

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: P332812-927

Luminaire Tested: **S124DIW-S1020D770U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332812-927
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-S1020D770U927-4F0-1E-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: 5758.9 lumens
Efficiency: N/A
Efficacy: 107.4 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

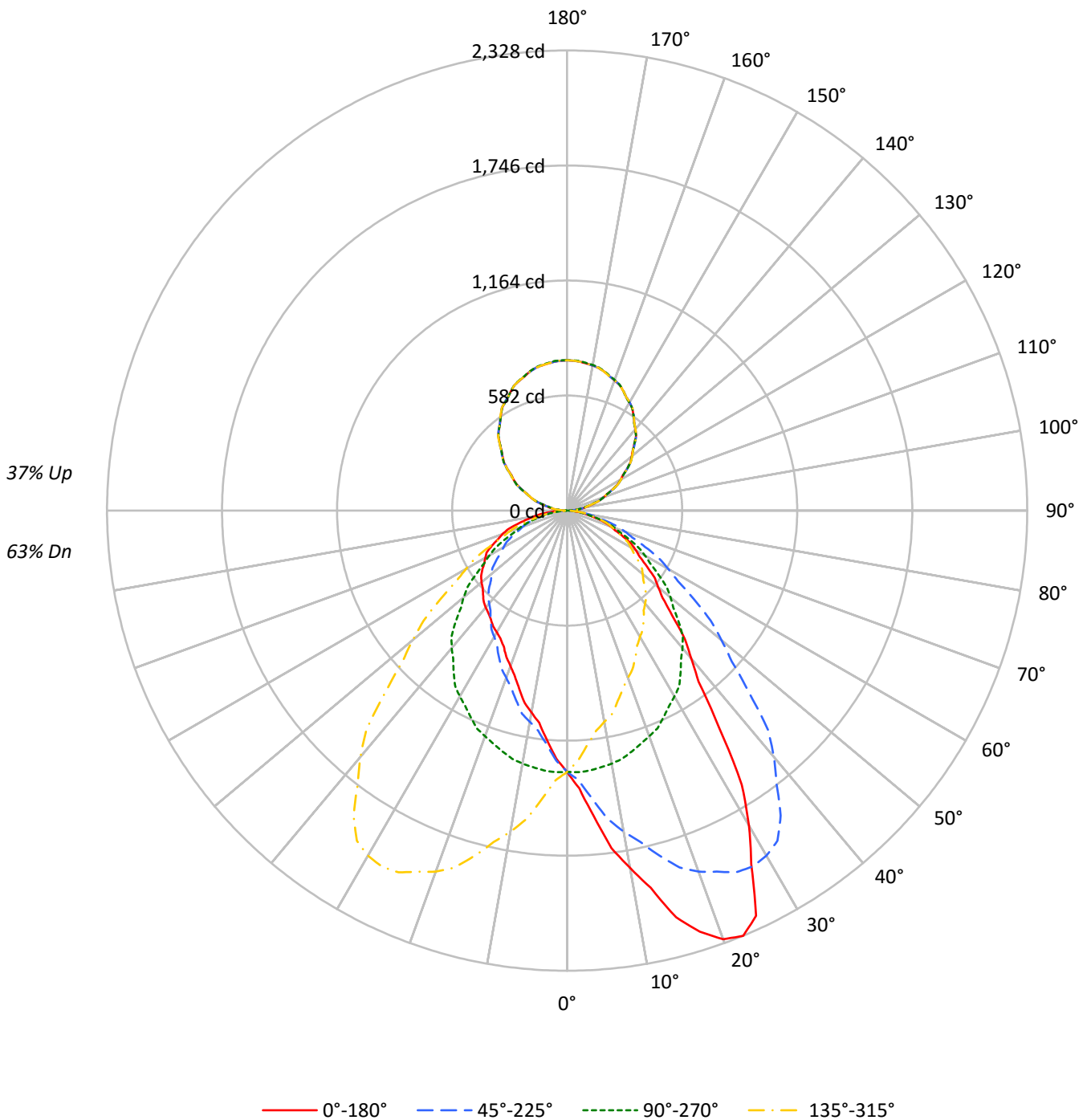
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

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°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.2
10°-20°	397.0	6.9
20°-30°	629.5	10.9
30°-40°	700.6	12.2
40°-50°	637.7	11.1
50°-60°	521.1	9.0
60°-70°	372.0	6.5
70°-80°	204.9	3.6
80°-90°	58.2	1.0
90°-100°	50.1	0.9
100°-110°	148.5	2.6
110°-120°	252.1	4.4
120°-130°	332.4	5.8
130°-140°	373.3	6.5
140°-150°	366.9	6.4
150°-160°	308.6	5.4
160°-170°	205.3	3.6
170°-180°	71.9	1.2
0°-30°	1155.3	20.1
0°-40°	1855.8	32.2
0°-60°	3014.6	52.3
0°-90°	3649.7	63.4
90°-120°	450.8	7.8
90°-150°	1523.4	26.5
90°-180°	2109.0	36.6
0°-180°	5758.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	40
90°	18	2	18	2	18	10
95°	46	35	46	35	46	48
105°	144	137	144	137	144	151
115°	254	256	254	256	254	251
125°	370	373	370	373	370	330
135°	482	482	482	482	482	372
145°	586	585	586	585	586	366
155°	670	670	670	670	670	308
165°	728	730	728	730	728	205
175°	756	759	756	759	756	72
180°	760	760	760	760	760	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	13.2	14.4	14.3	14.7	15.6	15.9	16.2	15.6	17.2	17.5	19.0
90°	17.7	17.3	17.1	16.9	16.6	16.1	15.3	14.5	13.7	12.9	11.9
92.5°	26.1	26.0	25.8	25.7	25.5	25.2	24.7	24.2	23.8	23.3	22.6
95°	46.4	46.4	46.4	46.4	46.4	46.3	45.9	45.5	45.1	44.7	43.8
97.5°	72.8	72.8	72.8	72.8	72.8	72.6	72.1	71.6	71.1	70.7	69.6
100°	91.1	91.1	91.1	91.1	91.1	91.0	90.7	90.5	90.2	90.0	88.8
102.5°	111.9	111.7	111.6	111.5	111.4	111.1	110.8	110.4	110.1	109.7	108.6
105°	143.5	143.1	142.7	142.3	141.9	141.5	141.1	140.7	140.3	139.9	139.4
107.5°	174.3	174.3	174.4	174.4	174.4	174.2	173.8	173.5	173.1	172.8	172.7
110°	196.4	196.0	195.6	195.2	194.8	194.7	195.0	195.3	195.5	195.7	195.9



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.0	218.9	218.8	218.7	218.6	218.6	218.6	218.7	218.8	218.8	219.0
115°	254.0	254.1	254.3	254.4	254.5	254.6	254.8	254.9	255.0	255.2	255.4
117.5°	287.4	287.6	287.9	288.2	288.4	288.8	289.2	289.7	290.1	290.6	290.7
120°	312.8	312.5	312.3	312.0	311.7	312.0	312.6	313.2	313.9	314.6	315.0
