

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: P332180-940

Luminaire Tested: **S123DIW-S1000D460U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332180-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1000D460U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

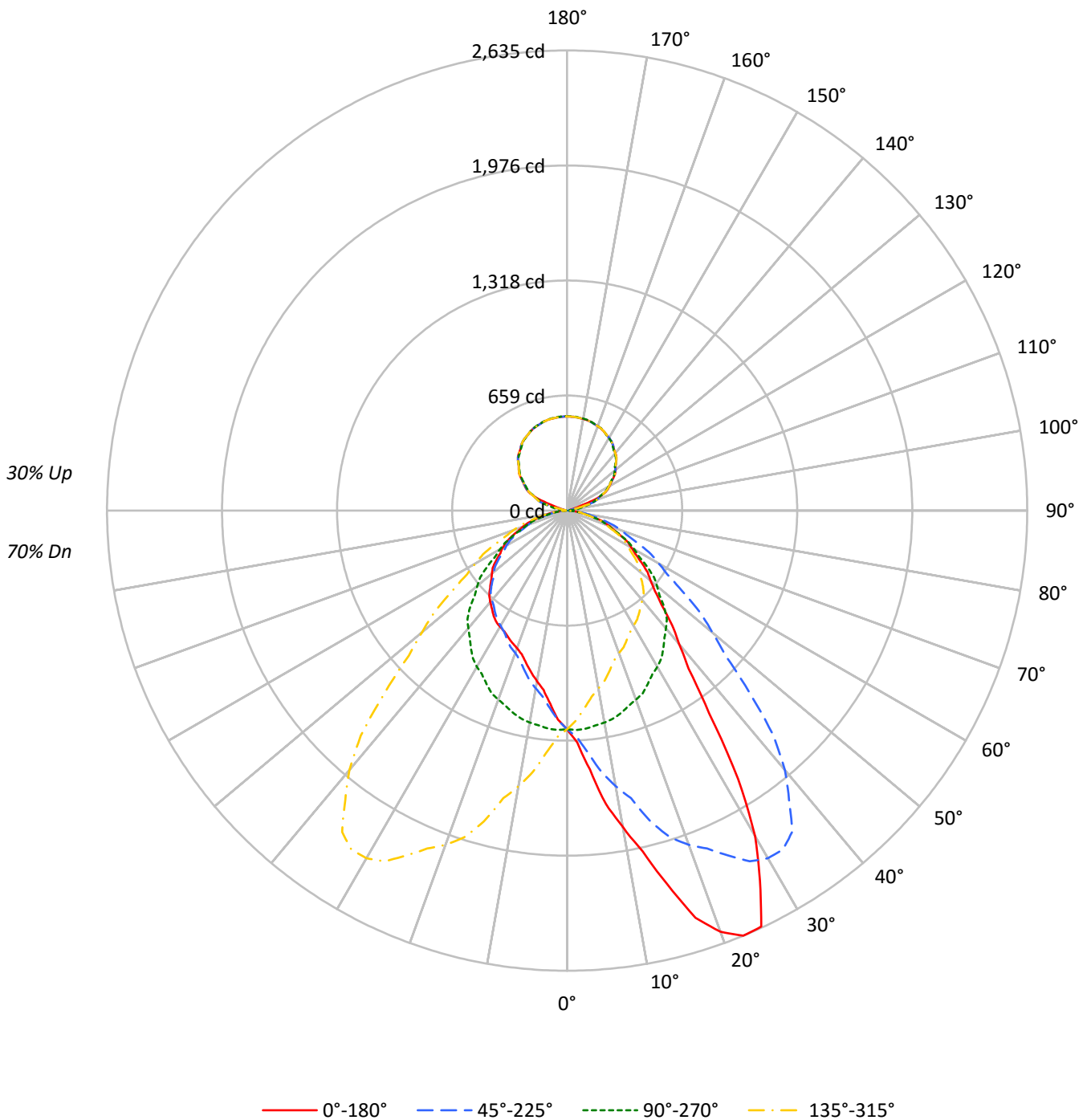
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	74	74	74	74	74	74	70																			
1	103	98	94	91	97	93	90	87	83	81	78	74	73	71	66	65	64	64	64	64	64	64	64	64	64	64	60																			
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	54	54	54	54	54	54	54	54	54	50																			
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	46	46	46	46	46	46	46	46	46	43																			
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	40	40	40	40	40	40	40	40	40	37																			
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	35	35	35	35	35	35	35	35	35	32																			
6	67	55	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	31	31	31	31	31	31	31	31	31	29																			
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	28	28	28	28	28	28	28	28	28	25																			
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25	25	25	25	25	25	25	25	25	25	23																			
9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	23	23	23	23	23	23	20																			
10	50	38	30	26	48	36	29	25	33	27	23	30	25	22	28	24	20	20	20	20	20	20	20	20	20	20	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13481	13481	13481	13481
5°	16077	13539	11998	13539
10°	20122	13470	10837	13470
15°	24681	13362	10089	13362
20°	29402	13192	9606	13192
25°	31220	12986	9499	12986
30°	26759	12837	9548	12837
35°	18611	12623	9648	12623
40°	14018	12372	9618	12372
45°	11639	12000	9496	12000
50°	10426	11238	9409	11238
55°	9747	10419	9293	10419
60°	9143	9563	9197	9563
65°	8593	8716	8904	8716
70°	8060	7755	8478	7755
75°	7216	6791	7773	6791
80°	6316	5566	6695	5566
85°	4940	4039	4495	4039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	2.3
10°-20°	395.6	7.3
20°-30°	664.0	12.2
30°-40°	751.8	13.9
40°-50°	674.2	12.4
50°-60°	544.1	10.0
60°-70°	379.1	7.0
70°-80°	199.3	3.7
80°-90°	50.2	0.9
90°-100°	19.6	0.4
100°-110°	93.4	1.7
110°-120°	224.4	4.1
120°-130°	285.8	5.3
130°-140°	305.4	5.6
140°-150°	285.5	5.3
150°-160°	230.3	4.2
160°-170°	148.7	2.7
170°-180°	51.2	0.9
0°-30°	1182.9	21.8
0°-40°	1934.7	35.7
0°-60°	3153.0	58.1
0°-90°	3781.6	69.7
90°-120°	337.5	6.2
90°-150°	1214.2	22.4
90°-180°	1644.0	30.3
0°-180°	5426.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1488	1253	1110	1253	1488	154
15°	2215	1199	905	1199	2215	639
25°	2629	1093	800	1093	2629	1153
35°	1416	961	734	961	1416	920
45°	765	788	624	788	765	605
55°	519	555	495	555	519	466
65°	337	342	350	342	337	336
75°	174	163	187	163	174	186
85°	40	33	36	33	40	48
90°	12	0	12	0	12	7
95°	15	24	15	24	15	13
105°	18	119	18	119	18	40
115°	236	224	236	224	236	218
125°	322	316	322	316	322	288
135°	397	393	397	393	397	306
145°	458	454	458	454	458	286
155°	499	500	499	500	499	230
165°	526	527	526	527	526	148
175°	537	539	537	539	537	51
180°	539	539	539	539	539	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1329.1	1328.2	1325.7	1327.7	1323.8	1318.5	1317.9	1313.1	1299.0	1298.1	1294.2
5°	1487.9	1483.0	1482.4	1481.8	1473.3	1461.8	1439.9	1438.2	1409.0	1394.5	1376.8
7.5°	1693.4	1696.0	1687.1	1679.4	1653.4	1636.3	1612.8	1582.9	1547.1	1510.8	1486.7
10°	1841.0	1861.1	1836.2	1819.2	1803.4	1773.7	1739.1	1696.0	1653.0	1602.6	1564.3
12.5°	1999.3	2009.1	2004.1	1988.2	1963.6	1918.3	1857.1	1809.6	1770.0	1686.0	1652.2
15°	2214.8	2251.8	2228.2	2173.5	2174.8	2131.7	2051.6	1963.6	1916.9	1843.4	1743.4
17.5°	2444.4	2449.1	2439.0	2393.4	2363.1	2303.9	2230.0	2145.6	2051.0	1962.1	1856.0
20°	2566.8	2563.1	2541.9	2518.2	2466.0	2419.9	2339.2	2245.1	2123.8	2036.4	1920.6
22.5°	2634.7	2628.7	2618.6	2598.8	2555.4	2505.9	2433.4	2330.6	2215.1	2094.7	1960.8
25°	2628.7	2636.5	2637.8	2632.3	2617.2	2587.4	2530.3	2448.5	2333.2	2178.4	2038.9
27.5°	2390.8	2402.0	2434.4	2463.2	2495.3	2528.1	2523.7	2483.1	2397.7	2264.1	2093.5
30°	2152.9	2128.7	2188.7	2264.6	2316.1	2407.2	2458.2	2461.2	2413.2	2298.6	2132.3
32.5°	1822.8	1849.5	1876.1	1969.4	2082.1	2184.3	2285.8	2367.5	2376.9	2300.5	2155.1
35°	1416.3	1449.7	1498.2	1546.8	1668.1	1772.5	1950.9	2106.2	2230.0	2246.4	2157.1
37.5°	1141.3	1157.8	1188.5	1237.2	1316.5	1440.3	1578.3	1774.7	1954.0	2087.4	2093.2
40°	997.6	1002.5	1037.1	1074.1	1138.4	1240.3	1364.7	1538.2	1753.0	1939.4	2017.0
42.5°	889.8	900.4	915.2	950.7	1001.9	1078.6	1194.3	1337.7	1534.6	1749.0	1900.9
45°	764.6	776.7	785.8	809.5	845.9	897.4	978.2	1109.2	1259.1	1480.6	1685.1
47.5°	681.8	682.8	689.6	707.4	732.2	770.9	828.0	912.1	1049.7	1229.4	1439.3
50°	622.6	632.3	634.7	648.6	668.1	696.6	744.0	815.6	928.4	1086.2	1279.2
