.3	405.4	405.5	405.7	405.8	405.8	405.8	405.8	405.8
127.5°	441.3	441.6	441.8	442.0	442.2	442.5	442.4	442.0	441.5	441.1	440.7
130°	466.8	467.1	467.1	467.1	467.1	467.1	466.9	466.5	466.1	465.6	465.2
132.5°	490.9	491.1	491.3	491.4	491.5	491.6	491.5	491.2	490.9	490.6	490.3
135°	526.9	527.2	527.2	527.2	527.2	527.2	526.8	525.9	525.0	524.2	523.4
137.5°	561.8	562.2	562.0	561.7	561.5	561.3	561.0	560.6	560.2	559.8	559.4
140°	584.5	584.7	584.7	584.7	584.7	584.7	584.5	584.3	584.0	583.7	583.4
142.5°	606.1	606.1	606.3	606.4	606.5	606.7	606.6	606.2	606.0	605.7	605.4
145°	638.9	639.0	638.9	638.8	638.6	638.4	638.1	637.6	637.0	636.4	635.8
147.5°	668.4	668.6	668.7	668.7	668.9	669.0	668.7	668.0	667.4	666.7	666.0
150°	687.0	687.0	687.0	687.0	687.0	687.0	686.6	686.1	685.5	684.9	684.4
152.5°	704.1	703.8	703.7	703.6	703.4	703.4	703.2	702.8	702.5	702.1	701.8
155°	728.4	727.9	728.0	728.1	728.2	728.4	728.5	728.5	728.5	728.5	728.5
157.5°	750.1	749.7	749.8	749.8	749.8	749.8	749.9	750.2	750.4	750.7	751.0
160°	763.4	763.0	763.1	763.3	763.4	763.5	763.7	763.9	764.0	764.1	764.3
162.5°	775.0	774.2	774.4	774.6	774.6	774.8	775.1	775.4	775.8	776.2	776.5
165°	790.7	789.8	790.1	790.4	790.7	791.0	791.3	791.8	792.2	792.6	793.1
167.5°	804.0	803.1	803.1	803.1	803.1	803.0	803.3	803.9	804.5	805.1	805.6
170°	811.1	810.3	810.1	810.0	809.9	809.7	810.0	810.7	811.4	812.1	812.9
172.5°	816.4	815.4	815.4	815.4	815.3	815.3	815.5	816.1	816.7	817.3	817.9
175°	822.2	821.1	821.3	821.4	821.6	821.7	822.2	822.9	823.5	824.2	825.0
177.5°	825.5	824.8	824.8	824.8	824.8	824.8	825.0	825.6	826.1	826.7	827.2
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



TEST NUMBER: P332812-935

CATALOG NUMBER: S124DIW-S1020D770U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1446.4	1451.1	1457.3	1467.8	1471.6	1476.4	1483.1	1482.6	1484.5	1491.6	1506.8
5°	1451.7	1470.2	1488.1	1509.5	1532.1	1547.0	1567.2	1579.7	1592.2	1608.3	1635.6
7.5°	1453.9	1483.2	1515.9	1553.5	1587.0	1625.6	1655.6	1683.9	1709.6	1743.5	1776.2
10°	1450.5	1489.8	1532.1	1579.7	1630.3	1673.2	1711.8	1755.9	1793.4	1834.4	1871.4
12.5°	1444.3	1491.8	1548.3	1601.6	1660.8	1724.1	1772.3	1816.8	1866.7	1914.0	1970.9
15°	1430.3	1495.2	1561.3	1631.5	1710.6	1783.8	1853.5	1911.2	1964.8	2035.7	2110.1
17.5°	1412.5	1482.5	1565.7	1650.8	1733.5	1817.2	1903.4	1990.2	2057.8	2145.8	2204.0
20°	1395.8	1476.7	1562.5	1663.6	1746.4	1850.5	1936.2	2020.2	2113.0	2200.5	2270.1
22.5°	1372.4	1461.0	1552.0	1652.7	1761.6	1865.8	1964.8	2055.9	2148.7	2243.9	2328.2
25°	1342.8	1423.1	1530.9	1645.2	1753.5	1866.6	1980.3	2094.6	2194.5	2295.2	2373.7
27.5°	1292.4	1393.8	1494.1	1612.1	1732.4	1860.4	1981.9	2101.6	2206.3	2289.1	2337.8
