

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: P332045-940

Luminaire Tested: **S123DIP-S1165D365U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332045-940
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: S123DIP-S1165D365U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5660.4 lumens
Efficiency: N/A
Efficacy: 113.7 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

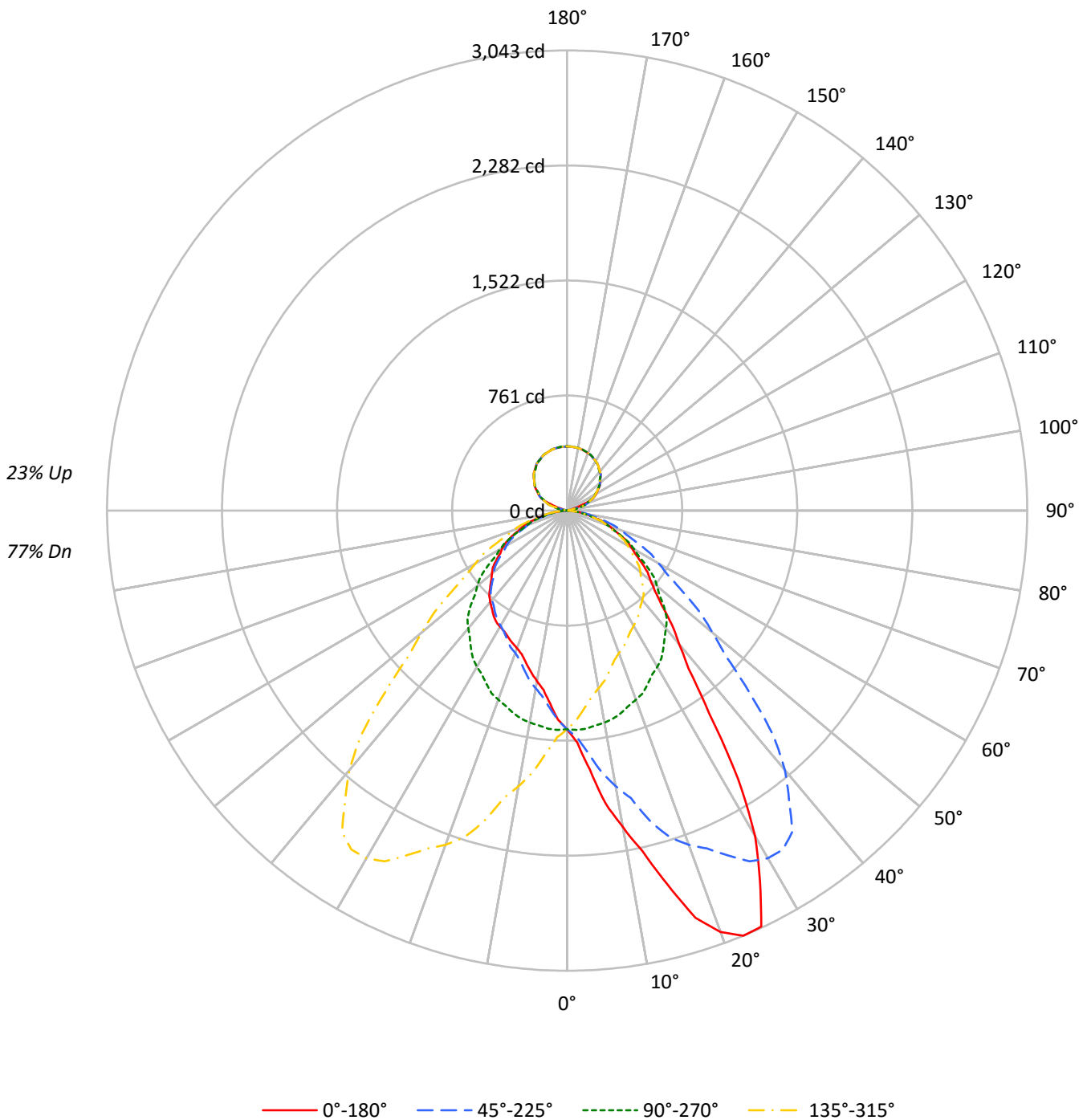
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77								
1	104	100	96	93	99	96	92	89	87	84	82	79	77	76	72	71	69	66								
2	95	88	82	76	91	84	78	74	77	72	69	70	67	64	64	61	59	56								
3	87	78	70	64	83	74	68	62	68	63	58	62	58	54	57	54	51	48								
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	41								
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	39	36								
6	68	56	47	41	65	54	46	40	49	43	38	46	40	36	42	38	34	32								
7	63	50	42	36	60	49	41	36	45	39	34	42	36	32	39	34	30	28								
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	25								
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25	23								
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.5
10°-20°	456.9	8.1
20°-30°	766.8	13.5
30°-40°	868.3	15.3
40°-50°	778.6	13.8
50°-60°	628.3	11.1
60°-70°	437.9	7.7
70°-80°	230.1	4.1
80°-90°	57.5	1.0
90°-100°	15.4	0.3
100°-110°	73.5	1.3
110°-120°	176.5	3.1
120°-130°	224.8	4.0
130°-140°	240.2	4.2
140°-150°	224.6	4.0
150°-160°	181.2	3.2
160°-170°	116.9	2.1
170°-180°	40.3	0.7
0°-30°	1366.2	24.1
0°-40°	2234.5	39.5
0°-60°	3641.5	64.3
0°-90°	4367.0	77.1
90°-120°	265.4	4.7
90°-150°	955.0	16.9
90°-180°	1293.0	22.8
0°-180°	5660.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	10	0	10	0	10	7
95°	12	19	12	19	12	10
105°	14	94	14	94	14	32
115°	185	176	185	176	185	171
125°	253	248	253	248	253	226
135°	312	309	312	309	312	241
145°	360	357	360	357	360	225
155°	392	393	392	393	392	181
165°	413	414	413	414	413	117
175°	423	424	423	424	423	40
180°	424	424	424	424	424	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	18.7	17.6	18.1	18.6	18.0	18.5	19.1	19.5	20.1	20.6	21.0
90°	9.5	9.3	9.2	9.0	8.9	8.6	8.4	8.1	7.8	7.6	6.7
92.5°	10.4	10.3	10.3	10.2	10.2	9.9	9.5	9.0	8.5	8.0	7.4
95°	11.9	11.9	11.9	11.9	11.9	11.8	11.2	10.8	10.3	9.8	9.0
97.5°	13.0	12.9	12.8	12.8	12.7	12.4	11.9	11.2	10.7	10.2	15.2
100°	13.2	13.2	13.1	13.0	12.9	12.7	12.0	11.5	11.0	10.4	21.3
102.5°	13.5	13.4	13.2	13.1	13.0	13.8	15.5	17.3	19.0	20.8	32.6
105°	13.8	13.7	13.6	13.5	13.3	19.4	31.8	44.2	56.6	69.0	75.3
