

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: P332064-927

Luminaire Tested: **S123DIP-S1165D805U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332064-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D805U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065.3 lumens
Efficiency: N/A
Efficacy: 99.9 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

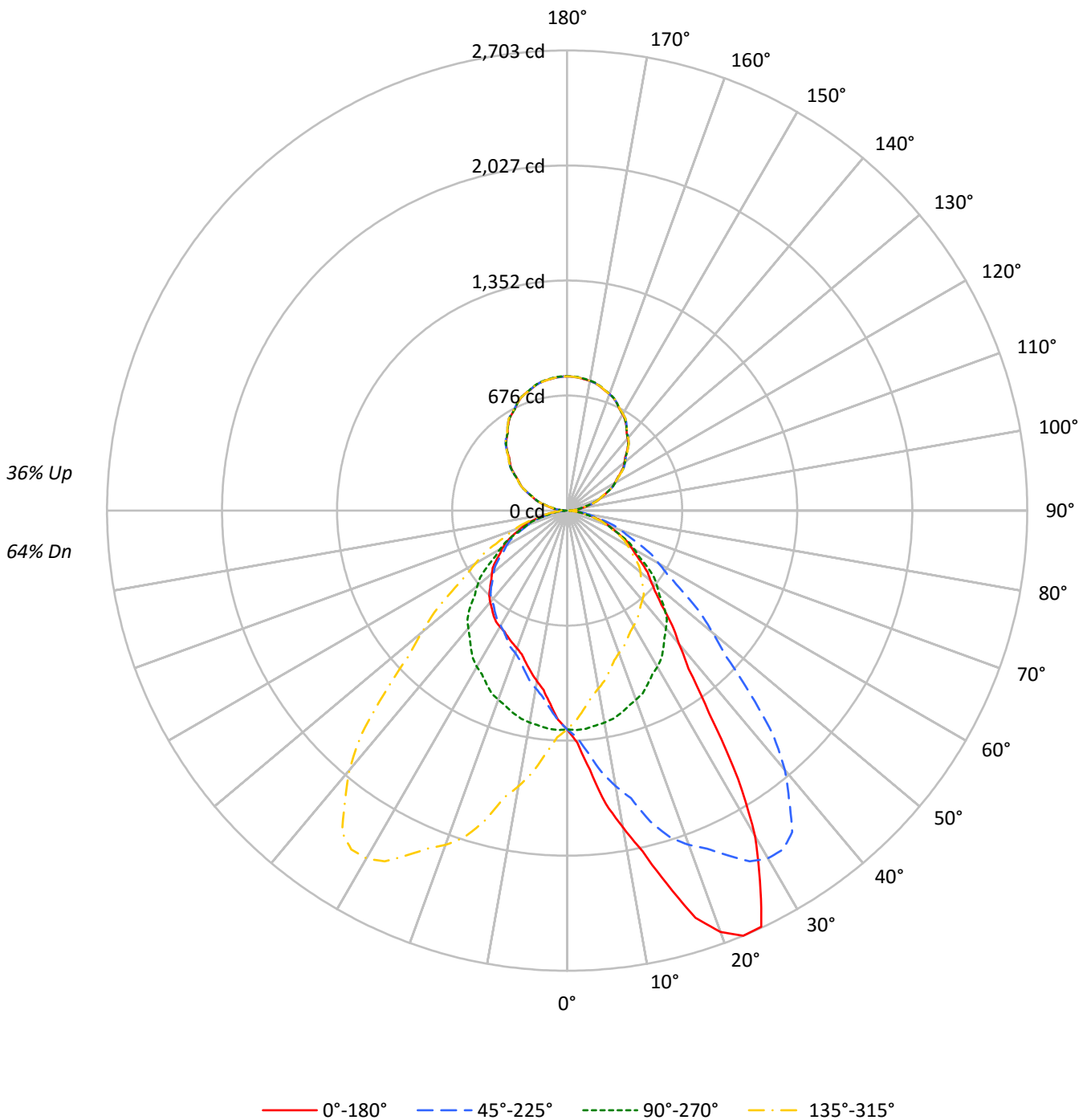
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64					64			
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55					55			
2	93	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46					46			
3	85	75	68	62	79	71	64	59	63	58	54	55	52	48	49	46	43	40					40			
4	78	67	59	53	73	63	56	50	56	50	46	50	45	42	44	40	37	34					34			
5	71	60	51	45	67	56	49	44	50	44	40	45	40	36	39	36	33	30					30			
6	66	54	45	40	62	51	43	38	45	39	35	40	36	32	36	32	29	26					26			
7	61	49	40	35	57	46	39	34	41	35	31	37	32	28	33	29	26	23					23			
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21					21			
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19					19			
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17					17			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	2.1
10°-20°	405.9	6.7
20°-30°	681.2	11.2
30°-40°	771.4	12.7
40°-50°	691.7	11.4
50°-60°	558.2	9.2
60°-70°	389.0	6.4
70°-80°	204.5	3.4
80°-90°	52.3	0.9
90°-100°	51.4	0.8
100°-110°	153.7	2.5
110°-120°	261.5	4.3
120°-130°	343.9	5.7
130°-140°	386.6	6.4
140°-150°	380.0	6.3
150°-160°	319.9	5.3
160°-170°	212.9	3.5
170°-180°	74.6	1.2
0°-30°	1213.7	20.0
0°-40°	1985.1	32.7
0°-60°	3235.0	53.3
0°-90°	3880.8	64.0
90°-120°	466.6	7.7
90°-150°	1577.1	26.0
90°-180°	2185.0	36.0
0°-180°	6065.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	49
90°	19	1	19	1	19	11
95°	48	36	48	36	48	50
105°	147	139	147	139	147	156
115°	264	263	264	263	264	261
125°	381	385	381	385	381	341
135°	499	500	499	500	499	384
145°	606	606	606	606	606	378
155°	693	694	693	694	693	319
165°	754	756	754	756	754	213
175°	784	787	784	787	784	74
180°	788	788	788	788	788	

TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	18.7	17.6	18.1	18.5	17.9	18.4	18.8	19.2	19.5	19.9	20.0
90°	18.6	18.3	18.1	17.7	17.5	17.0	16.5	16.0	15.4	14.9	13.1
92.5°	25.0	25.2	25.3	25.5	25.7	25.5	25.1	24.6	24.2	23.8	22.7
95°	48.3	48.3	48.3	48.3	48.3	48.0	47.5	46.9	46.4	45.9	44.8
97.5°	74.3	74.4	74.5	74.5	74.5	74.2	73.6	73.0	72.3	71.7	70.9
100°	94.1	93.9	93.6	93.3	93.1	92.7	92.3	91.9	91.5	91.0	90.4
102.5°	114.5	114.5	114.5	114.6	114.7	114.5	114.1	113.7	113.3	112.9	111.9
