

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: P332811-930

Luminaire Tested: **S124DIW-S1020D770U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332811-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S1020D770U930-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 770 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6259.1 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

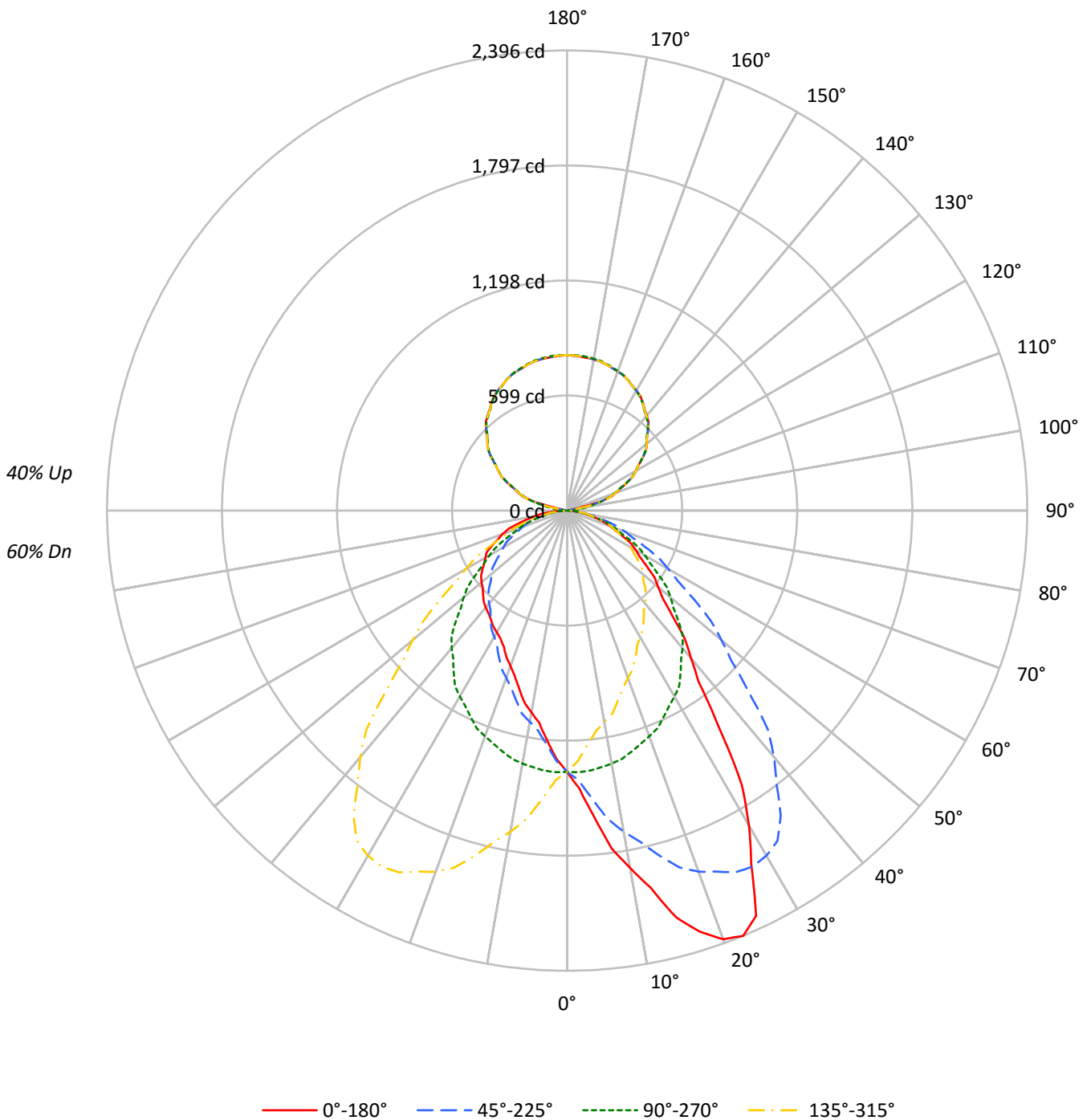
Input Watts (W): 53.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	100	96	92	89	94	90	87	83	78	76	74	68	66	64	58	57	56	51
2	92	84	78	73	85	79	74	69	69	65	61	60	57	54	52	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

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

	0°	90°	180°	270°
0°	10984	10984	10984	10984
5°	12935	11012	9720	11012
10°	15488	10964	8751	10964
15°	18324	10853	8037	10853
20°	20405	10740	7399	10740
25°	20735	10573	6959	10573
30°	17643	10413	6820	10413
35°	13565	10154	6821	10154
40°	10572	9848	6949	9848
45°	8816	9388	7066	9388
50°	7759	8828	7304	8828
55°	7108	8155	7600	8155
60°	6660	7553	7953	7553
65°	6202	6879	8246	6879
70°	5667	6212	8434	6212
75°	5062	5468	8334	5468
80°	4245	4482	8071	4482
85°	3131	3242	7725	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	2.1
10°-20°	408.6	6.5
20°-30°	647.9	10.4
30°-40°	721.0	11.5
40°-50°	656.3	10.5
50°-60°	536.3	8.6
60°-70°	382.9	6.1
70°-80°	210.8	3.4
80°-90°	59.9	1.0
90°-100°	27.7	0.4
100°-110°	176.5	2.8
110°-120°	337.5	5.4
120°-130°	428.5	6.8
130°-140°	458.5	7.3
140°-150°	428.7	6.8
150°-160°	345.7	5.5
160°-170°	223.0	3.6
170°-180°	76.9	1.2
0°-30°	1189.0	19.0
0°-40°	1910.0	30.5
0°-60°	3102.6	49.6
0°-90°	3756.2	60.0
90°-120°	541.7	8.7
90°-150°	1857.3	29.7
90°-180°	2503.0	40.0
0°-180°	6259.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1361	1361	1361	1361	1361	
5°	1596	1359	1199	1359	1596	162
15°	2192	1299	962	1299	2192	619
25°	2328	1187	781	1187	2328	1026
35°	1376	1030	692	1030	1376	874
45°	772	822	619	822	772	608
55°	505	579	540	579	505	456
65°	325	360	432	360	325	321
75°	162	175	267	175	162	173
85°	34	35	83	35	34	42
90°	18	2	18	2	18	9
95°	18	33	18	33	18	14
105°	172	182	172	182	172	150
115°	342	340	342	340	342	339
125°	482	478	482	478	482	429
135°	597	593	597	593	597	460
145°	688	684	688	684	688	430
155°	749	750	749	750	749	345
165°	787	791	787	791	787	222
175°	804	809	804	809	804	77
180°	809	809	809	809	809	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1448.1	1447.6	1443.1	1442.2	1439.0	1435.0	1434.1	1426.9	1412.4	1405.7	1403.9
5°	1596.2	1607.4	1592.8	1590.0	1588.3	1569.7	1560.1	1548.8	1522.9	1507.7	1495.8
7.5°	1772.9	1774.3	1767.9	1762.7	1748.3	1732.1	1707.8	1681.9	1651.0	1618.9	1594.6
10°	1889.3	1893.8	1886.4	1885.3	1856.6	1838.5	1802.5	1772.1	1737.1	1698.2	1662.7
12.5°	2011.9	2005.6	2001.9	1977.8	1972.5	1939.5	1897.6	1866.3	1812.4	1767.7	1720.4
15°	2192.5	2180.1	2172.2	2138.9	2122.6	2077.0	2032.4	1998.1	1927.6	1860.5	1809.8
17.5°	2298.4	2310.9	2292.6	2278.9	2236.7	2204.7	2159.2	2087.0	2031.9	1948.6	1884.6
