

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: P332002-940

Luminaire Tested: **S123DIP-S1000D365U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332002-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D365U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4952.5 lumens
Efficiency: N/A
Efficacy: 113.8 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

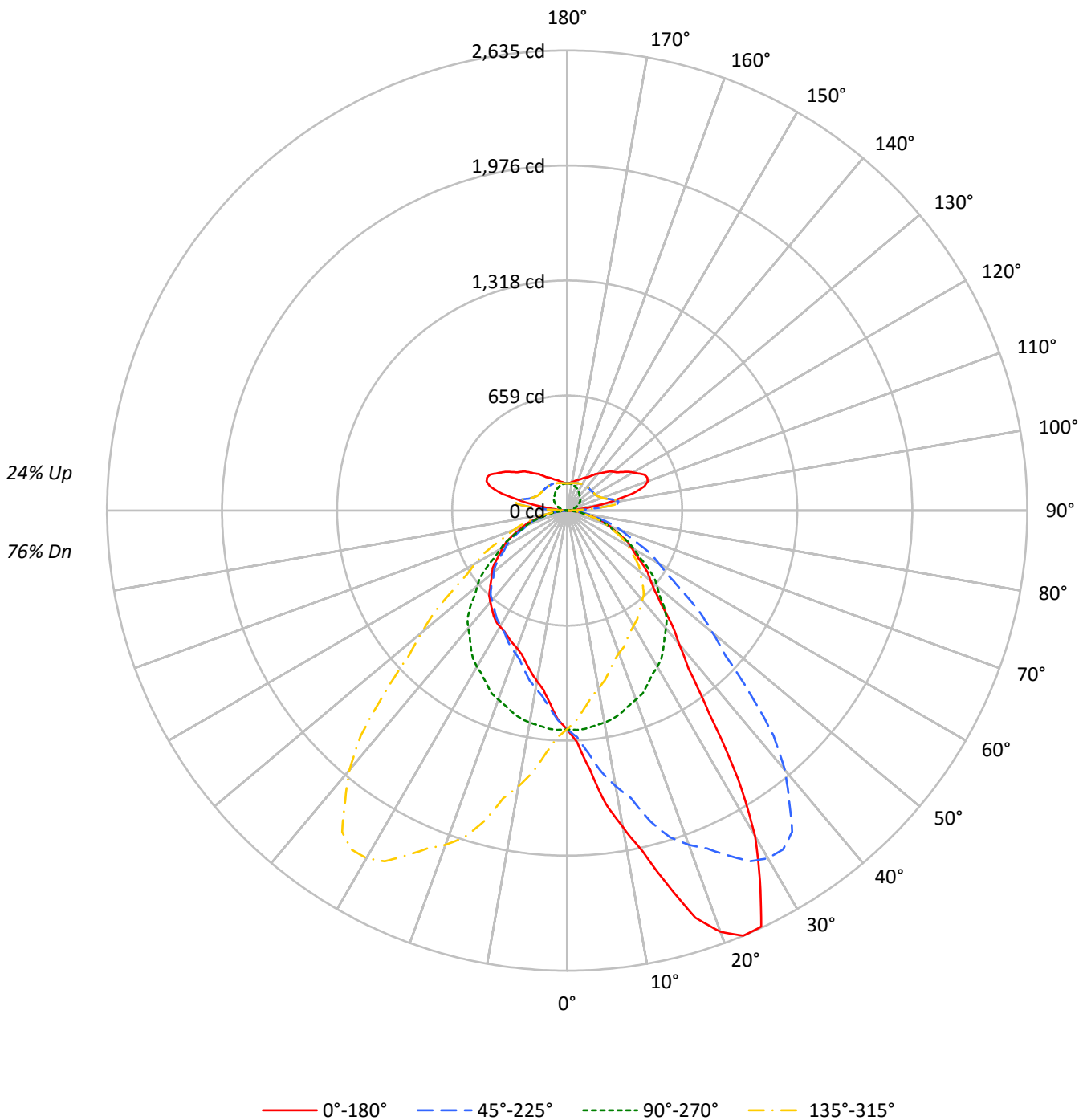
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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	0	
RCR																						
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	76	
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	69	69	69	65	
2	95	88	81	76	90	84	78	73	77	72	68	70	66	63	64	61	59	59	59	59	55	
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	50	50	50	47	
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	44	44	44	41	
5	74	62	53	47	70	59	52	46	54	48	43	50	45	41	46	42	38	38	38	38	36	
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34	34	34	34	31	
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	34	30	30	30	30	28	
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	30	27	27	27	27	25	
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24	24	24	24	22	
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22	22	22	22	20	

