

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: P332609-840

Luminaire Tested: **SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332609-840
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: SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

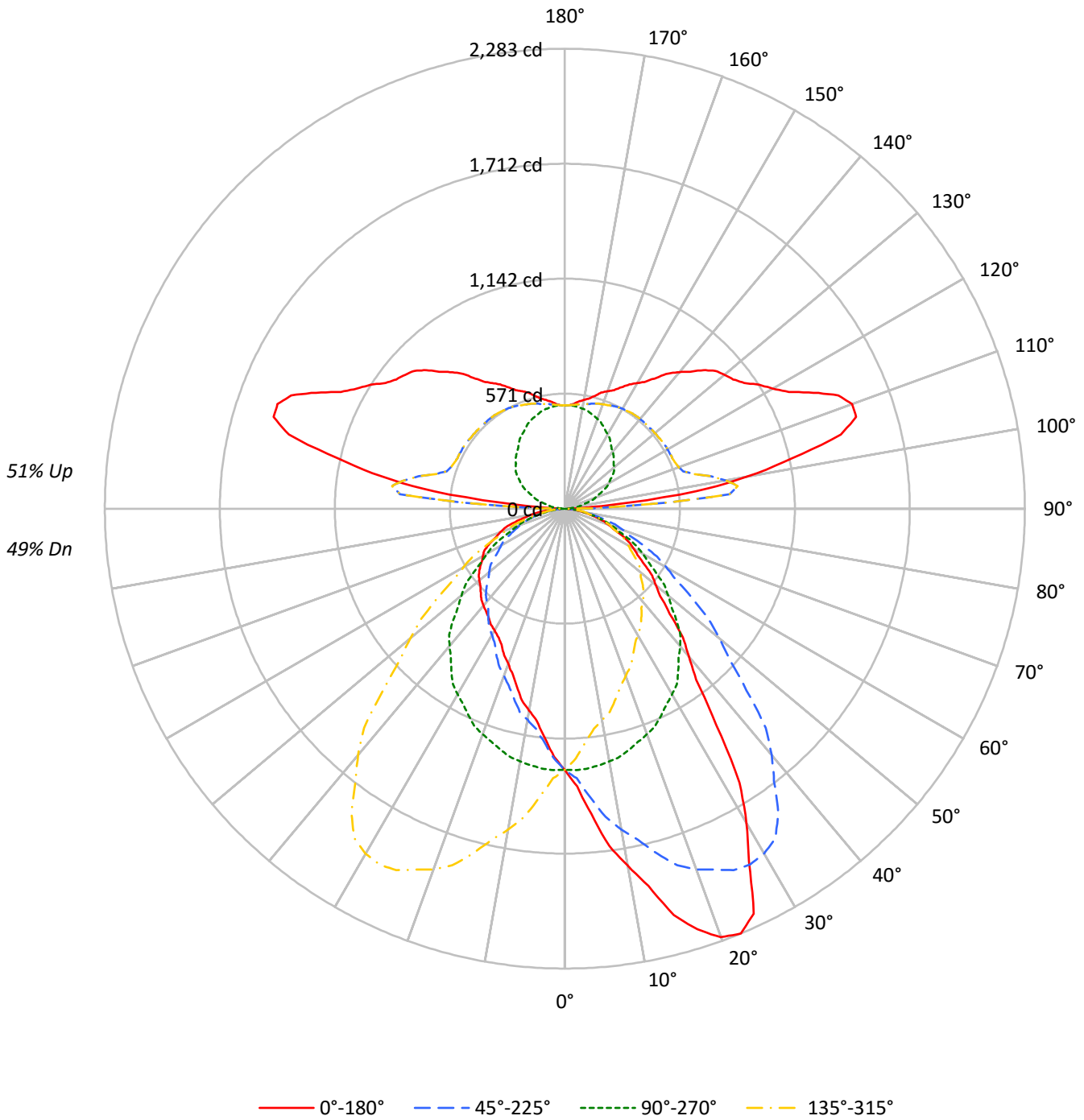
Lumens per Lamp: N/A
Luminaire Lumens: 7312.1 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 52
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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	61	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	38	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	24	29	25	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10467	10467	10467	10467
5°	12327	10494	9263	10494
10°	14758	10449	8338	10449
15°	17462	10343	7658	10343
20°	19444	10234	7050	10234
25°	19759	10075	6631	10075
30°	16812	9923	6498	9923
35°	12925	9676	6500	9676
40°	10075	9385	6622	9385
45°	8401	8947	6734	8947
50°	7394	8411	6962	8411
55°	6773	7771	7241	7771
60°	6347	7198	7579	7198
65°	5908	6556	7859	6556
70°	5401	5922	8037	5922
75°	4825	5209	7941	5209
80°	4049	4268	7689	4268
85°	2983	3084	7364	3084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.7
10°-20°	389.3	5.3
20°-30°	617.4	8.4
30°-40°	687.1	9.4
40°-50°	625.4	8.6
50°-60°	511.1	7.0
60°-70°	364.8	5.0
70°-80°	200.9	2.7
80°-90°	57.7	0.8
90°-100°	370.6	5.1
100°-110°	771.4	10.5
110°-120°	690.9	9.4
120°-130°	581.2	7.9
130°-140°	484.6	6.6
140°-150°	370.2	5.1
150°-160°	260.2	3.6
160°-170°	153.1	2.1
170°-180°	49.8	0.7
0°-30°	1133.0	15.5
0°-40°	1820.1	24.9
0°-60°	2956.5	40.4
0°-90°	3580.0	49.0
90°-120°	1833.0	25.1
90°-150°	3269.0	44.7
90°-180°	3732.0	51.0
0°-180°	7312.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1297	1297	1297	1297	1297	
5°	1521	1295	1143	1295	1521	155
15°	2089	1238	916	1238	2089	590
25°	2218	1131	744	1131	2218	978
35°	1312	982	660	982	1312	832
45°	736	784	590	784	736	580
55°	481	552	514	552	481	435
65°	309	343	411	343	309	306
75°	155	167	255	167	155	164
85°	32	33	80	33	32	40
90°	21	1	21	1	21	18
95°	246	33	246	33	246	382
105°	1418	118	1418	118	1418	1402
115°	1362	208	1362	208	1362	1352
125°	1087	289	1087	289	1087	988
135°	972	344	972	344	972	750
145°	794	396	794	396	794	503
155°	664	451	664	451	664	310
165°	580	491	580	491	580	166
175°	522	512	522	512	522	51
180°	513	513	513	513	513	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1379.9	1379.5	1375.1	1374.3	1371.3	1367.5	1366.5	1359.7	1345.9	1339.5	1337.8
5°	1521.1	1531.8	1517.8	1515.1	1513.5	1495.8	1486.6	1475.9	1451.2	1436.7	1425.4
7.5°	1689.5	1690.7	1684.7	1679.7	1666.1	1650.5	1627.4	1602.7	1573.3	1542.6	1519.5
10°	1800.3	1804.6	1797.7	1796.5	1769.2	1752.0	1717.6	1688.6	1655.3	1618.2	1584.4
12.5°	1917.2	1911.2	1907.6	1884.6	1879.6	1848.3	1808.3	1778.4	1727.1	1684.5	1639.4
15°	2089.3	2077.5	2069.9	2038.2	2022.7	1979.1	1936.7	1904.0	1836.8	1772.9	1724.5
17.5°	2190.2	2202.0	2184.6	2171.6	2131.3	2100.8	2057.5	1988.7	1936.2	1856.8	1795.8
20°	2263.3	2264.3	2254.7	2241.3	2209.6	2170.9	2123.6	2048.4	1985.6	1906.6	1822.9
22.5°	2283.0	2283.3	2279.2	2266.6	2242.6	2211.3	2163.6	2100.8	2024.7	1938.8	1855.1
25°	2218.2	2216.0	2220.9	2234.8	2225.6	2216.0	2188.6	2141.9	2071.0	1980.2	1890.0
27.5°	1977.1	1992.0	2019.2	2053.6	2086.7	2111.9	2119.0	2109.4	2065.5	1990.8	1896.3
30°	1803.5	1821.8	1842.2	1876.5	1943.2	1981.4	2023.2	2054.9	2037.2	1977.5	1889.5
32.5°	1612.8	1617.3	1647.6	1686.7	1747.7	1821.1	1887.4	1951.8	1973.2	1941.9	1868.5
35°	1311.5	1319.1	1351.8	1390.5	1465.2	1554.9	1654.8	1743.9	1817.5	1847.0	1809.5
37.5°	1070.3	1091.9	1115.0	1156.6	1222.3	1303.0	1406.8	1522.2	1631.8	1705.4	1717.8
40°	956.0	969.5	986.1	1017.7	1073.6	1153.2	1242.2	1374.4	1491.0	1596.2	1630.6
42.5°	865.8	873.6	883.8	912.5	955.0	1034.1	1115.5	1231.7	1348.8	1474.6	1532.2
45°	735.8	743.9	761.0	777.7	809.9	864.7	940.4	1036.0	1153.7	1275.1	1381.4
47.5°	642.0	647.1	657.3	675.1	702.5	738.6	800.2	880.1	989.1	1106.9	1220.2
50°	588.7	592.9	601.0	617.1	638.0	670.2	720.7	795.5	880.8	999.6	1110.6
52.5°	546.5	548.3	554.2	565.1	581.8	608.8	650.3	712.1	791.4	897.3	1008.0
55°	481.2	483.4	488.8	496.9	511.3	528.5	560.2	606.3	675.7	767.5	863.6
57.5°	427.5	429.0	433.5	436.7	448.6	462.5	487.0	519.9	572.4	650.3	736.1
60°	393.1	392.0	397.5	400.1	408.2	420.0	438.8	470.5	516.1	579.0	657.9
62.5°	359.6	358.1	362.6	366.2	370.8	380.9	396.3	421.1	458.2	514.9	583.2
65°	309.3	307.2	309.9	314.2	318.5	323.9	335.2	357.2	386.7	427.5	479.6
67.5°	258.8	261.2	261.6	263.7	266.2	273.5	281.2	296.8	317.6	350.3	394.5
70°	228.8	229.3	231.5	231.5	233.1	239.5	246.0	255.1	275.5	305.6	341.5
72.5°	198.7	201.0	200.2	201.9	203.0	207.3	212.1	220.8	238.1	260.4	290.8
75°	154.7	156.3	156.3	156.8	158.4	160.1	163.8	170.3	182.6	199.2	220.3
77.5°	112.8	113.0	113.7	115.7	115.7	118.3	121.1	126.2	132.3	143.7	156.5
80°	87.1	88.1	87.6	88.7	88.7	90.8	91.8	98.3	101.0	108.5	118.7
82.5°	63.8	64.8	64.7	66.2	67.2	67.6	69.1	71.6	74.3	81.0	85.1