30°	1266.6	1354.7	1463.6	1582.1	1712.4	1849.9	1976.7	2094.0	2191.6	2257.6	2277.3
32.5°	1228.6	1319.5	1426.0	1548.8	1686.7	1828.0	1960.1	2070.6	2152.1	2186.7	2163.0
35°	1172.0	1254.1	1361.8	1487.5	1630.9	1781.5	1911.9	2005.3	2046.9	2014.2	1932.7
37.5°	1104.1	1185.5	1293.7	1417.1	1565.6	1718.6	1836.5	1903.8	1889.9	1808.5	1687.0
40°	1056.5	1132.7	1235.7	1369.0	1513.6	1667.2	1770.7	1807.1	1769.0	1652.3	1523.2
42.5°	1003.7	1078.0	1181.4	1309.9	1463.2	1604.8	1695.1	1698.1	1634.2	1494.7	1365.0
45°	923.2	994.0	1091.7	1225.5	1367.2	1500.6	1560.0	1530.9	1413.1	1278.5	1148.1
47.5°	843.8	905.2	1001.4	1128.5	1263.1	1375.3	1404.8	1352.3	1226.8	1096.1	975.3
50°	785.7	847.6	938.1	1059.5	1189.2	1286.2	1300.5	1230.9	1107.7	976.1	881.5
52.5°	730.0	791.4	878.6	990.9	1109.7	1197.2	1197.7	1117.1	994.4	877.1	789.1
55°	648.2	703.5	782.1	882.7	988.7	1057.1	1040.4	957.1	850.6	748.8	672.0
57.5°	569.4	617.6	690.0	773.9	867.2	923.7	896.0	815.8	720.7	634.4	576.2
60°	518.4	564.3	626.2	705.3	783.9	827.9	801.8	729.1	641.6	572.0	521.4
62.5°	468.9	507.6	567.1	635.8	708.7	741.3	718.0	646.3	570.7	507.7	466.7
65°	398.8	430.3	477.9	536.9	589.9	617.9	598.2	531.5	473.8	428.5	395.8
67.5°	333.3	358.0	394.0	441.3	486.3	501.4	483.5	437.1	388.2	352.0	328.9
70°	288.1	311.3	341.6	378.0	417.2	433.3	415.4	378.6	338.7	305.3	282.8
72.5°	248.6	266.6	292.1	323.2	354.0	370.0	357.8	322.4	288.7	263.9	244.6
75°	189.2	204.7	222.6	244.6	268.5	279.1	268.5	244.0	220.8	202.3	188.6
77.5°	137.6	145.9	159.7	176.2	191.1	199.2	190.0	173.4	159.3	146.6	139.9
80°	104.8	110.7	120.2	133.4	143.4	151.2	145.3	131.6	120.2	111.9	108.9
82.5°	76.2	80.2	86.4	96.2	103.0	106.9	104.3	94.4	89.7	82.4	79.4
85°	37.5	39.9	44.1	47.0	53.0	53.6	54.2	50.0	45.8	44.1	41.7
87.5°	13.5	14.4	16.1	17.8	20.0	20.7	20.5	20.7	19.0	18.7	17.0
90°	3.4	5.1	6.6	8.2	9.6	10.7	11.8	12.9	14.0	14.9	15.8
92.5°	15.5	17.2	19.0	20.8	22.1	22.9	23.7	24.5	25.3	25.8	26.3
95°	39.6	40.9	42.2	43.5	44.6	45.5	46.6	47.6	48.6	49.0	49.4
97.5°	68.0	69.1	70.0	71.0	72.2	73.4	74.5	75.7	76.8	77.3	77.8
100°	90.1	90.6	91.2	91.7	92.6	93.9	95.2	96.5	97.8	98.1	98.3
102.5°	113.2	113.4	113.7	113.9	114.6	115.7	116.9	118.0	119.2	119.7	120.0
105°	149.0	149.2	149.3	149.5	149.8	150.4	150.9	151.5	152.1	152.5	152.9
107.5°	186.8	186.9	187.1	187.3	187.4	187.5	187.6	187.7	187.8	188.1	188.6
110°	212.4	212.8	213.0	213.3	213.4	213.2	213.1	212.9	212.8	212.5	212.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.8	238.8	238.9	238.9	238.8	238.6	238.3	238.1	237.8	237.8	237.7
115°	278.6	278.6	278.6	278.6	278.4	278.2	277.9	277.6	277.3	277.2	277.1
117.5°	316.3	316.4	316.5	316.7	316.6	316.4	316.2	316.0	315.8	315.3	314.9
120°	341.8	342.3	342.9	343.5	343.5	343.2	342.8	342.3	341.9	341.1	340.4