20°	2375.1	2376.2	2366.1	2352.0	2318.7	2278.2	2228.5	2149.6	2083.7	2000.8	1912.9
22.5°	2395.8	2396.1	2391.8	2378.6	2353.4	2320.5	2270.5	2204.7	2124.8	2034.7	1946.8
25°	2327.8	2325.5	2330.6	2345.2	2335.7	2325.5	2296.8	2247.7	2173.3	2078.0	1983.4
27.5°	2074.8	2090.3	2119.0	2155.1	2189.8	2216.3	2223.7	2213.7	2167.6	2089.2	1990.1
30°	1892.6	1911.8	1933.2	1969.3	2039.1	2079.2	2123.2	2156.4	2137.8	2075.3	1982.8
32.5°	1692.5	1697.2	1729.0	1770.0	1834.0	1911.0	1980.7	2048.2	2070.6	2037.8	1960.7
35°	1376.4	1384.2	1418.6	1459.2	1537.6	1631.7	1736.5	1830.1	1907.3	1938.3	1898.8
37.5°	1123.2	1145.8	1170.1	1213.7	1282.7	1367.4	1476.3	1597.4	1712.5	1789.6	1802.7
40°	1003.2	1017.3	1034.8	1068.0	1126.7	1210.1	1303.7	1442.3	1564.6	1675.1	1711.2
42.5°	908.6	916.8	927.5	957.6	1002.2	1085.2	1170.6	1292.6	1415.4	1547.4	1607.9
45°	772.2	780.6	798.7	816.1	849.9	907.4	986.9	1087.2	1210.6	1338.1	1449.6
47.5°	673.6	679.1	689.7	708.5	737.2	775.1	839.8	923.6	1038.0	1161.6	1280.5
50°	617.8	622.2	630.7	647.6	669.6	703.4	756.4	834.7	924.3	1048.9	1165.6
52.5°	573.6	575.4	581.6	593.0	610.5	639.0	682.4	747.2	830.5	941.6	1057.8
55°	505.0	507.3	512.9	521.4	536.5	554.6	587.8	636.3	709.1	805.4	906.3
57.5°	448.7	450.2	454.9	458.2	470.8	485.4	510.9	545.6	600.7	682.4	772.5
60°	412.5	411.5	417.1	419.9	428.4	440.8	460.5	493.7	541.6	607.6	690.4
62.5°	377.4	375.9	380.6	384.3	389.1	399.7	415.8	441.9	480.8	540.4	612.0
65°	324.7	322.4	325.2	329.7	334.2	339.9	351.7	374.8	405.8	448.7	503.3
67.5°	271.7	274.0	274.5	276.7	279.3	287.0	295.1	311.4	333.3	367.6	413.9
70°	240.1	240.7	243.0	243.0	244.6	251.4	258.1	267.7	289.1	320.7	358.5
72.5°	208.6	210.9	210.0	211.8	213.0	217.5	222.5	231.6	249.9	273.4	305.2
75°	162.3	164.0	164.0	164.6	166.2	168.0	171.9	178.6	191.6	209.1	231.1
77.5°	118.4	118.6	119.4	121.4	121.4	124.1	127.0	132.5	138.8	150.8	164.2
80°	91.3	92.5	91.9	93.0	93.0	95.2	96.4	103.1	106.0	113.8	124.6
82.5°	66.9	68.1	68.0	69.5	70.4	70.9	72.5	75.2	78.0	85.0	89.4
85°	33.8	35.0	33.8	35.0	36.6	37.2	38.9	39.5	41.7	43.4	47.4
87.5°	13.5	14.8	14.8	15.2	16.1	16.4	16.7	16.1	17.7	18.0	19.6
90°	18.2	17.9	17.6	17.4	17.0	16.6	15.7	14.9	14.1	13.3	12.2
92.5°	16.7	16.6	16.6	16.6	16.5	16.1	15.2	14.4	13.6	12.8	11.7
95°	17.5	17.4	17.3	17.1	17.0	16.6	15.7	14.9	14.1	13.3	13.2
97.5°	17.0	16.8	16.7	16.6	16.4	16.3	16.2	16.1	16.1	16.0	31.0
100°	17.0	16.8	16.7	16.6	16.4	17.4	19.7	22.1	24.4	26.7	45.2
102.5°	17.4	17.4	17.4	17.4	17.3	29.7	54.3	79.0	103.6	128.3	130.7
105°	172.5	177.3	182.1	187.0	191.8	193.6	192.4	191.3	190.0	188.8	188.2
107.5°	240.4	239.9	239.4	238.9	238.3	237.8	237.2	236.6	236.0	235.4	234.5
110°	269.9	269.5	269.1	268.7	268.3	268.0	267.7	267.4	267.2	266.8	266.1



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1404.4	1398.0	1393.5	1389.9	1380.0	1374.1	1369.6	1363.3	1356.1	1348.4	1339.0
5°	1484.0	1464.8	1450.7	1429.4	1409.1	1392.1	1374.7	1358.9	1339.7	1318.9	1303.7
7.5°	1567.7	1539.3	1502.8	1471.0	1435.4	1404.4	1376.7	1348.3	1318.7	1290.1	1263.9
10°	1621.0	1584.4	1543.8	1495.8	1450.7	1410.7	1373.5	1337.5	1302.5	1267.5	1237.7
