

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: P332969-940

Luminaire Tested: **SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332969-940
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-C1020D810U940-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 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: 6450.6 lumens
Efficiency: N/A
Efficacy: 118.6 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: General Diffuse

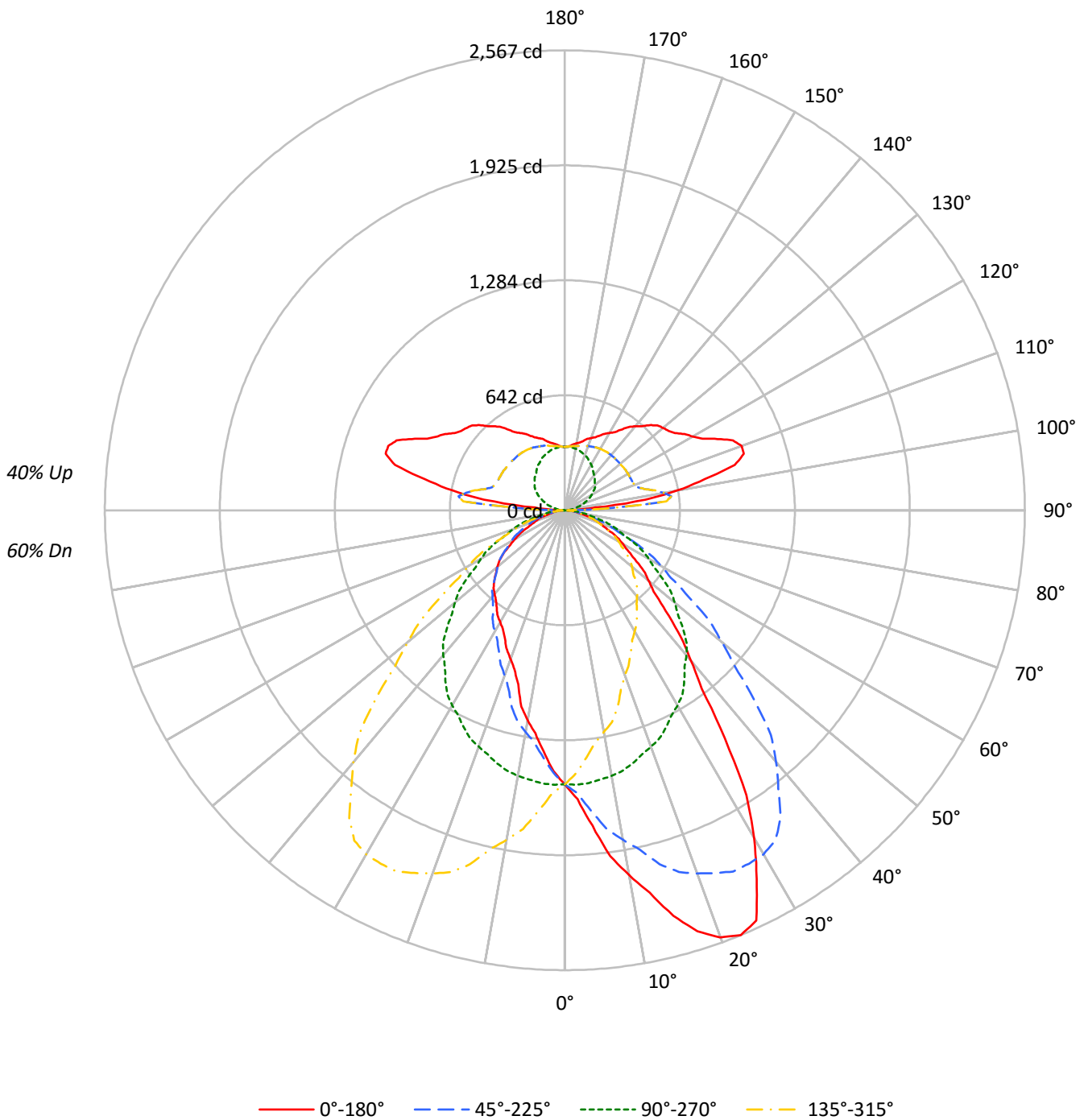
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332969-940