85°	32.2	33.3	32.2	33.3	34.9	35.4	37.1	37.6	39.8	41.4	45.1
87.5°	13.7	14.9	15.1	15.5	16.1	16.5	16.8	16.1	17.6	18.3	19.6
90°	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2	17.2	18.2	16.2
92.5°	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0	266.4	319.8	279.8
95°	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0	844.9	821.6	620.1
97.5°	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8	1061.4	865.4	580.3
100°	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9	1068.6	810.5	526.2
102.5°	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2	1008.1	742.0	490.0
105°	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1	898.3	661.4	458.7
107.5°	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0	809.5	616.2	453.0
110°	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6	765.2	600.9	454.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8	740.2	593.6	459.5
115°	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8	716.8	589.8	468.8
117.5°	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8	706.3	588.8	478.7
120°	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5	700.6	588.8	485.9
122.5°	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9	694.2	587.9	493.2
125°	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3	683.6	586.7	504.1
127.5°	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1	669.2	584.5	512.7
130°	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1	660.4	583.7	519.2
132.5°	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1	652.3	582.9	524.8
135°	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7	640.2	581.7	533.3
137.5°	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6	629.7	581.5	538.4
140°	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4	624.1	580.7	542.4
142.5°	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1	619.2	580.7	545.6
145°	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2	611.0	578.7	547.4
147.5°	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1	603.5	575.0	548.5
150°	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1	597.8	572.6	548.5
152.5°	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2	591.4	568.6	546.8
155°	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9	581.7	562.6	544.4
157.5°	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5	571.8	556.3	541.8
160°	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6	564.6	551.5	539.4
162.5°	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7	558.2	546.6	536.9
165°	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5	547.4	539.4	532.3
167.5°	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6	537.8	532.1	527.5
170°	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3	531.3	527.3	524.2
172.5°	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9	525.6	522.4	521.0
175°	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2	519.2	517.2	517.2
177.5°	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5	514.7	513.9	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1338.2	1332.2	1327.9	1324.4	1315.0	1309.4	1305.1	1299.1	1292.2	1285.0	1275.9
5°	1414.1	1395.8	1382.5	1362.0	1342.7	1326.6	1310.0	1294.9	1276.7	1256.8	1242.2
7.5°	1494.0	1466.8	1432.0	1401.8	1367.9	1338.3	1311.9	1284.9	1256.7	1229.4	1204.4
10°	1544.7	1509.7	1471.1	1425.4	1382.5	1344.3	1308.9	1274.6	1241.2	1207.9	1179.4
12.5°	1599.2	1555.7	1498.5	1445.2	1397.0	1346.0	1303.3	1261.2	1221.0	1186.0	1152.8
15°	1672.4	1609.6	1543.6	1472.2	1408.8	1349.2	1290.6	1237.5	1192.3	1146.1	1113.9
17.5°	1717.5	1639.7	1564.2	1489.6	1412.9	1337.7	1274.6	1213.2	1156.7	1110.8	1070.2
20°	1747.2	1669.8	1575.8	1501.2	1409.9	1332.5	1259.5	1191.2	1132.2	1083.3	1041.4
22.5°	1772.9	1683.5	1589.5	1491.3	1400.4	1318.4	1238.4	1169.7	1109.4	1057.9	1017.7
25°	1786.9	1684.3	1582.3	1484.5	1381.4	1284.1	1211.6	1131.1	1066.6	1012.4	969.5
27.5°	1788.4	1678.7	1563.3	1454.6	1348.2	1257.7	1166.1	1094.2	1027.2	969.9	928.6
30°	1783.6	1669.3	1545.2	1427.5	1320.7	1222.4	1143.0	1064.5	996.3	939.4	896.4
32.5°	1768.6	1649.5	1522.0	1397.5	1286.8	1190.6	1108.5	1034.0	967.6	911.4	866.4
35°	1725.2	1607.5	1471.6	1342.2	1228.8	1131.7	1057.5	981.8	915.2	862.0	818.5
37.5°	1657.1	1550.7	1412.6	1278.7	1167.4	1069.8	996.3	927.9	867.8	813.7	769.2
40°	1597.8	1504.4	1365.8	1235.3	1115.0	1022.1	953.3	890.5	830.9	779.8	737.4
42.5°	1529.5	1448.0	1320.3	1182.0	1066.0	972.7	905.6	849.2	793.0	745.9	703.5
45°	1407.7	1354.0	1233.7	1105.9	985.0	897.0	833.0	783.7	736.4	690.1	654.7
47.5°	1267.6	1241.0	1139.7	1018.3	903.6	816.8	761.3	715.7	674.3	635.2	603.9
50°	1173.6	1160.6	1073.1	956.0	846.5	764.8	708.9	669.7	634.3	600.0	570.4
52.5°	1080.8	1080.3	1001.4	894.1	792.7	714.1	658.6	622.1	591.4	563.4	536.8
55°	938.9	953.8	892.1	796.5	705.7	634.8	584.9	552.1	530.7	507.6	487.7
57.5°	808.5	833.4	782.5	698.3	622.6	557.2	513.8	489.2	466.3	452.3	437.9
60°	723.5	747.1	707.3	636.4	565.0	509.2	467.8	445.8	425.9	416.3	406.1