52.5°	580.9	583.7	590.6	600.7	617.6	639.8	680.8	736.9	825.5	959.9	1137.4
55°	519.4	519.4	526.1	534.0	543.7	563.7	591.0	632.3	699.6	804.1	950.8
57.5°	462.6	465.7	470.4	472.8	481.1	494.3	517.1	548.4	598.7	679.0	795.8
60°	424.7	430.3	429.6	434.4	441.8	452.1	471.4	497.0	541.9	606.2	704.5
62.5°	391.7	391.4	391.3	397.1	404.4	414.2	426.9	448.9	487.1	544.0	627.8
65°	337.4	336.2	340.5	344.0	346.5	353.7	363.5	382.9	408.4	450.8	515.8
67.5°	289.1	285.5	287.8	289.1	293.2	298.9	308.0	320.0	340.3	374.4	423.3
70°	256.1	253.1	252.4	253.6	257.3	261.5	268.2	279.7	298.5	325.8	361.7
72.5°	222.1	220.0	219.9	222.6	224.3	227.0	231.8	242.4	257.3	277.8	311.2
75°	173.5	173.5	173.5	174.2	175.9	178.4	182.0	187.5	199.0	213.6	236.0
77.5°	130.1	130.0	129.2	129.1	131.8	132.9	133.8	138.8	145.3	155.1	171.5
80°	101.9	98.9	100.1	101.9	103.2	103.8	105.6	106.8	112.3	117.7	129.2
82.5°	75.7	73.2	73.4	76.2	76.4	77.0	78.9	80.6	82.7	87.7	93.8
85°	40.0	40.0	40.7	40.7	41.3	40.7	42.4	43.1	43.1	46.1	49.8
87.5°	16.9	16.0	16.4	16.9	16.3	16.8	17.2	17.6	18.0	18.5	18.7
90°	12.0	11.9	11.7	11.5	11.3	11.1	10.7	10.3	10.0	9.6	8.5
92.5°	13.3	13.2	13.1	13.0	12.8	12.6	11.9	11.4	10.8	10.3	9.4
95°	15.2	15.2	15.2	15.2	15.2	14.9	14.3	13.6	13.0	12.4	11.4
97.5°	16.5	16.4	16.3	16.2	16.1	15.8	15.1	14.4	13.6	12.9	19.4
100°	16.9	16.8	16.7	16.6	16.5	16.1	15.3	14.6	13.9	13.2	27.1
102.5°	17.1	16.9	16.9	16.7	16.5	17.6	19.7	21.9	24.2	26.4	41.6
105°	17.7	17.5	17.3	17.1	16.9	24.7	40.5	56.2	72.0	87.7	95.8
107.5°	55.4	67.2	79.1	91.0	102.9	114.6	126.2	137.7	149.3	160.8	159.5
110°	110.2	122.9	135.6	148.4	161.1	168.9	171.8	174.8	177.7	180.7	179.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	189.0	191.7	194.4	197.1	199.7	201.1	201.0	201.0	200.9	200.9	199.9
115°	235.6	235.2	234.9	234.5	234.2	233.5	232.6	231.8	230.9	230.0	229.2
117.5°	261.7	261.6	261.5	261.4	261.4	261.0	260.3	259.6	258.9	258.2	257.8
120°	279.6	279.6	279.6	279.6	279.6	279.3	278.6	277.9	277.1	276.4	276.2
122.5°	297.3	297.2	297.1	297.0	296.9	296.7	296.2	295.7	295.2	294.7	294.4
125°	322.1	321.9	321.7	321.6	321.4	321.2	321.0	320.8	320.7	320.5	320.1
127.5°	346.0	346.2	346.3	346.5	346.7	346.6	346.3	346.1	345.8	345.5	345.1
130°	361.3	361.5	361.7	361.9	362.0	361.9	361.6	361.2	360.9	360.5	360.3
132.5°	375.5	375.7	375.9	376.2	376.5	376.4	376.0	375.7	375.3	375.0	374.7
135°	397.0	397.3	397.5	397.8	398.1	398.1	397.8	397.5	397.3	397.0	396.6
137.5°	417.3	417.5	417.7	417.9	418.0	417.9	417.4	417.1	416.6	416.2	416.0
140°	429.4	429.6	429.8	430.0	430.2	430.1	429.7	429.4	429.0	428.6	428.4
142.5°	440.7	441.0	441.2	441.4	441.7	441.7	441.4	441.1	440.8	440.5	440.2
145°	457.9	457.9	457.9	457.9	457.9	457.8	457.6	457.4	457.3	457.1	456.9
147.5°	470.7	471.2	471.5	472.0	472.3	472.5	472.3	472.2	472.0	471.8	471.6
150°	480.4	480.6	480.9	481.2	481.4	481.4	481.3	481.1	480.9	480.7	480.5
152.5°	488.0	488.5	488.8	489.3	489.6	489.7	489.4	489.1	488.7	488.5	488.3
155°	498.8	499.3	499.8	500.3	500.9	501.0	500.5	500.1	499.6	499.2	499.1
157.5°	507.8	508.5	509.3	509.9	510.6	510.7	510.1	509.6	509.1	508.5	508.6
160°	513.6	514.2	514.9	515.5	516.1	516.1	515.6	515.1	514.5	514.0	514.1
162.5°	519.1	519.6	520.1	520.7	521.3	521.2	520.7	520.0	519.4	518.8	518.9
165°	525.7	526.3	526.9	527.4	528.1	528.1	527.4	526.6	525.9	525.2	525.3
167.5°	530.4	531.1	531.8	532.4	533.2	533.2	532.4	531.8	531.1	530.4	530.4
170°	533.2	534.0	534.7	535.4	536.1	536.1	535.4	534.7	534.0	533.2	533.2
172.5°	534.8	535.7	536.4	537.2	538.0	538.0	537.3	536.5	535.8	535.1	535.1
175°	537.3	538.0	538.7	539.4	540.1	540.1	539.5	538.9	538.2	537.6	537.5
177.5°	538.0	538.7	539.4	540.1	540.8	540.9	540.3	539.8	539.1	538.6	538.5
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1291.3	1287.4	1283.5	1276.8	1270.9	1262.7	1260.2	1257.3	1248.6	1240.8	1234.9
5°	1370.1	1355.6	1334.4	1314.9	1299.1	1277.9	1265.8	1253.0	1234.8	1218.4	1205.1
7.5°	1452.7	1424.1	1391.1	1355.3	1322.1	1290.0	1264.2	1241.2	1215.7	1191.5	1172.7
10°	1518.2	1476.9	1430.8	1381.1	1338.6	1297.4	1262.8	1232.4	1199.6	1171.1	1147.5
12.5°	1593.0	1531.8	1468.2	1407.7	1357.5	1300.3	1258.4	1219.8	1182.7	1148.3	1121.8
15°	1681.4	1603.7	1528.6	1445.4	1369.0	1297.4	1247.6	1199.1	1155.9	1120.8	1086.8
17.5°	1762.0	1674.0	1574.9	1473.8	1381.5	1296.6	1227.0	1172.1	1118.2	1075.1	1041.3
20°	1807.7	1707.5	1595.3	1490.3	1388.4	1293.7	1217.3	1151.7	1093.4	1047.9	1009.7
22.5°	1847.0	1729.8	1613.7	1501.5	1387.9	1285.9	1199.3	1131.8	1068.7	1024.1	983.5
25°	1887.8	1747.6	1631.1	1499.4	1372.6	1267.0	1169.9	1093.4	1030.4	978.2	936.3
27.5°	1922.7	1746.4	1608.1	1466.5	1348.5	1242.7	1139.1	1057.0	990.1	933.4	890.9
30°	1946.0	1748.8	1584.4	1444.2	1325.3	1216.0	1115.3	1032.8	962.4	904.7	864.7
32.5°	1960.6	1747.3	1562.5	1413.1	1288.3	1191.8	1089.6	1004.2	931.8	875.1	836.5