122.5°	334.0	334.5	334.9	335.3	335.8	336.3	336.8	337.2	337.6	338.1	338.3
125°	370.4	370.7	370.9	371.2	371.5	371.7	372.0	372.2	372.5	372.7	372.9
127.5°	404.2	404.3	404.6	404.8	405.0	405.2	405.5	405.8	406.0	406.3	406.5
130°	426.3	426.7	427.3	427.9	428.3	428.7	429.0	429.3	429.5	429.8	429.8
132.5°	449.8	450.0	450.2	450.4	450.6	450.8	451.1	451.4	451.6	451.9	452.0
135°	482.1	482.5	482.9	483.3	483.7	484.0	484.3	484.5	484.8	485.1	485.1
137.5°	516.1	516.0	515.9	515.9	515.8	515.9	516.3	516.6	516.9	517.3	517.1
140°	536.8	536.9	537.0	537.2	537.3	537.4	537.6	537.7	537.8	538.0	538.0
142.5°	557.5	557.5	557.5	557.5	557.6	557.6	557.6	557.7	557.7	557.7	557.9
145°	585.6	586.0	586.4	586.8	587.2	587.4	587.6	587.7	587.8	588.0	587.8
147.5°	614.0	614.2	614.3	614.4	614.6	614.7	614.8	614.9	615.0	615.1	615.2
150°	631.4	631.6	631.7	631.8	632.0	632.1	632.1	632.1	632.1	632.1	632.1
152.5°	647.5	647.8	648.2	648.5	648.8	648.8	648.5	648.2	647.8	647.5	647.5
155°	669.7	670.2	670.7	671.2	671.8	671.8	671.2	670.7	670.2	669.7	669.8
157.5°	689.5	690.0	690.5	690.9	691.3	691.3	690.9	690.5	690.1	689.8	689.8
160°	700.8	701.5	702.1	702.8	703.5	703.6	703.2	702.8	702.4	702.0	702.1
162.5°	712.6	713.3	713.9	714.5	715.2	715.2	714.5	713.8	713.0	712.3	712.5
165°	727.9	728.4	728.9	729.4	730.0	729.8	729.0	728.3	727.5	726.7	727.0
167.5°	738.8	739.7	740.5	741.2	742.0	742.0	741.2	740.5	739.7	738.9	738.9
170°	745.0	745.8	746.8	747.7	748.6	748.7	747.9	747.1	746.3	745.5	745.4
172.5°	750.1	751.0	751.9	752.8	753.8	753.8	752.9	752.0	751.1	750.2	750.2
175°	755.5	756.5	757.3	758.3	759.1	759.1	758.3	757.3	756.5	755.5	755.7
177.5°	758.4	759.1	760.0	760.8	761.7	761.8	761.0	760.3	759.5	758.8	758.8
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	18.9	19.0	18.4	16.4	14.8	13.2	12.4	11.7	12.4	13.2	13.9
90°	10.9	9.8	8.8	7.5	6.1	4.7	3.2	1.7	3.2	4.7	6.1
92.5°	21.8	21.1	20.4	19.2	17.5	15.8	14.3	12.6	14.3	15.8	17.5
95°	42.9	41.9	41.0	40.0	38.8	37.6	36.4	35.3	36.4	37.6	38.8
97.5°	68.5	67.5	66.4	65.4	64.4	63.5	62.6	61.6	62.6	63.5	64.4
100°	87.6	86.4	85.2	84.4	83.9	83.3	82.9	82.3	82.9	83.3	83.9
102.5°	107.6	106.5	105.4	104.8	104.6	104.3	104.2	103.9	104.2	104.3	104.6
105°	138.9	138.4	137.8	137.5	137.4	137.3	137.1	137.0	137.1	137.3	137.4
107.5°	172.6	172.5	172.5	172.3	172.1	172.0	171.8	171.7	171.8	172.0	172.1
110°	196.1	196.1	196.3	196.2	196.0	195.7	195.4	195.2	195.4	195.7	196.0



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	219.3	219.5	219.8	219.8	219.8	219.8	219.7	219.7	219.7	219.8	219.8