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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	102	102	102	102	89	89	89	77	77	77	65	65	65	60				
1	101	96	93	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52				
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	52	50	48	44				
3	84	75	68	62	79	71	64	59	62	57	53	54	50	47	47	44	42	38				
4	77	67	59	53	72	63	56	51	55	50	46	49	44	41	42	39	36	33				
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32	29				
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28	26				
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	23				
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	29	26	23	21				
9	53	41	33	28	49	39	32	27	35	29	25	31	26	23	27	23	21	19				
10	49	37	30	25	46	36	29	24	32	26	23	28	24	21	25	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	2.3
10°-20°	447.2	6.9
20°-30°	699.4	10.8
30°-40°	777.5	12.1
40°-50°	689.9	10.7
50°-60°	537.6	8.3
60°-70°	351.9	5.5
70°-80°	173.1	2.7
80°-90°	44.7	0.7
90°-100°	256.3	4.0
100°-110°	533.5	8.3
110°-120°	477.9	7.4
120°-130°	402.0	6.2
130°-140°	335.1	5.2
140°-150°	256.1	4.0
150°-160°	180.0	2.8
160°-170°	105.9	1.6
170°-180°	34.4	0.5
0°-30°	1294.9	20.1
0°-40°	2072.4	32.1
0°-60°	3299.8	51.2
0°-90°	3869.5	60.0
90°-120°	1267.7	19.7
90°-150°	2260.9	35.0
90°-180°	2581.0	40.0
0°-180°	6450.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	35
90°	15	1	15	1	15	13
95°	170	23	170	23	170	264
105°	981	82	981	82	981	970
115°	942	144	942	144	942	935
125°	752	200	752	200	752	683
135°	672	238	672	238	672	519
145°	549	274	549	274	549	348
155°	460	312	460	312	460	214
165°	401	340	401	340	401	115
175°	361	354	361	354	361	35
180°	355	355	355	355	355	



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	13.8	13.3	13.9	13.8	14.1	13.6	14.0	14.8	13.7	14.4	14.1
90°	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6	11.9	12.6	11.1
92.5°	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0	184.2	221.1	193.6
95°	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7	584.3	568.3	428.8
97.5°	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3	734.1	598.5	401.4
100°	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9	739.0	560.6	364.0
102.5°	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0	697.2	513.2	338.9
105°	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0	621.3	457.4	317.3
107.5°	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3	559.9	426.1	313.3
110°	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4	529.2	415.5	314.4