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



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	2.5
10°-20°	395.6	8.0
20°-30°	664.0	13.4
30°-40°	751.8	15.2
40°-50°	674.2	13.6
50°-60°	544.1	11.0
60°-70°	379.1	7.7
70°-80°	199.3	4.0
80°-90°	49.9	1.0
90°-100°	86.6	1.7
100°-110°	245.3	5.0
110°-120°	241.3	4.9
120°-130°	192.5	3.9
130°-140°	151.8	3.1
140°-150°	113.3	2.3
150°-160°	78.9	1.6
160°-170°	46.4	0.9
170°-180°	15.1	0.3
0°-30°	1182.9	23.9
0°-40°	1934.7	39.1
0°-60°	3153.0	63.7
0°-90°	3781.3	76.4
90°-120°	573.2	11.6
90°-150°	1030.7	20.8
90°-180°	1171.0	23.6
0°-180°	4952.5	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°	9	1	9	1	9	7
95°	37	11	37	11	37	66
105°	401	37	401	37	401	395
115°	488	65	488	65	488	474
125°	384	90	384	90	384	348
135°	312	105	312	105	312	242
145°	244	120	244	120	244	155
155°	202	136	202	136	202	94
165°	176	149	176	149	176	50
175°	158	155	158	155	158	15
180°	156	156	156	156	156	



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	16.4	15.5	15.9	16.3	15.9	16.2	16.7	17.1	17.6	18.1	18.4
90°	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8	7.6	7.8	7.0
92.5°	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6	36.6	48.4	53.3
95°	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4	151.6	186.9	166.4
97.5°	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8	309.8	289.6	212.0
100°	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5	360.5	298.5	201.7
102.5°	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0	363.0	282.0	186.5
105°	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7	343.8	253.3	168.0
107.5°	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8	310.1	228.0	156.1
110°	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1	289.0	213.7	151.6



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7	270.5	204.0	149.0
115°	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6	248.3	193.8	148.1
117.5°	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1	234.9	187.7	148.6
120°	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2	227.8	184.9	149.7
122.5°	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0	222.0	183.2	151.4
125°	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5	214.6	180.8	154.1
127.5°	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7	208.0	179.8	157.1
130°	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8	204.5	179.0	159.2
132.5°	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6	201.3	178.7	160.7
135°	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0	197.0	178.3	162.9
137.5°	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3	193.2	177.6	164.4
140°	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8	190.9	177.5	165.4
142.5°	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5	189.0	176.9	166.2
145°	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4	186.2	176.1	166.7
147.5°	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1	183.6	175.0	166.7
150°	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0	181.8	174.0	166.7
152.5°	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3	179.8	172.7	165.9
155°	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2	176.7	170.5	165.1
157.5°	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7	173.3	168.5	164.1
160°	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2	171.1	167.0	163.5
162.5°	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2	168.8	165.5	162.6
165°	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3	165.8	163.3	161.0
167.5°	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9	162.8	161.0	159.5
170°	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6	161.0	159.4	158.5
172.5°	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6	159.3	158.2	157.7
175°	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8	157.2	156.6	156.6
177.5°	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1	156.0	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	19.2	19.4	17.8	15.8	14.6	13.0	12.8	11.8	11.0	11.1	10.8
90°	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6	1.2	1.9	2.9
92.5°	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9	5.8	8.5	10.9
95°	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7	11.7	15.2	20.5
97.5°	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3	18.5	21.3	25.9
100°	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4	23.6	25.9	30.2
102.5°	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6	29.2	31.1	35.3
105°	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6	37.5	39.4	43.2
107.5°	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0	45.9	47.8	51.5
110°	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0	52.0	53.6	57.1