115°	255.7	256.0	256.2	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4
117.5°	291.0	291.1	291.3	291.4	291.2	291.1	291.0	290.9	291.0	291.1	291.2
120°	315.4	315.8	316.1	316.1	315.5	315.0	314.5	313.9	314.5	315.0	315.5
122.5°	338.4	338.7	338.8	338.8	338.6	338.3	338.2	337.9	338.2	338.3	338.6
125°	373.0	373.1	373.3	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
127.5°	406.7	406.9	407.1	407.0	406.6	406.2	405.8	405.4	405.8	406.2	406.6
130°	429.8	429.8	429.8	429.6	429.2	428.8	428.4	428.0	428.4	428.8	429.2
132.5°	452.1	452.2	452.3	452.3	451.9	451.6	451.4	451.1	451.4	451.6	451.9
135°	485.1	485.1	485.1	484.7	483.9	483.1	482.3	481.6	482.3	483.1	483.9
137.5°	516.8	516.7	516.4	516.2	515.8	515.4	515.1	514.7	515.1	515.4	515.8
140°	538.0	538.0	538.0	537.8	537.6	537.3	537.0	536.8	537.0	537.3	537.6
142.5°	557.9	558.0	558.2	558.1	557.8	557.5	557.3	557.0	557.3	557.5	557.8
145°	587.7	587.6	587.4	587.1	586.6	586.1	585.5	585.0	585.5	586.1	586.6
147.5°	615.3	615.4	615.5	615.3	614.7	614.0	613.4	612.8	613.4	614.0	614.7
150°	632.1	632.1	632.1	631.8	631.3	630.7	630.2	629.7	630.2	630.7	631.3
152.5°	647.4	647.2	647.1	647.0	646.7	646.3	646.0	645.7	646.0	646.3	646.7
155°	669.9	670.0	670.2	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
157.5°	689.8	689.8	689.9	690.0	690.2	690.5	690.7	690.9	690.7	690.5	690.2
160°	702.3	702.4	702.5	702.7	702.8	702.9	703.1	703.2	703.1	702.9	702.8
162.5°	712.6	712.7	712.9	713.1	713.4	713.8	714.2	714.5	714.2	713.8	713.4
165°	727.2	727.5	727.8	728.1	728.5	728.9	729.3	729.7	729.3	728.9	728.5
167.5°	738.9	738.9	738.8	739.1	739.7	740.2	740.8	741.2	740.8	740.2	739.7
170°	745.3	745.1	745.0	745.3	745.9	746.6	747.2	747.9	747.2	746.6	745.9
172.5°	750.2	750.1	750.1	750.4	750.9	751.5	752.0	752.6	752.0	751.5	750.9
175°	755.7	755.9	756.1	756.5	757.1	757.7	758.4	759.1	758.4	757.7	757.1
177.5°	758.8	758.8	758.8	759.1	759.6	760.1	760.7	761.1	760.7	760.1	759.6
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	15.5	15.8	17.7	18.9	20.4	22.7	23.8	28.8	30.7	33.0	37.1
90°	7.5	8.8	9.8	10.9	11.9	12.9	13.7	14.5	15.3	16.1	16.6
92.5°	19.2	20.4	21.1	21.8	22.6	23.3	23.8	24.2	24.7	25.2	25.5
95°	40.0	41.0	41.9	42.9	43.8	44.7	45.1	45.5	45.9	46.3	46.4
97.5°	65.4	66.4	67.5	68.5	69.6	70.7	71.1	71.6	72.1	72.6	72.8
100°	84.4	85.2	86.4	87.6	88.8	90.0	90.2	90.5	90.7	91.0	91.1
102.5°	104.8	105.4	106.5	107.6	108.6	109.7	110.1	110.4	110.8	111.1	111.4