62.5°	647.8	668.9	639.4	573.7	511.7	458.1	423.1	401.9	388.5	378.0	371.2
65°	539.8	557.4	532.3	484.4	431.3	388.3	359.8	343.2	330.3	326.0	318.5
67.5°	436.4	452.4	438.8	398.2	355.6	323.0	300.7	284.8	277.1	273.4	268.0
70°	374.9	391.0	376.5	341.0	308.3	280.9	259.9	250.9	242.8	241.2	233.6
72.5°	322.9	333.9	319.3	291.6	263.6	240.5	224.3	214.7	210.6	207.6	203.6
75°	242.3	251.9	242.3	220.8	200.9	184.8	170.8	167.0	162.2	160.6	157.9
77.5°	171.5	179.9	172.4	159.0	144.1	131.7	124.2	119.4	118.3	115.4	116.7
80°	131.1	136.4	129.5	120.3	108.5	99.9	94.5	91.8	88.7	87.6	89.7
82.5°	94.1	96.4	92.9	86.7	78.0	72.4	68.8	65.6	65.0	65.2	65.2
85°	48.9	48.4	47.8	42.4	39.8	36.0	33.8	33.3	32.7	33.8	34.9
87.5°	19.2	19.6	18.0	16.3	14.7	13.2	12.2	11.4	12.2	13.2	13.8
90°	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0	3.0	6.1	7.1
92.5°	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5	16.8	26.3	38.5
95°	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2	36.3	46.4	59.5
97.5°	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7	59.7	68.4	80.5
100°	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6	76.6	83.7	95.7
102.5°	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7	94.3	100.6	111.9
105°	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0	121.0	126.0	138.1
107.5°	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8	147.8	152.8	165.7
110°	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3	166.3	171.4	183.5



TEST NUMBER: P332609-840

CATALOG NUMBER: SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1	184.1	190.0	201.3
115°	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7	210.7	217.7	227.8
117.5°	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3	237.1	243.4	254.5
120°	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1	254.1	261.2	272.2
122.5°	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2	270.1	277.2	287.5
125°	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3	293.4	299.4	310.5
127.5°	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1	311.3	318.6	331.2
130°	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6	322.7	330.6	345.8
132.5°	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0	332.2	342.7	357.1
135°	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8	347.8	357.9	375.1
137.5°	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5	362.3	373.4	389.7
140°	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0	372.0	383.1	400.2
142.5°	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3	383.3	393.5	409.9
145°	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2	399.2	409.3	423.4
147.5°	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1	415.2	424.0	438.6
150°	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5	426.5	434.5	446.7
152.5°	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0	436.2	444.2	455.4
155°	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6	451.6	457.7	467.8
157.5°	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9	464.9	470.6	478.5
160°	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8	473.8	477.9	484.9
162.5°	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9	481.1	484.3	490.6
165°	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0	491.0	493.0	498.1
167.5°	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1	499.1	500.1	503.9
170°	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1	503.1	504.1	507.2
172.5°	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1	507.2	507.3	509.5
175°	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1	511.1	511.1	512.1
177.5°	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9	513.1	512.3	513.1
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332609-840

CATALOG NUMBER: SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1271.6	1267.8	1262.1	1254.5	1248.0	1241.1	1239.4	1236.8	1241.9	1237.7	1236.4
5°	1229.9	1218.6	1204.2	1187.5	1177.8	1163.9	1161.1	1155.8	1150.4	1149.9	1144.5
7.5°	1185.8	1169.2	1150.2	1133.3	1117.5	1102.3	1092.4	1090.1	1082.3	1077.6	1072.3
10°	1157.4	1137.0	1115.0	1098.8	1080.7	1064.5	1053.2	1046.8	1041.4	1035.5	1030.2
12.5°	1123.9	1102.2	1084.1	1066.6	1044.9	1032.7	1014.1	1003.0	1001.9	1002.0	988.1
15°	1084.9	1063.4	1035.5	1010.8	999.0	975.3	965.1	952.2	944.2	936.1	929.7
17.5°	1040.4	1013.6	991.8	963.4	940.9	922.1	908.7	900.9	888.8	877.4	869.1
20°	1012.4	983.9	960.9	930.8	906.1	882.9	871.7	860.9	851.8	842.1	833.0
22.5°	984.0	954.3	926.0	896.9	873.8	849.5	838.6	823.9	815.3	809.9	800.8
25°	939.4	907.2	874.9	847.0	823.3	801.8	787.4	776.1	766.4	762.1	756.2
27.5°	890.8	858.8	827.7	796.0	769.1	753.6	741.9	733.5	727.8	722.2	719.5
30°	859.9	826.6	793.2	763.8	739.0	723.5	712.7	706.8	702.5	699.8	697.1
32.5°	828.5	795.7	760.6	733.7	711.6	697.7	689.5	683.6	681.5	680.4	679.5
35°	778.2	745.0	712.7	688.5	667.6	662.3	655.2	652.1	651.0	654.7	656.3
37.5°	729.5	698.6	669.0	645.6	631.9	624.0	621.6	621.8	625.6	628.9	632.8