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2	511.9	410.5	317.8
115°	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9	495.7	407.9	324.2
117.5°	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6	488.5	407.2	331.1
120°	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8	484.6	407.2	336.1
122.5°	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1	480.1	406.6	341.1
125°	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7	472.7	405.8	348.7
127.5°	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8	462.8	404.3	354.6
130°	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6	456.7	403.7	359.1
132.5°	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8	451.1	403.1	363.0
135°	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7	442.7	402.3	368.8
137.5°	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1	435.5	402.2	372.3
140°	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7	431.6	401.6	375.1
142.5°	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8	428.3	401.6	377.4
145°	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9	422.5	400.2	378.6
147.5°	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8	417.4	397.7	379.3
150°	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2	413.5	396.0	379.3
152.5°	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1	409.0	393.2	378.2
155°	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8	402.3	389.1	376.5
157.5°	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9	395.5	384.8	374.7
160°	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9	390.5	381.4	373.0
162.5°	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7	386.0	378.1	371.4
165°	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1	378.6	373.0	368.2
167.5°	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9	371.9	368.0	364.8
170°	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0	367.5	364.6	362.6
172.5°	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5	363.6	361.3	360.3
175°	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5	359.1	357.7	357.7
177.5°	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6	356.0	355.4	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	13.8	13.3	13.5	13.5	13.8	15.6	16.7	16.9	15.7	14.6	13.3
90°	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7	2.1	4.2	4.9
92.5°	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9	11.6	18.1	26.7
95°	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0	25.1	32.1	41.1
97.5°	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3	41.3	47.3	55.6
100°	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0	53.0	57.9	66.3
102.5°	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1	65.3	69.6	77.4
105°	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6	83.6	87.1	95.5
107.5°	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9	102.2	105.7	114.6
110°	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7	115.0	118.5	126.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9	127.3	131.3	139.2
115°	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7	145.7	150.6	157.6
117.5°	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0	164.0	168.4	176.0
120°	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3	175.7	180.6	188.2
122.5°	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5	186.9	191.7	198.9
125°	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1	202.9	207.1	214.7
127.5°	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1	215.3	220.3	229.1
130°	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3	223.1	228.7	239.2
132.5°	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6	229.8	237.1	247.0
135°	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7	240.6	247.5	259.4
137.5°	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0	250.6	258.2	269.6
140°	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2	257.3	264.9	276.8
142.5°	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0	265.1	272.2	283.5
145°	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0	276.1	283.1	292.8
147.5°	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4	287.1	293.3	303.3
150°	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3	295.0	300.5	308.9
152.5°	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5	301.7	307.2	315.0
155°	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7	312.4	316.6	323.5
157.5°	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6	321.6	325.5	330.9
160°	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7	327.7	330.5	335.4
162.5°	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3	332.7	334.9	339.3
165°	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6	339.6	341.0	344.5
167.5°	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8	345.2	345.8	348.5
170°	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7	347.9	348.7	350.7
172.5°	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4	350.7	350.9	352.4
175°	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2	353.5	353.5	354.2
177.5°	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4	354.9	354.4	354.9
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	13.5	12.9	13.8	12.8	13.6	13.8	13.2	13.4	14.0	13.1	13.1
90°	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6	13.3	13.9	13.9
92.5°	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0	103.1	82.0	68.0
95°	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7	408.6	315.1	247.5
97.5°	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3	723.2	655.0	582.2
100°	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9	854.8	820.6	769.1
102.5°	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0	906.2	916.1	894.6
105°	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0	901.5	970.5	999.2
107.5°	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3	829.7	926.9	989.1
110°	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4	773.9	875.0	951.7



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2	724.9	820.4	897.1
115°	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9	668.7	750.2	817.2
117.5°	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6	636.6	700.7	757.5
120°	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8	622.7	678.4	727.9
122.5°	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1	613.7	664.5	707.8
125°	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7	599.7	647.7	686.1
127.5°	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8	583.0	631.0	667.4
130°	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6	569.6	617.1	654.0
132.5°	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8	554.6	600.9	637.8
135°	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7	532.0	574.5	609.4
137.5°	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1	510.4	546.3	577.7
140°	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7	496.4	527.8	557.1
142.5°	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8	484.7	511.7	537.0
145°	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9	468.6	489.5	509.0
147.5°	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8	454.6	471.4	486.7
150°	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2	446.2	460.2	472.7
152.5°	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1	437.8	450.7	461.0
155°	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8	426.1	436.5	444.9
157.5°	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9	414.3	423.1	429.8
160°	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9	406.5	414.2	419.7
162.5°	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7	399.2	405.3	410.3
165°	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1	388.3	393.2	396.7
167.5°	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9	379.2	383.1	385.1
170°	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0	373.0	375.9	377.9
172.5°	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5	368.0	369.7	371.2
175°	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5	361.1	362.6	362.6
177.5°	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6	357.1	357.1	357.7
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	14.3	13.9	13.3	13.8	13.3	13.9	14.3	13.1	13.1	14.0	13.4
90°	14.6	15.3	14.6	14.6	14.6	15.3	14.6	13.9	13.9	13.3	12.6
92.5°	59.8	56.1	53.7	53.7	53.7	56.1	59.8	68.0	82.0	103.1	137.0
95°	213.4	191.7	179.2	170.1	179.2	191.7	213.4	247.5	315.1	408.6	516.7
97.5°	532.2	490.2	469.2	454.8	469.2	490.2	532.2	582.2	655.0	723.2	763.3
100°	708.4	665.8	645.0	639.4	645.0	665.8	708.4	769.1	820.6	854.8	840.9
102.5°	857.4	826.5	804.5	800.0	804.5	826.5	857.4	894.6	916.1	906.2	837.0
105°	1000.6	995.0	985.3	981.1	985.3	995.0	1000.6	999.2	970.5	901.5	781.0
107.5°	1023.6	1039.5	1046.4	1048.2	1046.4	1039.5	1023.6	989.1	926.9	829.7	701.3
110°	1001.2	1030.6	1043.1	1049.4	1043.1	1030.6	1001.2	951.7	875.0	773.9	653.4



