

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: P332999-930

Luminaire Tested: **SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332999-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

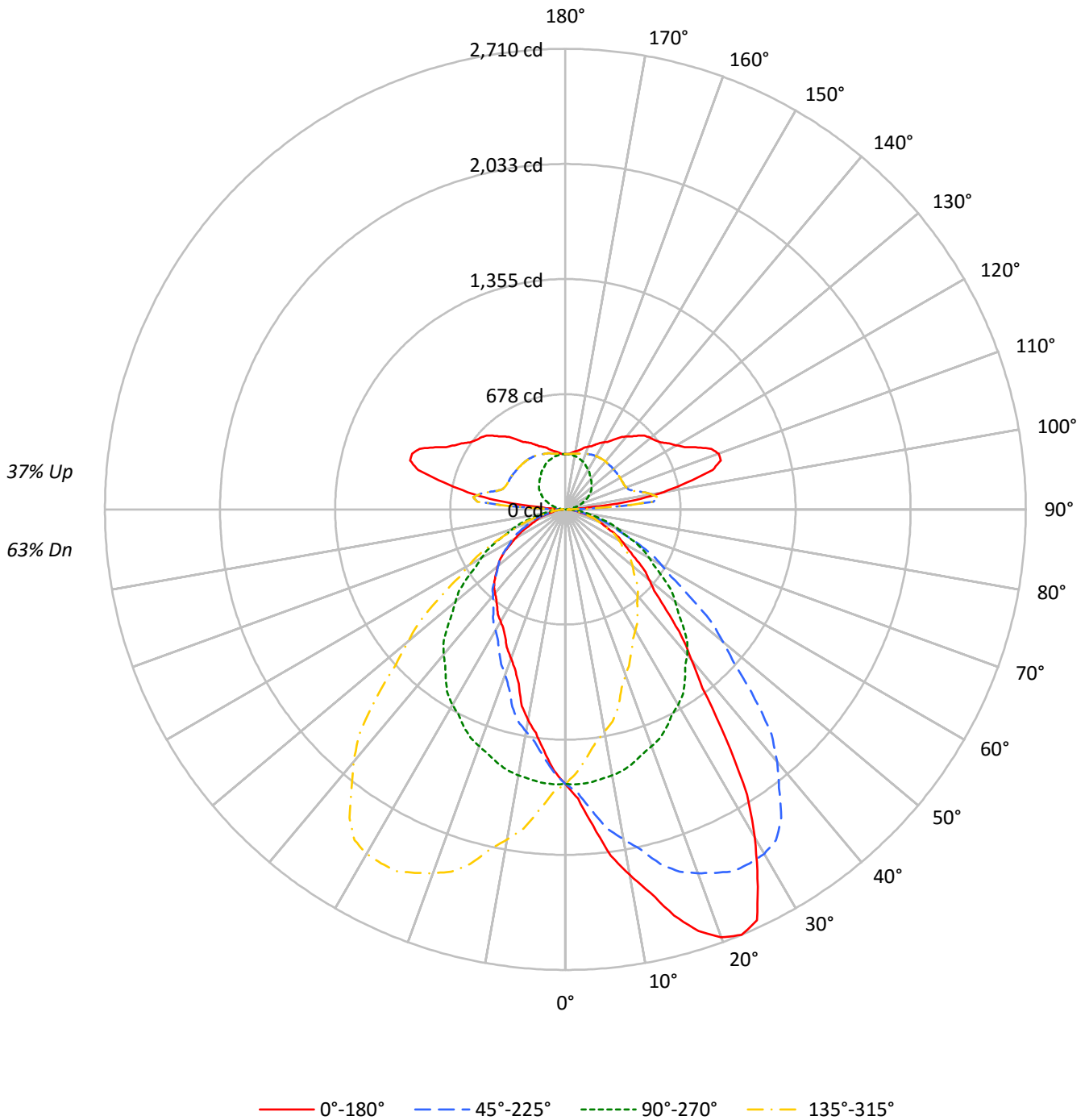
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332999-930

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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	0	
RCR																						
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63				
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	61	60	59	55				
2	93	86	80	75	87	81	75	71	71	67	64	63	60	57	55	53	51	47				
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40				
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	41	45	41	37	40	36	33	31				
6	66	54	46	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27				
7	62	49	41	36	58	47	40	34	42	36	32	38	33	29	33	30	27	24				
8	57	45	37	32	54	43	36	31	38	33	28	35	30	26	31	27	24	22				
9	53	41	34	29	50	39	32	28	35	30	26	32	27	24	28	25	22	20				
10	50	38	31	26	47	36	29	25	33	27	23	29	25	21	26	23	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13043	13043	13043	13043
5°	15129	13083	11563	13083
10°	17898	13025	10320	13025
15°	20674	12904	8868	12904
20°	23018	12740	8019	12740
25°	23762	12577	7445	12577
30°	20801	12379	7100	12379
35°	16192	12086	6890	12086
40°	12142	11751	6777	11751
45°	9587	11215	6719	11215
50°	8093	10595	6523	10595
55°	7054	9913	6175	9913
60°	6347	9206	5465	9206
65°	5595	8443	4701	8443
70°	5039	7652	4242	7652
75°	4223	6781	3615	6781
80°	3570	5779	3389	5779
85°	3010	4520	3010	4520



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.4
10°-20°	472.2	7.3
20°-30°	738.6	11.5
30°-40°	821.0	12.7
40°-50°	728.5	11.3
50°-60°	567.6	8.8
60°-70°	371.6	5.8
70°-80°	182.8	2.8
80°-90°	46.9	0.7
90°-100°	234.4	3.6
100°-110°	487.8	7.6
110°-120°	436.9	6.8
120°-130°	367.5	5.7
130°-140°	306.4	4.8
140°-150°	234.1	3.6
150°-160°	164.6	2.6
160°-170°	96.8	1.5
170°-180°	31.5	0.5
0°-30°	1367.3	21.2
0°-40°	2188.4	34.0
0°-60°	3484.5	54.1
0°-90°	4085.7	63.4
90°-120°	1159.1	18.0
90°-150°	2067.1	32.1
90°-180°	2360.0	36.6
0°-180°	6445.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1616	1616	1616	1616	1616	
5°	1867	1614	1427	1614	1867	189
15°	2474	1544	1061	1544	2474	703
25°	2668	1412	836	1412	2668	1183
35°	1643	1226	699	1226	1643	1030
45°	840	982	588	982	840	665
55°	501	704	439	704	501	456
65°	293	442	246	442	293	295
75°	135	217	116	217	135	149
85°	32	49	32	49	32	37
90°	13	1	13	1	13	12
95°	156	21	156	21	156	241
105°	897	75	897	75	897	887
115°	861	131	861	131	861	855
125°	687	183	687	183	687	624
135°	615	217	615	217	615	474
145°	502	250	502	250	502	318
155°	420	285	420	285	420	196
165°	367	310	367	310	367	105
175°	330	324	330	324	330	32
180°	324	324	324	324	324	



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1704.1	1708.9	1704.1	1703.6	1698.4	1696.9	1694.8	1688.0	1675.5	1668.3	1669.8
5°	1866.9	1883.2	1874.0	1872.7	1858.5	1844.1	1835.0	1814.2	1792.0	1777.1	1764.7
7.5°	2055.1	2064.5	2058.8	2049.7	2026.5	2013.4	1992.3	1964.8	1925.1	1894.8	1867.0
10°	2183.3	2191.0	2188.5	2171.5	2154.6	2120.1	2100.6	2062.2	2012.1	1972.4	1935.3
12.5°	2309.3	2317.7	2294.7	2295.5	2263.4	2236.3	2205.3	2157.0	2099.1	2047.9	2001.4
15°	2473.6	2463.2	2463.2	2450.1	2414.3	2376.6	2344.7	2293.9	2221.0	2159.8	2095.4
17.5°	2602.2	2605.9	2600.5	2569.8	2541.7	2502.6	2444.2	2384.9	2317.2	2235.1	2169.2
20°	2679.3	2679.3	2673.4	2652.6	2616.1	2574.5	2511.4	2446.9	2360.9	2278.3	2204.1
22.5°	2710.5	2712.6	2705.7	2688.5	2655.8	2615.1	2561.3	2495.9	2407.3	2314.2	2222.3
25°	2667.6	2680.0	2681.2	2676.7	2666.9	2642.1	2596.0	2528.9	2449.5	2348.6	2249.7
27.5°	2449.1	2464.7	2478.4	2500.9	2530.9	2546.5	2548.5	2514.5	2445.2	2348.1	2248.5
30°	2231.4	2244.4	2286.8	2342.1	2385.1	2424.1	2458.0	2467.1	2428.0	2340.8	2236.0
32.5°	1989.8	2007.5	2049.8	2109.3	2180.9	2247.0	2323.1	2361.8	2360.9	2308.5	2211.5
35°	1643.0	1656.0	1695.1	1757.5	1843.5	1941.8	2062.2	2155.9	2219.7	2215.2	2155.9
37.5°	1325.0	1339.8	1379.2	1431.0	1514.3	1636.1	1752.6	1881.7	1999.7	2066.0	2046.2
40°	1152.2	1152.8	1191.2	1244.6	1322.7	1428.8	1555.8	1698.9	1830.4	1937.9	1958.7
42.5°	1015.7	1015.9	1041.2	1098.8	1155.0	1254.9	1376.1	1518.3	1672.2	1796.2	1851.4
45°	839.7	845.5	866.4	900.9	945.2	1029.8	1126.7	1258.9	1431.4	1578.5	1670.3
47.5°	711.1	719.7	733.0	761.1	796.4	852.7	932.9	1051.7	1192.0	1353.8	1484.4
50°	644.4	645.7	662.7	678.2	708.9	753.8	824.1	923.0	1051.9	1207.5	1352.7
52.5°	587.2	586.9	597.0	616.9	641.7	676.7	733.4	823.5	937.8	1077.3	1227.2
55°	501.2	504.5	512.3	527.9	546.8	571.5	616.4	684.1	774.0	893.1	1029.2
57.5°	435.9	437.6	443.7	450.3	467.7	485.6	519.3	566.3	642.1	739.6	866.4
60°	393.1	393.8	395.7	405.5	419.2	436.1	458.9	498.6	562.4	651.6	751.9