105°	147.4	147.1	146.9	146.6	146.3	146.2	146.2	146.2	146.2	146.2	145.0
107.5°	181.7	181.9	182.0	182.2	182.4	182.3	181.8	181.3	180.9	180.5	180.0
110°	205.0	205.3	205.6	205.8	206.1	206.0	205.4	204.9	204.3	203.7	203.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	229.8	229.8	229.9	230.0	230.0	229.7	229.0	228.4	227.8	227.0	227.0
115°	263.9	264.0	264.1	264.3	264.4	264.4	264.3	264.1	264.0	263.9	264.1
117.5°	298.4	298.8	299.2	299.6	299.9	300.2	300.2	300.2	300.2	300.2	300.6
120°	322.7	323.0	323.2	323.5	323.8	324.0	324.2	324.2	324.4	324.6	325.3
122.5°	345.9	346.3	346.7	347.1	347.5	347.9	348.2	348.6	349.0	349.4	349.7
125°	380.9	381.4	382.0	382.5	383.1	383.7	384.2	384.8	385.3	385.9	386.1
127.5°	415.7	416.4	417.0	417.6	418.3	419.0	419.7	420.5	421.3	422.0	422.3
130°	438.5	439.5	440.5	441.4	442.4	443.1	443.7	444.3	444.7	445.3	445.8
132.5°	462.3	463.0	463.7	464.5	465.2	466.0	466.6	467.3	467.9	468.6	468.9
135°	499.2	499.5	499.8	500.0	500.3	500.7	501.3	501.8	502.4	503.0	503.0
137.5°	531.8	532.3	532.8	533.4	533.9	534.4	535.0	535.6	536.1	536.7	536.4
140°	553.1	554.1	555.0	556.0	557.0	557.5	557.6	557.8	557.9	558.0	557.9
142.5°	574.9	575.6	576.4	577.1	577.9	578.3	578.5	578.6	578.7	578.8	578.6
145°	606.3	606.9	607.4	608.0	608.6	608.9	609.0	609.2	609.3	609.4	609.0
147.5°	634.4	635.2	636.0	636.8	637.6	638.1	638.1	638.1	638.1	638.1	637.7
150°	652.2	653.0	653.9	654.7	655.5	655.9	655.9	655.9	655.9	655.9	655.6
152.5°	669.6	670.3	671.0	671.7	672.4	672.6	672.4	672.2	672.0	671.8	671.6
155°	693.1	694.0	695.0	695.9	696.9	697.1	696.6	696.0	695.5	694.9	694.8
157.5°	714.5	715.3	716.1	716.8	717.6	717.6	717.1	716.5	716.0	715.3	715.3
160°	728.3	728.9	729.4	730.0	730.6	730.5	729.8	729.1	728.4	727.8	727.8
162.5°	738.8	739.7	740.5	741.4	742.3	742.4	741.7	741.0	740.3	739.7	739.5
165°	753.8	754.7	755.7	756.7	757.6	757.7	756.9	756.1	755.2	754.4	754.4
167.5°	766.5	767.4	768.3	769.1	769.9	769.9	769.1	768.3	767.4	766.5	766.4
170°	772.9	774.0	774.9	775.9	776.8	776.8	775.9	774.9	774.0	772.9	772.9
172.5°	777.9	778.9	779.8	780.8	781.8	781.8	781.0	780.1	779.3	778.4	778.4
175°	783.5	784.4	785.4	786.4	787.3	787.4	786.6	785.8	785.0	784.1	784.1
177.5°	786.5	787.3	788.0	788.8	789.6	789.6	788.9	788.3	787.6	787.0	787.0
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	20.7	20.8	19.0	16.6	15.4	13.6	13.4	12.0	11.3	11.6	11.4
90°	11.2	9.5	7.7	6.1	4.8	3.4	2.0	0.6	2.0	3.4	4.8
92.5°	21.8	20.8	19.7	18.7	17.8	16.9	15.9	15.0	15.9	16.9	17.8
95°	43.6	42.5	41.4	40.4	39.5	38.5	37.5	36.5	37.5	38.5	39.5