35°	1969.1	1736.7	1524.9	1348.9	1228.8	1134.7	1049.2	960.6	884.8	832.0	788.3
37.5°	1952.0	1714.2	1481.2	1287.0	1155.5	1062.8	990.9	915.4	842.8	784.7	747.1
40°	1925.4	1699.7	1447.2	1243.3	1105.0	1015.7	954.5	880.5	808.9	753.7	718.5
42.5°	1874.4	1670.0	1409.9	1194.8	1052.6	963.3	907.0	845.1	777.3	725.5	690.3
45°	1750.0	1605.6	1353.8	1122.0	975.1	882.9	833.1	788.3	726.9	676.5	646.2
47.5°	1577.4	1508.6	1272.7	1045.2	894.3	805.6	753.9	717.7	673.0	632.3	603.2
50°	1457.5	1429.1	1217.8	992.7	840.4	753.7	703.9	671.1	639.0	598.3	571.6
52.5°	1319.2	1336.8	1153.8	938.3	785.6	700.3	653.4	627.4	598.2	564.8	541.5
55°	1124.4	1188.1	1043.1	847.1	703.9	622.6	578.3	555.2	538.2	513.4	493.3
57.5°	942.0	1023.1	923.5	753.0	623.7	553.5	511.0	485.9	475.0	462.0	446.2
60°	833.7	913.8	838.0	689.9	569.8	503.0	465.4	444.2	433.3	424.2	410.8
62.5°	737.2	818.2	754.5	625.9	516.8	455.0	422.2	401.4	393.0	388.3	376.8
65°	604.4	674.1	631.7	526.1	441.1	386.6	356.8	342.2	334.4	332.5	325.2
67.5°	491.9	545.0	514.1	436.4	369.5	322.4	297.1	284.7	278.7	278.0	272.6
70°	418.1	467.9	444.2	373.8	316.1	279.1	257.3	246.4	242.7	242.1	239.1
72.5°	360.8	395.5	376.7	318.0	273.4	239.8	223.8	212.4	208.2	209.1	207.1
75°	267.0	293.1	282.1	241.5	205.7	183.9	170.5	163.3	159.6	161.4	159.0
77.5°	192.1	208.7	198.8	170.7	148.6	132.8	123.0	118.4	115.2	115.0	114.0
80°	145.0	154.7	149.3	132.2	114.0	100.8	92.8	89.8	88.0	87.4	86.8
82.5°	103.3	111.6	105.1	93.5	81.1	73.0	68.6	64.6	63.2	63.6	63.0
85°	52.2	55.2	52.8	45.5	40.7	37.0	34.6	32.7	31.6	32.2	30.9
87.5°	19.4	19.7	18.0	15.9	14.7	13.0	12.8	11.8	11.0	11.1	10.8
90°	7.3	6.2	5.0	3.9	3.0	2.1	1.2	0.4	1.2	2.1	3.0
92.5°	8.5	7.7	6.8	6.4	6.7	7.0	7.2	7.5	7.2	7.0	6.7
95°	10.4	9.5	8.5	9.8	13.5	17.1	20.8	24.4	20.8	17.1	13.5
97.5°	25.7	32.1	38.5	42.5	44.2	45.8	47.4	49.1	47.4	45.8	44.2
100°	41.0	54.9	68.8	74.8	73.0	71.2	69.5	67.7	69.5	71.2	73.0
102.5°	56.7	71.9	87.0	94.0	92.7	91.4	90.2	88.8	90.2	91.4	92.7
105°	103.8	111.7	119.8	123.3	122.3	121.4	120.4	119.4	120.4	121.4	122.3
107.5°	158.3	157.0	155.8	154.7	153.9	153.2	152.4	151.6	152.4	153.2	153.9
110°	178.7	177.7	176.7	175.9	175.2	174.5	173.8	173.1	173.8	174.5	175.2



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	198.9	198.0	197.0	196.2	195.5	194.8	194.2	193.6	194.2	194.8	195.5
115°	228.4	227.6	226.8	226.0	225.5	225.0	224.4	223.9	224.4	225.0	225.5
117.5°	257.3	256.9	256.5	256.0	255.3	254.7	254.0	253.3	254.0	254.7	255.3
120°	275.9	275.6	275.4	274.8	274.0	273.2	272.4	271.6	272.4	273.2	274.0
122.5°	294.0	293.7	293.4	292.8	292.2	291.5	290.9	290.3	290.9	291.5	292.2
125°	319.8	319.4	319.1	318.5	317.8	317.1	316.4	315.7	316.4	317.1	317.8
127.5°	344.6	344.2	343.8	343.2	342.5	341.8	341.1	340.4	341.1	341.8	342.5
130°	359.9	359.5	359.2	358.6	357.9	357.2	356.5	355.8	356.5	357.2	357.9
132.5°	374.4	374.2	373.8	373.4	372.6	371.9	371.2	370.5	371.2	371.9	372.6
135°	396.3	395.9	395.6	395.1	394.6	394.0	393.5	393.0	393.5	394.0	394.6
137.5°	415.8	415.6	415.4	414.9	414.3	413.6	413.0	412.2	413.0	413.6	414.3
140°	428.1	427.8	427.6	427.2	426.7	426.1	425.6	425.1	425.6	426.1	426.7
142.5°	440.0	439.7	439.4	439.1	438.5	438.0	437.5	436.9	437.5	438.0	438.5
145°	456.7	456.6	456.4	456.0	455.4	454.8	454.1	453.5	454.1	454.8	455.4
147.5°	471.4	471.3	471.1	470.7	470.4	469.9	469.6	469.1	469.6	469.9	470.4
150°	480.4	480.2	480.0	479.8	479.6	479.3	479.0	478.8	479.0	479.3	479.6
152.5°	488.2	488.1	488.0	487.9	487.8	487.7	487.5	487.4	487.5	487.7	487.8
155°	499.0	498.9	498.8	498.9	499.1	499.2	499.4	499.5	499.4	499.2	499.1
157.5°	508.7	508.8	508.9	509.0	509.0	509.0	509.0	509.1	509.0	509.0	509.0
160°	514.2	514.2	514.3	514.4	514.5	514.6	514.7	514.8	514.7	514.6	514.5
162.5°	519.0	519.1	519.2	519.3	519.6	519.8	520.0	520.2	520.0	519.8	519.6
165°	525.4	525.5	525.6	525.8	526.0	526.3	526.6	526.8	526.6	526.3	526.0
167.5°	530.4	530.4	530.4	530.6	530.9	531.3	531.6	532.0	531.6	531.3	530.9
170°	533.2	533.2	533.2	533.4	533.8	534.1	534.5	534.8	534.5	534.1	533.8
172.5°	535.0	534.9	534.8	535.0	535.5	535.9	536.4	536.7	536.4	535.9	535.5
175°	537.4	537.3	537.3	537.4	537.9	538.3	538.8	539.2	538.8	538.3	537.9
177.5°	538.4	538.4	538.3	538.4	538.8	539.1	539.5	539.8	539.5	539.1	538.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1231.5	1228.2	1223.3	1216.0	1210.2	1201.0	1201.0	1202.5	1202.5	1201.9	1201.0
5°	1194.2	1185.1	1174.2	1161.5	1148.1	1134.7	1132.3	1127.5	1123.8	1121.3	1118.3
7.5°	1154.8	1138.6	1122.7	1104.8	1088.6	1075.1	1065.8	1058.0	1053.0	1047.7	1043.8
10°	1128.0	1108.0	1089.2	1070.4	1049.7	1033.4	1023.1	1015.7	1010.3	1005.5	1003.1
12.5°	1096.4	1073.5	1052.8	1034.9	1012.4	995.5	985.7	982.3	975.9	965.6	960.3
15°	1050.3	1029.1	1004.2	977.0	966.0	945.4	933.9	928.4	924.8	916.9	914.4
17.5°	1010.9	983.1	955.2	934.9	914.5	897.9	891.4	884.6	879.8	873.3	871.4