107.5°	43.5	52.9	62.2	71.6	80.9	90.2	99.2	108.3	117.3	126.4	125.5
110°	86.7	96.7	106.6	116.7	126.7	132.9	135.2	137.5	139.8	142.1	141.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	148.6	150.8	152.9	155.0	157.1	158.2	158.1	158.1	158.0	158.0	157.2
115°	185.3	185.0	184.8	184.4	184.1	183.7	183.0	182.3	181.6	180.8	180.2
117.5°	205.8	205.8	205.7	205.6	205.6	205.3	204.7	204.2	203.6	203.0	202.8
120°	220.0	220.0	220.0	220.0	220.0	219.6	219.1	218.6	218.0	217.4	217.2
122.5°	233.8	233.7	233.7	233.6	233.5	233.4	233.0	232.6	232.2	231.8	231.5
125°	253.3	253.2	253.1	252.9	252.8	252.6	252.5	252.4	252.3	252.1	251.8
127.5°	272.2	272.2	272.4	272.5	272.7	272.7	272.4	272.2	272.0	271.7	271.4
130°	284.2	284.4	284.5	284.6	284.8	284.7	284.5	284.2	283.8	283.6	283.3
132.5°	295.3	295.5	295.7	295.9	296.1	296.0	295.8	295.5	295.2	295.0	294.7
135°	312.3	312.5	312.7	312.9	313.1	313.1	312.9	312.7	312.5	312.3	312.0
137.5°	328.2	328.3	328.5	328.6	328.8	328.7	328.3	328.0	327.7	327.3	327.2
140°	337.8	338.0	338.0	338.2	338.3	338.3	338.0	337.7	337.4	337.2	337.0
142.5°	346.6	346.8	347.0	347.2	347.4	347.4	347.1	347.0	346.7	346.5	346.3
145°	360.2	360.2	360.2	360.2	360.2	360.1	360.0	359.8	359.7	359.5	359.4
147.5°	370.2	370.6	370.9	371.2	371.6	371.7	371.5	371.3	371.2	371.0	371.0
150°	377.8	378.0	378.3	378.4	378.6	378.7	378.5	378.4	378.3	378.1	378.0
152.5°	383.9	384.1	384.5	384.9	385.1	385.2	385.0	384.7	384.4	384.1	384.1
155°	392.3	392.7	393.2	393.6	394.0	394.0	393.7	393.3	393.0	392.6	392.5
157.5°	399.4	399.9	400.6	401.1	401.6	401.7	401.3	400.8	400.4	400.0	400.0
160°	403.9	404.5	404.9	405.5	405.9	406.0	405.6	405.1	404.7	404.3	404.4
162.5°	408.2	408.7	409.1	409.6	410.0	409.9	409.5	409.0	408.5	408.0	408.1
165°	413.4	413.9	414.4	414.9	415.4	415.4	414.8	414.2	413.7	413.1	413.1
167.5°	417.1	417.7	418.2	418.8	419.4	419.4	418.8	418.2	417.7	417.1	417.1
170°	419.4	420.0	420.5	421.1	421.6	421.6	421.1	420.5	420.0	419.4	419.4
172.5°	420.6	421.2	421.9	422.5	423.1	423.1	422.6	422.0	421.5	420.9	420.9
175°	422.6	423.1	423.7	424.3	424.8	424.8	424.4	423.8	423.4	422.8	422.8
177.5°	423.1	423.7	424.3	424.8	425.3	425.4	425.0	424.5	424.1	423.7	423.6
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	21.9	22.3	20.4	18.0	16.8	14.9	14.8	13.6	12.6	12.7	12.2
90°	5.7	4.8	3.9	3.1	2.4	1.7	1.0	0.4	1.0	1.7	2.4
92.5°	6.7	6.0	5.4	5.1	5.3	5.4	5.7	5.9	5.7	5.4	5.3
95°	8.2	7.5	6.7	7.8	10.6	13.5	16.3	19.3	16.3	13.5	10.6
97.5°	20.2	25.2	30.3	33.4	34.8	36.0	37.4	38.6	37.4	36.0	34.8