12.5°	1678.2	1632.6	1572.6	1516.6	1466.1	1412.6	1367.7	1323.5	1281.3	1244.6	1209.7
15°	1755.1	1689.1	1619.8	1544.9	1478.4	1415.8	1354.4	1298.6	1251.2	1202.7	1169.0
17.5°	1802.4	1720.8	1641.5	1563.2	1482.6	1403.8	1337.5	1273.1	1213.8	1165.7	1123.1
20°	1833.4	1752.3	1653.7	1575.3	1479.5	1398.3	1321.7	1250.1	1188.1	1136.9	1092.8
22.5°	1860.5	1766.8	1668.1	1565.0	1469.6	1383.5	1299.6	1227.6	1164.2	1110.2	1068.0
25°	1875.2	1767.5	1660.4	1557.9	1449.6	1347.6	1271.5	1187.0	1119.3	1062.4	1017.3
27.5°	1876.7	1761.6	1640.5	1526.5	1414.8	1319.8	1223.8	1148.2	1078.0	1017.8	974.5
30°	1871.8	1751.8	1621.5	1498.1	1385.9	1282.8	1199.4	1117.1	1045.5	985.8	940.7
32.5°	1856.0	1731.0	1597.2	1466.6	1350.3	1249.4	1163.4	1085.1	1015.3	956.4	909.1
35°	1810.4	1686.9	1544.3	1408.5	1289.6	1187.6	1109.8	1030.3	960.4	904.6	859.0
37.5°	1739.0	1627.4	1482.5	1341.9	1225.1	1122.6	1045.5	973.7	910.7	854.0	807.2
40°	1676.7	1578.7	1433.3	1296.3	1170.1	1072.6	1000.5	934.5	872.0	818.4	773.9
42.5°	1605.1	1519.6	1385.5	1240.4	1118.7	1020.8	950.4	891.2	832.3	782.8	738.3
45°	1477.2	1420.9	1294.6	1160.5	1033.7	941.3	874.2	822.3	772.7	724.2	687.1
47.5°	1330.2	1302.3	1196.0	1068.6	948.3	857.1	799.0	751.1	707.6	666.5	633.7
50°	1231.5	1218.0	1126.1	1003.2	888.3	802.6	744.0	702.9	665.6	629.6	598.6
52.5°	1134.1	1133.7	1050.8	938.3	831.9	749.4	691.2	652.8	620.5	591.3	563.4
55°	985.2	1001.0	936.2	835.8	740.6	666.2	613.8	579.4	556.8	532.6	511.8
57.5°	848.5	874.7	821.2	732.8	653.4	584.8	539.2	513.3	489.3	474.7	459.5
60°	759.2	784.0	742.3	667.9	593.0	534.3	490.9	467.8	446.9	436.8	426.1
62.5°	679.9	702.0	671.1	602.1	537.0	480.6	444.0	421.8	407.7	396.6	389.6
65°	566.5	585.1	558.6	508.4	452.6	407.5	377.6	360.1	346.7	342.1	334.2
67.5°	457.9	474.8	460.5	417.8	373.1	339.0	315.6	298.8	290.8	286.9	281.3
70°	393.4	410.3	395.1	357.9	323.5	294.8	272.8	263.2	254.8	253.1	245.2
72.5°	338.8	350.3	335.2	306.1	276.6	252.4	235.4	225.3	220.9	217.9	213.6
75°	254.2	264.3	254.2	231.6	210.8	193.9	179.2	175.3	170.2	168.5	165.7
77.5°	179.9	188.7	180.9	166.8	151.2	138.2	130.3	125.2	124.1	121.2	122.5
80°	137.5	143.2	135.8	126.3	113.8	104.8	99.2	96.4	93.0	91.9	94.1
82.5°	98.7	101.3	97.5	91.1	81.9	76.0	72.2	68.9	68.2	68.4	68.4
85°	51.3	50.7	50.1	44.5	41.7	37.7	35.5	35.0	34.4	35.5	36.6
87.5°	19.4	19.6	18.9	16.9	15.2	13.6	12.8	12.1	12.8	13.6	14.3
90°	11.2	10.1	9.0	7.7	6.3	4.8	3.3	1.8	3.3	4.8	6.3
92.5°	10.7	9.6	8.6	7.9	7.8	7.8	7.7	7.7	7.7	7.8	7.8
95°	13.0	12.9	12.8	15.0	19.6	24.1	28.7	33.3	28.7	24.1	19.6
97.5°	46.0	61.0	76.0	82.1	79.2	76.4	73.5	70.7	73.5	76.4	79.2
100°	63.8	82.3	100.9	108.9	106.5	104.1	101.7	99.2	101.7	104.1	106.5
102.5°	133.1	135.6	137.9	138.3	136.6	134.8	133.0	131.2	133.0	134.8	136.6
105°	187.4	186.8	186.1	185.4	184.6	183.8	183.0	182.1	183.0	183.8	184.6
107.5°	233.6	232.7	231.8	231.1	230.7	230.3	229.9	229.5	229.9	230.3	230.7
110°	265.3	264.5	263.7	263.0	262.7	262.3	261.9	261.5	261.9	262.3	262.7





TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1334.4	1330.4	1324.5	1316.4	1309.6	1302.4	1300.6	1297.9	1303.3	1298.8	1297.5