62.5°	351.5	352.7	355.7	362.8	373.4	385.1	409.0	440.8	493.7	569.8	660.1
65°	292.9	293.6	298.2	300.8	309.2	319.6	337.2	358.7	395.1	458.9	527.3
67.5°	244.8	244.8	245.0	248.5	254.4	261.3	271.8	289.0	316.5	355.7	416.0
70°	213.5	213.5	214.8	216.8	220.0	225.8	231.7	244.8	265.0	296.9	343.1
72.5°	184.3	184.8	186.1	186.5	188.3	193.1	197.4	205.7	220.7	244.8	282.1
75°	135.4	137.4	140.6	143.2	146.4	145.8	150.3	155.6	160.1	174.5	195.9
77.5°	100.8	99.7	100.1	102.3	102.7	103.4	106.6	110.6	114.1	120.8	128.5
80°	76.8	76.8	78.8	79.4	78.8	79.4	82.7	84.6	85.9	88.5	95.7
82.5°	58.0	59.1	58.5	59.1	59.5	60.2	62.9	63.3	64.6	65.6	68.6
85°	32.5	33.2	33.8	32.5	32.5	32.5	33.8	34.5	35.8	35.1	36.4
87.5°	14.1	13.6	14.3	14.1	14.5	14.0	14.4	15.3	14.1	14.8	14.5
90°	13.4	13.4	14.0	13.4	12.7	12.7	12.1	11.5	10.8	11.5	10.2
92.5°	49.1	49.1	51.3	54.7	62.2	75.0	94.2	125.2	168.4	202.2	177.0
95°	155.6	163.9	175.3	195.1	226.3	288.1	373.6	472.4	534.3	519.6	392.1
97.5°	415.8	429.0	448.2	486.6	532.3	598.8	661.2	697.9	671.2	547.2	367.0
100°	584.6	589.7	608.8	647.7	703.2	750.3	781.5	768.8	675.7	512.6	332.8
102.5°	731.5	735.6	755.7	783.9	817.9	837.6	828.5	765.2	637.5	469.2	309.8
105°	897.0	900.8	909.7	914.8	913.5	887.4	824.3	714.0	568.0	418.2	290.1
107.5°	958.4	956.8	950.4	935.9	904.3	847.5	758.6	641.2	511.9	389.6	286.5
110°	959.4	953.7	942.2	915.4	870.2	800.1	707.6	597.4	483.9	379.9	287.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	929.4	920.1	904.0	871.6	820.2	750.1	662.8	565.2	468.1	375.4	290.6
115°	861.3	856.1	835.8	797.5	747.1	685.9	611.4	533.0	453.2	372.9	296.4
117.5°	792.3	788.3	767.7	735.6	692.6	640.7	582.0	517.1	446.6	372.3	302.7
120°	753.5	746.5	729.9	701.9	665.5	620.3	569.3	510.0	443.0	372.3	307.3
122.5°	722.9	715.9	701.9	677.9	647.2	607.6	561.1	503.9	439.0	371.8	311.9
125°	687.2	683.4	671.3	652.8	627.3	592.2	548.3	493.4	432.2	371.0	318.8
127.5°	666.3	662.5	652.3	635.9	610.3	576.9	533.0	480.7	423.1	369.7	324.2
130°	654.1	650.3	640.1	624.1	597.9	564.2	520.8	470.5	417.6	369.1	328.3
132.5°	640.3	636.5	626.8	608.8	583.2	549.4	507.0	459.7	412.5	368.6	331.9
135°	614.6	610.7	600.5	582.7	557.2	525.3	486.4	445.0	404.8	367.9	337.2
137.5°	582.7	578.0	569.6	552.0	528.2	499.5	466.7	431.6	398.2	367.7	340.4
140°	559.7	554.6	545.7	531.7	509.4	482.6	453.9	424.0	394.6	367.2	343.0
142.5°	535.2	531.7	523.7	510.8	491.0	467.8	443.2	416.8	391.6	367.2	345.0
145°	501.7	498.6	492.1	481.4	465.4	447.5	428.4	406.8	386.3	365.9	346.2
147.5°	472.0	470.8	466.0	456.7	445.0	431.0	415.6	398.4	381.6	363.6	346.8
150°	455.2	454.5	450.7	442.5	432.2	420.8	408.0	393.3	378.1	362.1	346.8
152.5°	439.9	439.2	436.9	430.2	421.5	412.1	400.3	387.8	374.0	359.5	345.8
155°	420.1	420.1	418.2	413.1	406.8	399.1	389.6	379.3	367.9	355.7	344.2
157.5°	402.8	402.8	401.6	397.8	393.0	386.9	378.8	370.2	361.6	351.8	342.6
160°	392.1	392.1	391.4	387.6	383.8	378.7	371.7	364.7	357.0	348.7	341.0
162.5°	381.9	382.4	381.7	377.9	375.1	370.6	365.0	359.1	352.9	345.7	339.6
165°	366.6	367.2	367.9	365.3	362.7	359.5	355.1	351.2	346.2	341.0	336.6
167.5°	354.4	355.0	355.1	353.4	352.1	350.3	346.7	343.7	340.1	336.5	333.5
170°	346.8	346.8	347.4	346.8	345.5	343.6	341.0	339.2	336.0	333.4	331.5
172.5°	339.2	340.1	340.8	340.1	339.4	338.0	336.5	335.1	332.4	330.4	329.5
175°	330.2	331.5	332.8	331.5	331.5	331.5	330.2	329.6	328.3	327.0	327.0
177.5°	325.0	326.0	327.0	326.5	327.0	326.5	326.5	326.0	325.5	325.0	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1664.6	1657.3	1653.7	1645.4	1635.4	1630.2	1625.5	1618.8	1609.9	1600.5	1593.7
5°	1749.1	1733.5	1713.9	1690.5	1669.7	1649.5	1631.9	1614.4	1594.2	1573.4	1552.5
7.5°	1835.8	1805.1	1771.9	1733.5	1696.1	1662.2	1630.8	1600.9	1567.1	1536.8	1509.1
10°	1896.2	1854.6	1808.3	1759.5	1710.7	1668.3	1626.7	1588.9	1547.3	1510.2	1479.0
12.5°	1945.1	1896.2	1840.6	1779.8	1721.1	1669.9	1622.0	1572.8	1525.4	1485.2	1443.6
15°	2026.3	1959.3	1884.5	1811.6	1735.4	1665.7	1601.3	1544.0	1490.0	1433.4	1393.7
17.5°	2082.3	2002.7	1911.7	1824.1	1734.1	1652.0	1577.6	1509.4	1447.1	1389.3	1342.0
20°	2115.5	2027.6	1926.8	1827.2	1726.3	1638.4	1558.4	1482.9	1418.4	1355.9	1307.1
22.5°	2134.3	2037.0	1926.8	1822.5	1718.0	1622.8	1534.9	1456.3	1386.1	1323.6	1269.6
25°	2140.3	2036.1	1923.5	1803.8	1689.2	1588.3	1497.1	1411.9	1333.7	1271.3	1214.0
27.5°	2132.0	2009.3	1894.0	1771.1	1652.9	1546.5	1450.8	1361.2	1283.0	1215.9	1157.2
30°	2119.5	1987.9	1864.3	1736.8	1616.9	1514.7	1413.8	1328.0	1246.6	1176.9	1117.7
32.5°	2092.4	1961.9	1828.9	1698.2	1576.9	1471.5	1375.8	1289.4	1209.6	1138.4	1075.5
35°	2038.7	1906.6	1762.1	1628.0	1508.9	1399.5	1309.7	1226.4	1150.2	1074.1	1007.6
37.5°	1968.1	1833.0	1689.3	1542.5	1423.2	1320.0	1237.5	1159.4	1085.0	1015.5	941.9
40°	1901.4	1778.4	1629.9	1484.2	1361.8	1262.2	1186.0	1115.1	1040.2	971.2	897.6
42.5°	1820.7	1715.9	1565.9	1419.6	1298.8	1202.8	1131.9	1062.5	994.4	927.5	850.8