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	953.2	988.7	1006.3	1016.5	1006.3	988.7	953.2	897.1	820.4	724.9	618.2
115°	872.3	914.1	936.4	942.0	936.4	914.1	872.3	817.2	750.2	668.7	582.9
117.5°	804.5	839.6	862.2	866.6	862.2	839.6	804.5	757.5	700.7	636.6	565.6
120°	767.7	798.3	816.5	824.1	816.5	798.3	767.7	727.9	678.4	622.7	557.8
122.5°	741.5	767.7	783.0	790.7	783.0	767.7	741.5	707.8	664.5	613.7	551.1
125°	714.0	734.2	747.4	751.6	747.4	734.2	714.0	686.1	647.7	599.7	539.7
127.5°	695.4	713.5	724.6	728.8	724.6	713.5	695.4	667.4	631.0	583.0	525.8
130°	682.6	700.1	711.2	715.4	711.2	700.1	682.6	654.0	617.1	569.6	514.6
132.5°	665.8	685.5	696.2	700.3	696.2	685.5	665.8	637.8	600.9	554.6	502.8
135°	637.3	656.8	668.0	672.2	668.0	656.8	637.3	609.4	574.5	532.0	486.7
137.5°	603.8	623.0	632.2	637.3	632.2	623.0	603.8	577.7	546.3	510.4	472.1
140°	581.5	596.8	606.6	612.2	606.6	596.8	581.5	557.1	527.8	496.4	463.7
142.5°	558.7	572.8	581.5	585.4	581.5	572.8	558.7	537.0	511.7	484.7	455.8
145°	526.5	538.2	545.3	548.8	545.3	538.2	526.5	509.0	489.5	468.6	444.9
147.5°	499.5	509.7	515.0	516.2	515.0	509.7	499.5	486.7	471.4	454.6	435.8
150°	483.9	492.9	497.1	497.8	497.1	492.9	483.9	472.7	460.2	446.2	430.2
152.5°	470.5	477.9	480.4	481.1	480.4	477.9	470.5	461.0	450.7	437.8	424.1
155°	451.8	457.4	459.5	459.5	459.5	457.4	451.8	444.9	436.5	426.1	414.8
157.5°	435.1	439.3	440.5	440.5	440.5	439.3	435.1	429.8	423.1	414.3	404.9
160°	423.9	428.1	428.8	428.8	428.8	428.1	423.9	419.7	414.2	406.5	398.9
162.5°	413.3	417.5	418.2	417.7	418.2	417.5	413.3	410.3	405.3	399.2	392.7
165°	399.5	402.3	401.6	400.9	401.6	402.3	399.5	396.7	393.2	388.3	384.1
167.5°	386.6	388.3	388.3	387.6	388.3	388.3	386.6	385.1	383.1	379.2	375.9
170°	379.3	380.0	379.3	379.3	379.3	380.0	379.3	377.9	375.9	373.0	371.0
172.5°	372.0	372.7	372.0	371.0	372.0	372.7	372.0	371.2	369.7	368.0	366.5
175°	362.6	364.0	362.6	361.1	362.6	364.0	362.6	362.6	362.6	361.1	360.5
177.5°	357.1	357.7	356.6	355.4	356.6	357.7	357.1	357.7	357.1	357.1	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	13.2	13.8	13.6	12.8	13.8	12.9	13.5	13.3	14.6	15.7	16.9
90°	11.9	12.6	11.1	9.7	9.7	5.6	5.6	4.9	4.2	2.1	0.7
92.5°	184.2	221.1	193.6	140.8	86.8	51.3	36.8	26.7	18.1	11.6	7.9
95°	584.3	568.3	428.8	262.2	147.8	87.1	57.9	41.1	32.1	25.1	23.0
97.5°	734.1	598.5	401.4	235.7	141.2	94.5	70.0	55.6	47.3	41.3	41.3
100°	739.0	560.6	364.0	221.8	142.9	101.8	79.5	66.3	57.9	53.0	53.0
102.5°	697.2	513.2	338.9	217.8	148.5	111.3	90.1	77.4	69.6	65.3	64.1
105°	621.3	457.4	317.3	219.6	161.8	128.3	108.1	95.5	87.1	83.6	81.6
107.5°	559.9	426.1	313.3	230.0	177.3	146.6	126.6	114.6	105.7	102.2	100.9
110°	529.2	415.5	314.4	237.7	189.0	158.3	139.5	126.9	118.5	115.0	113.7