20°	979.4	954.5	929.0	907.1	885.9	867.7	862.3	857.4	852.6	849.5	847.1
22.5°	947.4	922.5	901.3	880.9	858.3	846.3	840.4	835.1	831.7	829.6	827.2
25°	902.3	880.5	856.8	838.6	820.4	812.5	808.9	805.8	803.4	800.4	799.8
27.5°	862.0	838.2	819.0	802.1	789.0	782.4	778.9	777.4	777.9	779.0	779.7
30°	832.0	810.1	794.3	779.7	767.6	761.5	760.9	760.9	763.4	763.9	765.2
32.5°	804.2	786.3	770.5	756.4	747.3	743.1	745.4	745.4	747.3	748.9	751.1
35°	763.9	748.1	736.0	723.9	716.0	717.8	719.1	720.2	723.3	726.9	729.4
37.5°	725.5	711.8	699.2	689.6	686.1	689.3	692.2	694.8	698.3	701.1	703.6
40°	697.9	687.5	675.4	666.9	668.1	669.9	672.3	675.4	678.4	680.2	682.7
42.5°	672.1	661.3	652.1	645.1	646.8	649.1	650.5	652.1	655.6	658.9	660.3
45°	632.9	624.4	615.9	611.6	612.9	614.1	615.3	617.2	620.2	622.6	623.2
47.5°	588.8	582.9	577.2	573.1	575.0	574.5	576.1	580.0	580.9	582.4	585.8
50°	560.7	555.2	548.6	547.3	547.3	547.3	548.0	552.8	552.8	555.2	557.7
52.5°	529.6	526.1	521.8	519.7	518.7	518.7	521.2	523.7	524.7	528.1	530.5
55°	483.7	480.0	476.4	474.5	473.3	474.5	479.4	480.5	483.7	485.4	487.2
57.5°	435.7	432.9	430.0	429.0	428.7	430.3	433.0	436.7	437.4	443.0	445.8
60°	404.1	399.8	397.4	397.4	396.3	401.7	400.5	406.5	407.8	411.4	415.6
62.5°	371.6	365.9	364.9	364.9	366.7	368.2	369.9	372.6	375.8	380.3	383.6
65°	319.1	316.1	320.4	319.8	318.6	322.2	322.2	325.2	328.9	333.1	339.8
67.5°	269.6	268.0	268.3	268.3	270.2	272.2	273.9	276.6	281.0	285.4	289.8
70°	236.0	237.9	234.9	237.3	239.1	239.7	240.9	244.5	249.4	252.4	257.3
72.5°	203.5	203.4	203.8	204.7	206.5	207.7	208.8	213.0	218.3	220.9	224.8
75°	156.6	156.0	157.7	157.7	160.8	162.0	163.3	165.1	169.9	173.5	176.6
77.5°	114.3	115.0	114.7	116.7	115.9	116.1	119.9	121.7	122.3	129.4	131.0
80°	86.1	87.4	88.0	88.6	89.2	88.0	92.2	94.1	94.1	98.3	101.3
82.5°	61.9	62.6	64.2	64.8	64.9	66.2	66.5	67.9	69.3	71.2	75.1
85°	30.9	32.7	33.3	32.7	33.3	32.2	34.0	34.6	35.2	35.2	35.2
87.5°	10.5	11.2	11.0	11.7	11.4	12.1	12.2	11.3	11.3	12.9	11.0
90°	3.9	5.0	6.2	7.3	8.5	9.6	10.0	10.3	10.7	11.1	11.3
92.5°	6.4	6.8	7.7	8.5	9.4	10.3	10.8	11.4	11.9	12.6	12.8
95°	9.8	8.5	9.5	10.4	11.4	12.4	13.0	13.6	14.3	14.9	15.2
97.5°	42.5	38.5	32.1	25.7	19.4	12.9	13.6	14.4	15.1	15.8	16.1
100°	74.8	68.8	54.9	41.0	27.1	13.2	13.9	14.6	15.3	16.1	16.5
102.5°	94.0	87.0	71.9	56.7	41.6	26.4	24.2	21.9	19.7	17.6	16.5
105°	123.3	119.8	111.7	103.8	95.8	87.7	72.0	56.2	40.5	24.7	16.9
107.5°	154.7	155.8	157.0	158.3	159.5	160.8	149.3	137.7	126.2	114.6	102.9
110°	175.9	176.7	177.7	178.7	179.7	180.7	177.7	174.8	171.8	168.9	161.1



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.2	197.0	198.0	198.9	199.9	200.9	200.9	201.0	201.0	201.1	199.7
115°	226.0	226.8	227.6	228.4	229.2	230.0	230.9	231.8	232.6	233.5	234.2
117.5°	256.0	256.5	256.9	257.3	257.8	258.2	258.9	259.6	260.3	261.0	261.4
120°	274.8	275.4	275.6	275.9	276.2	276.4	277.1	277.9	278.6	279.3	279.6
122.5°	292.8	293.4	293.7	294.0	294.4	294.7	295.2	295.7	296.2	296.7	296.9
125°	318.5	319.1	319.4	319.8	320.1	320.5	320.7	320.8	321.0	321.2	321.4
127.5°	343.2	343.8	344.2	344.6	345.1	345.5	345.8	346.1	346.3	346.6	346.7
130°	358.6	359.2	359.5	359.9	360.3	360.5	360.9	361.2	361.6	361.9	362.0
132.5°	373.4	373.8	374.2	374.4	374.7	375.0	375.3	375.7	376.0	376.4	376.5
135°	395.1	395.6	395.9	396.3	396.6	397.0	397.3	397.5	397.8	398.1	398.1
137.5°	414.9	415.4	415.6	415.8	416.0	416.2	416.6	417.1	417.4	417.9	418.0
140°	427.2	427.6	427.8	428.1	428.4	428.6	429.0	429.4	429.7	430.1	430.2
142.5°	439.1	439.4	439.7	440.0	440.2	440.5	440.8	441.1	441.4	441.7	441.7
145°	456.0	456.4	456.6	456.7	456.9	457.1	457.3	457.4	457.6	457.8	457.9
147.5°	470.7	471.1	471.3	471.4	471.6	471.8	472.0	472.2	472.3	472.5	472.3
150°	479.8	480.0	480.2	480.4	480.5	480.7	480.9	481.1	481.3	481.4	481.4
152.5°	487.9	488.0	488.1	488.2	488.3	488.5	488.7	489.1	489.4	489.7	489.6
155°	498.9	498.8	498.9	499.0	499.1	499.2	499.6	500.1	500.5	501.0	500.9
157.5°	509.0	508.9	508.8	508.7	508.6	508.5	509.1	509.6	510.1	510.7	510.6
160°	514.4	514.3	514.2	514.2	514.1	514.0	514.5	515.1	515.6	516.1	516.1
162.5°	519.3	519.2	519.1	519.0	518.9	518.8	519.4	520.0	520.7	521.2	521.3
165°	525.8	525.6	525.5	525.4	525.3	525.2	525.9	526.6	527.4	528.1	528.1
167.5°	530.6	530.4	530.4	530.4	530.4	530.4	531.1	531.8	532.4	533.2	533.2
170°	533.4	533.2	533.2	533.2	533.2	533.2	534.0	534.7	535.4	536.1	536.1
172.5°	535.0	534.8	534.9	535.0	535.1	535.1	535.8	536.5	537.3	538.0	538.0
175°	537.4	537.3	537.3	537.4	537.5	537.6	538.2	538.9	539.5	540.1	540.1
177.5°	538.4	538.3	538.4	538.4	538.5	538.6	539.1	539.8	540.3	540.9	540.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1197.6	1197.1	1200.5	1198.1	1200.5	1197.1	1197.6	1201.0	1201.9	1202.5	1202.5
5°	1114.7	1116.5	1110.4	1110.4	1110.4	1116.5	1114.7	1118.3	1121.3	1123.8	1127.5