100°	32.3	43.2	54.1	58.9	57.4	56.1	54.7	53.2	54.7	56.1	57.4
102.5°	44.6	56.5	68.5	73.9	72.9	71.9	70.9	69.9	70.9	71.9	72.9
105°	81.6	87.9	94.3	97.0	96.2	95.4	94.7	93.9	94.7	95.4	96.2
107.5°	124.5	123.5	122.5	121.7	121.1	120.5	119.8	119.2	119.8	120.5	121.1
110°	140.5	139.8	139.0	138.4	137.8	137.2	136.7	136.2	136.7	137.2	137.8



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	156.5	155.7	154.9	154.3	153.7	153.3	152.8	152.2	152.8	153.3	153.7
115°	179.6	179.0	178.3	177.8	177.4	177.0	176.6	176.1	176.6	177.0	177.4
117.5°	202.4	202.1	201.8	201.3	200.8	200.3	199.8	199.3	199.8	200.3	200.8
120°	217.0	216.8	216.6	216.2	215.5	214.9	214.3	213.7	214.3	214.9	215.5
122.5°	231.2	231.0	230.7	230.3	229.8	229.3	228.8	228.3	228.8	229.3	229.8
125°	251.6	251.3	250.9	250.6	249.9	249.4	248.9	248.3	248.9	249.4	249.9
127.5°	271.1	270.7	270.4	269.9	269.4	268.9	268.3	267.7	268.3	268.9	269.4
130°	283.0	282.8	282.5	282.0	281.5	280.9	280.4	279.8	280.4	280.9	281.5
132.5°	294.5	294.3	294.0	293.6	293.1	292.6	291.9	291.4	291.9	292.6	293.1
135°	311.7	311.4	311.1	310.8	310.4	310.0	309.5	309.2	309.5	310.0	310.4
137.5°	327.0	326.9	326.7	326.4	325.8	325.3	324.8	324.2	324.8	325.3	325.8
140°	336.7	336.5	336.4	336.0	335.6	335.2	334.7	334.3	334.7	335.2	335.6
142.5°	346.1	345.9	345.6	345.4	344.9	344.5	344.1	343.7	344.1	344.5	344.9
145°	359.3	359.1	359.0	358.6	358.2	357.7	357.2	356.7	357.2	357.7	358.2
147.5°	370.8	370.7	370.5	370.2	370.0	369.6	369.3	369.0	369.3	369.6	370.0
150°	377.8	377.7	377.6	377.4	377.2	376.9	376.7	376.6	376.7	376.9	377.2
152.5°	384.0	383.9	383.9	383.7	383.6	383.5	383.4	383.3	383.4	383.5	383.6
155°	392.4	392.4	392.4	392.4	392.5	392.6	392.8	393.0	392.8	392.6	392.5
157.5°	400.1	400.2	400.3	400.3	400.3	400.4	400.4	400.4	400.4	400.4	400.3
160°	404.4	404.5	404.6	404.7	404.7	404.7	404.8	404.9	404.8	404.7	404.7
162.5°	408.2	408.2	408.3	408.5	408.7	408.8	409.0	409.2	409.0	408.8	408.7
165°	413.2	413.3	413.4	413.5	413.8	413.9	414.1	414.4	414.1	413.9	413.8
167.5°	417.1	417.1	417.1	417.2	417.6	417.9	418.1	418.4	418.1	417.9	417.6
170°	419.4	419.4	419.4	419.5	419.8	420.1	420.4	420.6	420.4	420.1	419.8
172.5°	420.8	420.7	420.7	420.8	421.2	421.5	421.9	422.1	421.9	421.5	421.2
175°	422.8	422.7	422.6	422.8	423.1	423.4	423.7	424.1	423.7	423.4	423.1
177.5°	423.5	423.5	423.4	423.5	423.8	424.1	424.4	424.6	424.4	424.1	423.8
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	11.9	12.6	12.2	12.9	12.6	13.3	13.4	12.3	12.3	14.1	11.9
90°	3.1	3.9	4.8	5.7	6.7	7.6	7.8	8.1	8.4	8.6	8.9