5°	1290.7	1278.9	1263.6	1246.2	1236.0	1221.4	1218.5	1212.9	1207.3	1206.7	1201.1
7.5°	1244.4	1227.0	1207.1	1189.3	1172.8	1156.7	1146.3	1144.0	1135.7	1130.8	1125.2
10°	1214.6	1193.2	1170.1	1153.2	1134.0	1117.1	1105.3	1098.5	1092.8	1086.6	1081.0
12.5°	1179.4	1156.7	1137.6	1119.3	1096.6	1083.7	1064.2	1052.5	1051.4	1051.5	1036.8
15°	1138.5	1116.0	1086.6	1060.7	1048.3	1023.5	1012.8	999.3	990.8	982.4	975.7
17.5°	1091.8	1063.6	1040.8	1011.1	987.3	967.6	953.6	945.4	932.7	920.7	912.1
20°	1062.4	1032.6	1008.3	976.7	950.8	926.6	914.8	903.5	893.9	883.8	874.2
22.5°	1032.7	1001.4	971.8	941.1	917.0	891.4	880.0	864.7	855.6	849.9	840.3
25°	985.8	951.9	918.1	888.8	864.1	841.5	826.3	814.4	804.3	799.8	793.6
27.5°	934.8	901.2	868.5	835.3	807.1	790.8	778.6	769.6	763.9	757.8	755.0
30°	902.4	867.4	832.5	801.4	775.5	759.2	748.0	741.8	737.2	734.4	731.6
32.5°	869.4	834.9	798.2	769.9	746.7	732.1	723.6	717.4	715.1	714.1	713.1
35°	816.7	781.7	748.0	722.6	700.6	695.0	687.6	684.2	683.1	687.1	688.8
37.5°	765.6	733.2	702.1	677.4	663.1	654.8	652.3	652.5	656.5	660.0	664.1
40°	732.7	701.2	671.8	650.4	636.9	631.9	630.7	633.5	638.1	642.0	646.5
42.5°	700.7	669.6	642.9	622.9	613.4	608.8	609.5	612.3	618.6	623.5	630.2
45°	651.0	625.1	599.2	582.8	574.9	576.0	576.0	581.1	587.3	594.6	601.9
47.5°	604.2	578.0	556.8	543.0	538.9	537.9	541.1	547.7	556.6	565.7	575.9
50°	572.7	547.8	529.2	516.8	512.3	514.0	518.5	524.7	535.4	546.7	557.4
52.5°	540.6	518.0	500.8	489.3	486.2	489.3	493.7	503.5	512.9	525.1	538.0
55°	490.9	471.7	458.2	449.8	448.7	450.4	455.4	466.1	479.6	494.9	507.3
57.5°	441.4	425.4	413.0	407.2	407.7	409.3	417.7	430.4	444.8	461.1	477.0
60°	408.1	393.4	383.3	378.8	379.3	382.7	392.8	404.7	422.7	438.5	455.4
62.5°	376.5	363.6	353.9	349.9	349.1	356.5	366.2	378.5	396.6	414.2	432.4
65°	325.8	315.6	307.8	305.5	307.2	312.8	325.2	341.5	356.8	375.4	394.5
67.5°	276.1	267.8	262.4	263.4	265.5	273.8	284.2	298.2	315.5	334.8	353.8
70°	244.6	236.7	232.2	232.8	236.2	246.3	255.4	269.4	288.0	307.8	323.5
72.5°	212.1	206.9	202.9	205.3	208.6	215.6	226.9	241.0	257.4	275.7	292.4
75°	162.9	162.9	160.6	162.3	167.4	174.1	182.6	197.3	213.6	228.3	241.8
77.5°	120.8	119.6	121.1	123.1	126.0	134.0	143.7	154.2	166.5	181.2	192.3
80°	92.5	93.0	95.8	99.2	100.4	106.6	116.7	126.3	135.8	148.2	158.9
82.5°	69.5	70.0	71.5	75.7	76.9	83.6	90.1	99.6	108.4	116.7	125.6
85°	37.7	37.7	40.6	42.2	45.1	49.6	53.6	59.2	67.1	72.7	81.1
87.5°	16.0	16.2	18.3	19.4	21.0	23.4	24.5	29.6	31.6	34.0	38.2
90°	7.7	9.0	10.1	11.2	12.2	13.3	14.1	14.9	15.7	16.6	17.0
92.5°	7.9	8.6	9.6	10.7	11.7	12.8	13.6	14.4	15.2	16.1	16.5
95°	15.0	12.8	12.9	13.0	13.2	13.3	14.1	14.9	15.7	16.6	17.0
97.5°	82.1	76.0	61.0	46.0	31.0	16.0	16.1	16.1	16.2	16.3	16.4
100°	108.9	100.9	82.3	63.8	45.2	26.7	24.4	22.1	19.7	17.4	16.4
102.5°	138.3	137.9	135.6	133.1	130.7	128.3	103.6	79.0	54.3	29.7	17.3
105°	185.4	186.1	186.8	187.4	188.2	188.8	190.0	191.3	192.4	193.6	191.8
107.5°	231.1	231.8	232.7	233.6	234.5	235.4	236.0	236.6	237.2	237.8	238.3
110°	263.0	263.7	264.5	265.3	266.1	266.8	267.2	267.4	267.7	268.0	268.3