7.5°	1040.9	1038.2	1038.5	1035.2	1038.5	1038.2	1040.9	1043.8	1047.7	1053.0	1058.0
10°	995.8	992.1	990.9	991.5	990.9	992.1	995.8	1003.1	1005.5	1010.3	1015.7
12.5°	958.4	957.7	949.7	949.8	949.7	957.7	958.4	960.3	965.6	975.9	982.3
15°	914.4	902.9	901.7	905.4	901.7	902.9	914.4	914.4	916.9	924.8	928.4
17.5°	870.4	864.3	864.7	862.9	864.7	864.3	870.4	871.4	873.3	879.8	884.6
20°	847.1	843.5	842.8	838.6	842.8	843.5	847.1	847.1	849.5	852.6	857.4
22.5°	825.7	824.6	824.9	820.2	824.9	824.6	825.7	827.2	829.6	831.7	835.1
25°	799.2	802.2	799.8	799.8	799.8	802.2	799.2	799.8	800.4	803.4	805.8
27.5°	781.2	781.0	779.9	779.9	779.9	781.0	781.2	779.7	779.0	777.9	777.4
30°	767.6	767.0	768.2	768.2	768.2	767.0	767.6	765.2	763.9	763.4	760.9
32.5°	754.0	754.8	755.1	755.5	755.1	754.8	754.0	751.1	748.9	747.3	745.4
35°	733.0	733.6	735.5	734.2	735.5	733.6	733.0	729.4	726.9	723.3	720.2
37.5°	704.6	707.4	706.8	707.8	706.8	707.4	704.6	703.6	701.1	698.3	694.8
40°	683.2	685.1	684.5	684.5	684.5	685.1	683.2	682.7	680.2	678.4	675.4
42.5°	661.4	662.7	661.2	660.2	661.2	662.7	661.4	660.3	658.9	655.6	652.1
45°	625.6	624.4	626.2	623.8	626.2	624.4	625.6	623.2	622.6	620.2	617.2
47.5°	585.6	586.7	587.3	589.1	587.3	586.7	585.6	585.8	582.4	580.9	580.0
50°	558.8	562.5	562.5	561.9	562.5	562.5	558.8	557.7	555.2	552.8	552.8
52.5°	532.6	534.3	536.8	536.6	536.8	534.3	532.6	530.5	528.1	524.7	523.7
55°	492.1	493.3	494.5	495.2	494.5	493.3	492.1	487.2	485.4	483.7	480.5
57.5°	450.1	449.6	452.5	453.4	452.5	449.6	450.1	445.8	443.0	437.4	436.7
60°	420.5	420.5	425.3	427.2	425.3	420.5	420.5	415.6	411.4	407.8	406.5
62.5°	389.0	390.9	395.7	393.2	395.7	390.9	389.0	383.6	380.3	375.8	372.6
65°	342.9	347.7	347.1	349.6	347.1	347.7	342.9	339.8	333.1	328.9	325.2
67.5°	294.6	297.7	302.0	302.5	302.0	297.7	294.6	289.8	285.4	281.0	276.6
70°	262.2	265.2	267.6	269.4	267.6	265.2	262.2	257.3	252.4	249.4	244.5
72.5°	230.6	232.2	238.0	235.4	238.0	232.2	230.6	224.8	220.9	218.3	213.0
75°	180.8	185.0	188.7	186.9	188.7	185.0	180.8	176.6	173.5	169.9	165.1
77.5°	133.8	137.9	139.6	138.1	139.6	137.9	133.8	131.0	129.4	122.3	121.7
80°	105.6	105.0	108.6	108.0	108.6	105.0	105.6	101.3	98.3	94.1	94.1
82.5°	77.4	76.9	78.6	78.9	78.6	76.9	77.4	75.1	71.2	69.3	67.9
85°	37.6	39.4	37.0	36.4	37.0	39.4	37.6	35.2	35.2	35.2	34.6
87.5°	11.1	11.1	10.6	10.2	10.6	11.1	11.1	11.0	12.9	11.3	11.3
90°	11.5	11.7	11.9	12.0	11.9	11.7	11.5	11.3	11.1	10.7	10.3
92.5°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.8	12.6	11.9	11.4
95°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	14.9	14.3	13.6
97.5°	16.2	16.3	16.4	16.5	16.4	16.3	16.2	16.1	15.8	15.1	14.4
100°	16.6	16.7	16.8	16.9	16.8	16.7	16.6	16.5	16.1	15.3	14.6
102.5°	16.7	16.9	16.9	17.1	16.9	16.9	16.7	16.5	17.6	19.7	21.9
105°	17.1	17.3	17.5	17.7	17.5	17.3	17.1	16.9	24.7	40.5	56.2
107.5°	91.0	79.1	67.2	55.4	67.2	79.1	91.0	102.9	114.6	126.2	137.7
110°	148.4	135.6	122.9	110.2	122.9	135.6	148.4	161.1	168.9	171.8	174.8



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	197.1	194.4	191.7	189.0	191.7	194.4	197.1	199.7	201.1	201.0	201.0
115°	234.5	234.9	235.2	235.6	235.2	234.9	234.5	234.2	233.5	232.6	231.8
117.5°	261.4	261.5	261.6	261.7	261.6	261.5	261.4	261.4	261.0	260.3	259.6
120°	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.3	278.6	277.9
122.5°	297.0	297.1	297.2	297.3	297.2	297.1	297.0	296.9	296.7	296.2	295.7
125°	321.6	321.7	321.9	322.1	321.9	321.7	321.6	321.4	321.2	321.0	320.8
127.5°	346.5	346.3	346.2	346.0	346.2	346.3	346.5	346.7	346.6	346.3	346.1
130°	361.9	361.7	361.5	361.3	361.5	361.7	361.9	362.0	361.9	361.6	361.2
132.5°	376.2	375.9	375.7	375.5	375.7	375.9	376.2	376.5	376.4	376.0	375.7
135°	397.8	397.5	397.3	397.0	397.3	397.5	397.8	398.1	398.1	397.8	397.5
137.5°	417.9	417.7	417.5	417.3	417.5	417.7	417.9	418.0	417.9	417.4	417.1
140°	430.0	429.8	429.6	429.4	429.6	429.8	430.0	430.2	430.1	429.7	429.4
142.5°	441.4	441.2	441.0	440.7	441.0	441.2	441.4	441.7	441.7	441.4	441.1
145°	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.8	457.6	457.4
147.5°	472.0	471.5	471.2	470.7	471.2	471.5	472.0	472.3	472.5	472.3	472.2
150°	481.2	480.9	480.6	480.4	480.6	480.9	481.2	481.4	481.4	481.3	481.1
152.5°	489.3	488.8	488.5	488.0	488.5	488.8	489.3	489.6	489.7	489.4	489.1
155°	500.3	499.8	499.3	498.8	499.3	499.8	500.3	500.9	501.0	500.5	500.1
157.5°	509.9	509.3	508.5	507.8	508.5	509.3	509.9	510.6	510.7	510.1	509.6
160°	515.5	514.9	514.2	513.6	514.2	514.9	515.5	516.1	516.1	515.6	515.1
162.5°	520.7	520.1	519.6	519.1	519.6	520.1	520.7	521.3	521.2	520.7	520.0
165°	527.4	526.9	526.3	525.7	526.3	526.9	527.4	528.1	528.1	527.4	526.6
167.5°	532.4	531.8	531.1	530.4	531.1	531.8	532.4	533.2	533.2	532.4	531.8
170°	535.4	534.7	534.0	533.2	534.0	534.7	535.4	536.1	536.1	535.4	534.7
172.5°	537.2	536.4	535.7	534.8	535.7	536.4	537.2	538.0	538.0	537.3	536.5