97.5°	70.1	69.3	68.5	67.8	67.0	66.3	65.6	64.9	65.6	66.3	67.0
100°	89.7	89.0	88.3	87.5	86.7	85.9	85.1	84.2	85.1	85.9	86.7
102.5°	111.1	110.1	109.2	108.5	108.1	107.5	107.0	106.5	107.0	107.5	108.1
105°	143.7	142.4	141.2	140.5	140.2	139.9	139.7	139.3	139.7	139.9	140.2
107.5°	179.5	179.0	178.5	178.2	178.0	177.8	177.7	177.5	177.7	177.8	178.0
110°	203.2	203.0	202.6	202.4	202.1	201.8	201.5	201.3	201.5	201.8	202.1



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	227.0	226.9	226.8	226.7	226.6	226.4	226.2	226.1	226.2	226.4	226.6
115°	264.4	264.7	265.0	264.9	264.4	264.0	263.6	263.2	263.6	264.0	264.4
117.5°	301.0	301.3	301.7	301.7	301.4	301.2	301.0	300.6	301.0	301.2	301.4
120°	325.9	326.6	327.3	327.3	326.4	325.6	324.7	323.9	324.7	325.6	326.4
122.5°	350.1	350.4	350.8	350.6	350.0	349.4	348.8	348.2	348.8	349.4	350.0
125°	386.4	386.7	387.0	386.9	386.5	386.0	385.6	385.2	385.6	386.0	386.5
127.5°	422.6	422.9	423.3	422.9	422.1	421.2	420.3	419.5	420.3	421.2	422.1
130°	446.2	446.6	446.9	446.6	445.5	444.4	443.3	442.2	443.3	444.4	445.5
132.5°	469.2	469.5	469.8	469.4	468.3	467.2	466.1	465.0	466.1	467.2	468.3
135°	503.2	503.4	503.5	503.1	502.3	501.5	500.7	499.8	500.7	501.5	502.3
137.5°	536.0	535.7	535.3	534.8	534.1	533.4	532.7	532.0	532.7	533.4	534.1
140°	557.8	557.6	557.5	557.1	556.4	555.7	555.0	554.3	555.0	555.7	556.4
142.5°	578.4	578.1	577.9	577.4	576.7	576.0	575.4	574.6	575.4	576.0	576.7
145°	608.6	608.2	607.8	607.4	607.2	606.9	606.7	606.3	606.7	606.9	607.2
147.5°	637.3	636.9	636.5	636.1	635.6	635.1	634.6	634.1	634.6	635.1	635.6
150°	655.4	655.1	654.8	654.5	654.3	653.9	653.7	653.4	653.7	653.9	654.3
152.5°	671.5	671.3	671.1	670.8	670.4	670.0	669.6	669.3	669.6	670.0	670.4
155°	694.7	694.5	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3
157.5°	715.2	715.0	714.9	714.9	715.1	715.3	715.4	715.6	715.4	715.3	715.1
160°	727.8	727.8	727.8	727.9	728.2	728.4	728.7	729.0	728.7	728.4	728.2
162.5°	739.4	739.3	739.2	739.3	739.7	740.1	740.5	740.8	740.5	740.1	739.7
165°	754.4	754.4	754.4	754.6	755.0	755.4	755.8	756.2	755.8	755.4	755.0
167.5°	766.3	766.2	766.1	766.3	766.8	767.4	767.9	768.5	767.9	767.4	766.8
170°	772.9	772.9	772.9	773.2	773.8	774.4	774.9	775.5	774.9	774.4	773.8
172.5°	778.4	778.4	778.4	778.7	779.3	779.8	780.4	780.9	780.4	779.8	779.3
175°	784.1	784.1	784.1	784.4	785.0	785.5	786.0	786.6	786.0	785.5	785.0
177.5°	787.0	787.0	787.0	787.2	787.6	788.1	788.5	788.9	788.5	788.1	787.6
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	11.2	12.0	11.9	12.8	12.6	13.5	13.5	12.7	12.8	14.3	12.4