45°	1686.0	1606.5	1465.9	1325.4	1203.6	1108.6	1043.5	982.3	922.3	858.6	786.4
47.5°	1531.5	1477.7	1356.4	1212.4	1099.8	1014.3	951.5	901.4	850.8	787.0	723.6
50°	1424.2	1389.8	1272.6	1141.1	1033.7	955.0	890.5	843.6	801.3	740.1	683.5
52.5°	1309.7	1291.4	1192.4	1066.7	962.9	885.7	830.6	788.4	745.6	694.8	641.8
55°	1135.2	1145.0	1061.0	952.4	854.7	789.6	739.5	704.3	667.9	624.9	583.9
57.5°	956.9	992.5	936.2	840.7	749.3	689.1	651.3	621.7	591.2	555.5	520.5
60°	850.1	880.0	848.2	764.2	684.1	628.2	593.0	570.2	539.6	507.1	480.4
62.5°	746.0	778.0	759.1	691.3	616.9	568.8	537.8	516.6	493.8	465.5	437.7
65°	615.1	635.9	626.9	580.0	527.3	486.2	457.6	442.0	421.2	400.3	375.6
67.5°	471.2	511.4	506.1	481.2	435.6	403.6	384.8	371.0	352.0	336.6	319.8
70°	387.3	424.4	423.8	403.6	378.9	348.9	335.9	324.2	307.2	292.3	278.6
72.5°	317.0	351.0	356.0	340.6	323.7	301.0	288.5	280.5	264.0	253.7	242.6
75°	222.0	246.7	253.2	253.2	245.4	233.7	222.7	217.4	205.7	196.6	190.0
77.5°	145.5	161.2	171.3	173.7	174.9	171.0	161.8	158.2	149.2	145.9	139.7
80°	102.8	113.2	125.0	128.9	132.2	130.9	126.9	124.3	115.9	112.6	110.0
82.5°	71.1	76.8	86.4	95.1	94.1	97.5	94.1	92.0	85.7	84.5	81.9
85°	37.1	37.7	39.1	44.9	48.2	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	14.3	13.8	14.0	14.0	14.4	16.4	17.5	17.9	16.6	15.3	13.9
90°	8.9	8.9	5.1	5.1	4.5	3.8	1.9	0.7	1.9	3.8	4.5
92.5°	128.7	79.3	46.9	33.7	24.4	16.6	10.6	7.3	10.6	16.6	24.4
95°	239.7	135.2	79.7	52.9	37.6	29.4	22.9	21.0	22.9	29.4	37.6
97.5°	215.5	129.1	86.4	64.0	50.9	43.2	37.7	37.7	37.7	43.2	50.9
100°	202.8	130.7	93.1	72.6	60.6	52.9	48.4	48.4	48.4	52.9	60.6
102.5°	199.2	135.7	101.7	82.3	70.8	63.6	59.7	58.6	59.7	63.6	70.8
105°	200.8	147.9	117.3	98.8	87.3	79.7	76.5	74.6	76.5	79.7	87.3
107.5°	210.3	162.1	134.0	115.8	104.8	96.6	93.4	92.2	93.4	96.6	104.8
110°	217.4	172.8	144.7	127.5	116.0	108.4	105.2	104.0	105.2	108.4	116.0



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	225.0	183.0	156.0	138.7	127.3	120.1	116.4	115.1	116.4	120.1	127.3
115°	237.2	198.9	173.4	156.2	144.1	137.7	133.2	131.3	133.2	137.7	144.1
117.5°	249.5	214.3	190.1	172.3	160.9	153.9	149.9	148.1	149.9	153.9	160.9
120°	258.2	225.0	200.8	183.0	172.1	165.1	160.6	159.4	160.6	165.1	172.1
122.5°	266.4	235.2	211.0	193.6	181.8	175.3	170.9	169.6	170.9	175.3	181.8
125°	278.6	249.2	226.3	208.5	196.3	189.3	185.5	183.0	185.5	189.3	196.3
127.5°	289.2	262.3	240.1	222.1	209.5	201.5	196.9	194.9	196.9	201.5	209.5
130°	295.8	270.9	249.2	230.8	218.7	209.1	204.0	201.5	204.0	209.1	218.7
132.5°	302.4	278.1	256.4	239.0	225.8	216.8	210.1	208.1	210.1	216.8	225.8
135°	311.1	288.1	267.1	250.5	237.2	226.3	220.0	217.4	220.0	226.3	237.2
137.5°	317.2	295.8	276.1	260.3	246.5	236.1	229.1	226.7	229.1	236.1	246.5
140°	321.3	300.9	281.8	266.4	253.1	242.2	235.2	233.3	235.2	242.2	253.1
142.5°	324.3	305.5	286.9	272.1	259.2	248.9	242.4	240.4	242.4	248.9	259.2
145°	327.7	310.5	293.9	279.9	267.7	258.9	252.4	250.5	252.4	258.9	267.7
147.5°	330.6	315.6	300.0	287.4	277.3	268.2	262.5	261.9	262.5	268.2	277.3
150°	332.2	318.1	304.1	292.0	282.4	274.8	269.7	269.0	269.7	274.8	282.4
152.5°	333.1	320.2	307.7	296.6	288.0	280.9	275.8	275.7	275.8	280.9	288.0
155°	334.0	323.2	312.3	302.8	295.8	289.4	285.6	284.9	285.6	289.4	295.8
157.5°	334.0	325.4	316.2	308.7	302.6	297.6	294.0	294.0	294.0	297.6	302.6
160°	334.0	326.4	318.8	311.8	306.6	302.1	299.6	299.6	299.6	302.1	306.6
162.5°	334.0	327.4	320.2	314.8	310.2	306.2	304.2	304.8	304.2	306.2	310.2
165°	332.8	327.7	322.0	318.1	315.0	311.8	310.5	310.5	310.5	311.8	315.0
167.5°	331.3	327.6	323.3	320.4	318.6	316.2	315.6	316.2	315.6	316.2	318.6
170°	330.2	327.0	323.8	322.0	320.7	318.8	318.1	318.8	318.1	318.8	320.7
172.5°	329.2	326.5	324.3	322.9	322.2	320.8	320.7	321.3	320.7	320.8	322.2
175°	327.7	325.8	324.5	324.5	323.8	323.2	323.2	323.8	323.2	323.2	323.8
177.5°	326.0	325.0	324.5	324.5	324.5	324.0	324.5	325.0	324.5	324.0	324.5
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1586.5	1581.3	1574.5	1566.7	1557.3	1549.0	1545.3	1548.5	1550.0	1545.9	1545.3
5°	1538.1	1521.9	1508.9	1489.4	1473.7	1460.7	1451.6	1447.7	1449.0	1438.6	1436.0
7.5°	1483.9	1464.6	1443.2	1420.1	1398.5	1379.3	1369.3	1363.8	1352.8	1348.1	1340.2
10°	1449.0	1422.9	1402.2	1374.8	1350.1	1327.3	1316.2	1307.1	1296.0	1290.8	1279.8
12.5°	1413.1	1382.8	1359.9	1331.5	1306.3	1278.9	1268.3	1251.4	1234.0	1223.1	1208.9
15°	1362.4	1326.0	1298.0	1264.1	1234.2	1203.0	1174.9	1143.7	1132.0	1107.3	1092.9
17.5°	1303.2	1266.2	1231.6	1186.2	1140.0	1101.1	1071.3	1041.4	1023.4	1007.6	1000.4
20°	1264.1	1230.3	1182.1	1129.4	1078.0	1035.0	1010.9	991.4	971.8	960.8	953.0
22.5°	1227.2	1183.9	1128.0	1071.1	1019.6	986.0	965.6	945.6	929.7	919.2	908.7
25°	1165.2	1108.6	1049.3	984.2	949.1	919.8	897.6	881.3	871.6	857.9	852.7