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	511.9	410.5	317.8	246.1	200.1	170.6	151.7	139.2	131.3	127.3	125.9
115°	495.7	407.9	324.2	259.4	217.6	189.7	170.9	157.6	150.6	145.7	143.7
117.5°	488.5	407.2	331.1	272.9	234.4	207.9	188.4	176.0	168.4	164.0	162.0
120°	484.6	407.2	336.1	282.4	246.1	219.6	200.1	188.2	180.6	175.7	174.3
122.5°	480.1	406.6	341.1	291.3	257.3	230.8	211.8	198.9	191.7	186.9	185.5
125°	472.7	405.8	348.7	304.7	272.6	247.5	228.0	214.7	207.1	202.9	200.1
127.5°	462.8	404.3	354.6	316.3	286.9	262.6	242.9	229.1	220.3	215.3	213.1
130°	456.7	403.7	359.1	323.5	296.3	272.6	252.4	239.2	228.7	223.1	220.3
132.5°	451.1	403.1	363.0	330.7	304.2	280.4	261.4	247.0	237.1	229.8	227.6
135°	442.7	402.3	368.8	340.3	315.1	292.1	274.0	259.4	247.5	240.6	237.7
137.5°	435.5	402.2	372.3	347.0	323.5	302.0	284.7	269.6	258.2	250.6	248.0
140°	431.6	401.6	375.1	351.4	329.1	308.2	291.4	276.8	264.9	257.3	255.2
142.5°	428.3	401.6	377.4	354.7	334.1	313.8	297.6	283.5	272.2	265.1	263.0
145°	422.5	400.2	378.6	358.4	339.6	321.5	306.1	292.8	283.1	276.1	274.0
147.5°	417.4	397.7	379.3	361.6	345.2	328.1	314.3	303.3	293.3	287.1	286.4
150°	413.5	396.0	379.3	363.3	347.9	332.6	319.3	308.9	300.5	295.0	294.3
152.5°	409.0	393.2	378.2	364.4	350.2	336.5	324.4	315.0	307.2	301.7	301.5
155°	402.3	389.1	376.5	365.3	353.5	341.6	331.2	323.5	316.6	312.4	311.7
157.5°	395.5	384.8	374.7	365.3	355.9	345.8	337.6	330.9	325.5	321.6	321.6
160°	390.5	381.4	373.0	365.3	357.0	348.7	341.0	335.4	330.5	327.7	327.7
162.5°	386.0	378.1	371.4	365.3	358.1	350.3	344.3	339.3	334.9	332.7	333.3
165°	378.6	373.0	368.2	364.0	358.4	352.1	347.9	344.5	341.0	339.6	339.6
167.5°	371.9	368.0	364.8	362.3	358.3	353.7	350.4	348.5	345.8	345.2	345.8
170°	367.5	364.6	362.6	361.1	357.7	354.2	352.1	350.7	348.7	347.9	348.7
172.5°	363.6	361.3	360.3	360.1	357.1	354.7	353.2	352.4	350.9	350.7	351.4
175°	359.1	357.7	357.7	358.4	356.3	354.9	354.9	354.2	353.5	353.5	354.2
177.5°	356.0	355.4	355.4	356.6	355.4	354.9	354.9	354.9	354.4	354.9	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	16.7	15.6	13.8	13.5	13.5	13.3	13.8	14.1	14.4	13.7	14.8
90°	2.1	4.2	4.9	5.6	5.6	9.7	9.7	11.1	12.6	11.9	12.6
92.5°	11.6	18.1	26.7	36.8	51.3	86.8	140.8	193.6	221.1	184.2	137.0
95°	25.1	32.1	41.1	57.9	87.1	147.8	262.2	428.8	568.3	584.3	516.7
97.5°	41.3	47.3	55.6	70.0	94.5	141.2	235.7	401.4	598.5	734.1	763.3
100°	53.0	57.9	66.3	79.5	101.8	142.9	221.8	364.0	560.6	739.0	840.9
102.5°	65.3	69.6	77.4	90.1	111.3	148.5	217.8	338.9	513.2	697.2	837.0
105°	83.6	87.1	95.5	108.1	128.3	161.8	219.6	317.3	457.4	621.3	781.0
107.5°	102.2	105.7	114.6	126.6	146.6	177.3	230.0	313.3	426.1	559.9	701.3
110°	115.0	118.5	126.9	139.5	158.3	189.0	237.7	314.4	415.5	529.2	653.4