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6	57.5	59.1	62.6
115°	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6	65.9	67.8	70.9
117.5°	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6	74.0	75.6	78.6
120°	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1	79.1	80.7	83.8
122.5°	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9	83.9	85.4	88.9
125°	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8	90.4	92.3	95.8
127.5°	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1	95.9	98.4	101.8
130°	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4	99.2	102.1	105.8
132.5°	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9	102.0	105.1	109.7
135°	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2	106.5	109.9	114.7
137.5°	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4	110.8	114.1	119.1
140°	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2	113.8	116.9	122.0
142.5°	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2	116.5	119.9	124.5
145°	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0	121.0	123.9	128.6
147.5°	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0	125.6	128.3	132.4
150°	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2	128.6	131.1	135.2
152.5°	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5	131.6	134.1	137.7
155°	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4	136.4	138.3	141.5
157.5°	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4	140.6	142.1	144.9
160°	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4	143.4	144.6	147.1
162.5°	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6	145.6	146.7	148.6
165°	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0	148.7	149.4	151.0
167.5°	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6	151.2	151.6	152.8
170°	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1	152.5	152.8	153.7
172.5°	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2	153.7	153.8	154.5
175°	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3	155.1	154.7	155.3
177.5°	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0	155.7	155.4	155.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	10.4	11.1	10.7	11.4	11.1	11.8	11.7	10.8	10.9	12.4	10.5
90°	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8	8.2	8.5	9.1
92.5°	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6	21.0	18.5	16.9
95°	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4	76.9	60.2	48.9
97.5°	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8	226.5	185.8	148.2
100°	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5	346.0	309.2	264.4
102.5°	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0	400.2	378.7	350.4
105°	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7	441.1	447.1	439.0
107.5°	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8	436.0	463.6	474.8
110°	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1	419.1	458.8	480.9