27.5°	1101.6	1032.9	967.6	923.8	887.2	860.4	841.1	828.9	816.5	807.8	801.0
30°	1052.6	982.9	924.3	882.6	845.5	823.5	807.8	793.5	783.7	776.6	771.4
32.5°	1004.1	934.5	885.3	840.5	811.2	789.6	772.9	762.2	754.6	745.3	742.2
35°	934.1	872.3	829.3	789.0	759.0	739.5	726.4	715.4	708.9	706.3	704.3
37.5°	866.8	816.1	770.0	736.9	710.2	694.8	679.5	674.0	669.5	664.9	667.0
40°	824.1	776.6	735.6	700.4	678.9	662.0	652.9	646.4	642.5	642.5	642.5
42.5°	787.1	740.6	700.7	669.2	647.7	633.4	623.2	617.8	616.4	616.0	619.1
45°	729.7	686.7	646.4	620.4	602.1	587.8	582.0	577.4	577.4	580.0	580.7
47.5°	672.8	632.6	600.1	571.0	554.3	545.4	540.3	537.9	538.2	540.8	543.8
50°	637.9	598.2	566.3	540.3	524.6	516.2	511.6	510.4	511.6	511.6	516.2
52.5°	599.9	564.4	533.0	511.1	493.4	485.5	483.0	481.2	481.9	484.0	486.0
55°	544.2	512.3	482.3	461.5	448.5	443.3	437.4	438.1	436.8	438.1	438.1
57.5°	488.4	459.7	431.9	415.3	403.8	396.3	389.9	391.8	389.8	389.6	388.5
60°	452.4	421.2	399.0	384.1	371.0	364.5	358.7	360.0	358.0	356.7	354.1
62.5°	413.4	387.3	366.2	351.8	341.4	333.8	327.9	326.6	322.1	317.6	311.9
65°	356.7	335.3	316.3	302.7	292.9	287.1	282.5	278.6	268.8	258.4	253.2
67.5°	301.7	286.2	268.6	257.0	249.1	241.4	232.7	226.0	216.9	211.2	207.9
70°	266.2	251.3	236.3	225.2	216.8	209.6	199.8	195.3	188.7	186.1	183.0
72.5°	232.4	218.4	204.6	194.5	185.5	179.9	172.3	167.7	164.9	163.8	160.5
75°	181.0	169.9	159.5	150.3	143.2	139.3	136.1	132.8	131.5	125.6	122.4
77.5°	132.0	124.7	118.2	111.7	106.6	104.0	97.8	94.0	91.8	89.0	88.4
80°	102.8	97.7	91.2	87.2	80.1	77.5	74.8	74.2	73.5	72.9	72.2
82.5°	77.4	72.2	65.6	63.3	61.3	59.8	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.4	36.4	35.8	35.1	34.5	33.8	33.8	33.2	33.8	33.2
87.5°	14.0	13.5	14.3	13.2	14.0	14.3	13.6	13.8	14.4	13.5	13.5
90°	5.1	5.1	8.9	8.9	10.2	11.5	10.8	11.5	12.1	12.7	12.7
92.5°	33.7	46.9	79.3	128.7	177.0	202.2	168.4	125.2	94.2	75.0	62.2
95°	52.9	79.7	135.2	239.7	392.1	519.6	534.3	472.4	373.6	288.1	226.3
97.5°	64.0	86.4	129.1	215.5	367.0	547.2	671.2	697.9	661.2	598.8	532.3
100°	72.6	93.1	130.7	202.8	332.8	512.6	675.7	768.8	781.5	750.3	703.2
102.5°	82.3	101.7	135.7	199.2	309.8	469.2	637.5	765.2	828.5	837.6	817.9
105°	98.8	117.3	147.9	200.8	290.1	418.2	568.0	714.0	824.3	887.4	913.5
107.5°	115.8	134.0	162.1	210.3	286.5	389.6	511.9	641.2	758.6	847.5	904.3
110°	127.5	144.7	172.8	217.4	287.5	379.9	483.9	597.4	707.6	800.1	870.2



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	138.7	156.0	183.0	225.0	290.6	375.4	468.1	565.2	662.8	750.1	820.2
115°	156.2	173.4	198.9	237.2	296.4	372.9	453.2	533.0	611.4	685.9	747.1
117.5°	172.3	190.1	214.3	249.5	302.7	372.3	446.6	517.1	582.0	640.7	692.6
120°	183.0	200.8	225.0	258.2	307.3	372.3	443.0	510.0	569.3	620.3	665.5
122.5°	193.6	211.0	235.2	266.4	311.9	371.8	439.0	503.9	561.1	607.6	647.2
125°	208.5	226.3	249.2	278.6	318.8	371.0	432.2	493.4	548.3	592.2	627.3
127.5°	222.1	240.1	262.3	289.2	324.2	369.7	423.1	480.7	533.0	576.9	610.3
130°	230.8	249.2	270.9	295.8	328.3	369.1	417.6	470.5	520.8	564.2	597.9
132.5°	239.0	256.4	278.1	302.4	331.9	368.6	412.5	459.7	507.0	549.4	583.2
135°	250.5	267.1	288.1	311.1	337.2	367.9	404.8	445.0	486.4	525.3	557.2
137.5°	260.3	276.1	295.8	317.2	340.4	367.7	398.2	431.6	466.7	499.5	528.2
140°	266.4	281.8	300.9	321.3	343.0	367.2	394.6	424.0	453.9	482.6	509.4
142.5°	272.1	286.9	305.5	324.3	345.0	367.2	391.6	416.8	443.2	467.8	491.0
145°	279.9	293.9	310.5	327.7	346.2	365.9	386.3	406.8	428.4	447.5	465.4
147.5°	287.4	300.0	315.6	330.6	346.8	363.6	381.6	398.4	415.6	431.0	445.0
150°	292.0	304.1	318.1	332.2	346.8	362.1	378.1	393.3	408.0	420.8	432.2
152.5°	296.6	307.7	320.2	333.1	345.8	359.5	374.0	387.8	400.3	412.1	421.5
155°	302.8	312.3	323.2	334.0	344.2	355.7	367.9	379.3	389.6	399.1	406.8
157.5°	308.7	316.2	325.4	334.0	342.6	351.8	361.6	370.2	378.8	386.9	393.0
160°	311.8	318.8	326.4	334.0	341.0	348.7	357.0	364.7	371.7	378.7	383.8
162.5°	314.8	320.2	327.4	334.0	339.6	345.7	352.9	359.1	365.0	370.6	375.1
165°	318.1	322.0	327.7	332.8	336.6	341.0	346.2	351.2	355.1	359.5	362.7
167.5°	320.4	323.3	327.6	331.3	333.5	336.5	340.1	343.7	346.7	350.3	352.1
170°	322.0	323.8	327.0	330.2	331.5	333.4	336.0	339.2	341.0	343.6	345.5
172.5°	322.9	324.3	326.5	329.2	329.5	330.4	332.4	335.1	336.5	338.0	339.4
175°	324.5	324.5	325.8	327.7	327.0	327.0	328.3	329.6	330.2	331.5	331.5
177.5°	324.5	324.5	325.0	326.0	325.0	325.0	325.5	326.0	326.5	326.5	327.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1542.2	1543.3	1539.6	1538.6	1539.6	1543.3	1542.2	1545.3	1545.9	1550.0	1548.5
5°	1430.8	1429.5	1426.2	1426.9	1426.2	1429.5	1430.8	1436.0	1438.6	1449.0	1447.7
7.5°	1335.5	1330.4	1331.8	1326.7	1331.8	1330.4	1335.5	1340.2	1348.1	1352.8	1363.8
10°	1277.2	1270.0	1264.1	1258.9	1264.1	1270.0	1277.2	1279.8	1290.8	1296.0	1307.1