105°	137.5	137.8	138.4	138.9	139.4	139.9	140.3	140.7	141.1	141.5	141.9
107.5°	172.3	172.5	172.5	172.6	172.7	172.8	173.1	173.5	173.8	174.2	174.4
110°	196.2	196.3	196.1	196.1	195.9	195.7	195.5	195.3	195.0	194.7	194.8



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.8	219.8	219.5	219.3	219.0	218.8	218.8	218.7	218.6	218.6	218.6
115°	256.4	256.2	256.0	255.7	255.4	255.2	255.0	254.9	254.8	254.6	254.5
117.5°	291.4	291.3	291.1	291.0	290.7	290.6	290.1	289.7	289.2	288.8	288.4
120°	316.1	316.1	315.8	315.4	315.0	314.6	313.9	313.2	312.6	312.0	311.7
122.5°	338.8	338.8	338.7	338.4	338.3	338.1	337.6	337.2	336.8	336.3	335.8
125°	373.4	373.3	373.1	373.0	372.9	372.7	372.5	372.2	372.0	371.7	371.5
127.5°	407.0	407.1	406.9	406.7	406.5	406.3	406.0	405.8	405.5	405.2	405.0
130°	429.6	429.8	429.8	429.8	429.8	429.8	429.5	429.3	429.0	428.7	428.3
132.5°	452.3	452.3	452.2	452.1	452.0	451.9	451.6	451.4	451.1	450.8	450.6
135°	484.7	485.1	485.1	485.1	485.1	485.1	484.8	484.5	484.3	484.0	483.7
137.5°	516.2	516.4	516.7	516.8	517.1	517.3	516.9	516.6	516.3	515.9	515.8
140°	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.7	537.6	537.4	537.3
142.5°	558.1	558.2	558.0	557.9	557.9	557.7	557.7	557.7	557.6	557.6	557.6
145°	587.1	587.4	587.6	587.7	587.8	588.0	587.8	587.7	587.6	587.4	587.2
147.5°	615.3	615.5	615.4	615.3	615.2	615.1	615.0	614.9	614.8	614.7	614.6
150°	631.8	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.0
152.5°	647.0	647.1	647.2	647.4	647.5	647.5	647.8	648.2	648.5	648.8	648.8
155°	670.3	670.2	670.0	669.9	669.8	669.7	670.2	670.7	671.2	671.8	671.8
157.5°	690.0	689.9	689.8	689.8	689.8	689.8	690.1	690.5	690.9	691.3	691.3
160°	702.7	702.5	702.4	702.3	702.1	702.0	702.4	702.8	703.2	703.6	703.5
162.5°	713.1	712.9	712.7	712.6	712.5	712.3	713.0	713.8	714.5	715.2	715.2
165°	728.1	727.8	727.5	727.2	727.0	726.7	727.5	728.3	729.0	729.8	730.0
167.5°	739.1	738.8	738.9	738.9	738.9	738.9	739.7	740.5	741.2	742.0	742.0
170°	745.3	745.0	745.1	745.3	745.4	745.5	746.3	747.1	747.9	748.7	748.6
172.5°	750.4	750.1	750.1	750.2	750.2	750.2	751.1	752.0	752.9	753.8	753.8
175°	756.5	756.1	755.9	755.7	755.7	755.5	756.5	757.3	758.3	759.1	759.1
177.5°	759.1	758.8	758.8	758.8	758.8	758.8	759.5	760.3	761.0	761.8	761.7
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	38.4	38.9	40.2	41.2	40.2	38.9	38.4	37.1	33.0	30.7	28.8
90°	16.9	17.1	17.3	17.7	17.3	17.1	16.9	16.6	16.1	15.3	14.5
92.5°	25.7	25.8	26.0	26.1	26.0	25.8	25.7	25.5	25.2	24.7	24.2
95°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.3	45.9	45.5