175°	539.4	538.7	538.0	537.3	538.0	538.7	539.4	540.1	540.1	539.5	538.9
177.5°	540.1	539.4	538.7	538.0	538.7	539.4	540.1	540.8	540.9	540.3	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1201.0	1201.0	1210.2	1216.0	1223.3	1228.2	1231.5	1234.9	1240.8	1248.6	1257.3
5°	1132.3	1134.7	1148.1	1161.5	1174.2	1185.1	1194.2	1205.1	1218.4	1234.8	1253.0
7.5°	1065.8	1075.1	1088.6	1104.8	1122.7	1138.6	1154.8	1172.7	1191.5	1215.7	1241.2
10°	1023.1	1033.4	1049.7	1070.4	1089.2	1108.0	1128.0	1147.5	1171.1	1199.6	1232.4
12.5°	985.7	995.5	1012.4	1034.9	1052.8	1073.5	1096.4	1121.8	1148.3	1182.7	1219.8
15°	933.9	945.4	966.0	977.0	1004.2	1029.1	1050.3	1086.8	1120.8	1155.9	1199.1
17.5°	891.4	897.9	914.5	934.9	955.2	983.1	1010.9	1041.3	1075.1	1118.2	1172.1
20°	862.3	867.7	885.9	907.1	929.0	954.5	979.4	1009.7	1047.9	1093.4	1151.7
22.5°	840.4	846.3	858.3	880.9	901.3	922.5	947.4	983.5	1024.1	1068.7	1131.8
25°	808.9	812.5	820.4	838.6	856.8	880.5	902.3	936.3	978.2	1030.4	1093.4
27.5°	778.9	782.4	789.0	802.1	819.0	838.2	862.0	890.9	933.4	990.1	1057.0
30°	760.9	761.5	767.6	779.7	794.3	810.1	832.0	864.7	904.7	962.4	1032.8
32.5°	745.4	743.1	747.3	756.4	770.5	786.3	804.2	836.5	875.1	931.8	1004.2
35°	719.1	717.8	716.0	723.9	736.0	748.1	763.9	788.3	832.0	884.8	960.6
37.5°	692.2	689.3	686.1	689.6	699.2	711.8	725.5	747.1	784.7	842.8	915.4
40°	672.3	669.9	668.1	666.9	675.4	687.5	697.9	718.5	753.7	808.9	880.5
42.5°	650.5	649.1	646.8	645.1	652.1	661.3	672.1	690.3	725.5	777.3	845.1
45°	615.3	614.1	612.9	611.6	615.9	624.4	632.9	646.2	676.5	726.9	788.3
47.5°	576.1	574.5	575.0	573.1	577.2	582.9	588.8	603.2	632.3	673.0	717.7
50°	548.0	547.3	547.3	547.3	548.6	555.2	560.7	571.6	598.3	639.0	671.1
52.5°	521.2	518.7	518.7	519.7	521.8	526.1	529.6	541.5	564.8	598.2	627.4
55°	479.4	474.5	473.3	474.5	476.4	480.0	483.7	493.3	513.4	538.2	555.2
57.5°	433.0	430.3	428.7	429.0	430.0	432.9	435.7	446.2	462.0	475.0	485.9
60°	400.5	401.7	396.3	397.4	397.4	399.8	404.1	410.8	424.2	433.3	444.2
62.5°	369.9	368.2	366.7	364.9	364.9	365.9	371.6	376.8	388.3	393.0	401.4
65°	322.2	322.2	318.6	319.8	320.4	316.1	319.1	325.2	332.5	334.4	342.2
67.5°	273.9	272.2	270.2	268.3	268.3	268.0	269.6	272.6	278.0	278.7	284.7
70°	240.9	239.7	239.1	237.3	234.9	237.9	236.0	239.1	242.1	242.7	246.4
72.5°	208.8	207.7	206.5	204.7	203.8	203.4	203.5	207.1	209.1	208.2	212.4
75°	163.3	162.0	160.8	157.7	157.7	156.0	156.6	159.0	161.4	159.6	163.3
77.5°	119.9	116.1	115.9	116.7	114.7	115.0	114.3	114.0	115.0	115.2	118.4
80°	92.2	88.0	89.2	88.6	88.0	87.4	86.1	86.8	87.4	88.0	89.8
82.5°	66.5	66.2	64.9	64.8	64.2	62.6	61.9	63.0	63.6	63.2	64.6
85°	34.0	32.2	33.3	32.7	33.3	32.7	30.9	30.9	32.2	31.6	32.7
87.5°	12.2	12.1	11.4	11.7	11.0	11.2	10.5	10.8	11.1	11.0	11.8
90°	10.0	9.6	8.5	7.3	6.2	5.0	3.9	3.0	2.1	1.2	0.4
92.5°	10.8	10.3	9.4	8.5	7.7	6.8	6.4	6.7	7.0	7.2	7.5
95°	13.0	12.4	11.4	10.4	9.5	8.5	9.8	13.5	17.1	20.8	24.4
97.5°	13.6	12.9	19.4	25.7	32.1	38.5	42.5	44.2	45.8	47.4	49.1
100°	13.9	13.2	27.1	41.0	54.9	68.8	74.8	73.0	71.2	69.5	67.7
102.5°	24.2	26.4	41.6	56.7	71.9	87.0	94.0	92.7	91.4	90.2	88.8
105°	72.0	87.7	95.8	103.8	111.7	119.8	123.3	122.3	121.4	120.4	119.4
107.5°	149.3	160.8	159.5	158.3	157.0	155.8	154.7	153.9	153.2	152.4	151.6
110°	177.7	180.7	179.7	178.7	177.7	176.7	175.9	175.2	174.5	173.8	173.1



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.9	200.9	199.9	198.9	198.0	197.0	196.2	195.5	194.8	194.2	193.6
115°	230.9	230.0	229.2	228.4	227.6	226.8	226.0	225.5	225.0	224.4	223.9
117.5°	258.9	258.2	257.8	257.3	256.9	256.5	256.0	255.3	254.7	254.0	253.3
120°	277.1	276.4	276.2	275.9	275.6	275.4	274.8	274.0	273.2	272.4	271.6
122.5°	295.2	294.7	294.4	294.0	293.7	293.4	292.8	292.2	291.5	290.9	290.3
125°	320.7	320.5	320.1	319.8	319.4	319.1	318.5	317.8	317.1	316.4	315.7
127.5°	345.8	345.5	345.1	344.6	344.2	343.8	343.2	342.5	341.8	341.1	340.4
130°	360.9	360.5	360.3	359.9	359.5	359.2	358.6	357.9	357.2	356.5	355.8
132.5°	375.3	375.0	374.7	374.4	374.2	373.8	373.4	372.6	371.9	371.2	370.5
135°	397.3	397.0	396.6	396.3	395.9	395.6	395.1	394.6	394.0	393.5	393.0
137.5°	416.6	416.2	416.0	415.8	415.6	415.4	414.9	414.3	413.6	413.0	412.2
140°	429.0	428.6	428.4	428.1	427.8	427.6	427.2	426.7	426.1	425.6	425.1
142.5°	440.8	440.5	440.2	440.0	439.7	439.4	439.1	438.5	438.0	437.5	436.9
145°	457.3	457.1	456.9	456.7	456.6	456.4	456.0	455.4	454.8	454.1	453.5
147.5°	472.0	471.8	471.6	471.4	471.3	471.1	470.7	470.4	469.9	469.6	469.1
150°	480.9	480.7	480.5	480.4	480.2	480.0	479.8	479.6	479.3	479.0	478.8
152.5°	488.7	488.5	488.3	488.2	488.1	488.0	487.9	487.8	487.7	487.5	487.4
155°	499.6	499.2	499.1	499.0	498.9	498.8	498.9	499.1	499.2	499.4	499.5
157.5°	509.1	508.5	508.6	508.7	508.8	508.9	509.0	509.0	509.0	509.0	509.1