90°	6.1	7.7	9.5	11.2	13.1	14.9	15.4	16.0	16.5	17.0	17.5
92.5°	18.7	19.7	20.8	21.8	22.7	23.8	24.2	24.6	25.1	25.5	25.7
95°	40.4	41.4	42.5	43.6	44.8	45.9	46.4	46.9	47.5	48.0	48.3
97.5°	67.8	68.5	69.3	70.1	70.9	71.7	72.3	73.0	73.6	74.2	74.5
100°	87.5	88.3	89.0	89.7	90.4	91.0	91.5	91.9	92.3	92.7	93.1
102.5°	108.5	109.2	110.1	111.1	111.9	112.9	113.3	113.7	114.1	114.5	114.7
105°	140.5	141.2	142.4	143.7	145.0	146.2	146.2	146.2	146.2	146.2	146.3
107.5°	178.2	178.5	179.0	179.5	180.0	180.5	180.9	181.3	181.8	182.3	182.4
110°	202.4	202.6	203.0	203.2	203.5	203.7	204.3	204.9	205.4	206.0	206.1



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	226.7	226.8	226.9	227.0	227.0	227.0	227.8	228.4	229.0	229.7	230.0
115°	264.9	265.0	264.7	264.4	264.1	263.9	264.0	264.1	264.3	264.4	264.4
117.5°	301.7	301.7	301.3	301.0	300.6	300.2	300.2	300.2	300.2	300.2	299.9
120°	327.3	327.3	326.6	325.9	325.3	324.6	324.4	324.2	324.2	324.0	323.8
122.5°	350.6	350.8	350.4	350.1	349.7	349.4	349.0	348.6	348.2	347.9	347.5
125°	386.9	387.0	386.7	386.4	386.1	385.9	385.3	384.8	384.2	383.7	383.1
127.5°	422.9	423.3	422.9	422.6	422.3	422.0	421.3	420.5	419.7	419.0	418.3
130°	446.6	446.9	446.6	446.2	445.8	445.3	444.7	444.3	443.7	443.1	442.4
132.5°	469.4	469.8	469.5	469.2	468.9	468.6	467.9	467.3	466.6	466.0	465.2
135°	503.1	503.5	503.4	503.2	503.0	503.0	502.4	501.8	501.3	500.7	500.3
137.5°	534.8	535.3	535.7	536.0	536.4	536.7	536.1	535.6	535.0	534.4	533.9
140°	557.1	557.5	557.6	557.8	557.9	558.0	557.9	557.8	557.6	557.5	557.0
142.5°	577.4	577.9	578.1	578.4	578.6	578.8	578.7	578.6	578.5	578.3	577.9
145°	607.4	607.8	608.2	608.6	609.0	609.4	609.3	609.2	609.0	608.9	608.6
147.5°	636.1	636.5	636.9	637.3	637.7	638.1	638.1	638.1	638.1	638.1	637.6
150°	654.5	654.8	655.1	655.4	655.6	655.9	655.9	655.9	655.9	655.9	655.5
152.5°	670.8	671.1	671.3	671.5	671.6	671.8	672.0	672.2	672.4	672.6	672.4
155°	694.3	694.3	694.5	694.7	694.8	694.9	695.5	696.0	696.6	697.1	696.9
157.5°	714.9	714.9	715.0	715.2	715.3	715.3	716.0	716.5	717.1	717.6	717.6
160°	727.9	727.8	727.8	727.8	727.8	727.8	728.4	729.1	729.8	730.5	730.6
162.5°	739.3	739.2	739.3	739.4	739.5	739.7	740.3	741.0	741.7	742.4	742.3
165°	754.6	754.4	754.4	754.4	754.4	754.4	755.2	756.1	756.9	757.7	757.6
167.5°	766.3	766.1	766.2	766.3	766.4	766.5	767.4	768.3	769.1	769.9	769.9
170°	773.2	772.9	772.9	772.9	772.9	772.9	774.0	774.9	775.9	776.8	776.8
172.5°	778.7	778.4	778.4	778.4	778.4	778.4	779.3	780.1	781.0	781.8	781.8
175°	784.4	784.1	784.1	784.1	784.1	784.1	785.0	785.8	786.6	787.4	787.3