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1296.6	1295.7	1292.5	1292.1	1292.5	1295.7	1296.6	1297.5	1298.8	1303.3	1297.9
5°	1197.7	1194.9	1193.2	1199.4	1193.2	1194.9	1197.7	1201.1	1206.7	1207.3	1212.9
7.5°	1123.2	1121.0	1116.0	1114.4	1116.0	1121.0	1123.2	1125.2	1130.8	1135.7	1144.0
10°	1075.4	1073.1	1068.6	1067.5	1068.6	1073.1	1075.4	1081.0	1086.6	1092.8	1098.5
12.5°	1029.4	1024.9	1024.0	1025.1	1024.0	1024.9	1029.4	1036.8	1051.5	1051.4	1052.5
15°	968.3	966.0	959.9	961.6	959.9	966.0	968.3	975.7	982.4	990.8	999.3
17.5°	908.1	905.4	897.9	904.5	897.9	905.4	908.1	912.1	920.7	932.7	945.4
20°	870.3	865.7	861.8	861.2	861.8	865.7	870.3	874.2	883.8	893.9	903.5
22.5°	834.1	830.1	829.7	826.1	829.7	830.1	834.1	840.3	849.9	855.6	864.7
25°	789.0	785.1	784.0	781.2	784.0	785.1	789.0	793.6	799.8	804.3	814.4
27.5°	754.5	752.5	750.5	751.4	750.5	752.5	754.5	755.0	757.8	763.9	769.6
30°	733.3	732.7	731.6	731.6	731.6	732.7	733.3	731.6	734.4	737.2	741.8
32.5°	715.7	715.6	716.2	716.2	716.2	715.6	715.7	713.1	714.1	715.1	717.4
35°	691.0	692.7	693.8	692.1	693.8	692.7	691.0	688.8	687.1	683.1	684.2
37.5°	668.7	670.3	672.0	673.8	672.0	670.3	668.7	664.1	660.0	656.5	652.5
40°	651.5	655.5	656.6	659.4	656.6	655.5	651.5	646.5	642.0	638.1	633.5
42.5°	635.3	639.7	642.6	643.2	642.6	639.7	635.3	630.2	623.5	618.6	612.3
45°	610.4	614.9	618.9	618.9	618.9	614.9	610.4	601.9	594.6	587.3	581.1
47.5°	584.6	591.1	595.1	596.1	595.1	591.1	584.6	575.9	565.7	556.6	547.7
50°	567.0	574.9	578.9	581.6	578.9	574.9	567.0	557.4	546.7	535.4	524.7
52.5°	549.8	557.7	563.0	564.5	563.0	557.7	549.8	538.0	525.1	512.9	503.5
55°	520.2	531.5	537.7	540.0	537.7	531.5	520.2	507.3	494.9	479.6	466.1
57.5°	492.3	502.6	509.9	511.5	509.9	502.6	492.3	477.0	461.1	444.8	430.4
60°	470.6	481.9	490.9	492.6	490.9	481.9	470.6	455.4	438.5	422.7	404.7
62.5°	448.5	460.2	468.4	472.8	468.4	460.2	448.5	432.4	414.2	396.6	378.5
65°	410.3	422.2	430.1	431.7	430.1	422.2	410.3	394.5	375.4	356.8	341.5
67.5°	368.6	380.4	385.6	388.9	385.6	380.4	368.6	353.8	334.8	315.5	298.2
70°	339.3	348.9	354.5	357.3	354.5	348.9	339.3	323.5	307.8	288.0	269.4
72.5°	305.9	315.9	322.5	323.1	322.5	315.9	305.9	292.4	275.7	257.4	241.0
75°	254.8	263.7	267.2	267.2	267.2	263.7	254.8	241.8	228.3	213.6	197.3
77.5°	201.6	206.3	210.6	211.5	210.6	206.3	201.6	192.3	181.2	166.5	154.2
80°	167.4	170.2	173.6	173.6	173.6	170.2	167.4	158.9	148.2	135.8	126.3
82.5°	132.2	134.6	137.9	137.5	137.9	134.6	132.2	125.6	116.7	108.4	99.6
85°	80.1	85.1	84.5	83.4	84.5	85.1	80.1	81.1	72.7	67.1	59.2
87.5°	39.5	40.0	41.4	42.4	41.4	40.0	39.5	38.2	34.0	31.6	29.6
90°	17.4	17.6	17.9	18.2	17.9	17.6	17.4	17.0	16.6	15.7	14.9
92.5°	16.6	16.6	16.6	16.7	16.6	16.6	16.6	16.5	16.1	15.2	14.4
95°	17.1	17.3	17.4	17.5	17.4	17.3	17.1	17.0	16.6	15.7	14.9
97.5°	16.6	16.7	16.8	17.0	16.8	16.7	16.6	16.4	16.3	16.2	16.1
100°	16.6	16.7	16.8	17.0	16.8	16.7	16.6	16.4	17.4	19.7	22.1
102.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.3	29.7	54.3	79.0
105°	187.0	182.1	177.3	172.5	177.3	182.1	187.0	191.8	193.6	192.4	191.3