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	131.3	139.2	151.7	170.6	200.1	246.1	317.8	410.5	511.9	618.2
115°	145.7	150.6	157.6	170.9	189.7	217.6	259.4	324.2	407.9	495.7	582.9
117.5°	164.0	168.4	176.0	188.4	207.9	234.4	272.9	331.1	407.2	488.5	565.6
120°	175.7	180.6	188.2	200.1	219.6	246.1	282.4	336.1	407.2	484.6	557.8
122.5°	186.9	191.7	198.9	211.8	230.8	257.3	291.3	341.1	406.6	480.1	551.1
125°	202.9	207.1	214.7	228.0	247.5	272.6	304.7	348.7	405.8	472.7	539.7
127.5°	215.3	220.3	229.1	242.9	262.6	286.9	316.3	354.6	404.3	462.8	525.8
130°	223.1	228.7	239.2	252.4	272.6	296.3	323.5	359.1	403.7	456.7	514.6
132.5°	229.8	237.1	247.0	261.4	280.4	304.2	330.7	363.0	403.1	451.1	502.8
135°	240.6	247.5	259.4	274.0	292.1	315.1	340.3	368.8	402.3	442.7	486.7
137.5°	250.6	258.2	269.6	284.7	302.0	323.5	347.0	372.3	402.2	435.5	472.1
140°	257.3	264.9	276.8	291.4	308.2	329.1	351.4	375.1	401.6	431.6	463.7
142.5°	265.1	272.2	283.5	297.6	313.8	334.1	354.7	377.4	401.6	428.3	455.8
145°	276.1	283.1	292.8	306.1	321.5	339.6	358.4	378.6	400.2	422.5	444.9
147.5°	287.1	293.3	303.3	314.3	328.1	345.2	361.6	379.3	397.7	417.4	435.8
150°	295.0	300.5	308.9	319.3	332.6	347.9	363.3	379.3	396.0	413.5	430.2
152.5°	301.7	307.2	315.0	324.4	336.5	350.2	364.4	378.2	393.2	409.0	424.1
155°	312.4	316.6	323.5	331.2	341.6	353.5	365.3	376.5	389.1	402.3	414.8
157.5°	321.6	325.5	330.9	337.6	345.8	355.9	365.3	374.7	384.8	395.5	404.9
160°	327.7	330.5	335.4	341.0	348.7	357.0	365.3	373.0	381.4	390.5	398.9
162.5°	332.7	334.9	339.3	344.3	350.3	358.1	365.3	371.4	378.1	386.0	392.7
165°	339.6	341.0	344.5	347.9	352.1	358.4	364.0	368.2	373.0	378.6	384.1
167.5°	345.2	345.8	348.5	350.4	353.7	358.3	362.3	364.8	368.0	371.9	375.9
170°	347.9	348.7	350.7	352.1	354.2	357.7	361.1	362.6	364.6	367.5	371.0
172.5°	350.7	350.9	352.4	353.2	354.7	357.1	360.1	360.3	361.3	363.6	366.5
175°	353.5	353.5	354.2	354.9	354.9	356.3	358.4	357.7	357.7	359.1	360.5
177.5°	354.9	354.4	354.9	354.9	354.9	355.4	356.6	355.4	355.4	356.0	356.6
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	14.0	13.6	14.1	13.8	13.9	13.3	13.8
90°	13.3	13.9	13.9	14.6	15.3	14.6	14.6
92.5°	103.1	82.0	68.0	59.8	56.1	53.7	53.7
95°	408.6	315.1	247.5	213.4	191.7	179.2	170.1
97.5°	723.2	655.0	582.2	532.2	490.2	469.2	454.8
100°	854.8	820.6	769.1	708.4	665.8	645.0	639.4
102.5°	906.2	916.1	894.6	857.4	826.5	804.5	800.0
105°	901.5	970.5	999.2	1000.6	995.0	985.3	981.1
107.5°	829.7	926.9	989.1	1023.6	1039.5	1046.4	1048.2
110°	773.9	875.0	951.7	1001.2	1030.6	1043.1	1049.4