92.5°	5.1	5.4	6.0	6.7	7.4	8.0	8.5	9.0	9.5	9.9	10.2
95°	7.8	6.7	7.5	8.2	9.0	9.8	10.3	10.8	11.2	11.8	11.9
97.5°	33.4	30.3	25.2	20.2	15.2	10.2	10.7	11.2	11.9	12.4	12.7
100°	58.9	54.1	43.2	32.3	21.3	10.4	11.0	11.5	12.0	12.7	12.9
102.5°	73.9	68.5	56.5	44.6	32.6	20.8	19.0	17.3	15.5	13.8	13.0
105°	97.0	94.3	87.9	81.6	75.3	69.0	56.6	44.2	31.8	19.4	13.3
107.5°	121.7	122.5	123.5	124.5	125.5	126.4	117.3	108.3	99.2	90.2	80.9
110°	138.4	139.0	139.8	140.5	141.3	142.1	139.8	137.5	135.2	132.9	126.7



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	154.3	154.9	155.7	156.5	157.2	158.0	158.0	158.1	158.1	158.2	157.1
115°	177.8	178.3	179.0	179.6	180.2	180.8	181.6	182.3	183.0	183.7	184.1
117.5°	201.3	201.8	202.1	202.4	202.8	203.0	203.6	204.2	204.7	205.3	205.6
120°	216.2	216.6	216.8	217.0	217.2	217.4	218.0	218.6	219.1	219.6	220.0
122.5°	230.3	230.7	231.0	231.2	231.5	231.8	232.2	232.6	233.0	233.4	233.5
125°	250.6	250.9	251.3	251.6	251.8	252.1	252.3	252.4	252.5	252.6	252.8
127.5°	269.9	270.4	270.7	271.1	271.4	271.7	272.0	272.2	272.4	272.7	272.7
130°	282.0	282.5	282.8	283.0	283.3	283.6	283.8	284.2	284.5	284.7	284.8
132.5°	293.6	294.0	294.3	294.5	294.7	295.0	295.2	295.5	295.8	296.0	296.1
135°	310.8	311.1	311.4	311.7	312.0	312.3	312.5	312.7	312.9	313.1	313.1
137.5°	326.4	326.7	326.9	327.0	327.2	327.3	327.7	328.0	328.3	328.7	328.8
140°	336.0	336.4	336.5	336.7	337.0	337.2	337.4	337.7	338.0	338.3	338.3
142.5°	345.4	345.6	345.9	346.1	346.3	346.5	346.7	347.0	347.1	347.4	347.4
145°	358.6	359.0	359.1	359.3	359.4	359.5	359.7	359.8	360.0	360.1	360.2
147.5°	370.2	370.5	370.7	370.8	371.0	371.0	371.2	371.3	371.5	371.7	371.6
150°	377.4	377.6	377.7	377.8	378.0	378.1	378.3	378.4	378.5	378.7	378.6
152.5°	383.7	383.9	383.9	384.0	384.1	384.1	384.4	384.7	385.0	385.2	385.1
155°	392.4	392.4	392.4	392.4	392.5	392.6	393.0	393.3	393.7	394.0	394.0
157.5°	400.3	400.3	400.2	400.1	400.0	400.0	400.4	400.8	401.3	401.7	401.6
160°	404.7	404.6	404.5	404.4	404.4	404.3	404.7	405.1	405.6	406.0	405.9
162.5°	408.5	408.3	408.2	408.2	408.1	408.0	408.5	409.0	409.5	409.9	410.0
165°	413.5	413.4	413.3	413.2	413.1	413.1	413.7	414.2	414.8	415.4	415.4
167.5°	417.2	417.1	417.1	417.1	417.1	417.1	417.7	418.2	418.8	419.4	419.4
170°	419.5	419.4	419.4	419.4	419.4	419.4	420.0	420.5	421.1	421.6	421.6
172.5°	420.8	420.7	420.7	420.8	420.9	420.9	421.5	422.0	422.6	423.1	423.1
175°	422.8	422.6	422.7	422.8	422.8	422.8	423.4	423.8	424.4	424.8	424.8
177.5°	423.5	423.4	423.5	423.5	423.6	423.7	424.1	424.5	425.0	425.4	425.3