40°	698.2	668.1	640.3	619.8	606.9	602.1	601.0	603.7	607.9	611.8	616.0
42.5°	667.7	638.0	612.7	593.6	584.6	580.2	580.8	583.5	589.5	594.1	600.6
45°	620.4	595.6	570.9	555.3	547.9	548.9	548.9	553.7	559.7	566.6	573.6
47.5°	575.7	550.9	530.5	517.5	513.5	512.6	515.6	521.9	530.4	539.1	548.8
50°	545.6	522.0	504.3	492.5	488.2	489.8	494.1	500.0	510.2	521.0	531.2
52.5°	515.1	493.7	477.3	466.3	463.3	466.2	470.5	479.8	488.8	500.4	512.7
55°	467.8	449.5	436.7	428.6	427.5	429.1	433.9	444.1	457.1	471.6	483.4
57.5°	420.6	405.4	393.5	388.0	388.5	390.0	398.0	410.1	423.8	439.3	454.5
60°	388.9	374.9	365.3	360.9	361.4	364.7	374.4	385.7	402.8	417.9	433.9
62.5°	358.8	346.5	337.3	333.5	332.6	339.7	349.0	360.7	377.9	394.7	412.0
65°	310.4	300.7	293.3	291.1	292.8	298.1	309.9	325.5	340.0	357.7	376.0
67.5°	263.2	255.2	250.0	251.1	253.0	260.9	270.8	284.2	300.6	319.0	337.1
70°	233.1	225.6	221.3	221.8	225.0	234.7	243.3	256.7	274.5	293.3	308.3
72.5°	202.2	197.2	193.4	195.6	198.8	205.5	216.2	229.6	245.2	262.8	278.6
75°	155.2	155.2	153.1	154.7	159.6	165.9	174.0	187.9	203.6	217.5	230.5
77.5°	115.1	114.0	115.3	117.3	120.1	127.7	136.9	146.9	158.6	172.6	183.3
80°	88.1	88.7	91.3	94.5	95.6	101.5	111.2	120.3	129.5	141.3	151.5
82.5°	66.1	66.8	68.1	72.2	73.2	79.6	85.8	94.9	103.2	111.2	119.7
85°	36.0	36.0	38.7	40.3	42.9	47.3	51.0	56.4	63.9	69.3	77.4
87.5°	15.3	15.3	18.3	19.2	20.8	23.4	24.0	29.0	30.9	33.2	37.2
90°	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2	19.2	20.2	20.2
92.5°	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0	149.1	118.6	98.4
95°	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0	590.8	455.7	357.9
97.5°	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8	1045.6	947.1	841.8
100°	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9	1236.0	1186.6	1112.0
102.5°	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2	1310.2	1324.5	1293.4
105°	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1	1303.5	1403.3	1444.7
107.5°	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0	1199.7	1340.3	1430.2
110°	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6	1119.0	1265.3	1376.1



TEST NUMBER: P332609-840

CATALOG NUMBER: SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8	1048.0	1186.2	1297.1
115°	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8	966.8	1084.8	1181.5
117.5°	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8	920.5	1013.2	1095.3
120°	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5	900.3	981.0	1052.5
122.5°	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9	887.4	960.8	1023.5
125°	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3	867.0	936.5	992.0
127.5°	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1	843.0	912.4	965.0
130°	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1	823.6	892.2	945.6
132.5°	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1	801.9	868.8	922.3
135°	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7	769.2	830.7	881.1
137.5°	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6	738.0	789.8	835.4
140°	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4	717.8	763.2	805.5
142.5°	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1	700.8	739.8	776.5
145°	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2	677.5	707.7	736.0
147.5°	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1	657.3	681.6	703.7
150°	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1	645.2	665.4	683.6
152.5°	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2	633.1	651.7	666.6
155°	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9	616.0	631.1	643.2
157.5°	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5	599.1	611.8	621.5
160°	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6	587.7	598.8	606.9
162.5°	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7	577.2	585.9	593.2
165°	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5	561.6	568.6	573.6
167.5°	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6	548.3	553.9	556.9
170°	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3	539.4	543.4	546.4
172.5°	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9	532.1	534.5	536.7
175°	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2	522.2	524.2	524.2
177.5°	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5	516.3	516.3	517.2
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332609-840
 CATALOG NUMBER: SA4XXDIP-C795D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1235.5	1234.7	1231.6	1231.2	1231.6	1234.7	1235.5	1236.4	1237.7	1241.9	1236.8
5°	1141.3	1138.6	1137.0	1143.0	1137.0	1138.6	1141.3	1144.5	1149.9	1150.4	1155.8
7.5°	1070.3	1068.1	1063.4	1062.0	1063.4	1068.1	1070.3	1072.3	1077.6	1082.3	1090.1
10°	1024.7	1022.6	1018.3	1017.2	1018.3	1022.6	1024.7	1030.2	1035.5	1041.4	1046.8
12.5°	980.9	976.6	975.7	976.8	975.7	976.6	980.9	988.1	1002.0	1001.9	1003.0
15°	922.7	920.6	914.6	916.3	914.6	920.6	922.7	929.7	936.1	944.2	952.2