TEST NUMBER: P332969-940

CATALOG NUMBER: SA4XXRDIP-C1020D810U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	724.9	820.4	897.1	953.2	988.7	1006.3	1016.5
115°	668.7	750.2	817.2	872.3	914.1	936.4	942.0
117.5°	636.6	700.7	757.5	804.5	839.6	862.2	866.6
120°	622.7	678.4	727.9	767.7	798.3	816.5	824.1
122.5°	613.7	664.5	707.8	741.5	767.7	783.0	790.7
125°	599.7	647.7	686.1	714.0	734.2	747.4	751.6
127.5°	583.0	631.0	667.4	695.4	713.5	724.6	728.8
130°	569.6	617.1	654.0	682.6	700.1	711.2	715.4
132.5°	554.6	600.9	637.8	665.8	685.5	696.2	700.3
135°	532.0	574.5	609.4	637.3	656.8	668.0	672.2
137.5°	510.4	546.3	577.7	603.8	623.0	632.2	637.3
140°	496.4	527.8	557.1	581.5	596.8	606.6	612.2
142.5°	484.7	511.7	537.0	558.7	572.8	581.5	585.4
145°	468.6	489.5	509.0	526.5	538.2	545.3	548.8
147.5°	454.6	471.4	486.7	499.5	509.7	515.0	516.2
150°	446.2	460.2	472.7	483.9	492.9	497.1	497.8
152.5°	437.8	450.7	461.0	470.5	477.9	480.4	481.1
155°	426.1	436.5	444.9	451.8	457.4	459.5	459.5
157.5°	414.3	423.1	429.8	435.1	439.3	440.5	440.5
160°	406.5	414.2	419.7	423.9	428.1	428.8	428.8
162.5°	399.2	405.3	410.3	413.3	417.5	418.2	417.7
165°	388.3	393.2	396.7	399.5	402.3	401.6	400.9
167.5°	379.2	383.1	385.1	386.6	388.3	388.3	387.6
170°	373.0	375.9	377.9	379.3	380.0	379.3	379.3
172.5°	368.0	369.7	371.2	372.0	372.7	372.0	371.0
175°	361.1	362.6	362.6	362.6	364.0	362.6	361.1
177.5°	357.1	357.1	357.7	357.1	357.7	356.6	355.4
180°	354.9	354.9	354.9	354.9	354.9	354.9	354.9

(END OF REPORT)