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	11.9	11.9	11.4	10.9	11.4	11.9	11.9	11.9	14.1	12.3	12.3
90°	9.0	9.2	9.3	9.5	9.3	9.2	9.0	8.9	8.6	8.4	8.1
92.5°	10.2	10.3	10.3	10.4	10.3	10.3	10.2	10.2	9.9	9.5	9.0
95°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.8	11.2	10.8
97.5°	12.8	12.8	12.9	13.0	12.9	12.8	12.8	12.7	12.4	11.9	11.2
100°	13.0	13.1	13.2	13.2	13.2	13.1	13.0	12.9	12.7	12.0	11.5
102.5°	13.1	13.2	13.4	13.5	13.4	13.2	13.1	13.0	13.8	15.5	17.3
105°	13.5	13.6	13.7	13.8	13.7	13.6	13.5	13.3	19.4	31.8	44.2
107.5°	71.6	62.2	52.9	43.5	52.9	62.2	71.6	80.9	90.2	99.2	108.3
110°	116.7	106.6	96.7	86.7	96.7	106.6	116.7	126.7	132.9	135.2	137.5



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	155.0	152.9	150.8	148.6	150.8	152.9	155.0	157.1	158.2	158.1	158.1
115°	184.4	184.8	185.0	185.3	185.0	184.8	184.4	184.1	183.7	183.0	182.3
117.5°	205.6	205.7	205.8	205.8	205.8	205.7	205.6	205.6	205.3	204.7	204.2
120°	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	219.6	219.1	218.6
122.5°	233.6	233.7	233.7	233.8	233.7	233.7	233.6	233.5	233.4	233.0	232.6
125°	252.9	253.1	253.2	253.3	253.2	253.1	252.9	252.8	252.6	252.5	252.4
127.5°	272.5	272.4	272.2	272.2	272.2	272.4	272.5	272.7	272.7	272.4	272.2
130°	284.6	284.5	284.4	284.2	284.4	284.5	284.6	284.8	284.7	284.5	284.2
132.5°	295.9	295.7	295.5	295.3	295.5	295.7	295.9	296.1	296.0	295.8	295.5
135°	312.9	312.7	312.5	312.3	312.5	312.7	312.9	313.1	313.1	312.9	312.7
137.5°	328.6	328.5	328.3	328.2	328.3	328.5	328.6	328.8	328.7	328.3	328.0
140°	338.2	338.0	338.0	337.8	338.0	338.0	338.2	338.3	338.3	338.0	337.7
142.5°	347.2	347.0	346.8	346.6	346.8	347.0	347.2	347.4	347.4	347.1	347.0
145°	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.2	360.1	360.0	359.8
147.5°	371.2	370.9	370.6	370.2	370.6	370.9	371.2	371.6	371.7	371.5	371.3
150°	378.4	378.3	378.0	377.8	378.0	378.3	378.4	378.6	378.7	378.5	378.4
152.5°	384.9	384.5	384.1	383.9	384.1	384.5	384.9	385.1	385.2	385.0	384.7
155°	393.6	393.2	392.7	392.3	392.7	393.2	393.6	394.0	394.0	393.7	393.3
157.5°	401.1	400.6	399.9	399.4	399.9	400.6	401.1	401.6	401.7	401.3	400.8
160°	405.5	404.9	404.5	403.9	404.5	404.9	405.5	405.9	406.0	405.6	405.1
162.5°	409.6	409.1	408.7	408.2	408.7	409.1	409.6	410.0	409.9	409.5	409.0
165°	414.9	414.4	413.9	413.4	413.9	414.4	414.9	415.4	415.4	414.8	414.2
167.5°	418.8	418.2	417.7	417.1	417.7	418.2	418.8	419.4	419.4	418.8	418.2
170°	421.1	420.5	420.0	419.4	420.0	420.5	421.1	421.6	421.6	421.1	420.5