97.5°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.6	72.1	71.6
100°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.0	90.7	90.5
102.5°	111.5	111.6	111.7	111.9	111.7	111.6	111.5	111.4	111.1	110.8	110.4
105°	142.3	142.7	143.1	143.5	143.1	142.7	142.3	141.9	141.5	141.1	140.7
107.5°	174.4	174.4	174.3	174.3	174.3	174.4	174.4	174.4	174.2	173.8	173.5
110°	195.2	195.6	196.0	196.4	196.0	195.6	195.2	194.8	194.7	195.0	195.3



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	218.7	218.8	218.9	219.0	218.9	218.8	218.7	218.6	218.6	218.6	218.7
115°	254.4	254.3	254.1	254.0	254.1	254.3	254.4	254.5	254.6	254.8	254.9
117.5°	288.2	287.9	287.6	287.4	287.6	287.9	288.2	288.4	288.8	289.2	289.7
120°	312.0	312.3	312.5	312.8	312.5	312.3	312.0	311.7	312.0	312.6	313.2
122.5°	335.3	334.9	334.5	334.0	334.5	334.9	335.3	335.8	336.3	336.8	337.2
125°	371.2	370.9	370.7	370.4	370.7	370.9	371.2	371.5	371.7	372.0	372.2
127.5°	404.8	404.6	404.3	404.2	404.3	404.6	404.8	405.0	405.2	405.5	405.8
130°	427.9	427.3	426.7	426.3	426.7	427.3	427.9	428.3	428.7	429.0	429.3
132.5°	450.4	450.2	450.0	449.8	450.0	450.2	450.4	450.6	450.8	451.1	451.4
135°	483.3	482.9	482.5	482.1	482.5	482.9	483.3	483.7	484.0	484.3	484.5
137.5°	515.9	515.9	516.0	516.1	516.0	515.9	515.9	515.8	515.9	516.3	516.6
140°	537.2	537.0	536.9	536.8	536.9	537.0	537.2	537.3	537.4	537.6	537.7
142.5°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.6	557.6	557.6	557.7
145°	586.8	586.4	586.0	585.6	586.0	586.4	586.8	587.2	587.4	587.6	587.7
147.5°	614.4	614.3	614.2	614.0	614.2	614.3	614.4	614.6	614.7	614.8	614.9
150°	631.8	631.7	631.6	631.4	631.6	631.7	631.8	632.0	632.1	632.1	632.1
152.5°	648.5	648.2	647.8	647.5	647.8	648.2	648.5	648.8	648.8	648.5	648.2
155°	671.2	670.7	670.2	669.7	670.2	670.7	671.2	671.8	671.8	671.2	670.7
157.5°	690.9	690.5	690.0	689.5	690.0	690.5	690.9	691.3	691.3	690.9	690.5
160°	702.8	702.1	701.5	700.8	701.5	702.1	702.8	703.5	703.6	703.2	702.8
162.5°	714.5	713.9	713.3	712.6	713.3	713.9	714.5	715.2	715.2	714.5	713.8
165°	729.4	728.9	728.4	727.9	728.4	728.9	729.4	730.0	729.8	729.0	728.3
167.5°	741.2	740.5	739.7	738.8	739.7	740.5	741.2	742.0	742.0	741.2	740.5
170°	747.7	746.8	745.8	745.0	745.8	746.8	747.7	748.6	748.7	747.9	747.1
172.5°	752.8	751.9	751.0	750.1	751.0	751.9	752.8	753.8	753.8	752.9	752.0
175°	758.3	757.3	756.5	755.5	756.5	757.3	758.3	759.1	759.1	758.3	757.3
177.5°	760.8	760.0	759.1	758.4	759.1	760.0	760.8	761.7	761.8	761.0	760.3