17.5°	865.4	862.7	855.6	861.9	855.6	862.7	865.4	869.1	877.4	888.8	900.9
20°	829.3	825.0	821.2	820.6	821.2	825.0	829.3	833.0	842.1	851.8	860.9
22.5°	794.9	791.0	790.7	787.2	790.7	791.0	794.9	800.8	809.9	815.3	823.9
25°	751.9	748.2	747.1	744.4	747.1	748.2	751.9	756.2	762.1	766.4	776.1
27.5°	718.9	717.1	715.2	716.0	715.2	717.1	718.9	719.5	722.2	727.8	733.5
30°	698.7	698.2	697.1	697.1	697.1	698.2	698.7	697.1	699.8	702.5	706.8
32.5°	682.0	681.9	682.6	682.6	682.6	681.9	682.0	679.5	680.4	681.5	683.6
35°	658.4	660.0	661.2	659.5	661.2	660.0	658.4	656.3	654.7	651.0	652.1
37.5°	637.2	638.8	640.4	642.2	640.4	638.8	637.2	632.8	628.9	625.6	621.8
40°	620.9	624.6	625.7	628.4	625.7	624.6	620.9	616.0	611.8	607.9	603.7
42.5°	605.4	609.6	612.4	612.9	612.4	609.6	605.4	600.6	594.1	589.5	583.5
45°	581.7	585.9	589.8	589.8	589.8	585.9	581.7	573.6	566.6	559.7	553.7
47.5°	557.0	563.3	567.0	568.0	567.0	563.3	557.0	548.8	539.1	530.4	521.9
50°	540.3	547.9	551.6	554.3	551.6	547.9	540.3	531.2	521.0	510.2	500.0
52.5°	524.0	531.5	536.5	538.0	536.5	531.5	524.0	512.7	500.4	488.8	479.8
55°	495.7	506.4	512.4	514.5	512.4	506.4	495.7	483.4	471.6	457.1	444.1
57.5°	469.1	479.0	485.8	487.5	485.8	479.0	469.1	454.5	439.3	423.8	410.1
60°	448.5	459.2	467.8	469.4	467.8	459.2	448.5	433.9	417.9	402.8	385.7
62.5°	427.4	438.6	446.4	450.5	446.4	438.6	427.4	412.0	394.7	377.9	360.7
65°	391.0	402.2	409.8	411.4	409.8	402.2	391.0	376.0	357.7	340.0	325.5
67.5°	351.2	362.5	367.5	370.6	367.5	362.5	351.2	337.1	319.0	300.6	284.2
70°	323.4	332.4	337.8	340.5	337.8	332.4	323.4	308.3	293.3	274.5	256.7
72.5°	291.5	301.0	307.3	307.8	307.3	301.0	291.5	278.6	262.8	245.2	229.6
75°	242.8	251.4	254.6	254.6	254.6	251.4	242.8	230.5	217.5	203.6	187.9
77.5°	192.2	196.6	200.7	201.5	200.7	196.6	192.2	183.3	172.6	158.6	146.9
80°	159.6	162.2	165.4	165.4	165.4	162.2	159.6	151.5	141.3	129.5	120.3
82.5°	126.0	128.3	131.5	131.1	131.5	128.3	126.0	119.7	111.2	103.2	94.9
85°	76.2	81.1	80.6	79.5	80.6	81.1	76.2	77.4	69.3	63.9	56.4
87.5°	38.6	39.3	40.3	41.2	40.3	39.3	38.6	37.2	33.2	30.9	29.0
90°	21.2	22.2	21.2	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2
92.5°	86.5	81.1	77.7	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0
95°	308.5	277.2	259.1	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0
97.5°	769.4	708.7	678.5	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8
100°	1024.3	962.8	932.5	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9
102.5°	1239.6	1195.1	1163.3	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2
105°	1446.7	1438.7	1424.5	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1
107.5°	1480.0	1503.0	1513.1	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0
110°	1447.7	1490.1	1508.2	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1378.4	1429.6	1455.0	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8
115°	1261.2	1321.7	1353.9	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8
117.5°	1163.3	1214.1	1246.7	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8
120°	1109.9	1154.4	1180.5	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5
122.5°	1072.1	1109.9	1132.2	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9
125°	1032.4	1061.6	1080.8	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3
127.5°	1005.5	1031.6	1047.6	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1
130°	986.9	1012.2	1028.3	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1
132.5°	962.8	991.2	1006.5	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1
135°	921.5	949.7	965.8	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7
137.5°	873.0	900.9	914.2	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6
140°	840.8	863.0	877.1	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4
142.5°	807.7	828.3	840.8	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1
145°	761.1	778.3	788.4	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2
147.5°	722.3	737.0	744.7	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1
150°	699.6	712.8	718.8	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1
152.5°	680.3	690.9	694.6	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2
155°	653.3	661.4	664.4	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9
157.5°	629.0	635.1	636.9	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5
160°	613.0	619.0	620.1	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6
162.5°	597.6	603.7	604.7	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7
165°	577.6	581.7	580.7	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5
167.5°	559.0	561.6	561.4	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6
170°	548.5	549.5	548.5	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3
172.5°	538.0	539.0	538.0	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9
175°	524.2	526.2	524.2	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2