12.5°	1197.5	1191.3	1183.4	1185.0	1183.4	1191.3	1197.5	1208.9	1223.1	1234.0	1251.4
15°	1084.4	1074.7	1059.1	1061.0	1059.1	1074.7	1084.4	1092.9	1107.3	1132.0	1143.7
17.5°	988.8	988.9	981.8	983.4	981.8	988.9	988.8	1000.4	1007.6	1023.4	1041.4
20°	939.3	934.7	935.4	933.4	935.4	934.7	939.3	953.0	960.8	971.8	991.4
22.5°	904.9	899.4	894.8	890.7	894.8	899.4	904.9	908.7	919.2	929.7	945.6
25°	846.9	842.9	837.1	835.8	837.1	842.9	846.9	852.7	857.9	871.6	881.3
27.5°	795.8	795.1	792.7	789.7	792.7	795.1	795.8	801.0	807.8	816.5	828.9
30°	766.1	764.8	763.5	761.6	763.5	764.8	766.1	771.4	776.6	783.7	793.5
32.5°	739.6	738.8	737.5	737.7	737.5	738.8	739.6	742.2	745.3	754.6	762.2
35°	701.7	701.1	699.8	699.1	699.8	701.1	701.7	704.3	706.3	708.9	715.4
37.5°	666.3	668.0	667.2	667.1	667.2	668.0	666.3	667.0	664.9	669.5	674.0
40°	641.8	642.5	643.8	643.1	643.8	642.5	641.8	642.5	642.5	642.5	646.4
42.5°	621.5	621.7	623.5	621.3	623.5	621.7	621.5	619.1	616.0	616.4	617.8
45°	585.2	589.1	588.5	588.5	588.5	589.1	585.2	580.7	580.0	577.4	577.4
47.5°	545.5	548.9	549.8	549.7	549.8	548.9	545.5	543.8	540.8	538.2	537.9
50°	519.4	518.1	520.1	519.4	520.1	518.1	519.4	516.2	511.6	511.6	510.4
52.5°	487.7	488.0	487.8	487.1	487.8	488.0	487.7	486.0	484.0	481.9	481.2
55°	438.7	439.4	438.1	438.7	438.1	439.4	438.7	438.1	438.1	436.8	438.1
57.5°	385.6	382.5	383.8	382.2	383.8	382.5	385.6	388.5	389.6	389.8	391.8
60°	347.6	342.4	341.1	338.5	341.1	342.4	347.6	354.1	356.7	358.0	360.0
62.5°	304.9	301.3	296.9	298.9	296.9	301.3	304.9	311.9	317.6	322.1	326.6
65°	248.0	245.4	243.4	246.1	243.4	245.4	248.0	253.2	258.4	268.8	278.6
67.5°	205.3	203.9	203.9	202.6	203.9	203.9	205.3	207.9	211.2	216.9	226.0
70°	183.0	181.0	181.0	179.7	181.0	181.0	183.0	183.0	186.1	188.7	195.3
72.5°	160.0	158.1	158.6	157.8	158.6	158.1	160.0	160.5	163.8	164.9	167.7
75°	118.5	115.2	115.2	115.9	115.2	115.2	118.5	122.4	125.6	131.5	132.8
77.5°	88.4	87.7	88.6	87.5	88.6	87.7	88.4	88.4	89.0	91.8	94.0
80°	72.2	71.6	70.9	72.9	70.9	71.6	72.2	72.2	72.9	73.5	74.2
82.5°	56.1	56.0	55.8	58.3	55.8	56.0	56.1	57.2	57.3	56.9	57.6
85°	33.8	32.5	33.8	32.5	33.8	32.5	33.8	33.2	33.8	33.2	33.8
87.5°	14.7	14.3	13.6	14.1	13.6	14.3	14.7	13.5	13.5	14.4	13.8
90°	13.4	14.0	13.4	13.4	13.4	14.0	13.4	12.7	12.7	12.1	11.5
92.5°	54.7	51.3	49.1	49.1	49.1	51.3	54.7	62.2	75.0	94.2	125.2
95°	195.1	175.3	163.9	155.6	163.9	175.3	195.1	226.3	288.1	373.6	472.4
97.5°	486.6	448.2	429.0	415.8	429.0	448.2	486.6	532.3	598.8	661.2	697.9
100°	647.7	608.8	589.7	584.6	589.7	608.8	647.7	703.2	750.3	781.5	768.8
102.5°	783.9	755.7	735.6	731.5	735.6	755.7	783.9	817.9	837.6	828.5	765.2
105°	914.8	909.7	900.8	897.0	900.8	909.7	914.8	913.5	887.4	824.3	714.0
107.5°	935.9	950.4	956.8	958.4	956.8	950.4	935.9	904.3	847.5	758.6	641.2
110°	915.4	942.2	953.7	959.4	953.7	942.2	915.4	870.2	800.1	707.6	597.4



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	871.6	904.0	920.1	929.4	920.1	904.0	871.6	820.2	750.1	662.8	565.2
115°	797.5	835.8	856.1	861.3	856.1	835.8	797.5	747.1	685.9	611.4	533.0
117.5°	735.6	767.7	788.3	792.3	788.3	767.7	735.6	692.6	640.7	582.0	517.1
120°	701.9	729.9	746.5	753.5	746.5	729.9	701.9	665.5	620.3	569.3	510.0
122.5°	677.9	701.9	715.9	722.9	715.9	701.9	677.9	647.2	607.6	561.1	503.9
125°	652.8	671.3	683.4	687.2	683.4	671.3	652.8	627.3	592.2	548.3	493.4
127.5°	635.9	652.3	662.5	666.3	662.5	652.3	635.9	610.3	576.9	533.0	480.7
130°	624.1	640.1	650.3	654.1	650.3	640.1	624.1	597.9	564.2	520.8	470.5
132.5°	608.8	626.8	636.5	640.3	636.5	626.8	608.8	583.2	549.4	507.0	459.7
135°	582.7	600.5	610.7	614.6	610.7	600.5	582.7	557.2	525.3	486.4	445.0
137.5°	552.0	569.6	578.0	582.7	578.0	569.6	552.0	528.2	499.5	466.7	431.6
140°	531.7	545.7	554.6	559.7	554.6	545.7	531.7	509.4	482.6	453.9	424.0
142.5°	510.8	523.7	531.7	535.2	531.7	523.7	510.8	491.0	467.8	443.2	416.8
145°	481.4	492.1	498.6	501.7	498.6	492.1	481.4	465.4	447.5	428.4	406.8
147.5°	456.7	466.0	470.8	472.0	470.8	466.0	456.7	445.0	431.0	415.6	398.4
150°	442.5	450.7	454.5	455.2	454.5	450.7	442.5	432.2	420.8	408.0	393.3
152.5°	430.2	436.9	439.2	439.9	439.2	436.9	430.2	421.5	412.1	400.3	387.8
155°	413.1	418.2	420.1	420.1	420.1	418.2	413.1	406.8	399.1	389.6	379.3
157.5°	397.8	401.6	402.8	402.8	402.8	401.6	397.8	393.0	386.9	378.8	370.2
160°	387.6	391.4	392.1	392.1	392.1	391.4	387.6	383.8	378.7	371.7	364.7
162.5°	377.9	381.7	382.4	381.9	382.4	381.7	377.9	375.1	370.6	365.0	359.1
165°	365.3	367.9	367.2	366.6	367.2	367.9	365.3	362.7	359.5	355.1	351.2
167.5°	353.4	355.1	355.0	354.4	355.0	355.1	353.4	352.1	350.3	346.7	343.7
170°	346.8	347.4	346.8	346.8	346.8	347.4	346.8	345.5	343.6	341.0	339.2
172.5°	340.1	340.8	340.1	339.2	340.1	340.8	340.1	339.4	338.0	336.5	335.1
175°	331.5	332.8	331.5	330.2	331.5	332.8	331.5	331.5	331.5	330.2	329.6