107.5°	238.9	239.4	239.9	240.4	239.9	239.4	238.9	238.3	237.8	237.2	236.6
110°	268.7	269.1	269.5	269.9	269.5	269.1	268.7	268.3	268.0	267.7	267.4



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1300.6	1302.4	1309.6	1316.4	1324.5	1330.4	1334.4	1339.0	1348.4	1356.1	1363.3
5°	1218.5	1221.4	1236.0	1246.2	1263.6	1278.9	1290.7	1303.7	1318.9	1339.7	1358.9
7.5°	1146.3	1156.7	1172.8	1189.3	1207.1	1227.0	1244.4	1263.9	1290.1	1318.7	1348.3
10°	1105.3	1117.1	1134.0	1153.2	1170.1	1193.2	1214.6	1237.7	1267.5	1302.5	1337.5
12.5°	1064.2	1083.7	1096.6	1119.3	1137.6	1156.7	1179.4	1209.7	1244.6	1281.3	1323.5
15°	1012.8	1023.5	1048.3	1060.7	1086.6	1116.0	1138.5	1169.0	1202.7	1251.2	1298.6
17.5°	953.6	967.6	987.3	1011.1	1040.8	1063.6	1091.8	1123.1	1165.7	1213.8	1273.1
20°	914.8	926.6	950.8	976.7	1008.3	1032.6	1062.4	1092.8	1136.9	1188.1	1250.1
22.5°	880.0	891.4	917.0	941.1	971.8	1001.4	1032.7	1068.0	1110.2	1164.2	1227.6
25°	826.3	841.5	864.1	888.8	918.1	951.9	985.8	1017.3	1062.4	1119.3	1187.0
27.5°	778.6	790.8	807.1	835.3	868.5	901.2	934.8	974.5	1017.8	1078.0	1148.2
30°	748.0	759.2	775.5	801.4	832.5	867.4	902.4	940.7	985.8	1045.5	1117.1
32.5°	723.6	732.1	746.7	769.9	798.2	834.9	869.4	909.1	956.4	1015.3	1085.1
35°	687.6	695.0	700.6	722.6	748.0	781.7	816.7	859.0	904.6	960.4	1030.3
37.5°	652.3	654.8	663.1	677.4	702.1	733.2	765.6	807.2	854.0	910.7	973.7
40°	630.7	631.9	636.9	650.4	671.8	701.2	732.7	773.9	818.4	872.0	934.5
42.5°	609.5	608.8	613.4	622.9	642.9	669.6	700.7	738.3	782.8	832.3	891.2
45°	576.0	576.0	574.9	582.8	599.2	625.1	651.0	687.1	724.2	772.7	822.3
47.5°	541.1	537.9	538.9	543.0	556.8	578.0	604.2	633.7	666.5	707.6	751.1
50°	518.5	514.0	512.3	516.8	529.2	547.8	572.7	598.6	629.6	665.6	702.9
52.5°	493.7	489.3	486.2	489.3	500.8	518.0	540.6	563.4	591.3	620.5	652.8
55°	455.4	450.4	448.7	449.8	458.2	471.7	490.9	511.8	532.6	556.8	579.4
57.5°	417.7	409.3	407.7	407.2	413.0	425.4	441.4	459.5	474.7	489.3	513.3
60°	392.8	382.7	379.3	378.8	383.3	393.4	408.1	426.1	436.8	446.9	467.8
62.5°	366.2	356.5	349.1	349.9	353.9	363.6	376.5	389.6	396.6	407.7	421.8
65°	325.2	312.8	307.2	305.5	307.8	315.6	325.8	334.2	342.1	346.7	360.1
67.5°	284.2	273.8	265.5	263.4	262.4	267.8	276.1	281.3	286.9	290.8	298.8
70°	255.4	246.3	236.2	232.8	232.2	236.7	244.6	245.2	253.1	254.8	263.2
72.5°	226.9	215.6	208.6	205.3	202.9	206.9	212.1	213.6	217.9	220.9	225.3
75°	182.6	174.1	167.4	162.3	160.6	162.9	162.9	165.7	168.5	170.2	175.3
77.5°	143.7	134.0	126.0	123.1	121.1	119.6	120.8	122.5	121.2	124.1	125.2
80°	116.7	106.6	100.4	99.2	95.8	93.0	92.5	94.1	91.9	93.0	96.4
82.5°	90.1	83.6	76.9	75.7	71.5	70.0	69.5	68.4	68.4	68.2	68.9
85°	53.6	49.6	45.1	42.2	40.6	37.7	37.7	36.6	35.5	34.4	35.0
87.5°	24.5	23.4	21.0	19.4	18.3	16.2	16.0	14.3	13.6	12.8	12.1
90°	14.1	13.3	12.2	11.2	10.1	9.0	7.7	6.3	4.8	3.3	1.8
92.5°	13.6	12.8	11.7	10.7	9.6	8.6	7.9	7.8	7.8	7.7	7.7
95°	14.1	13.3	13.2	13.0	12.9	12.8	15.0	19.6	24.1	28.7	33.3
97.5°	16.1	16.0	31.0	46.0	61.0	76.0	82.1	79.2	76.4	73.5	70.7