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	23.8	22.7	20.4	18.9	17.7	15.8	15.5	13.9	13.2	12.4	11.7
90°	13.7	12.9	11.9	10.9	9.8	8.8	7.5	6.1	4.7	3.2	1.7
92.5°	23.8	23.3	22.6	21.8	21.1	20.4	19.2	17.5	15.8	14.3	12.6
95°	45.1	44.7	43.8	42.9	41.9	41.0	40.0	38.8	37.6	36.4	35.3
97.5°	71.1	70.7	69.6	68.5	67.5	66.4	65.4	64.4	63.5	62.6	61.6
100°	90.2	90.0	88.8	87.6	86.4	85.2	84.4	83.9	83.3	82.9	82.3
102.5°	110.1	109.7	108.6	107.6	106.5	105.4	104.8	104.6	104.3	104.2	103.9
105°	140.3	139.9	139.4	138.9	138.4	137.8	137.5	137.4	137.3	137.1	137.0
107.5°	173.1	172.8	172.7	172.6	172.5	172.5	172.3	172.1	172.0	171.8	171.7
110°	195.5	195.7	195.9	196.1	196.1	196.3	196.2	196.0	195.7	195.4	195.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	218.8	218.8	219.0	219.3	219.5	219.8	219.8	219.8	219.8	219.7	219.7
115°	255.0	255.2	255.4	255.7	256.0	256.2	256.4	256.4	256.4	256.4	256.4
117.5°	290.1	290.6	290.7	291.0	291.1	291.3	291.4	291.2	291.1	291.0	290.9
120°	313.9	314.6	315.0	315.4	315.8	316.1	316.1	315.5	315.0	314.5	313.9
122.5°	337.6	338.1	338.3	338.4	338.7	338.8	338.8	338.6	338.3	338.2	337.9
125°	372.5	372.7	372.9	373.0	373.1	373.3	373.4	373.4	373.4	373.4	373.4
127.5°	406.0	406.3	406.5	406.7	406.9	407.1	407.0	406.6	406.2	405.8	405.4
130°	429.5	429.8	429.8	429.8	429.8	429.8	429.6	429.2	428.8	428.4	428.0
132.5°	451.6	451.9	452.0	452.1	452.2	452.3	452.3	451.9	451.6	451.4	451.1
135°	484.8	485.1	485.1	485.1	485.1	485.1	484.7	483.9	483.1	482.3	481.6
137.5°	516.9	517.3	517.1	516.8	516.7	516.4	516.2	515.8	515.4	515.1	514.7
140°	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.6	537.3	537.0	536.8
142.5°	557.7	557.7	557.9	557.9	558.0	558.2	558.1	557.8	557.5	557.3	557.0
145°	587.8	588.0	587.8	587.7	587.6	587.4	587.1	586.6	586.1	585.5	585.0
147.5°	615.0	615.1	615.2	615.3	615.4	615.5	615.3	614.7	614.0	613.4	612.8
150°	632.1	632.1	632.1	632.1	632.1	632.1	631.8	631.3	630.7	630.2	629.7
152.5°	647.8	647.5	647.5	647.4	647.2	647.1	647.0	646.7	646.3	646.0	645.7
155°	670.2	669.7	669.8	669.9	670.0	670.2	670.3	670.3	670.3	670.3	670.3
157.5°	690.1	689.8	689.8	689.8	689.8	689.9	690.0	690.2	690.5	690.7	690.9
160°	702.4	702.0	702.1	702.3	702.4	702.5	702.7	702.8	702.9	703.1	703.2
162.5°	713.0	712.3	712.5	712.6	712.7	712.9	713.1	713.4	713.8	714.2	714.5
165°	727.5	726.7	727.0	727.2	727.5	727.8	728.1	728.5	728.9	729.3	729.7
167.5°	739.7	738.9	738.9	738.9	738.9	738.8	739.1	739.7	740.2	740.8	741.2