177.5°	326.5	327.0	326.0	325.0	326.0	327.0	326.5	327.0	326.5	326.5	326.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1545.3	1549.0	1557.3	1566.7	1574.5	1581.3	1586.5	1593.7	1600.5	1609.9	1618.8
5°	1451.6	1460.7	1473.7	1489.4	1508.9	1521.9	1538.1	1552.5	1573.4	1594.2	1614.4
7.5°	1369.3	1379.3	1398.5	1420.1	1443.2	1464.6	1483.9	1509.1	1536.8	1567.1	1600.9
10°	1316.2	1327.3	1350.1	1374.8	1402.2	1422.9	1449.0	1479.0	1510.2	1547.3	1588.9
12.5°	1268.3	1278.9	1306.3	1331.5	1359.9	1382.8	1413.1	1443.6	1485.2	1525.4	1572.8
15°	1174.9	1203.0	1234.2	1264.1	1298.0	1326.0	1362.4	1393.7	1433.4	1490.0	1544.0
17.5°	1071.3	1101.1	1140.0	1186.2	1231.6	1266.2	1303.2	1342.0	1389.3	1447.1	1509.4
20°	1010.9	1035.0	1078.0	1129.4	1182.1	1230.3	1264.1	1307.1	1355.9	1418.4	1482.9
22.5°	965.6	986.0	1019.6	1071.1	1128.0	1183.9	1227.2	1269.6	1323.6	1386.1	1456.3
25°	897.6	919.8	949.1	984.2	1049.3	1108.6	1165.2	1214.0	1271.3	1333.7	1411.9
27.5°	841.1	860.4	887.2	923.8	967.6	1032.9	1101.6	1157.2	1215.9	1283.0	1361.2
30°	807.8	823.5	845.5	882.6	924.3	982.9	1052.6	1117.7	1176.9	1246.6	1328.0
32.5°	772.9	789.6	811.2	840.5	885.3	934.5	1004.1	1075.5	1138.4	1209.6	1289.4
35°	726.4	739.5	759.0	789.0	829.3	872.3	934.1	1007.6	1074.1	1150.2	1226.4
37.5°	679.5	694.8	710.2	736.9	770.0	816.1	866.8	941.9	1015.5	1085.0	1159.4
40°	652.9	662.0	678.9	700.4	735.6	776.6	824.1	897.6	971.2	1040.2	1115.1
42.5°	623.2	633.4	647.7	669.2	700.7	740.6	787.1	850.8	927.5	994.4	1062.5
45°	582.0	587.8	602.1	620.4	646.4	686.7	729.7	786.4	858.6	922.3	982.3
47.5°	540.3	545.4	554.3	571.0	600.1	632.6	672.8	723.6	787.0	850.8	901.4
50°	511.6	516.2	524.6	540.3	566.3	598.2	637.9	683.5	740.1	801.3	843.6
52.5°	483.0	485.5	493.4	511.1	533.0	564.4	599.9	641.8	694.8	745.6	788.4
55°	437.4	443.3	448.5	461.5	482.3	512.3	544.2	583.9	624.9	667.9	704.3
57.5°	389.9	396.3	403.8	415.3	431.9	459.7	488.4	520.5	555.5	591.2	621.7
60°	358.7	364.5	371.0	384.1	399.0	421.2	452.4	480.4	507.1	539.6	570.2
62.5°	327.9	333.8	341.4	351.8	366.2	387.3	413.4	437.7	465.5	493.8	516.6
65°	282.5	287.1	292.9	302.7	316.3	335.3	356.7	375.6	400.3	421.2	442.0
67.5°	232.7	241.4	249.1	257.0	268.6	286.2	301.7	319.8	336.6	352.0	371.0
70°	199.8	209.6	216.8	225.2	236.3	251.3	266.2	278.6	292.3	307.2	324.2
72.5°	172.3	179.9	185.5	194.5	204.6	218.4	232.4	242.6	253.7	264.0	280.5
75°	136.1	139.3	143.2	150.3	159.5	169.9	181.0	190.0	196.6	205.7	217.4
77.5°	97.8	104.0	106.6	111.7	118.2	124.7	132.0	139.7	145.9	149.2	158.2
80°	74.8	77.5	80.1	87.2	91.2	97.7	102.8	110.0	112.6	115.9	124.3
82.5°	58.2	59.8	61.3	63.3	65.6	72.2	77.4	81.9	84.5	85.7	92.0
85°	33.8	34.5	35.1	35.8	36.4	36.4	39.1	42.3	46.9	46.9	48.8
87.5°	13.6	14.3	14.0	13.2	14.3	13.5	14.0	13.9	15.3	16.6	17.9
90°	10.8	11.5	10.2	8.9	8.9	5.1	5.1	4.5	3.8	1.9	0.7
92.5°	168.4	202.2	177.0	128.7	79.3	46.9	33.7	24.4	16.6	10.6	7.3
95°	534.3	519.6	392.1	239.7	135.2	79.7	52.9	37.6	29.4	22.9	21.0
97.5°	671.2	547.2	367.0	215.5	129.1	86.4	64.0	50.9	43.2	37.7	37.7
100°	675.7	512.6	332.8	202.8	130.7	93.1	72.6	60.6	52.9	48.4	48.4
102.5°	637.5	469.2	309.8	199.2	135.7	101.7	82.3	70.8	63.6	59.7	58.6
105°	568.0	418.2	290.1	200.8	147.9	117.3	98.8	87.3	79.7	76.5	74.6
107.5°	511.9	389.6	286.5	210.3	162.1	134.0	115.8	104.8	96.6	93.4	92.2
110°	483.9	379.9	287.5	217.4	172.8	144.7	127.5	116.0	108.4	105.2	104.0



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	468.1	375.4	290.6	225.0	183.0	156.0	138.7	127.3	120.1	116.4	115.1
115°	453.2	372.9	296.4	237.2	198.9	173.4	156.2	144.1	137.7	133.2	131.3
117.5°	446.6	372.3	302.7	249.5	214.3	190.1	172.3	160.9	153.9	149.9	148.1
120°	443.0	372.3	307.3	258.2	225.0	200.8	183.0	172.1	165.1	160.6	159.4
122.5°	439.0	371.8	311.9	266.4	235.2	211.0	193.6	181.8	175.3	170.9	169.6
125°	432.2	371.0	318.8	278.6	249.2	226.3	208.5	196.3	189.3	185.5	183.0
127.5°	423.1	369.7	324.2	289.2	262.3	240.1	222.1	209.5	201.5	196.9	194.9
130°	417.6	369.1	328.3	295.8	270.9	249.2	230.8	218.7	209.1	204.0	201.5
132.5°	412.5	368.6	331.9	302.4	278.1	256.4	239.0	225.8	216.8	210.1	208.1
135°	404.8	367.9	337.2	311.1	288.1	267.1	250.5	237.2	226.3	220.0	217.4
137.5°	398.2	367.7	340.4	317.2	295.8	276.1	260.3	246.5	236.1	229.1	226.7
140°	394.6	367.2	343.0	321.3	300.9	281.8	266.4	253.1	242.2	235.2	233.3
142.5°	391.6	367.2	345.0	324.3	305.5	286.9	272.1	259.2	248.9	242.4	240.4
145°	386.3	365.9	346.2	327.7	310.5	293.9	279.9	267.7	258.9	252.4	250.5
147.5°	381.6	363.6	346.8	330.6	315.6	300.0	287.4	277.3	268.2	262.5	261.9
150°	378.1	362.1	346.8	332.2	318.1	304.1	292.0	282.4	274.8	269.7	269.0
152.5°	374.0	359.5	345.8	333.1	320.2	307.7	296.6	288.0	280.9	275.8	275.7
155°	367.9	355.7	344.2	334.0	323.2	312.3	302.8	295.8	289.4	285.6	284.9
157.5°	361.6	351.8	342.6	334.0	325.4	316.2	308.7	302.6	297.6	294.0	294.0
160°	357.0	348.7	341.0	334.0	326.4	318.8	311.8	306.6	302.1	299.6	299.6