122.5°	367.6	367.7	368.0	368.2	368.2	368.1	367.8	367.6	367.5	367.0	366.4
125°	405.8	405.8	405.8	405.8	405.7	405.5	405.4	405.3	405.1	404.8	404.6
127.5°	441.1	441.5	442.0	442.4	442.5	442.2	442.0	441.8	441.6	441.3	441.0
130°	465.6	466.1	466.5	466.9	467.1	467.1	467.1	467.1	467.1	466.8	466.6
132.5°	490.6	490.9	491.2	491.5	491.6	491.5	491.4	491.3	491.1	490.9	490.6
135°	524.2	525.0	525.9	526.8	527.2	527.2	527.2	527.2	527.2	526.9	526.6
137.5°	559.8	560.2	560.6	561.0	561.3	561.5	561.7	562.0	562.2	561.8	561.5
140°	583.7	584.0	584.3	584.5	584.7	584.7	584.7	584.7	584.7	584.5	584.4
142.5°	605.7	606.0	606.2	606.6	606.7	606.5	606.4	606.3	606.1	606.1	606.1
145°	636.4	637.0	637.6	638.1	638.4	638.6	638.8	638.9	639.0	638.9	638.8
147.5°	666.7	667.4	668.0	668.7	669.0	668.9	668.7	668.7	668.6	668.4	668.3
150°	684.9	685.5	686.1	686.6	687.0	687.0	687.0	687.0	687.0	687.0	687.0
152.5°	702.1	702.5	702.8	703.2	703.4	703.4	703.6	703.7	703.8	704.1	704.5
155°	728.5	728.5	728.5	728.5	728.4	728.2	728.1	728.0	727.9	728.4	729.0
157.5°	750.7	750.4	750.2	749.9	749.8	749.8	749.8	749.8	749.7	750.1	750.5
160°	764.1	764.0	763.9	763.7	763.5	763.4	763.3	763.1	763.0	763.4	763.9
162.5°	776.2	775.8	775.4	775.1	774.8	774.6	774.6	774.4	774.2	775.0	775.8
165°	792.6	792.2	791.8	791.3	791.0	790.7	790.4	790.1	789.8	790.7	791.5
167.5°	805.1	804.5	803.9	803.3	803.0	803.1	803.1	803.1	803.1	804.0	804.9
170°	812.1	811.4	810.7	810.0	809.7	809.9	810.0	810.1	810.3	811.1	812.0
172.5°	817.3	816.7	816.1	815.5	815.3	815.3	815.4	815.4	815.4	816.4	817.3
175°	824.2	823.5	822.9	822.2	821.7	821.6	821.4	821.3	821.1	822.2	823.1
177.5°	826.7	826.1	825.6	825.0	824.8	824.8	824.8	824.8	824.8	825.5	826.3
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2	826.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1514.5	1515.4	1519.7	1523.0	1524.0	1528.8	1529.2
5°	1647.5	1657.7	1677.3	1679.1	1682.0	1697.5	1685.7
7.5°	1803.5	1829.2	1846.3	1861.5	1867.0	1873.7	1872.3
10°	1903.5	1941.6	1960.7	1991.0	1992.2	1999.9	1995.2
12.5°	2004.0	2048.2	2083.0	2088.6	2114.1	2118.0	2124.7
15°	2146.3	2193.4	2241.6	2258.8	2294.0	2302.3	2315.4
17.5°	2280.2	2328.2	2362.1	2406.7	2421.1	2440.4	2427.2
20°	2353.5	2405.9	2448.7	2483.8	2498.7	2509.4	2508.3
22.5°	2397.8	2450.6	2485.4	2511.9	2525.8	2530.4	2530.1
25°	2425.5	2455.8	2466.6	2476.7	2461.3	2455.8	2458.2
27.5°	2348.4	2340.5	2312.6	2275.9	2237.7	2207.5	2191.1
30°	2242.2	2195.7	2153.4	2079.7	2041.6	2019.0	1998.7
32.5°	2091.7	2018.1	1936.8	1869.2	1825.9	1792.3	1787.3
35°	1833.8	1723.1	1623.8	1541.0	1498.1	1461.8	1453.5
37.5°	1559.1	1444.1	1354.6	1281.8	1235.7	1210.0	1186.1
40°	1376.7	1277.9	1189.8	1127.9	1092.8	1074.4	1059.5