177.5°	516.3	517.2	515.5	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1239.4	1241.1	1248.0	1254.5	1262.1	1267.8	1271.6	1275.9	1285.0	1292.2	1299.1
5°	1161.1	1163.9	1177.8	1187.5	1204.2	1218.6	1229.9	1242.2	1256.8	1276.7	1294.9
7.5°	1092.4	1102.3	1117.5	1133.3	1150.2	1169.2	1185.8	1204.4	1229.4	1256.7	1284.9
10°	1053.2	1064.5	1080.7	1098.8	1115.0	1137.0	1157.4	1179.4	1207.9	1241.2	1274.6
12.5°	1014.1	1032.7	1044.9	1066.6	1084.1	1102.2	1123.9	1152.8	1186.0	1221.0	1261.2
15°	965.1	975.3	999.0	1010.8	1035.5	1063.4	1084.9	1113.9	1146.1	1192.3	1237.5
17.5°	908.7	922.1	940.9	963.4	991.8	1013.6	1040.4	1070.2	1110.8	1156.7	1213.2
20°	871.7	882.9	906.1	930.8	960.9	983.9	1012.4	1041.4	1083.3	1132.2	1191.2
22.5°	838.6	849.5	873.8	896.9	926.0	954.3	984.0	1017.7	1057.9	1109.4	1169.7
25°	787.4	801.8	823.3	847.0	874.9	907.2	939.4	969.5	1012.4	1066.6	1131.1
27.5°	741.9	753.6	769.1	796.0	827.7	858.8	890.8	928.6	969.9	1027.2	1094.2
30°	712.7	723.5	739.0	763.8	793.2	826.6	859.9	896.4	939.4	996.3	1064.5
32.5°	689.5	697.7	711.6	733.7	760.6	795.7	828.5	866.4	911.4	967.6	1034.0
35°	655.2	662.3	667.6	688.5	712.7	745.0	778.2	818.5	862.0	915.2	981.8
37.5°	621.6	624.0	631.9	645.6	669.0	698.6	729.5	769.2	813.7	867.8	927.9
40°	601.0	602.1	606.9	619.8	640.3	668.1	698.2	737.4	779.8	830.9	890.5
42.5°	580.8	580.2	584.6	593.6	612.7	638.0	667.7	703.5	745.9	793.0	849.2
45°	548.9	548.9	547.9	555.3	570.9	595.6	620.4	654.7	690.1	736.4	783.7
47.5°	515.6	512.6	513.5	517.5	530.5	550.9	575.7	603.9	635.2	674.3	715.7
50°	494.1	489.8	488.2	492.5	504.3	522.0	545.6	570.4	600.0	634.3	669.7
52.5°	470.5	466.2	463.3	466.3	477.3	493.7	515.1	536.8	563.4	591.4	622.1
55°	433.9	429.1	427.5	428.6	436.7	449.5	467.8	487.7	507.6	530.7	552.1
57.5°	398.0	390.0	388.5	388.0	393.5	405.4	420.6	437.9	452.3	466.3	489.2
60°	374.4	364.7	361.4	360.9	365.3	374.9	388.9	406.1	416.3	425.9	445.8
62.5°	349.0	339.7	332.6	333.5	337.3	346.5	358.8	371.2	378.0	388.5	401.9
65°	309.9	298.1	292.8	291.1	293.3	300.7	310.4	318.5	326.0	330.3	343.2
67.5°	270.8	260.9	253.0	251.1	250.0	255.2	263.2	268.0	273.4	277.1	284.8
70°	243.3	234.7	225.0	221.8	221.3	225.6	233.1	233.6	241.2	242.8	250.9
72.5°	216.2	205.5	198.8	195.6	193.4	197.2	202.2	203.6	207.6	210.6	214.7
75°	174.0	165.9	159.6	154.7	153.1	155.2	155.2	157.9	160.6	162.2	167.0
77.5°	136.9	127.7	120.1	117.3	115.3	114.0	115.1	116.7	115.4	118.3	119.4
80°	111.2	101.5	95.6	94.5	91.3	88.7	88.1	89.7	87.6	88.7	91.8
82.5°	85.8	79.6	73.2	72.2	68.1	66.8	66.1	65.2	65.2	65.0	65.6
85°	51.0	47.3	42.9	40.3	38.7	36.0	36.0	34.9	33.8	32.7	33.3
87.5°	24.0	23.4	20.8	19.2	18.3	15.3	15.3	13.8	13.2	12.2	11.4
90°	17.2	18.2	16.2	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0
92.5°	266.4	319.8	279.8	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5
95°	844.9	821.6	620.1	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2
97.5°	1061.4	865.4	580.3	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7
100°	1068.6	810.5	526.2	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6
102.5°	1008.1	742.0	490.0	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7
105°	898.3	661.4	458.7	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0
107.5°	809.5	616.2	453.0	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8
110°	765.2	600.9	454.6	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3



TEST NUMBER: P332609-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.2	593.6	459.5	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1
115°	716.8	589.8	468.8	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7
117.5°	706.3	588.8	478.7	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3
120°	700.6	588.8	485.9	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1
122.5°	694.2	587.9	493.2	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2
125°	683.6	586.7	504.1	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3
127.5°	669.2	584.5	512.7	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1
130°	660.4	583.7	519.2	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6
132.5°	652.3	582.9	524.8	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0
135°	640.2	581.7	533.3	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8
137.5°	629.7	581.5	538.4	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5
140°	624.1	580.7	542.4	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0
142.5°	619.2	580.7	545.6	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3
145°	611.0	578.7	547.4	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2
147.5°	603.5	575.0	548.5	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1
150°	597.8	572.6	548.5	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5
152.5°	591.4	568.6	546.8	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0
155°	581.7	562.6	544.4	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6
157.5°	571.8	556.3	541.8	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9