160°	514.5	514.0	514.1	514.2	514.2	514.3	514.4	514.5	514.6	514.7	514.8
162.5°	519.4	518.8	518.9	519.0	519.1	519.2	519.3	519.6	519.8	520.0	520.2
165°	525.9	525.2	525.3	525.4	525.5	525.6	525.8	526.0	526.3	526.6	526.8
167.5°	531.1	530.4	530.4	530.4	530.4	530.4	530.6	530.9	531.3	531.6	532.0
170°	534.0	533.2	533.2	533.2	533.2	533.2	533.4	533.8	534.1	534.5	534.8
172.5°	535.8	535.1	535.1	535.0	534.9	534.8	535.0	535.5	535.9	536.4	536.7
175°	538.2	537.6	537.5	537.4	537.3	537.3	537.4	537.9	538.3	538.8	539.2
177.5°	539.1	538.6	538.5	538.4	538.4	538.3	538.4	538.8	539.1	539.5	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332180-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1260.2	1262.7	1270.9	1276.8	1283.5	1287.4	1291.3	1294.2	1298.1	1299.0	1313.1
5°	1265.8	1277.9	1299.1	1314.9	1334.4	1355.6	1370.1	1376.8	1394.5	1409.0	1438.2
7.5°	1264.2	1290.0	1322.1	1355.3	1391.1	1424.1	1452.7	1486.7	1510.8	1547.1	1582.9
10°	1262.8	1297.4	1338.6	1381.1	1430.8	1476.9	1518.2	1564.3	1602.6	1653.0	1696.0
12.5°	1258.4	1300.3	1357.5	1407.7	1468.2	1531.8	1593.0	1652.2	1686.0	1770.0	1809.6
15°	1247.6	1297.4	1369.0	1445.4	1528.6	1603.7	1681.4	1743.4	1843.4	1916.9	1963.6
17.5°	1227.0	1296.6	1381.5	1473.8	1574.9	1674.0	1762.0	1856.0	1962.1	2051.0	2145.6
20°	1217.3	1293.7	1388.4	1490.3	1595.3	1707.5	1807.7	1920.6	2036.4	2123.8	2245.1
22.5°	1199.3	1285.9	1387.9	1501.5	1613.7	1729.8	1847.0	1960.8	2094.7	2215.1	2330.6
25°	1169.9	1267.0	1372.6	1499.4	1631.1	1747.6	1887.8	2038.9	2178.4	2333.2	2448.5
27.5°	1139.1	1242.7	1348.5	1466.5	1608.1	1746.4	1922.7	2093.5	2264.1	2397.7	2483.1
30°	1115.3	1216.0	1325.3	1444.2	1584.4	1748.8	1946.0	2132.3	2298.6	2413.2	2461.2
32.5°	1089.6	1191.8	1288.3	1413.1	1562.5	1747.3	1960.6	2155.1	2300.5	2376.9	2367.5
35°	1049.2	1134.7	1228.8	1348.9	1524.9	1736.7	1969.1	2157.1	2246.4	2230.0	2106.2
37.5°	990.9	1062.8	1155.5	1287.0	1481.2	1714.2	1952.0	2093.2	2087.4	1954.0	1774.7
40°	954.5	1015.7	1105.0	1243.3	1447.2	1699.7	1925.4	2017.0	1939.4	1753.0	1538.2
42.5°	907.0	963.3	1052.6	1194.8	1409.9	1670.0	1874.4	1900.9	1749.0	1534.6	1337.7
45°	833.1	882.9	975.1	1122.0	1353.8	1605.6	1750.0	1685.1	1480.6	1259.1	1109.2
47.5°	753.9	805.6	894.3	1045.2	1272.7	1508.6	1577.4	1439.3	1229.4	1049.7	912.1
50°	703.9	753.7	840.4	992.7	1217.8	1429.1	1457.5	1279.2	1086.2	928.4	815.6
52.5°	653.4	700.3	785.6	938.3	1153.8	1336.8	1319.2	1137.4	959.9	825.5	736.9
55°	578.3	622.6	703.9	847.1	1043.1	1188.1	1124.4	950.8	804.1	699.6	632.3
57.5°	511.0	553.5	623.7	753.0	923.5	1023.1	942.0	795.8	679.0	598.7	548.4
60°	465.4	503.0	569.8	689.9	838.0	913.8	833.7	704.5	606.2	541.9	497.0
62.5°	422.2	455.0	516.8	625.9	754.5	818.2	737.2	627.8	544.0	487.1	448.9
65°	356.8	386.6	441.1	526.1	631.7	674.1	604.4	515.8	450.8	408.4	382.9
67.5°	297.1	322.4	369.5	436.4	514.1	545.0	491.9	423.3	374.4	340.3	320.0
70°	257.3	279.1	316.1	373.8	444.2	467.9	418.1	361.7	325.8	298.5	279.7
72.5°	223.8	239.8	273.4	318.0	376.7	395.5	360.8	311.2	277.8	257.3	242.4
75°	170.5	183.9	205.7	241.5	282.1	293.1	267.0	236.0	213.6	199.0	187.5
77.5°	123.0	132.8	148.6	170.7	198.8	208.7	192.1	171.5	155.1	145.3	138.8
80°	92.8	100.8	114.0	132.2	149.3	154.7	145.0	129.2	117.7	112.3	106.8
82.5°	68.6	73.0	81.1	93.5	105.1	111.6	103.3	93.8	87.7	82.7	80.6
85°	34.6	37.0	40.7	45.5	52.8	55.2	52.2	49.8	46.1	43.1	43.1
87.5°	12.8	13.0	14.7	15.9	18.0	19.7	19.4	18.7	18.5	18.0	17.6
90°	1.2	2.1	3.0	3.9	5.0	6.2	7.3	8.5	9.6	10.0	10.3
92.5°	7.2	7.0	6.7	6.4	6.8	7.7	8.5	9.4	10.3	10.8	11.4
95°	20.8	17.1	13.5	9.8	8.5	9.5	10.4	11.4	12.4	13.0	13.6
97.5°	47.4	45.8	44.2	42.5	38.5	32.1	25.7	19.4	12.9	13.6	14.4
100°	69.5	71.2	73.0	74.8	68.8	54.9	41.0	27.1	13.2	13.9	14.6
102.5°	90.2	91.4	92.7	94.0	87.0	71.9	56.7	41.6	26.4	24.2	21.9
105°	120.4	121.4	122.3	123.3	119.8	111.7	103.8	95.8	87.7	72.0	56.2
107.5°	152.4	153.2	153.9	154.7	155.8	157.0	158.3	159.5	160.8	149.3	137.7
110°	173.8	174.5	175.2	175.9	176.7	177.7	178.7	179.7	180.7	177.7	174.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	194.2	194.8	195.5	196.2	197.0	198.0	198.9	199.9	200.9	200.9	201.0
115°	224.4	225.0	225.5	226.0	226.8	227.6	228.4	229.2	230.0	230.9	231.8
117.5°	254.0	254.7	255.3	256.0	256.5	256.9	257.3	257.8	258.2	258.9	259.6
120°	272.4	273.2	274.0	274.8	275.4	275.6	275.9	276.2	276.4	277.1	277.9
122.5°	290.9	291.5	292.2	292.8	293.4	293.7	294.0	294.4	294.7	295.2	295.7
125°	316.4	317.1	317.8	318.5	319.1	319.4	319.8	320.1	320.5	320.7	320.8
127.5°	341.1	341.8	342.5	343.2	343.8	344.2	344.6	345.1	345.5	345.8	346.1
130°	356.5	357.2	357.9	358.6	359.2	359.5	359.9	360.3	360.5	360.9	361.2
132.5°	371.2	371.9	372.6	373.4	373.8	374.2	374.4	374.7	375.0	375.3	375.7
135°	393.5	394.0	394.6	395.1	395.6	395.9	396.3	396.6	397.0	397.3	397.5
137.5°	413.0	413.6	414.3	414.9	415.4	415.6	415.8	416.0	416.2	416.6	417.1