42.5°	1236.2	1146.0	1058.4	1011.2	979.5	968.2	959.5
45°	1042.2	958.3	897.6	861.9	843.4	824.4	815.5
47.5°	886.8	818.6	778.5	748.2	728.4	717.1	711.4
50°	798.7	742.8	707.1	683.9	666.1	657.1	652.4
52.5°	720.7	674.8	644.7	626.3	614.2	607.6	605.7
55°	620.8	585.7	566.6	550.6	541.7	535.7	533.3
57.5°	539.6	512.6	497.1	483.9	480.4	475.4	473.8
60°	486.3	465.5	452.4	443.4	440.5	434.5	435.7
62.5°	439.1	422.1	411.0	405.8	401.9	396.9	398.6
65°	371.4	359.0	352.9	348.2	343.5	340.4	342.9
67.5°	311.7	303.1	295.0	292.2	289.9	289.4	286.9
70°	272.6	265.4	258.3	256.6	256.6	254.2	253.6
72.5°	235.0	229.7	225.0	223.7	221.8	222.7	220.2
75°	181.5	177.4	175.6	173.8	173.2	173.2	171.4
77.5°	134.1	131.0	128.2	128.2	126.1	125.3	125.0
80°	101.8	100.6	98.2	98.2	97.0	97.6	96.4
82.5°	76.5	74.9	74.4	73.4	71.8	71.9	70.7
85°	41.1	39.3	38.7	36.9	35.7	36.9	35.7
87.5°	17.7	17.3	17.0	16.0	15.6	15.7	14.3
90°	16.6	17.5	18.0	18.3	18.6	18.9	19.2
92.5°	26.9	27.4	27.7	27.9	28.1	28.2	28.4
95°	49.9	50.3	50.5	50.5	50.5	50.5	50.5
97.5°	78.4	78.9	79.1	79.1	79.1	79.1	79.1
100°	98.6	98.9	99.0	99.0	99.0	99.0	99.0
102.5°	120.5	120.8	121.1	121.2	121.3	121.4	121.6
105°	153.3	153.8	154.2	154.6	155.1	155.5	155.9
107.5°	188.9	189.3	189.5	189.5	189.5	189.4	189.4
110°	212.0	211.6	211.7	212.2	212.6	213.0	213.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	237.6	237.6	237.6	237.7	237.8	237.9	238.0
115°	276.9	276.7	276.6	276.5	276.4	276.2	276.0
117.5°	314.4	313.8	313.5	313.2	312.9	312.6	312.4
120°	339.8	339.1	338.8	339.1	339.4	339.7	339.9
122.5°	366.0	365.5	365.0	364.5	363.9	363.5	363.0
125°	404.3	404.0	403.7	403.5	403.1	402.9	402.6
127.5°	440.7	440.4	440.1	440.0	439.7	439.5	439.3
130°	466.2	466.0	465.5	465.0	464.4	463.8	463.3
132.5°	490.3	490.0	489.7	489.6	489.3	489.0	488.9
135°	526.3	526.1	525.7	525.3	524.9	524.4	524.0
137.5°	561.1	560.8	560.6	560.7	560.8	560.9	560.9
140°	584.3	584.1	584.0	583.8	583.7	583.6	583.4
142.5°	606.1	606.1	606.1	606.0	606.0	606.0	605.9
145°	638.6	638.4	638.2	637.7	637.3	636.9	636.5
147.5°	668.2	668.0	668.0	667.8	667.7	667.5	667.4
150°	687.0	687.0	686.9	686.7	686.6	686.5	686.3
152.5°	704.8	705.2	705.2	704.8	704.5	704.0	703.7
155°	729.5	730.1	730.1	729.5	729.0	728.4	727.9
157.5°	751.0	751.4	751.4	750.9	750.4	749.9	749.4
160°	764.3	764.7	764.6	763.9	763.1	762.4	761.7
162.5°	776.5	777.3	777.3	776.6	775.9	775.2	774.5
165°	792.4	793.2	793.4	792.8	792.2	791.7	791.1
167.5°	805.6	806.5	806.5	805.6	804.8	803.9	803.0
170°	812.9	813.7	813.6	812.6	811.7	810.6	809.7
172.5°	818.3	819.2	819.2	818.2	817.3	816.2	815.3
175°	824.1	825.1	825.1	824.1	823.1	822.2	821.1
177.5°	827.1	827.9	827.9	826.9	826.0	825.1	824.2
180°	826.2	826.2	826.2	826.2	826.2	826.2	826.2

(END OF REPORT)