160°	564.6	551.5	539.4	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8
162.5°	558.2	546.6	536.9	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9
165°	547.4	539.4	532.3	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0
167.5°	537.8	532.1	527.5	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1
170°	531.3	527.3	524.2	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1
172.5°	525.6	522.4	521.0	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1
175°	519.2	517.2	517.2	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1
177.5°	514.7	513.9	513.9	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332609-840
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1305.1	1309.4	1315.0	1324.4	1327.9	1332.2	1338.2	1337.8	1339.5	1345.9	1359.7
5°	1310.0	1326.6	1342.7	1362.0	1382.5	1395.8	1414.1	1425.4	1436.7	1451.2	1475.9
7.5°	1311.9	1338.3	1367.9	1401.8	1432.0	1466.8	1494.0	1519.5	1542.6	1573.3	1602.7
10°	1308.9	1344.3	1382.5	1425.4	1471.1	1509.7	1544.7	1584.4	1618.2	1655.3	1688.6
12.5°	1303.3	1346.0	1397.0	1445.2	1498.5	1555.7	1599.2	1639.4	1684.5	1727.1	1778.4
15°	1290.6	1349.2	1408.8	1472.2	1543.6	1609.6	1672.4	1724.5	1772.9	1836.8	1904.0
17.5°	1274.6	1337.7	1412.9	1489.6	1564.2	1639.7	1717.5	1795.8	1856.8	1936.2	1988.7
20°	1259.5	1332.5	1409.9	1501.2	1575.8	1669.8	1747.2	1822.9	1906.6	1985.6	2048.4
22.5°	1238.4	1318.4	1400.4	1491.3	1589.5	1683.5	1772.9	1855.1	1938.8	2024.7	2100.8
25°	1211.6	1284.1	1381.4	1484.5	1582.3	1684.3	1786.9	1890.0	1980.2	2071.0	2141.9
27.5°	1166.1	1257.7	1348.2	1454.6	1563.3	1678.7	1788.4	1896.3	1990.8	2065.5	2109.4
30°	1143.0	1222.4	1320.7	1427.5	1545.2	1669.3	1783.6	1889.5	1977.5	2037.2	2054.9
32.5°	1108.5	1190.6	1286.8	1397.5	1522.0	1649.5	1768.6	1868.5	1941.9	1973.2	1951.8
35°	1057.5	1131.7	1228.8	1342.2	1471.6	1607.5	1725.2	1809.5	1847.0	1817.5	1743.9
37.5°	996.3	1069.8	1167.4	1278.7	1412.6	1550.7	1657.1	1717.8	1705.4	1631.8	1522.2
40°	953.3	1022.1	1115.0	1235.3	1365.8	1504.4	1597.8	1630.6	1596.2	1491.0	1374.4
42.5°	905.6	972.7	1066.0	1182.0	1320.3	1448.0	1529.5	1532.2	1474.6	1348.8	1231.7
45°	833.0	897.0	985.0	1105.9	1233.7	1354.0	1407.7	1381.4	1275.1	1153.7	1036.0
47.5°	761.3	816.8	903.6	1018.3	1139.7	1241.0	1267.6	1220.2	1106.9	989.1	880.1
50°	708.9	764.8	846.5	956.0	1073.1	1160.6	1173.6	1110.6	999.6	880.8	795.5
52.5°	658.6	714.1	792.7	894.1	1001.4	1080.3	1080.8	1008.0	897.3	791.4	712.1
55°	584.9	634.8	705.7	796.5	892.1	953.8	938.9	863.6	767.5	675.7	606.3
57.5°	513.8	557.2	622.6	698.3	782.5	833.4	808.5	736.1	650.3	572.4	519.9
60°	467.8	509.2	565.0	636.4	707.3	747.1	723.5	657.9	579.0	516.1	470.5
62.5°	423.1	458.1	511.7	573.7	639.4	668.9	647.8	583.2	514.9	458.2	421.1
65°	359.8	388.3	431.3	484.4	532.3	557.4	539.8	479.6	427.5	386.7	357.2
67.5°	300.7	323.0	355.6	398.2	438.8	452.4	436.4	394.5	350.3	317.6	296.8
70°	259.9	280.9	308.3	341.0	376.5	391.0	374.9	341.5	305.6	275.5	255.1
72.5°	224.3	240.5	263.6	291.6	319.3	333.9	322.9	290.8	260.4	238.1	220.8
75°	170.8	184.8	200.9	220.8	242.3	251.9	242.3	220.3	199.2	182.6	170.3
77.5°	124.2	131.7	144.1	159.0	172.4	179.9	171.5	156.5	143.7	132.3	126.2
80°	94.5	99.9	108.5	120.3	129.5	136.4	131.1	118.7	108.5	101.0	98.3
82.5°	68.8	72.4	78.0	86.7	92.9	96.4	94.1	85.1	81.0	74.3	71.6
85°	33.8	36.0	39.8	42.4	47.8	48.4	48.9	45.1	41.4	39.8	37.6
87.5°	12.2	13.2	14.7	16.3	18.0	19.6	19.2	19.6	18.3	17.6	16.1
90°	3.0	6.1	7.1	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2
92.5°	16.8	26.3	38.5	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0
95°	36.3	46.4	59.5	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0
97.5°	59.7	68.4	80.5	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8
100°	76.6	83.7	95.7	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9
102.5°	94.3	100.6	111.9	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2
105°	121.0	126.0	138.1	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1
107.5°	147.8	152.8	165.7	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0
110°	166.3	171.4	183.5	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	190.0	201.3	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8
115°	210.7	217.7	227.8	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8
117.5°	237.1	243.4	254.5	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8
120°	254.1	261.2	272.2	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5
122.5°	270.1	277.2	287.5	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9
125°	293.4	299.4	310.5	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3
127.5°	311.3	318.6	331.2	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1
130°	322.7	330.6	345.8	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1
132.5°	332.2	342.7	357.1	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1
135°	347.8	357.9	375.1	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7
137.5°	362.3	373.4	389.7	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6