170°	746.3	745.5	745.4	745.3	745.1	745.0	745.3	745.9	746.6	747.2	747.9
172.5°	751.1	750.2	750.2	750.2	750.1	750.1	750.4	750.9	751.5	752.0	752.6
175°	756.5	755.5	755.7	755.7	755.9	756.1	756.5	757.1	757.7	758.4	759.1
177.5°	759.5	758.8	758.8	758.8	758.8	758.8	759.1	759.6	760.1	760.7	761.1
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.4	13.2	14.8	16.4	18.4	19.0	18.9	19.0	17.5	17.2	15.6
90°	3.2	4.7	6.1	7.5	8.8	9.8	10.9	11.9	12.9	13.7	14.5
92.5°	14.3	15.8	17.5	19.2	20.4	21.1	21.8	22.6	23.3	23.8	24.2
95°	36.4	37.6	38.8	40.0	41.0	41.9	42.9	43.8	44.7	45.1	45.5
97.5°	62.6	63.5	64.4	65.4	66.4	67.5	68.5	69.6	70.7	71.1	71.6
100°	82.9	83.3	83.9	84.4	85.2	86.4	87.6	88.8	90.0	90.2	90.5
102.5°	104.2	104.3	104.6	104.8	105.4	106.5	107.6	108.6	109.7	110.1	110.4
105°	137.1	137.3	137.4	137.5	137.8	138.4	138.9	139.4	139.9	140.3	140.7
107.5°	171.8	172.0	172.1	172.3	172.5	172.5	172.6	172.7	172.8	173.1	173.5
110°	195.4	195.7	196.0	196.2	196.3	196.1	196.1	195.9	195.7	195.5	195.3



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.7	219.8	219.8	219.8	219.8	219.5	219.3	219.0	218.8	218.8	218.7
115°	256.4	256.4	256.4	256.4	256.2	256.0	255.7	255.4	255.2	255.0	254.9
117.5°	291.0	291.1	291.2	291.4	291.3	291.1	291.0	290.7	290.6	290.1	289.7
120°	314.5	315.0	315.5	316.1	316.1	315.8	315.4	315.0	314.6	313.9	313.2
122.5°	338.2	338.3	338.6	338.8	338.8	338.7	338.4	338.3	338.1	337.6	337.2
125°	373.4	373.4	373.4	373.4	373.3	373.1	373.0	372.9	372.7	372.5	372.2
127.5°	405.8	406.2	406.6	407.0	407.1	406.9	406.7	406.5	406.3	406.0	405.8
130°	428.4	428.8	429.2	429.6	429.8	429.8	429.8	429.8	429.8	429.5	429.3
132.5°	451.4	451.6	451.9	452.3	452.3	452.2	452.1	452.0	451.9	451.6	451.4
135°	482.3	483.1	483.9	484.7	485.1	485.1	485.1	485.1	485.1	484.8	484.5
137.5°	515.1	515.4	515.8	516.2	516.4	516.7	516.8	517.1	517.3	516.9	516.6
140°	537.0	537.3	537.6	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.7
142.5°	557.3	557.5	557.8	558.1	558.2	558.0	557.9	557.9	557.7	557.7	557.7
145°	585.5	586.1	586.6	587.1	587.4	587.6	587.7	587.8	588.0	587.8	587.7
147.5°	613.4	614.0	614.7	615.3	615.5	615.4	615.3	615.2	615.1	615.0	614.9
150°	630.2	630.7	631.3	631.8	632.1	632.1	632.1	632.1	632.1	632.1	632.1
152.5°	646.0	646.3	646.7	647.0	647.1	647.2	647.4	647.5	647.5	647.8	648.2
155°	670.3	670.3	670.3	670.3	670.2	670.0	669.9	669.8	669.7	670.2	670.7
157.5°	690.7	690.5	690.2	690.0	689.9	689.8	689.8	689.8	689.8	690.1	690.5
160°	703.1	702.9	702.8	702.7	702.5	702.4	702.3	702.1	702.0	702.4	702.8