177.5°	787.2	787.0	787.0	787.0	787.0	787.0	787.6	788.3	788.9	789.6	789.6
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	12.5	12.6	12.1	11.7	12.1	12.6	12.5	12.4	14.3	12.8	12.7
90°	17.7	18.1	18.3	18.6	18.3	18.1	17.7	17.5	17.0	16.5	16.0
92.5°	25.5	25.3	25.2	25.0	25.2	25.3	25.5	25.7	25.5	25.1	24.6
95°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.0	47.5	46.9
97.5°	74.5	74.5	74.4	74.3	74.4	74.5	74.5	74.5	74.2	73.6	73.0
100°	93.3	93.6	93.9	94.1	93.9	93.6	93.3	93.1	92.7	92.3	91.9
102.5°	114.6	114.5	114.5	114.5	114.5	114.5	114.6	114.7	114.5	114.1	113.7
105°	146.6	146.9	147.1	147.4	147.1	146.9	146.6	146.3	146.2	146.2	146.2
107.5°	182.2	182.0	181.9	181.7	181.9	182.0	182.2	182.4	182.3	181.8	181.3
110°	205.8	205.6	205.3	205.0	205.3	205.6	205.8	206.1	206.0	205.4	204.9



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	230.0	229.9	229.8	229.8	229.8	229.9	230.0	230.0	229.7	229.0	228.4
115°	264.3	264.1	264.0	263.9	264.0	264.1	264.3	264.4	264.4	264.3	264.1
117.5°	299.6	299.2	298.8	298.4	298.8	299.2	299.6	299.9	300.2	300.2	300.2
120°	323.5	323.2	323.0	322.7	323.0	323.2	323.5	323.8	324.0	324.2	324.2
122.5°	347.1	346.7	346.3	345.9	346.3	346.7	347.1	347.5	347.9	348.2	348.6
125°	382.5	382.0	381.4	380.9	381.4	382.0	382.5	383.1	383.7	384.2	384.8
127.5°	417.6	417.0	416.4	415.7	416.4	417.0	417.6	418.3	419.0	419.7	420.5
130°	441.4	440.5	439.5	438.5	439.5	440.5	441.4	442.4	443.1	443.7	444.3
132.5°	464.5	463.7	463.0	462.3	463.0	463.7	464.5	465.2	466.0	466.6	467.3
135°	500.0	499.8	499.5	499.2	499.5	499.8	500.0	500.3	500.7	501.3	501.8
137.5°	533.4	532.8	532.3	531.8	532.3	532.8	533.4	533.9	534.4	535.0	535.6
140°	556.0	555.0	554.1	553.1	554.1	555.0	556.0	557.0	557.5	557.6	557.8
142.5°	577.1	576.4	575.6	574.9	575.6	576.4	577.1	577.9	578.3	578.5	578.6
145°	608.0	607.4	606.9	606.3	606.9	607.4	608.0	608.6	608.9	609.0	609.2
147.5°	636.8	636.0	635.2	634.4	635.2	636.0	636.8	637.6	638.1	638.1	638.1
150°	654.7	653.9	653.0	652.2	653.0	653.9	654.7	655.5	655.9	655.9	655.9
152.5°	671.7	671.0	670.3	669.6	670.3	671.0	671.7	672.4	672.6	672.4	672.2
155°	695.9	695.0	694.0	693.1	694.0	695.0	695.9	696.9	697.1	696.6	696.0
157.5°	716.8	716.1	715.3	714.5	715.3	716.1	716.8	717.6	717.6	717.1	716.5
160°	730.0	729.4	728.9	728.3	728.9	729.4	730.0	730.6	730.5	729.8	729.1
162.5°	741.4	740.5	739.7	738.8	739.7	740.5	741.4	742.3	742.4	741.7	741.0
165°	756.7	755.7	754.7	753.8	754.7	755.7	756.7	757.6	757.7	756.9	756.1
167.5°	769.1	768.3	767.4	766.5	767.4	768.3	769.1	769.9	769.9	769.1	768.3
170°	775.9	774.9	774.0	772.9	774.0	774.9	775.9	776.8	776.8	775.9	774.9