100°	24.4	26.7	45.2	63.8	82.3	100.9	108.9	106.5	104.1	101.7	99.2
102.5°	103.6	128.3	130.7	133.1	135.6	137.9	138.3	136.6	134.8	133.0	131.2
105°	190.0	188.8	188.2	187.4	186.8	186.1	185.4	184.6	183.8	183.0	182.1
107.5°	236.0	235.4	234.5	233.6	232.7	231.8	231.1	230.7	230.3	229.9	229.5
110°	267.2	266.8	266.1	265.3	264.5	263.7	263.0	262.7	262.3	261.9	261.5



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P332811-930

CATALOG NUMBER: S124DIW-S1020D770U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1369.6	1374.1	1380.0	1389.9	1393.5	1398.0	1404.4	1403.9	1405.7	1412.4	1426.9
5°	1374.7	1392.1	1409.1	1429.4	1450.7	1464.8	1484.0	1495.8	1507.7	1522.9	1548.8
7.5°	1376.7	1404.4	1435.4	1471.0	1502.8	1539.3	1567.7	1594.6	1618.9	1651.0	1681.9
10°	1373.5	1410.7	1450.7	1495.8	1543.8	1584.4	1621.0	1662.7	1698.2	1737.1	1772.1
12.5°	1367.7	1412.6	1466.1	1516.6	1572.6	1632.6	1678.2	1720.4	1767.7	1812.4	1866.3
15°	1354.4	1415.8	1478.4	1544.9	1619.8	1689.1	1755.1	1809.8	1860.5	1927.6	1998.1
17.5°	1337.5	1403.8	1482.6	1563.2	1641.5	1720.8	1802.4	1884.6	1948.6	2031.9	2087.0
20°	1321.7	1398.3	1479.5	1575.3	1653.7	1752.3	1833.4	1912.9	2000.8	2083.7	2149.6
22.5°	1299.6	1383.5	1469.6	1565.0	1668.1	1766.8	1860.5	1946.8	2034.7	2124.8	2204.7
25°	1271.5	1347.6	1449.6	1557.9	1660.4	1767.5	1875.2	1983.4	2078.0	2173.3	2247.7
27.5°	1223.8	1319.8	1414.8	1526.5	1640.5	1761.6	1876.7	1990.1	2089.2	2167.6	2213.7
30°	1199.4	1282.8	1385.9	1498.1	1621.5	1751.8	1871.8	1982.8	2075.3	2137.8	2156.4
32.5°	1163.4	1249.4	1350.3	1466.6	1597.2	1731.0	1856.0	1960.7	2037.8	2070.6	2048.2
35°	1109.8	1187.6	1289.6	1408.5	1544.3	1686.9	1810.4	1898.8	1938.3	1907.3	1830.1
37.5°	1045.5	1122.6	1225.1	1341.9	1482.5	1627.4	1739.0	1802.7	1789.6	1712.5	1597.4
40°	1000.5	1072.6	1170.1	1296.3	1433.3	1578.7	1676.7	1711.2	1675.1	1564.6	1442.3
42.5°	950.4	1020.8	1118.7	1240.4	1385.5	1519.6	1605.1	1607.9	1547.4	1415.4	1292.6
45°	874.2	941.3	1033.7	1160.5	1294.6	1420.9	1477.2	1449.6	1338.1	1210.6	1087.2
47.5°	799.0	857.1	948.3	1068.6	1196.0	1302.3	1330.2	1280.5	1161.6	1038.0	923.6
50°	744.0	802.6	888.3	1003.2	1126.1	1218.0	1231.5	1165.6	1048.9	924.3	834.7
52.5°	691.2	749.4	831.9	938.3	1050.8	1133.7	1134.1	1057.8	941.6	830.5	747.2
55°	613.8	666.2	740.6	835.8	936.2	1001.0	985.2	906.3	805.4	709.1	636.3
57.5°	539.2	584.8	653.4	732.8	821.2	874.7	848.5	772.5	682.4	600.7	545.6
60°	490.9	534.3	593.0	667.9	742.3	784.0	759.2	690.4	607.6	541.6	493.7
62.5°	444.0	480.6	537.0	602.1	671.1	702.0	679.9	612.0	540.4	480.8	441.9
65°	377.6	407.5	452.6	508.4	558.6	585.1	566.5	503.3	448.7	405.8	374.8
67.5°	315.6	339.0	373.1	417.8	460.5	474.8	457.9	413.9	367.6	333.3	311.4
70°	272.8	294.8	323.5	357.9	395.1	410.3	393.4	358.5	320.7	289.1	267.7
72.5°	235.4	252.4	276.6	306.1	335.2	350.3	338.8	305.2	273.4	249.9	231.6
75°	179.2	193.9	210.8	231.6	254.2	264.3	254.2	231.1	209.1	191.6	178.6
77.5°	130.3	138.2	151.2	166.8	180.9	188.7	179.9	164.2	150.8	138.8	132.5
80°	99.2	104.8	113.8	126.3	135.8	143.2	137.5	124.6	113.8	106.0	103.1
82.5°	72.2	76.0	81.9	91.1	97.5	101.3	98.7	89.4	85.0	78.0	75.2