172.5°	422.5	421.9	421.2	420.6	421.2	421.9	422.5	423.1	423.1	422.6	422.0
175°	424.3	423.7	423.1	422.6	423.1	423.7	424.3	424.8	424.8	424.4	423.8
177.5°	424.8	424.3	423.7	423.1	423.7	424.3	424.8	425.3	425.4	425.0	424.5
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	13.4	13.3	12.6	12.9	12.2	12.6	11.9	12.2	12.7	12.6	13.6
90°	7.8	7.6	6.7	5.7	4.8	3.9	3.1	2.4	1.7	1.0	0.4
92.5°	8.5	8.0	7.4	6.7	6.0	5.4	5.1	5.3	5.4	5.7	5.9
95°	10.3	9.8	9.0	8.2	7.5	6.7	7.8	10.6	13.5	16.3	19.3
97.5°	10.7	10.2	15.2	20.2	25.2	30.3	33.4	34.8	36.0	37.4	38.6
100°	11.0	10.4	21.3	32.3	43.2	54.1	58.9	57.4	56.1	54.7	53.2
102.5°	19.0	20.8	32.6	44.6	56.5	68.5	73.9	72.9	71.9	70.9	69.9
105°	56.6	69.0	75.3	81.6	87.9	94.3	97.0	96.2	95.4	94.7	93.9
107.5°	117.3	126.4	125.5	124.5	123.5	122.5	121.7	121.1	120.5	119.8	119.2
110°	139.8	142.1	141.3	140.5	139.8	139.0	138.4	137.8	137.2	136.7	136.2



TEST NUMBER: P332045-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	158.0	158.0	157.2	156.5	155.7	154.9	154.3	153.7	153.3	152.8	152.2
115°	181.6	180.8	180.2	179.6	179.0	178.3	177.8	177.4	177.0	176.6	176.1
117.5°	203.6	203.0	202.8	202.4	202.1	201.8	201.3	200.8	200.3	199.8	199.3
120°	218.0	217.4	217.2	217.0	216.8	216.6	216.2	215.5	214.9	214.3	213.7
122.5°	232.2	231.8	231.5	231.2	231.0	230.7	230.3	229.8	229.3	228.8	228.3
125°	252.3	252.1	251.8	251.6	251.3	250.9	250.6	249.9	249.4	248.9	248.3
127.5°	272.0	271.7	271.4	271.1	270.7	270.4	269.9	269.4	268.9	268.3	267.7
130°	283.8	283.6	283.3	283.0	282.8	282.5	282.0	281.5	280.9	280.4	279.8
132.5°	295.2	295.0	294.7	294.5	294.3	294.0	293.6	293.1	292.6	291.9	291.4
135°	312.5	312.3	312.0	311.7	311.4	311.1	310.8	310.4	310.0	309.5	309.2
137.5°	327.7	327.3	327.2	327.0	326.9	326.7	326.4	325.8	325.3	324.8	324.2
140°	337.4	337.2	337.0	336.7	336.5	336.4	336.0	335.6	335.2	334.7	334.3
142.5°	346.7	346.5	346.3	346.1	345.9	345.6	345.4	344.9	344.5	344.1	343.7
145°	359.7	359.5	359.4	359.3	359.1	359.0	358.6	358.2	357.7	357.2	356.7
147.5°	371.2	371.0	371.0	370.8	370.7	370.5	370.2	370.0	369.6	369.3	369.0
150°	378.3	378.1	378.0	377.8	377.7	377.6	377.4	377.2	376.9	376.7	376.6
152.5°	384.4	384.1	384.1	384.0	383.9	383.9	383.7	383.6	383.5	383.4	383.3
155°	393.0	392.6	392.5	392.4	392.4	392.4	392.4	392.5	392.6	392.8	393.0
157.5°	400.4	400.0	400.0	400.1	400.2	400.3	400.3	400.3	400.4	400.4	400.4
160°	404.7	404.3	404.4	404.4	404.5	404.6	404.7	404.7	404.7	404.8	404.9
162.5°	408.5	408.0	408.1	408.2	408.2	408.3	408.5	408.7	408.8	409.0	409.2
165°	413.7	413.1	413.1	413.2	413.3	413.4	413.5	413.8	413.9	414.1	414.4