172.5°	780.8	779.8	778.9	777.9	778.9	779.8	780.8	781.8	781.8	781.0	780.1
175°	786.4	785.4	784.4	783.5	784.4	785.4	786.4	787.3	787.4	786.6	785.8
177.5°	788.8	788.0	787.3	786.5	787.3	788.0	788.8	789.6	789.6	788.9	788.3
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	13.5	13.5	12.6	12.8	11.9	12.0	11.2	11.4	11.6	11.3	12.0
90°	15.4	14.9	13.1	11.2	9.5	7.7	6.1	4.8	3.4	2.0	0.6
92.5°	24.2	23.8	22.7	21.8	20.8	19.7	18.7	17.8	16.9	15.9	15.0
95°	46.4	45.9	44.8	43.6	42.5	41.4	40.4	39.5	38.5	37.5	36.5
97.5°	72.3	71.7	70.9	70.1	69.3	68.5	67.8	67.0	66.3	65.6	64.9
100°	91.5	91.0	90.4	89.7	89.0	88.3	87.5	86.7	85.9	85.1	84.2
102.5°	113.3	112.9	111.9	111.1	110.1	109.2	108.5	108.1	107.5	107.0	106.5
105°	146.2	146.2	145.0	143.7	142.4	141.2	140.5	140.2	139.9	139.7	139.3
107.5°	180.9	180.5	180.0	179.5	179.0	178.5	178.2	178.0	177.8	177.7	177.5
110°	204.3	203.7	203.5	203.2	203.0	202.6	202.4	202.1	201.8	201.5	201.3



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	227.8	227.0	227.0	227.0	226.9	226.8	226.7	226.6	226.4	226.2	226.1
115°	264.0	263.9	264.1	264.4	264.7	265.0	264.9	264.4	264.0	263.6	263.2
117.5°	300.2	300.2	300.6	301.0	301.3	301.7	301.7	301.4	301.2	301.0	300.6
120°	324.4	324.6	325.3	325.9	326.6	327.3	327.3	326.4	325.6	324.7	323.9
122.5°	349.0	349.4	349.7	350.1	350.4	350.8	350.6	350.0	349.4	348.8	348.2
125°	385.3	385.9	386.1	386.4	386.7	387.0	386.9	386.5	386.0	385.6	385.2
127.5°	421.3	422.0	422.3	422.6	422.9	423.3	422.9	422.1	421.2	420.3	419.5
130°	444.7	445.3	445.8	446.2	446.6	446.9	446.6	445.5	444.4	443.3	442.2
132.5°	467.9	468.6	468.9	469.2	469.5	469.8	469.4	468.3	467.2	466.1	465.0
135°	502.4	503.0	503.0	503.2	503.4	503.5	503.1	502.3	501.5	500.7	499.8
137.5°	536.1	536.7	536.4	536.0	535.7	535.3	534.8	534.1	533.4	532.7	532.0
140°	557.9	558.0	557.9	557.8	557.6	557.5	557.1	556.4	555.7	555.0	554.3
142.5°	578.7	578.8	578.6	578.4	578.1	577.9	577.4	576.7	576.0	575.4	574.6
145°	609.3	609.4	609.0	608.6	608.2	607.8	607.4	607.2	606.9	606.7	606.3
147.5°	638.1	638.1	637.7	637.3	636.9	636.5	636.1	635.6	635.1	634.6	634.1
150°	655.9	655.9	655.6	655.4	655.1	654.8	654.5	654.3	653.9	653.7	653.4
152.5°	672.0	671.8	671.6	671.5	671.3	671.1	670.8	670.4	670.0	669.6	669.3
155°	695.5	694.9	694.8	694.7	694.5	694.3	694.3	694.3	694.3	694.3	694.3
157.5°	716.0	715.3	715.3	715.2	715.0	714.9	714.9	715.1	715.3	715.4	715.6
160°	728.4	727.8	727.8	727.8	727.8	727.8	727.9	728.2	728.4	728.7	729.0
162.5°	740.3	739.7	739.5	739.4	739.3	739.2	739.3	739.7	740.1	740.5	740.8