162.5°	352.9	345.7	339.6	334.0	327.4	320.2	314.8	310.2	306.2	304.2	304.8
165°	346.2	341.0	336.6	332.8	327.7	322.0	318.1	315.0	311.8	310.5	310.5
167.5°	340.1	336.5	333.5	331.3	327.6	323.3	320.4	318.6	316.2	315.6	316.2
170°	336.0	333.4	331.5	330.2	327.0	323.8	322.0	320.7	318.8	318.1	318.8
172.5°	332.4	330.4	329.5	329.2	326.5	324.3	322.9	322.2	320.8	320.7	321.3
175°	328.3	327.0	327.0	327.7	325.8	324.5	324.5	323.8	323.2	323.2	323.8
177.5°	325.5	325.0	325.0	326.0	325.0	324.5	324.5	324.5	324.0	324.5	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1625.5	1630.2	1635.4	1645.4	1653.7	1657.3	1664.6	1669.8	1668.3	1675.5	1688.0
5°	1631.9	1649.5	1669.7	1690.5	1713.9	1733.5	1749.1	1764.7	1777.1	1792.0	1814.2
7.5°	1630.8	1662.2	1696.1	1733.5	1771.9	1805.1	1835.8	1867.0	1894.8	1925.1	1964.8
10°	1626.7	1668.3	1710.7	1759.5	1808.3	1854.6	1896.2	1935.3	1972.4	2012.1	2062.2
12.5°	1622.0	1669.9	1721.1	1779.8	1840.6	1896.2	1945.1	2001.4	2047.9	2099.1	2157.0
15°	1601.3	1665.7	1735.4	1811.6	1884.5	1959.3	2026.3	2095.4	2159.8	2221.0	2293.9
17.5°	1577.6	1652.0	1734.1	1824.1	1911.7	2002.7	2082.3	2169.2	2235.1	2317.2	2384.9
20°	1558.4	1638.4	1726.3	1827.2	1926.8	2027.6	2115.5	2204.1	2278.3	2360.9	2446.9
22.5°	1534.9	1622.8	1718.0	1822.5	1926.8	2037.0	2134.3	2222.3	2314.2	2407.3	2495.9
25°	1497.1	1588.3	1689.2	1803.8	1923.5	2036.1	2140.3	2249.7	2348.6	2449.5	2528.9
27.5°	1450.8	1546.5	1652.9	1771.1	1894.0	2009.3	2132.0	2248.5	2348.1	2445.2	2514.5
30°	1413.8	1514.7	1616.9	1736.8	1864.3	1987.9	2119.5	2236.0	2340.8	2428.0	2467.1
32.5°	1375.8	1471.5	1576.9	1698.2	1828.9	1961.9	2092.4	2211.5	2308.5	2360.9	2361.8
35°	1309.7	1399.5	1508.9	1628.0	1762.1	1906.6	2038.7	2155.9	2215.2	2219.7	2155.9
37.5°	1237.5	1320.0	1423.2	1542.5	1689.3	1833.0	1968.1	2046.2	2066.0	1999.7	1881.7
40°	1186.0	1262.2	1361.8	1484.2	1629.9	1778.4	1901.4	1958.7	1937.9	1830.4	1698.9
42.5°	1131.9	1202.8	1298.8	1419.6	1565.9	1715.9	1820.7	1851.4	1796.2	1672.2	1518.3
45°	1043.5	1108.6	1203.6	1325.4	1465.9	1606.5	1686.0	1670.3	1578.5	1431.4	1258.9
47.5°	951.5	1014.3	1099.8	1212.4	1356.4	1477.7	1531.5	1484.4	1353.8	1192.0	1051.7
50°	890.5	955.0	1033.7	1141.1	1272.6	1389.8	1424.2	1352.7	1207.5	1051.9	923.0
52.5°	830.6	885.7	962.9	1066.7	1192.4	1291.4	1309.7	1227.2	1077.3	937.8	823.5
55°	739.5	789.6	854.7	952.4	1061.0	1145.0	1135.2	1029.2	893.1	774.0	684.1
57.5°	651.3	689.1	749.3	840.7	936.2	992.5	956.9	866.4	739.6	642.1	566.3
60°	593.0	628.2	684.1	764.2	848.2	880.0	850.1	751.9	651.6	562.4	498.6
62.5°	537.8	568.8	616.9	691.3	759.1	778.0	746.0	660.1	569.8	493.7	440.8
65°	457.6	486.2	527.3	580.0	626.9	635.9	615.1	527.3	458.9	395.1	358.7
67.5°	384.8	403.6	435.6	481.2	506.1	511.4	471.2	416.0	355.7	316.5	289.0
70°	335.9	348.9	378.9	403.6	423.8	424.4	387.3	343.1	296.9	265.0	244.8
72.5°	288.5	301.0	323.7	340.6	356.0	351.0	317.0	282.1	244.8	220.7	205.7
75°	222.7	233.7	245.4	253.2	253.2	246.7	222.0	195.9	174.5	160.1	155.6
77.5°	161.8	171.0	174.9	173.7	171.3	161.2	145.5	128.5	120.8	114.1	110.6
80°	126.9	130.9	132.2	128.9	125.0	113.2	102.8	95.7	88.5	85.9	84.6
82.5°	94.1	97.5	94.1	95.1	86.4	76.8	71.1	68.6	65.6	64.6	63.3
85°	50.1	49.5	48.2	44.9	39.1	37.7	37.1	36.4	35.1	35.8	34.5
87.5°	17.5	16.4	14.4	14.0	14.0	13.8	14.3	14.5	14.8	14.1	15.3
90°	1.9	3.8	4.5	5.1	5.1	8.9	8.9	10.2	11.5	10.8	11.5
92.5°	10.6	16.6	24.4	33.7	46.9	79.3	128.7	177.0	202.2	168.4	125.2
95°	22.9	29.4	37.6	52.9	79.7	135.2	239.7	392.1	519.6	534.3	472.4
97.5°	37.7	43.2	50.9	64.0	86.4	129.1	215.5	367.0	547.2	671.2	697.9
100°	48.4	52.9	60.6	72.6	93.1	130.7	202.8	332.8	512.6	675.7	768.8
102.5°	59.7	63.6	70.8	82.3	101.7	135.7	199.2	309.8	469.2	637.5	765.2
105°	76.5	79.7	87.3	98.8	117.3	147.9	200.8	290.1	418.2	568.0	714.0
107.5°	93.4	96.6	104.8	115.8	134.0	162.1	210.3	286.5	389.6	511.9	641.2
110°	105.2	108.4	116.0	127.5	144.7	172.8	217.4	287.5	379.9	483.9	597.4



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	116.4	120.1	127.3	138.7	156.0	183.0	225.0	290.6	375.4	468.1	565.2
115°	133.2	137.7	144.1	156.2	173.4	198.9	237.2	296.4	372.9	453.2	533.0
117.5°	149.9	153.9	160.9	172.3	190.1	214.3	249.5	302.7	372.3	446.6	517.1
120°	160.6	165.1	172.1	183.0	200.8	225.0	258.2	307.3	372.3	443.0	510.0
122.5°	170.9	175.3	181.8	193.6	211.0	235.2	266.4	311.9	371.8	439.0	503.9
125°	185.5	189.3	196.3	208.5	226.3	249.2	278.6	318.8	371.0	432.2	493.4
127.5°	196.9	201.5	209.5	222.1	240.1	262.3	289.2	324.2	369.7	423.1	480.7
130°	204.0	209.1	218.7	230.8	249.2	270.9	295.8	328.3	369.1	417.6	470.5
132.5°	210.1	216.8	225.8	239.0	256.4	278.1	302.4	331.9	368.6	412.5	459.7
135°	220.0	226.3	237.2	250.5	267.1	288.1	311.1	337.2	367.9	404.8	445.0
137.5°	229.1	236.1	246.5	260.3	276.1	295.8	317.2	340.4	367.7	398.2	431.6
140°	235.2	242.2	253.1	266.4	281.8	300.9	321.3	343.0	367.2	394.6	424.0