140°	372.0	383.1	400.2	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4
142.5°	383.3	393.5	409.9	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1
145°	399.2	409.3	423.4	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2
147.5°	415.2	424.0	438.6	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1
150°	426.5	434.5	446.7	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1
152.5°	436.2	444.2	455.4	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2
155°	451.6	457.7	467.8	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9
157.5°	464.9	470.6	478.5	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5
160°	473.8	477.9	484.9	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6
162.5°	481.1	484.3	490.6	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7
165°	491.0	493.0	498.1	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5
167.5°	499.1	500.1	503.9	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6
170°	503.1	504.1	507.2	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3
172.5°	507.2	507.3	509.5	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9
175°	511.1	511.1	512.1	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2
177.5°	513.1	512.3	513.1	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1366.5	1367.5	1371.3	1374.3	1375.1	1379.5	1379.9
5°	1486.6	1495.8	1513.5	1515.1	1517.8	1531.8	1521.1
7.5°	1627.4	1650.5	1666.1	1679.7	1684.7	1690.7	1689.5
10°	1717.6	1752.0	1769.2	1796.5	1797.7	1804.6	1800.3
12.5°	1808.3	1848.3	1879.6	1884.6	1907.6	1911.2	1917.2
15°	1936.7	1979.1	2022.7	2038.2	2069.9	2077.5	2089.3
17.5°	2057.5	2100.8	2131.3	2171.6	2184.6	2202.0	2190.2
20°	2123.6	2170.9	2209.6	2241.3	2254.7	2264.3	2263.3
22.5°	2163.6	2211.3	2242.6	2266.6	2279.2	2283.3	2283.0
25°	2188.6	2216.0	2225.6	2234.8	2220.9	2216.0	2218.2
27.5°	2119.0	2111.9	2086.7	2053.6	2019.2	1992.0	1977.1
30°	2023.2	1981.4	1943.2	1876.5	1842.2	1821.8	1803.5
32.5°	1887.4	1821.1	1747.7	1686.7	1647.6	1617.3	1612.8
35°	1654.8	1554.9	1465.2	1390.5	1351.8	1319.1	1311.5
37.5°	1406.8	1303.0	1222.3	1156.6	1115.0	1091.9	1070.3
40°	1242.2	1153.2	1073.6	1017.7	986.1	969.5	956.0
42.5°	1115.5	1034.1	955.0	912.5	883.8	873.6	865.8
45°	940.4	864.7	809.9	777.7	761.0	743.9	735.8
47.5°	800.2	738.6	702.5	675.1	657.3	647.1	642.0
50°	720.7	670.2	638.0	617.1	601.0	592.9	588.7
52.5°	650.3	608.8	581.8	565.1	554.2	548.3	546.5
55°	560.2	528.5	511.3	496.9	488.8	483.4	481.2
57.5°	487.0	462.5	448.6	436.7	433.5	429.0	427.5
60°	438.8	420.0	408.2	400.1	397.5	392.0	393.1
62.5°	396.3	380.9	370.8	366.2	362.6	358.1	359.6
65°	335.2	323.9	318.5	314.2	309.9	307.2	309.3
67.5°	281.2	273.5	266.2	263.7	261.6	261.2	258.8
70°	246.0	239.5	233.1	231.5	231.5	229.3	228.8
72.5°	212.1	207.3	203.0	201.9	200.2	201.0	198.7
75°	163.8	160.1	158.4	156.8	156.3	156.3	154.7
77.5°	121.1	118.3	115.7	115.7	113.7	113.0	112.8
80°	91.8	90.8	88.7	88.7	87.6	88.1	87.1
82.5°	69.1	67.6	67.2	66.2	64.7	64.8	63.8
85°	37.1	35.4	34.9	33.3	32.2	33.3	32.2
87.5°	16.8	16.5	16.1	15.5	15.1	14.9	13.7
90°	19.2	20.2	20.2	21.2	22.2	21.2	21.2
92.5°	149.1	118.6	98.4	86.5	81.1	77.7	77.7
95°	590.8	455.7	357.9	308.5	277.2	259.1	246.0
97.5°	1045.6	947.1	841.8	769.4	708.7	678.5	657.5
100°	1236.0	1186.6	1112.0	1024.3	962.8	932.5	924.5
102.5°	1310.2	1324.5	1293.4	1239.6	1195.1	1163.3	1156.8
105°	1303.5	1403.3	1444.7	1446.7	1438.7	1424.5	1418.5
107.5°	1199.7	1340.3	1430.2	1480.0	1503.0	1513.1	1515.7
110°	1119.0	1265.3	1376.1	1447.7	1490.1	1508.2	1517.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1048.0	1186.2	1297.1	1378.4	1429.6	1455.0	1469.7
115°	966.8	1084.8	1181.5	1261.2	1321.7	1353.9	1362.0
117.5°	920.5	1013.2	1095.3	1163.3	1214.1	1246.7	1252.9
120°	900.3	981.0	1052.5	1109.9	1154.4	1180.5	1191.6
122.5°	887.4	960.8	1023.5	1072.1	1109.9	1132.2	1143.3
125°	867.0	936.5	992.0	1032.4	1061.6	1080.8	1086.8
127.5°	843.0	912.4	965.0	1005.5	1031.6	1047.6	1053.7
130°	823.6	892.2	945.6	986.9	1012.2	1028.3	1034.4
132.5°	801.9	868.8	922.3	962.8	991.2	1006.5	1012.6
135°	769.2	830.7	881.1	921.5	949.7	965.8	971.9
137.5°	738.0	789.8	835.4	873.0	900.9	914.2	921.5
140°	717.8	763.2	805.5	840.8	863.0	877.1	885.1
142.5°	700.8	739.8	776.5	807.7	828.3	840.8	846.5
145°	677.5	707.7	736.0	761.1	778.3	788.4	793.5
147.5°	657.3	681.6	703.7	722.3	737.0	744.7	746.4
150°	645.2	665.4	683.6	699.6	712.8	718.8	719.8
152.5°	633.1	651.7	666.6	680.3	690.9	694.6	695.6
155°	616.0	631.1	643.2	653.3	661.4	664.4	664.4
157.5°	599.1	611.8	621.5	629.0	635.1	636.9	636.9
160°	587.7	598.8	606.9	613.0	619.0	620.1	620.1
162.5°	577.2	585.9	593.2	597.6	603.7	604.7	603.9
165°	561.6	568.6	573.6	577.6	581.7	580.7	579.7
167.5°	548.3	553.9	556.9	559.0	561.6	561.4	560.6
170°	539.4	543.4	546.4	548.5	549.5	548.5	548.5
172.5°	532.1	534.5	536.7	538.0	539.0	538.0	536.3
175°	522.2	524.2	524.2	524.2	526.2	524.2	522.2
177.5°	516.3	516.3	517.2	516.3	517.2	515.5	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1

(END OF REPORT)