165°	755.2	754.4	754.4	754.4	754.4	754.4	754.6	755.0	755.4	755.8	756.2
167.5°	767.4	766.5	766.4	766.3	766.2	766.1	766.3	766.8	767.4	767.9	768.5
170°	774.0	772.9	772.9	772.9	772.9	772.9	773.2	773.8	774.4	774.9	775.5
172.5°	779.3	778.4	778.4	778.4	778.4	778.4	778.7	779.3	779.8	780.4	780.9
175°	785.0	784.1	784.1	784.1	784.1	784.1	784.4	785.0	785.5	786.0	786.6
177.5°	787.6	787.0	787.0	787.0	787.0	787.0	787.2	787.6	788.1	788.5	788.9
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.4	13.6	15.4	16.6	19.0	20.8	20.7	20.0	19.9	19.5	19.2
90°	2.0	3.4	4.8	6.1	7.7	9.5	11.2	13.1	14.9	15.4	16.0
92.5°	15.9	16.9	17.8	18.7	19.7	20.8	21.8	22.7	23.8	24.2	24.6
95°	37.5	38.5	39.5	40.4	41.4	42.5	43.6	44.8	45.9	46.4	46.9
97.5°	65.6	66.3	67.0	67.8	68.5	69.3	70.1	70.9	71.7	72.3	73.0
100°	85.1	85.9	86.7	87.5	88.3	89.0	89.7	90.4	91.0	91.5	91.9
102.5°	107.0	107.5	108.1	108.5	109.2	110.1	111.1	111.9	112.9	113.3	113.7
105°	139.7	139.9	140.2	140.5	141.2	142.4	143.7	145.0	146.2	146.2	146.2
107.5°	177.7	177.8	178.0	178.2	178.5	179.0	179.5	180.0	180.5	180.9	181.3
110°	201.5	201.8	202.1	202.4	202.6	203.0	203.2	203.5	203.7	204.3	204.9



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	226.2	226.4	226.6	226.7	226.8	226.9	227.0	227.0	227.0	227.8	228.4
115°	263.6	264.0	264.4	264.9	265.0	264.7	264.4	264.1	263.9	264.0	264.1
117.5°	301.0	301.2	301.4	301.7	301.7	301.3	301.0	300.6	300.2	300.2	300.2
120°	324.7	325.6	326.4	327.3	327.3	326.6	325.9	325.3	324.6	324.4	324.2
122.5°	348.8	349.4	350.0	350.6	350.8	350.4	350.1	349.7	349.4	349.0	348.6
125°	385.6	386.0	386.5	386.9	387.0	386.7	386.4	386.1	385.9	385.3	384.8
127.5°	420.3	421.2	422.1	422.9	423.3	422.9	422.6	422.3	422.0	421.3	420.5
130°	443.3	444.4	445.5	446.6	446.9	446.6	446.2	445.8	445.3	444.7	444.3
132.5°	466.1	467.2	468.3	469.4	469.8	469.5	469.2	468.9	468.6	467.9	467.3
135°	500.7	501.5	502.3	503.1	503.5	503.4	503.2	503.0	503.0	502.4	501.8
137.5°	532.7	533.4	534.1	534.8	535.3	535.7	536.0	536.4	536.7	536.1	535.6
140°	555.0	555.7	556.4	557.1	557.5	557.6	557.8	557.9	558.0	557.9	557.8
142.5°	575.4	576.0	576.7	577.4	577.9	578.1	578.4	578.6	578.8	578.7	578.6
145°	606.7	606.9	607.2	607.4	607.8	608.2	608.6	609.0	609.4	609.3	609.2
147.5°	634.6	635.1	635.6	636.1	636.5	636.9	637.3	637.7	638.1	638.1	638.1
150°	653.7	653.9	654.3	654.5	654.8	655.1	655.4	655.6	655.9	655.9	655.9
152.5°	669.6	670.0	670.4	670.8	671.1	671.3	671.5	671.6	671.8	672.0	672.2
155°	694.3	694.3	694.3	694.3	694.3	694.5	694.7	694.8	694.9	695.5	696.0
157.5°	715.4	715.3	715.1	714.9	714.9	715.0	715.2	715.3	715.3	716.0	716.5