142.5°	242.4	248.9	259.2	272.1	286.9	305.5	324.3	345.0	367.2	391.6	416.8
145°	252.4	258.9	267.7	279.9	293.9	310.5	327.7	346.2	365.9	386.3	406.8
147.5°	262.5	268.2	277.3	287.4	300.0	315.6	330.6	346.8	363.6	381.6	398.4
150°	269.7	274.8	282.4	292.0	304.1	318.1	332.2	346.8	362.1	378.1	393.3
152.5°	275.8	280.9	288.0	296.6	307.7	320.2	333.1	345.8	359.5	374.0	387.8
155°	285.6	289.4	295.8	302.8	312.3	323.2	334.0	344.2	355.7	367.9	379.3
157.5°	294.0	297.6	302.6	308.7	316.2	325.4	334.0	342.6	351.8	361.6	370.2
160°	299.6	302.1	306.6	311.8	318.8	326.4	334.0	341.0	348.7	357.0	364.7
162.5°	304.2	306.2	310.2	314.8	320.2	327.4	334.0	339.6	345.7	352.9	359.1
165°	310.5	311.8	315.0	318.1	322.0	327.7	332.8	336.6	341.0	346.2	351.2
167.5°	315.6	316.2	318.6	320.4	323.3	327.6	331.3	333.5	336.5	340.1	343.7
170°	318.1	318.8	320.7	322.0	323.8	327.0	330.2	331.5	333.4	336.0	339.2
172.5°	320.7	320.8	322.2	322.9	324.3	326.5	329.2	329.5	330.4	332.4	335.1
175°	323.2	323.2	323.8	324.5	324.5	325.8	327.7	327.0	327.0	328.3	329.6
177.5°	324.5	324.0	324.5	324.5	324.5	325.0	326.0	325.0	325.0	325.5	326.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1694.8	1696.9	1698.4	1703.6	1704.1	1708.9	1704.1
5°	1835.0	1844.1	1858.5	1872.7	1874.0	1883.2	1866.9
7.5°	1992.3	2013.4	2026.5	2049.7	2058.8	2064.5	2055.1
10°	2100.6	2120.1	2154.6	2171.5	2188.5	2191.0	2183.3
12.5°	2205.3	2236.3	2263.4	2295.5	2294.7	2317.7	2309.3
15°	2344.7	2376.6	2414.3	2450.1	2463.2	2463.2	2473.6
17.5°	2444.2	2502.6	2541.7	2569.8	2600.5	2605.9	2602.2
20°	2511.4	2574.5	2616.1	2652.6	2673.4	2679.3	2679.3
22.5°	2561.3	2615.1	2655.8	2688.5	2705.7	2712.6	2710.5
25°	2596.0	2642.1	2666.9	2676.7	2681.2	2680.0	2667.6
27.5°	2548.5	2546.5	2530.9	2500.9	2478.4	2464.7	2449.1
30°	2458.0	2424.1	2385.1	2342.1	2286.8	2244.4	2231.4
32.5°	2323.1	2247.0	2180.9	2109.3	2049.8	2007.5	1989.8
35°	2062.2	1941.8	1843.5	1757.5	1695.1	1656.0	1643.0
37.5°	1752.6	1636.1	1514.3	1431.0	1379.2	1339.8	1325.0
40°	1555.8	1428.8	1322.7	1244.6	1191.2	1152.8	1152.2
42.5°	1376.1	1254.9	1155.0	1098.8	1041.2	1015.9	1015.7
45°	1126.7	1029.8	945.2	900.9	866.4	845.5	839.7
47.5°	932.9	852.7	796.4	761.1	733.0	719.7	711.1
50°	824.1	753.8	708.9	678.2	662.7	645.7	644.4
52.5°	733.4	676.7	641.7	616.9	597.0	586.9	587.2
55°	616.4	571.5	546.8	527.9	512.3	504.5	501.2
57.5°	519.3	485.6	467.7	450.3	443.7	437.6	435.9
60°	458.9	436.1	419.2	405.5	395.7	393.8	393.1
62.5°	409.0	385.1	373.4	362.8	355.7	352.7	351.5
65°	337.2	319.6	309.2	300.8	298.2	293.6	292.9
67.5°	271.8	261.3	254.4	248.5	245.0	244.8	244.8
70°	231.7	225.8	220.0	216.8	214.8	213.5	213.5
72.5°	197.4	193.1	188.3	186.5	186.1	184.8	184.3
75°	150.3	145.8	146.4	143.2	140.6	137.4	135.4
77.5°	106.6	103.4	102.7	102.3	100.1	99.7	100.8
80°	82.7	79.4	78.8	79.4	78.8	76.8	76.8
82.5°	62.9	60.2	59.5	59.1	58.5	59.1	58.0
85°	33.8	32.5	32.5	32.5	33.8	33.2	32.5
87.5°	14.4	14.0	14.5	14.1	14.3	13.6	14.1
90°	12.1	12.7	12.7	13.4	14.0	13.4	13.4
92.5°	94.2	75.0	62.2	54.7	51.3	49.1	49.1
95°	373.6	288.1	226.3	195.1	175.3	163.9	155.6
97.5°	661.2	598.8	532.3	486.6	448.2	429.0	415.8
100°	781.5	750.3	703.2	647.7	608.8	589.7	584.6
102.5°	828.5	837.6	817.9	783.9	755.7	735.6	731.5
105°	824.3	887.4	913.5	914.8	909.7	900.8	897.0
107.5°	758.6	847.5	904.3	935.9	950.4	956.8	958.4
110°	707.6	800.1	870.2	915.4	942.2	953.7	959.4



TEST NUMBER: P332999-930

CATALOG NUMBER: SA4XXRDIP-C1195D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	662.8	750.1	820.2	871.6	904.0	920.1	929.4
115°	611.4	685.9	747.1	797.5	835.8	856.1	861.3
117.5°	582.0	640.7	692.6	735.6	767.7	788.3	792.3
120°	569.3	620.3	665.5	701.9	729.9	746.5	753.5
122.5°	561.1	607.6	647.2	677.9	701.9	715.9	722.9
125°	548.3	592.2	627.3	652.8	671.3	683.4	687.2
127.5°	533.0	576.9	610.3	635.9	652.3	662.5	666.3
130°	520.8	564.2	597.9	624.1	640.1	650.3	654.1
132.5°	507.0	549.4	583.2	608.8	626.8	636.5	640.3
135°	486.4	525.3	557.2	582.7	600.5	610.7	614.6
137.5°	466.7	499.5	528.2	552.0	569.6	578.0	582.7
140°	453.9	482.6	509.4	531.7	545.7	554.6	559.7
142.5°	443.2	467.8	491.0	510.8	523.7	531.7	535.2
145°	428.4	447.5	465.4	481.4	492.1	498.6	501.7
147.5°	415.6	431.0	445.0	456.7	466.0	470.8	472.0
150°	408.0	420.8	432.2	442.5	450.7	454.5	455.2
152.5°	400.3	412.1	421.5	430.2	436.9	439.2	439.9
155°	389.6	399.1	406.8	413.1	418.2	420.1	420.1
157.5°	378.8	386.9	393.0	397.8	401.6	402.8	402.8
160°	371.7	378.7	383.8	387.6	391.4	392.1	392.1
162.5°	365.0	370.6	375.1	377.9	381.7	382.4	381.9
165°	355.1	359.5	362.7	365.3	367.9	367.2	366.6
167.5°	346.7	350.3	352.1	353.4	355.1	355.0	354.4
170°	341.0	343.6	345.5	346.8	347.4	346.8	346.8
172.5°	336.5	338.0	339.4	340.1	340.8	340.1	339.2
175°	330.2	331.5	331.5	331.5	332.8	331.5	330.2
177.5°	326.5	326.5	327.0	326.5	327.0	326.0	325.0
180°	324.5	324.5	324.5	324.5	324.5	324.5	324.5

(END OF REPORT)