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7	396.9	441.4	469.8
115°	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6	361.4	407.8	442.1
117.5°	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1	331.4	373.0	407.9
120°	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2	314.8	352.6	384.4
122.5°	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0	301.4	336.4	366.0
125°	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5	284.9	315.1	340.4
127.5°	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7	270.3	297.6	320.6
130°	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8	261.3	286.8	308.2
132.5°	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6	252.6	276.4	296.9
135°	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0	240.4	260.9	278.8
137.5°	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3	228.6	246.3	261.9
140°	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8	221.9	236.9	250.5
142.5°	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5	215.3	228.4	240.1
145°	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4	206.7	216.8	226.0
147.5°	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1	200.4	208.5	215.0
150°	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0	196.4	203.0	208.9
152.5°	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3	192.5	198.4	203.4
155°	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2	187.2	191.9	195.6
157.5°	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7	181.9	185.6	188.6
160°	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2	178.7	181.8	184.0
162.5°	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2	175.1	178.1	180.0
165°	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3	170.1	172.4	174.0
167.5°	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9	166.3	167.6	168.7
170°	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6	163.5	164.8	165.4
172.5°	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6	161.3	162.3	162.6
175°	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8	158.2	158.8	158.8
177.5°	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1	156.4	156.7	156.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	10.5	10.5	10.2	9.6	10.2	10.5	10.5	10.5	12.4	10.9	10.8
90°	8.8	9.1	9.5	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8
92.5°	16.4	15.4	15.8	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6
95°	42.9	40.0	37.8	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4
97.5°	124.9	110.8	102.2	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8
100°	232.6	209.6	197.2	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5
102.5°	325.6	307.4	297.1	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0
105°	424.5	412.5	402.4	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7
107.5°	475.1	471.0	467.6	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8
110°	489.7	492.2	491.6	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	485.9	493.7	496.1	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7
115°	465.7	479.6	485.9	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6
117.5°	432.6	448.4	457.4	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1
120°	409.3	427.0	434.5	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2
122.5°	388.2	404.0	412.3	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0
125°	360.5	374.3	382.3	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5
127.5°	338.5	350.4	357.5	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7
130°	324.9	336.3	342.9	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8
132.5°	312.5	323.9	329.8	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6
135°	294.4	303.8	309.4	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0
137.5°	274.8	284.5	289.2	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3
140°	262.5	271.3	276.3	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8
142.5°	250.4	258.2	262.7	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5
145°	233.8	240.4	243.0	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4
147.5°	221.0	225.4	227.8	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1
150°	213.7	217.1	219.0	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0
152.5°	207.1	210.3	211.4	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3
155°	198.5	201.1	201.7	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2
157.5°	191.0	192.9	193.4	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7
160°	186.2	188.2	188.2	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2
162.5°	181.5	183.1	183.1	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2
165°	175.2	176.5	176.1	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3
167.5°	169.2	170.1	169.9	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9
170°	165.8	166.4	166.0	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6
172.5°	162.7	163.4	162.8	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6
175°	158.8	159.2	158.8	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8
177.5°	156.4	156.7	156.1	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	11.7	11.8	11.1	11.4	10.7	11.1	10.4	10.8	11.1	11.0	11.8
90°	7.6	7.8	7.0	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6
92.5°	36.6	48.4	53.3	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9
95°	151.6	186.9	166.4	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7
97.5°	309.8	289.6	212.0	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3
100°	360.5	298.5	201.7	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4
102.5°	363.0	282.0	186.5	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6
105°	343.8	253.3	168.0	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6
107.5°	310.1	228.0	156.1	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0
110°	289.0	213.7	151.6	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	270.5	204.0	149.0	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6
115°	248.3	193.8	148.1	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6
117.5°	234.9	187.7	148.6	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6
120°	227.8	184.9	149.7	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1
122.5°	222.0	183.2	151.4	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9
125°	214.6	180.8	154.1	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8
127.5°	208.0	179.8	157.1	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1
130°	204.5	179.0	159.2	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4
132.5°	201.3	178.7	160.7	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9
135°	197.0	178.3	162.9	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2
137.5°	193.2	177.6	164.4	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4
140°	190.9	177.5	165.4	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2
142.5°	189.0	176.9	166.2	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2
145°	186.2	176.1	166.7	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0
147.5°	183.6	175.0	166.7	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0
150°	181.8	174.0	166.7	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2
152.5°	179.8	172.7	165.9	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5
155°	176.7	170.5	165.1	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4
157.5°	173.3	168.5	164.1	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4
160°	171.1	167.0	163.5	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4
162.5°	168.8	165.5	162.6	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6
165°	165.8	163.3	161.0	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0
167.5°	162.8	161.0	159.5	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6
170°	161.0	159.4	158.5	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1
172.5°	159.3	158.2	157.7	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2
175°	157.2	156.6	156.6	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3
177.5°	156.0	155.7	156.0	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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	14.6	15.8	17.8	19.4	19.2	18.4	18.1	17.6	17.1
90°	1.2	1.9	2.9	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8
92.5°	5.8	8.5	10.9	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6
95°	11.7	15.2	20.5	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4
97.5°	18.5	21.3	25.9	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8
100°	23.6	25.9	30.2	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5
102.5°	29.2	31.1	35.3	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0
105°	37.5	39.4	43.2	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7
107.5°	45.9	47.8	51.5	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8
110°	52.0	53.6	57.1	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	57.5	59.1	62.6	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7
115°	65.9	67.8	70.9	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6
117.5°	74.0	75.6	78.6	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1
120°	79.1	80.7	83.8	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2
122.5°	83.9	85.4	88.9	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0
125°	90.4	92.3	95.8	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5
127.5°	95.9	98.4	101.8	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7
130°	99.2	102.1	105.8	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8
132.5°	102.0	105.1	109.7	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6
135°	106.5	109.9	114.7	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0
137.5°	110.8	114.1	119.1	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3
140°	113.8	116.9	122.0	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8
142.5°	116.5	119.9	124.5	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5
145°	121.0	123.9	128.6	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4
147.5°	125.6	128.3	132.4	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1
150°	128.6	131.1	135.2	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0
152.5°	131.6	134.1	137.7	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3
155°	136.4	138.3	141.5	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2
157.5°	140.6	142.1	144.9	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7
160°	143.4	144.6	147.1	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2
162.5°	145.6	146.7	148.6	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2
165°	148.7	149.4	151.0	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3
167.5°	151.2	151.6	152.8	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9
170°	152.5	152.8	153.7	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6
172.5°	153.7	153.8	154.5	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6
175°	155.1	154.7	155.3	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8
177.5°	155.7	155.4	155.7	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