160°	728.7	728.4	728.2	727.9	727.8	727.8	727.8	727.8	727.8	728.4	729.1
162.5°	740.5	740.1	739.7	739.3	739.2	739.3	739.4	739.5	739.7	740.3	741.0
165°	755.8	755.4	755.0	754.6	754.4	754.4	754.4	754.4	754.4	755.2	756.1
167.5°	767.9	767.4	766.8	766.3	766.1	766.2	766.3	766.4	766.5	767.4	768.3
170°	774.9	774.4	773.8	773.2	772.9	772.9	772.9	772.9	772.9	774.0	774.9
172.5°	780.4	779.8	779.3	778.7	778.4	778.4	778.4	778.4	778.4	779.3	780.1
175°	786.0	785.5	785.0	784.4	784.1	784.1	784.1	784.1	784.1	785.0	785.8
177.5°	788.5	788.1	787.6	787.2	787.0	787.0	787.0	787.0	787.0	787.6	788.3
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	18.8	18.4	17.9	18.5	18.1	17.6	18.7
90°	16.5	17.0	17.5	17.7	18.1	18.3	18.6
92.5°	25.1	25.5	25.7	25.5	25.3	25.2	25.0
95°	47.5	48.0	48.3	48.3	48.3	48.3	48.3
97.5°	73.6	74.2	74.5	74.5	74.5	74.4	74.3
100°	92.3	92.7	93.1	93.3	93.6	93.9	94.1
102.5°	114.1	114.5	114.7	114.6	114.5	114.5	114.5
105°	146.2	146.2	146.3	146.6	146.9	147.1	147.4
107.5°	181.8	182.3	182.4	182.2	182.0	181.9	181.7
110°	205.4	206.0	206.1	205.8	205.6	205.3	205.0



TEST NUMBER: P332064-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.0	229.7	230.0	230.0	229.9	229.8	229.8
115°	264.3	264.4	264.4	264.3	264.1	264.0	263.9
117.5°	300.2	300.2	299.9	299.6	299.2	298.8	298.4
120°	324.2	324.0	323.8	323.5	323.2	323.0	322.7
122.5°	348.2	347.9	347.5	347.1	346.7	346.3	345.9
125°	384.2	383.7	383.1	382.5	382.0	381.4	380.9
127.5°	419.7	419.0	418.3	417.6	417.0	416.4	415.7
130°	443.7	443.1	442.4	441.4	440.5	439.5	438.5
132.5°	466.6	466.0	465.2	464.5	463.7	463.0	462.3
135°	501.3	500.7	500.3	500.0	499.8	499.5	499.2
137.5°	535.0	534.4	533.9	533.4	532.8	532.3	531.8
140°	557.6	557.5	557.0	556.0	555.0	554.1	553.1
142.5°	578.5	578.3	577.9	577.1	576.4	575.6	574.9
145°	609.0	608.9	608.6	608.0	607.4	606.9	606.3
147.5°	638.1	638.1	637.6	636.8	636.0	635.2	634.4
150°	655.9	655.9	655.5	654.7	653.9	653.0	652.2
152.5°	672.4	672.6	672.4	671.7	671.0	670.3	669.6
155°	696.6	697.1	696.9	695.9	695.0	694.0	693.1
157.5°	717.1	717.6	717.6	716.8	716.1	715.3	714.5
160°	729.8	730.5	730.6	730.0	729.4	728.9	728.3
162.5°	741.7	742.4	742.3	741.4	740.5	739.7	738.8
165°	756.9	757.7	757.6	756.7	755.7	754.7	753.8
167.5°	769.1	769.9	769.9	769.1	768.3	767.4	766.5
170°	775.9	776.8	776.8	775.9	774.9	774.0	772.9
172.5°	781.0	781.8	781.8	780.8	779.8	778.9	777.9
175°	786.6	787.4	787.3	786.4	785.4	784.4	783.5
177.5°	788.9	789.6	789.6	788.8	788.0	787.3	786.5
180°	788.5	788.5	788.5	788.5	788.5	788.5	788.5

(END OF REPORT)