140°	425.6	426.1	426.7	427.2	427.6	427.8	428.1	428.4	428.6	429.0	429.4
142.5°	437.5	438.0	438.5	439.1	439.4	439.7	440.0	440.2	440.5	440.8	441.1
145°	454.1	454.8	455.4	456.0	456.4	456.6	456.7	456.9	457.1	457.3	457.4
147.5°	469.6	469.9	470.4	470.7	471.1	471.3	471.4	471.6	471.8	472.0	472.2
150°	479.0	479.3	479.6	479.8	480.0	480.2	480.4	480.5	480.7	480.9	481.1
152.5°	487.5	487.7	487.8	487.9	488.0	488.1	488.2	488.3	488.5	488.7	489.1
155°	499.4	499.2	499.1	498.9	498.8	498.9	499.0	499.1	499.2	499.6	500.1
157.5°	509.0	509.0	509.0	509.0	508.9	508.8	508.7	508.6	508.5	509.1	509.6
160°	514.7	514.6	514.5	514.4	514.3	514.2	514.2	514.1	514.0	514.5	515.1
162.5°	520.0	519.8	519.6	519.3	519.2	519.1	519.0	518.9	518.8	519.4	520.0
165°	526.6	526.3	526.0	525.8	525.6	525.5	525.4	525.3	525.2	525.9	526.6
167.5°	531.6	531.3	530.9	530.6	530.4	530.4	530.4	530.4	530.4	531.1	531.8
170°	534.5	534.1	533.8	533.4	533.2	533.2	533.2	533.2	533.2	534.0	534.7
172.5°	536.4	535.9	535.5	535.0	534.8	534.9	535.0	535.1	535.1	535.8	536.5
175°	538.8	538.3	537.9	537.4	537.3	537.3	537.4	537.5	537.6	538.2	538.9
177.5°	539.5	539.1	538.8	538.4	538.3	538.4	538.4	538.5	538.6	539.1	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1317.9	1318.5	1323.8	1327.7	1325.7	1328.2	1329.1
5°	1439.9	1461.8	1473.3	1481.8	1482.4	1483.0	1487.9
7.5°	1612.8	1636.3	1653.4	1679.4	1687.1	1696.0	1693.4
10°	1739.1	1773.7	1803.4	1819.2	1836.2	1861.1	1841.0
12.5°	1857.1	1918.3	1963.6	1988.2	2004.1	2009.1	1999.3
15°	2051.6	2131.7	2174.8	2173.5	2228.2	2251.8	2214.8
17.5°	2230.0	2303.9	2363.1	2393.4	2439.0	2449.1	2444.4
20°	2339.2	2419.9	2466.0	2518.2	2541.9	2563.1	2566.8
22.5°	2433.4	2505.9	2555.4	2598.8	2618.6	2628.7	2634.7
25°	2530.3	2587.4	2617.2	2632.3	2637.8	2636.5	2628.7
27.5°	2523.7	2528.1	2495.3	2463.2	2434.4	2402.0	2390.8
30°	2458.2	2407.2	2316.1	2264.6	2188.7	2128.7	2152.9
32.5°	2285.8	2184.3	2082.1	1969.4	1876.1	1849.5	1822.8
35°	1950.9	1772.5	1668.1	1546.8	1498.2	1449.7	1416.3
37.5°	1578.3	1440.3	1316.5	1237.2	1188.5	1157.8	1141.3
40°	1364.7	1240.3	1138.4	1074.1	1037.1	1002.5	997.6
42.5°	1194.3	1078.6	1001.9	950.7	915.2	900.4	889.8
45°	978.2	897.4	845.9	809.5	785.8	776.7	764.6
47.5°	828.0	770.9	732.2	707.4	689.6	682.8	681.8
50°	744.0	696.6	668.1	648.6	634.7	632.3	622.6
52.5°	680.8	639.8	617.6	600.7	590.6	583.7	580.9
55°	591.0	563.7	543.7	534.0	526.1	519.4	519.4
57.5°	517.1	494.3	481.1	472.8	470.4	465.7	462.6
60°	471.4	452.1	441.8	434.4	429.6	430.3	424.7
62.5°	426.9	414.2	404.4	397.1	391.3	391.4	391.7
65°	363.5	353.7	346.5	344.0	340.5	336.2	337.4
67.5°	308.0	298.9	293.2	289.1	287.8	285.5	289.1
70°	268.2	261.5	257.3	253.6	252.4	253.1	256.1
72.5°	231.8	227.0	224.3	222.6	219.9	220.0	222.1
75°	182.0	178.4	175.9	174.2	173.5	173.5	173.5
77.5°	133.8	132.9	131.8	129.1	129.2	130.0	130.1
80°	105.6	103.8	103.2	101.9	100.1	98.9	101.9
82.5°	78.9	77.0	76.4	76.2	73.4	73.2	75.7
85°	42.4	40.7	41.3	40.7	40.7	40.0	40.0
87.5°	17.2	16.8	16.3	16.9	16.4	16.0	16.9
90°	10.7	11.1	11.3	11.5	11.7	11.9	12.0
92.5°	11.9	12.6	12.8	13.0	13.1	13.2	13.3
95°	14.3	14.9	15.2	15.2	15.2	15.2	15.2
97.5°	15.1	15.8	16.1	16.2	16.3	16.4	16.5
100°	15.3	16.1	16.5	16.6	16.7	16.8	16.9
102.5°	19.7	17.6	16.5	16.7	16.9	16.9	17.1
105°	40.5	24.7	16.9	17.1	17.3	17.5	17.7
107.5°	126.2	114.6	102.9	91.0	79.1	67.2	55.4
110°	171.8	168.9	161.1	148.4	135.6	122.9	110.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	201.0	201.1	199.7	197.1	194.4	191.7	189.0
115°	232.6	233.5	234.2	234.5	234.9	235.2	235.6
117.5°	260.3	261.0	261.4	261.4	261.5	261.6	261.7
120°	278.6	279.3	279.6	279.6	279.6	279.6	279.6
122.5°	296.2	296.7	296.9	297.0	297.1	297.2	297.3
125°	321.0	321.2	321.4	321.6	321.7	321.9	322.1
127.5°	346.3	346.6	346.7	346.5	346.3	346.2	346.0
130°	361.6	361.9	362.0	361.9	361.7	361.5	361.3
132.5°	376.0	376.4	376.5	376.2	375.9	375.7	375.5
135°	397.8	398.1	398.1	397.8	397.5	397.3	397.0
137.5°	417.4	417.9	418.0	417.9	417.7	417.5	417.3
140°	429.7	430.1	430.2	430.0	429.8	429.6	429.4
142.5°	441.4	441.7	441.7	441.4	441.2	441.0	440.7
145°	457.6	457.8	457.9	457.9	457.9	457.9	457.9
147.5°	472.3	472.5	472.3	472.0	471.5	471.2	470.7
150°	481.3	481.4	481.4	481.2	480.9	480.6	480.4
152.5°	489.4	489.7	489.6	489.3	488.8	488.5	488.0
155°	500.5	501.0	500.9	500.3	499.8	499.3	498.8
157.5°	510.1	510.7	510.6	509.9	509.3	508.5	507.8
160°	515.6	516.1	516.1	515.5	514.9	514.2	513.6
162.5°	520.7	521.2	521.3	520.7	520.1	519.6	519.1
165°	527.4	528.1	528.1	527.4	526.9	526.3	525.7
167.5°	532.4	533.2	533.2	532.4	531.8	531.1	530.4
170°	535.4	536.1	536.1	535.4	534.7	534.0	533.2
172.5°	537.3	538.0	538.0	537.2	536.4	535.7	534.8
175°	539.5	540.1	540.1	539.4	538.7	538.0	537.3
177.5°	540.3	540.9	540.8	540.1	539.4	538.7	538.0
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2

(END OF REPORT)