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°	16.7	16.2	15.9	16.3	15.9	15.5	16.4
90°	8.2	8.5	9.1	8.8	9.1	9.5	9.1
92.5°	21.0	18.5	16.9	16.4	15.4	15.8	15.2
95°	76.9	60.2	48.9	42.9	40.0	37.8	36.6
97.5°	226.5	185.8	148.2	124.9	110.8	102.2	99.5
100°	346.0	309.2	264.4	232.6	209.6	197.2	197.6
102.5°	400.2	378.7	350.4	325.6	307.4	297.1	289.8
105°	441.1	447.1	439.0	424.5	412.5	402.4	400.8
107.5°	436.0	463.6	474.8	475.1	471.0	467.6	464.8
110°	419.1	458.8	480.9	489.7	492.2	491.6	491.0



TEST NUMBER: P332002-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.9	441.4	469.8	485.9	493.7	496.1	496.2
115°	361.4	407.8	442.1	465.7	479.6	485.9	487.5
117.5°	331.4	373.0	407.9	432.6	448.4	457.4	459.6
120°	314.8	352.6	384.4	409.3	427.0	434.5	436.4
122.5°	301.4	336.4	366.0	388.2	404.0	412.3	414.7
125°	284.9	315.1	340.4	360.5	374.3	382.3	384.4
127.5°	270.3	297.6	320.6	338.5	350.4	357.5	359.4
130°	261.3	286.8	308.2	324.9	336.3	342.9	345.4
132.5°	252.6	276.4	296.9	312.5	323.9	329.8	331.5
135°	240.4	260.9	278.8	294.4	303.8	309.4	311.7
137.5°	228.6	246.3	261.9	274.8	284.5	289.2	290.7
140°	221.9	236.9	250.5	262.5	271.3	276.3	276.1
142.5°	215.3	228.4	240.1	250.4	258.2	262.7	262.4
145°	206.7	216.8	226.0	233.8	240.4	243.0	243.6
147.5°	200.4	208.5	215.0	221.0	225.4	227.8	228.1
150°	196.4	203.0	208.9	213.7	217.1	219.0	219.0
152.5°	192.5	198.4	203.4	207.1	210.3	211.4	211.4
155°	187.2	191.9	195.6	198.5	201.1	201.7	202.0
157.5°	181.9	185.6	188.6	191.0	192.9	193.4	193.3
160°	178.7	181.8	184.0	186.2	188.2	188.2	187.8
162.5°	175.1	178.1	180.0	181.5	183.1	183.1	182.8
165°	170.1	172.4	174.0	175.2	176.5	176.1	176.1
167.5°	166.3	167.6	168.7	169.2	170.1	169.9	169.9
170°	163.5	164.8	165.4	165.8	166.4	166.0	166.0
172.5°	161.3	162.3	162.6	162.7	163.4	162.8	162.6
175°	158.2	158.8	158.8	158.8	159.2	158.8	158.5
177.5°	156.4	156.7	156.7	156.4	156.7	156.1	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7

(END OF REPORT)