167.5°	417.7	417.1	417.1	417.1	417.1	417.1	417.2	417.6	417.9	418.1	418.4
170°	420.0	419.4	419.4	419.4	419.4	419.4	419.5	419.8	420.1	420.4	420.6
172.5°	421.5	420.9	420.9	420.8	420.7	420.7	420.8	421.2	421.5	421.9	422.1
175°	423.4	422.8	422.8	422.8	422.7	422.6	422.8	423.1	423.4	423.7	424.1
177.5°	424.1	423.7	423.6	423.5	423.5	423.4	423.5	423.8	424.1	424.4	424.6
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



TEST NUMBER: P332045-940

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	14.8	14.9	16.8	18.0	20.4	22.3	21.9	21.0	20.6	20.1	19.5
90°	1.0	1.7	2.4	3.1	3.9	4.8	5.7	6.7	7.6	7.8	8.1
92.5°	5.7	5.4	5.3	5.1	5.4	6.0	6.7	7.4	8.0	8.5	9.0
95°	16.3	13.5	10.6	7.8	6.7	7.5	8.2	9.0	9.8	10.3	10.8
97.5°	37.4	36.0	34.8	33.4	30.3	25.2	20.2	15.2	10.2	10.7	11.2
100°	54.7	56.1	57.4	58.9	54.1	43.2	32.3	21.3	10.4	11.0	11.5
102.5°	70.9	71.9	72.9	73.9	68.5	56.5	44.6	32.6	20.8	19.0	17.3
105°	94.7	95.4	96.2	97.0	94.3	87.9	81.6	75.3	69.0	56.6	44.2
107.5°	119.8	120.5	121.1	121.7	122.5	123.5	124.5	125.5	126.4	117.3	108.3
110°	136.7	137.2	137.8	138.4	139.0	139.8	140.5	141.3	142.1	139.8	137.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	152.8	153.3	153.7	154.3	154.9	155.7	156.5	157.2	158.0	158.0	158.1
115°	176.6	177.0	177.4	177.8	178.3	179.0	179.6	180.2	180.8	181.6	182.3
117.5°	199.8	200.3	200.8	201.3	201.8	202.1	202.4	202.8	203.0	203.6	204.2
120°	214.3	214.9	215.5	216.2	216.6	216.8	217.0	217.2	217.4	218.0	218.6
122.5°	228.8	229.3	229.8	230.3	230.7	231.0	231.2	231.5	231.8	232.2	232.6
125°	248.9	249.4	249.9	250.6	250.9	251.3	251.6	251.8	252.1	252.3	252.4
127.5°	268.3	268.9	269.4	269.9	270.4	270.7	271.1	271.4	271.7	272.0	272.2
130°	280.4	280.9	281.5	282.0	282.5	282.8	283.0	283.3	283.6	283.8	284.2
132.5°	291.9	292.6	293.1	293.6	294.0	294.3	294.5	294.7	295.0	295.2	295.5
135°	309.5	310.0	310.4	310.8	311.1	311.4	311.7	312.0	312.3	312.5	312.7
137.5°	324.8	325.3	325.8	326.4	326.7	326.9	327.0	327.2	327.3	327.7	328.0
140°	334.7	335.2	335.6	336.0	336.4	336.5	336.7	337.0	337.2	337.4	337.7
142.5°	344.1	344.5	344.9	345.4	345.6	345.9	346.1	346.3	346.5	346.7	347.0
145°	357.2	357.7	358.2	358.6	359.0	359.1	359.3	359.4	359.5	359.7	359.8
147.5°	369.3	369.6	370.0	370.2	370.5	370.7	370.8	371.0	371.0	371.2	371.3
150°	376.7	376.9	377.2	377.4	377.6	377.7	377.8	378.0	378.1	378.3	378.4
152.5°	383.4	383.5	383.6	383.7	383.9	383.9	384.0	384.1	384.1	384.4	384.7
155°	392.8	392.6	392.5	392.4	392.4	392.4	392.4	392.5	392.6	393.0	393.3