162.5°	714.2	713.8	713.4	713.1	712.9	712.7	712.6	712.5	712.3	713.0	713.8
165°	729.3	728.9	728.5	728.1	727.8	727.5	727.2	727.0	726.7	727.5	728.3
167.5°	740.8	740.2	739.7	739.1	738.8	738.9	738.9	738.9	738.9	739.7	740.5
170°	747.2	746.6	745.9	745.3	745.0	745.1	745.3	745.4	745.5	746.3	747.1
172.5°	752.0	751.5	750.9	750.4	750.1	750.1	750.2	750.2	750.2	751.1	752.0
175°	758.4	757.7	757.1	756.5	756.1	755.9	755.7	755.7	755.5	756.5	757.3
177.5°	760.7	760.1	759.6	759.1	758.8	758.8	758.8	758.8	758.8	759.5	760.3
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	16.2	15.9	15.6	14.7	14.3	14.4	13.2
90°	15.3	16.1	16.6	16.9	17.1	17.3	17.7
92.5°	24.7	25.2	25.5	25.7	25.8	26.0	26.1
95°	45.9	46.3	46.4	46.4	46.4	46.4	46.4
97.5°	72.1	72.6	72.8	72.8	72.8	72.8	72.8
100°	90.7	91.0	91.1	91.1	91.1	91.1	91.1
102.5°	110.8	111.1	111.4	111.5	111.6	111.7	111.9
105°	141.1	141.5	141.9	142.3	142.7	143.1	143.5
107.5°	173.8	174.2	174.4	174.4	174.4	174.3	174.3
110°	195.0	194.7	194.8	195.2	195.6	196.0	196.4



TEST NUMBER: P332812-927

CATALOG NUMBER: S124DIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	218.6	218.6	218.6	218.7	218.8	218.9	219.0
115°	254.8	254.6	254.5	254.4	254.3	254.1	254.0
117.5°	289.2	288.8	288.4	288.2	287.9	287.6	287.4
120°	312.6	312.0	311.7	312.0	312.3	312.5	312.8
122.5°	336.8	336.3	335.8	335.3	334.9	334.5	334.0
125°	372.0	371.7	371.5	371.2	370.9	370.7	370.4
127.5°	405.5	405.2	405.0	404.8	404.6	404.3	404.2
130°	429.0	428.7	428.3	427.9	427.3	426.7	426.3
132.5°	451.1	450.8	450.6	450.4	450.2	450.0	449.8
135°	484.3	484.0	483.7	483.3	482.9	482.5	482.1
137.5°	516.3	515.9	515.8	515.9	515.9	516.0	516.1
140°	537.6	537.4	537.3	537.2	537.0	536.9	536.8
142.5°	557.6	557.6	557.6	557.5	557.5	557.5	557.5
145°	587.6	587.4	587.2	586.8	586.4	586.0	585.6
147.5°	614.8	614.7	614.6	614.4	614.3	614.2	614.0
150°	632.1	632.1	632.0	631.8	631.7	631.6	631.4
152.5°	648.5	648.8	648.8	648.5	648.2	647.8	647.5
155°	671.2	671.8	671.8	671.2	670.7	670.2	669.7
157.5°	690.9	691.3	691.3	690.9	690.5	690.0	689.5
160°	703.2	703.6	703.5	702.8	702.1	701.5	700.8
162.5°	714.5	715.2	715.2	714.5	713.9	713.3	712.6
165°	729.0	729.8	730.0	729.4	728.9	728.4	727.9
167.5°	741.2	742.0	742.0	741.2	740.5	739.7	738.8
170°	747.9	748.7	748.6	747.7	746.8	745.8	745.0
172.5°	752.9	753.8	753.8	752.8	751.9	751.0	750.1
175°	758.3	759.1	759.1	758.3	757.3	756.5	755.5
177.5°	761.0	761.8	761.7	760.8	760.0	759.1	758.4
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2

(END OF REPORT)