85°	35.5	37.7	41.7	44.5	50.1	50.7	51.3	47.4	43.4	41.7	39.5
87.5°	12.8	13.6	15.2	16.9	18.9	19.6	19.4	19.6	18.0	17.7	16.1
90°	3.3	4.8	6.3	7.7	9.0	10.1	11.2	12.2	13.3	14.1	14.9
92.5°	7.7	7.8	7.8	7.9	8.6	9.6	10.7	11.7	12.8	13.6	14.4
95°	28.7	24.1	19.6	15.0	12.8	12.9	13.0	13.2	13.3	14.1	14.9
97.5°	73.5	76.4	79.2	82.1	76.0	61.0	46.0	31.0	16.0	16.1	16.1
100°	101.7	104.1	106.5	108.9	100.9	82.3	63.8	45.2	26.7	24.4	22.1
102.5°	133.0	134.8	136.6	138.3	137.9	135.6	133.1	130.7	128.3	103.6	79.0
105°	183.0	183.8	184.6	185.4	186.1	186.8	187.4	188.2	188.8	190.0	191.3
107.5°	229.9	230.3	230.7	231.1	231.8	232.7	233.6	234.5	235.4	236.0	236.6
110°	261.9	262.3	262.7	263.0	263.7	264.5	265.3	266.1	266.8	267.2	267.4





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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1434.1	1435.0	1439.0	1442.2	1443.1	1447.6	1448.1
5°	1560.1	1569.7	1588.3	1590.0	1592.8	1607.4	1596.2
7.5°	1707.8	1732.1	1748.3	1762.7	1767.9	1774.3	1772.9
10°	1802.5	1838.5	1856.6	1885.3	1886.4	1893.8	1889.3
12.5°	1897.6	1939.5	1972.5	1977.8	2001.9	2005.6	2011.9
15°	2032.4	2077.0	2122.6	2138.9	2172.2	2180.1	2192.5
17.5°	2159.2	2204.7	2236.7	2278.9	2292.6	2310.9	2298.4
20°	2228.5	2278.2	2318.7	2352.0	2366.1	2376.2	2375.1
22.5°	2270.5	2320.5	2353.4	2378.6	2391.8	2396.1	2395.8
25°	2296.8	2325.5	2335.7	2345.2	2330.6	2325.5	2327.8
27.5°	2223.7	2216.3	2189.8	2155.1	2119.0	2090.3	2074.8
30°	2123.2	2079.2	2039.1	1969.3	1933.2	1911.8	1892.6
32.5°	1980.7	1911.0	1834.0	1770.0	1729.0	1697.2	1692.5
35°	1736.5	1631.7	1537.6	1459.2	1418.6	1384.2	1376.4
37.5°	1476.3	1367.4	1282.7	1213.7	1170.1	1145.8	1123.2
40°	1303.7	1210.1	1126.7	1068.0	1034.8	1017.3	1003.2
42.5°	1170.6	1085.2	1002.2	957.6	927.5	916.8	908.6
45°	986.9	907.4	849.9	816.1	798.7	780.6	772.2
47.5°	839.8	775.1	737.2	708.5	689.7	679.1	673.6
50°	756.4	703.4	669.6	647.6	630.7	622.2	617.8
52.5°	682.4	639.0	610.5	593.0	581.6	575.4	573.6
55°	587.8	554.6	536.5	521.4	512.9	507.3	505.0
57.5°	510.9	485.4	470.8	458.2	454.9	450.2	448.7
60°	460.5	440.8	428.4	419.9	417.1	411.5	412.5
62.5°	415.8	399.7	389.1	384.3	380.6	375.9	377.4
65°	351.7	339.9	334.2	329.7	325.2	322.4	324.7
67.5°	295.1	287.0	279.3	276.7	274.5	274.0	271.7
70°	258.1	251.4	244.6	243.0	243.0	240.7	240.1
72.5°	222.5	217.5	213.0	211.8	210.0	210.9	208.6
75°	171.9	168.0	166.2	164.6	164.0	164.0	162.3
77.5°	127.0	124.1	121.4	121.4	119.4	118.6	118.4
80°	96.4	95.2	93.0	93.0	91.9	92.5	91.3
82.5°	72.5	70.9	70.4	69.5	68.0	68.1	66.9
85°	38.9	37.2	36.6	35.0	33.8	35.0	33.8
87.5°	16.7	16.4	16.1	15.2	14.8	14.8	13.5
90°	15.7	16.6	17.0	17.4	17.6	17.9	18.2
92.5°	15.2	16.1	16.5	16.6	16.6	16.6	16.7
95°	15.7	16.6	17.0	17.1	17.3	17.4	17.5
97.5°	16.2	16.3	16.4	16.6	16.7	16.8	17.0
100°	19.7	17.4	16.4	16.6	16.7	16.8	17.0
102.5°	54.3	29.7	17.3	17.4	17.4	17.4	17.4
105°	192.4	193.6	191.8	187.0	182.1	177.3	172.5
107.5°	237.2	237.8	238.3	238.9	239.4	239.9	240.4
110°	267.7	268.0	268.3	268.7	269.1	269.5	269.9



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)