157.5°	400.4	400.4	400.3	400.3	400.3	400.2	400.1	400.0	400.0	400.4	400.8
160°	404.8	404.7	404.7	404.7	404.6	404.5	404.4	404.4	404.3	404.7	405.1
162.5°	409.0	408.8	408.7	408.5	408.3	408.2	408.2	408.1	408.0	408.5	409.0
165°	414.1	413.9	413.8	413.5	413.4	413.3	413.2	413.1	413.1	413.7	414.2
167.5°	418.1	417.9	417.6	417.2	417.1	417.1	417.1	417.1	417.1	417.7	418.2
170°	420.4	420.1	419.8	419.5	419.4	419.4	419.4	419.4	419.4	420.0	420.5
172.5°	421.9	421.5	421.2	420.8	420.7	420.7	420.8	420.9	420.9	421.5	422.0
175°	423.7	423.4	423.1	422.8	422.6	422.7	422.8	422.8	422.8	423.4	423.8
177.5°	424.4	424.1	423.8	423.5	423.4	423.5	423.5	423.6	423.7	424.1	424.5
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	19.1	18.5	18.0	18.6	18.1	17.6	18.7
90°	8.4	8.6	8.9	9.0	9.2	9.3	9.5
92.5°	9.5	9.9	10.2	10.2	10.3	10.3	10.4
95°	11.2	11.8	11.9	11.9	11.9	11.9	11.9
97.5°	11.9	12.4	12.7	12.8	12.8	12.9	13.0
100°	12.0	12.7	12.9	13.0	13.1	13.2	13.2
102.5°	15.5	13.8	13.0	13.1	13.2	13.4	13.5
105°	31.8	19.4	13.3	13.5	13.6	13.7	13.8
107.5°	99.2	90.2	80.9	71.6	62.2	52.9	43.5
110°	135.2	132.9	126.7	116.7	106.6	96.7	86.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.1	158.2	157.1	155.0	152.9	150.8	148.6
115°	183.0	183.7	184.1	184.4	184.8	185.0	185.3
117.5°	204.7	205.3	205.6	205.6	205.7	205.8	205.8
120°	219.1	219.6	220.0	220.0	220.0	220.0	220.0
122.5°	233.0	233.4	233.5	233.6	233.7	233.7	233.8
125°	252.5	252.6	252.8	252.9	253.1	253.2	253.3
127.5°	272.4	272.7	272.7	272.5	272.4	272.2	272.2
130°	284.5	284.7	284.8	284.6	284.5	284.4	284.2
132.5°	295.8	296.0	296.1	295.9	295.7	295.5	295.3
135°	312.9	313.1	313.1	312.9	312.7	312.5	312.3
137.5°	328.3	328.7	328.8	328.6	328.5	328.3	328.2
140°	338.0	338.3	338.3	338.2	338.0	338.0	337.8
142.5°	347.1	347.4	347.4	347.2	347.0	346.8	346.6
145°	360.0	360.1	360.2	360.2	360.2	360.2	360.2
147.5°	371.5	371.7	371.6	371.2	370.9	370.6	370.2
150°	378.5	378.7	378.6	378.4	378.3	378.0	377.8
152.5°	385.0	385.2	385.1	384.9	384.5	384.1	383.9
155°	393.7	394.0	394.0	393.6	393.2	392.7	392.3
157.5°	401.3	401.7	401.6	401.1	400.6	399.9	399.4
160°	405.6	406.0	405.9	405.5	404.9	404.5	403.9
162.5°	409.5	409.9	410.0	409.6	409.1	408.7	408.2
165°	414.8	415.4	415.4	414.9	414.4	413.9	413.4
167.5°	418.8	419.4	419.4	418.8	418.2	417.7	417.1
170°	421.1	421.6	421.6	421.1	420.5	420.0	419.4
172.5°	422.6	423.1	423.1	422.5	421.9	421.2	420.6
175°	424.4	424.8	424.8	424.3	423.7	423.1	422.6
177.5°	425.0	425.4	425.3	424.8	424.3	423.7	423.1
180°	424.1	424.1	424.1	424.1	424.1	424.1	424.1

(END OF REPORT)