

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: P331743-940

Luminaire Tested: **SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331743-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5241.2 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

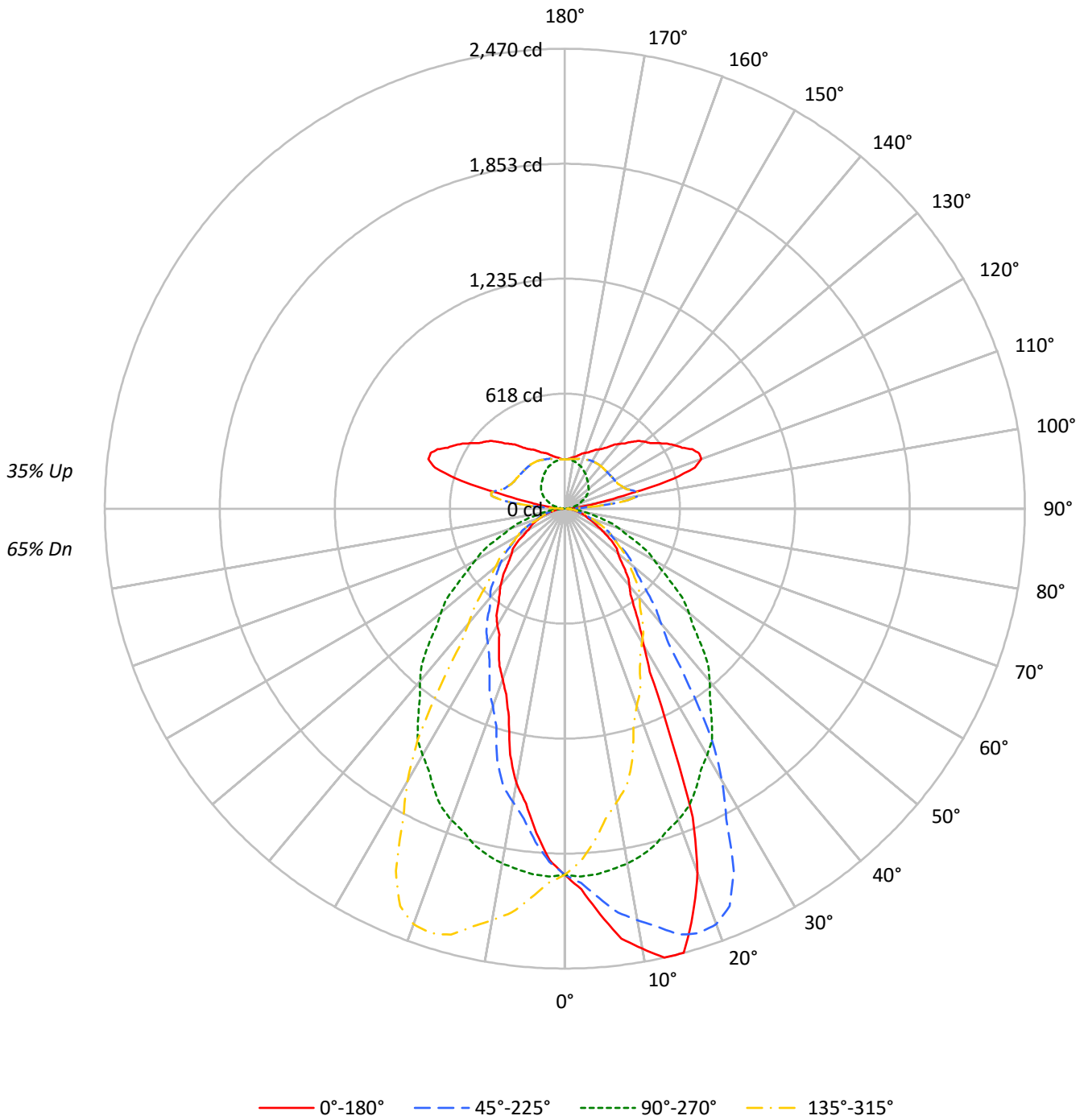
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	102	98	94	91	96	92	89	86	82	80	77	72	70	69	63	62	61	57
2	94	87	81	76	88	82	77	73	73	69	66	65	62	59	57	55	53	49
3	86	77	70	65	81	73	67	62	65	61	57	58	55	51	52	49	46	43
4	80	69	62	56	75	66	59	54	59	54	49	53	49	45	47	44	41	38
5	74	63	55	49	69	59	52	47	54	48	44	48	44	40	43	39	37	34
6	68	57	49	43	64	54	47	42	49	43	39	44	39	36	39	36	33	30
7	64	52	44	39	60	49	42	37	45	39	35	40	36	32	36	33	30	27
8	59	47	40	35	56	45	38	34	41	36	31	37	33	29	34	30	27	25
9	56	44	36	32	52	42	35	31	38	33	29	35	30	27	31	28	25	23
10	52	40	33	29	49	39	32	28	35	30	26	32	28	25	29	26	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	31752	31752	31752	31752
5°	35462	31951	28329	31951
10°	39346	31727	24556	31727
15°	41279	31263	19348	31263
20°	35787	30574	16744	30574
25°	23469	29630	14949	29630
30°	15797	28486	13530	28486
35°	12796	27045	12203	27045
40°	11377	25478	11291	25478
45°	10298	23640	10079	23640
50°	9372	21815	9339	21815
55°	8811	19792	8695	19792
60°	7369	17938	7282	17938
65°	6212	16290	7049	16290
70°	5740	14549	6647	14549
75°	5371	12664	6138	12664
80°	4956	10423	5467	10423
85°	4557	8225	4798	8225



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	3.6
10°-20°	519.5	9.9
20°-30°	669.4	12.8
30°-40°	636.1	12.1
40°-50°	544.9	10.4
50°-60°	415.0	7.9
60°-70°	262.3	5.0
70°-80°	131.0	2.5
80°-90°	36.5	0.7
90°-100°	105.7	2.0
100°-110°	358.8	6.8
110°-120°	381.2	7.3
120°-130°	313.8	6.0
130°-140°	252.0	4.8
140°-150°	190.4	3.6
150°-160°	133.8	2.6
160°-170°	78.8	1.5
170°-180°	25.6	0.5
0°-30°	1375.3	26.2
0°-40°	2011.4	38.4
0°-60°	2971.3	56.7
0°-90°	3401.1	64.9
90°-120°	845.7	16.1
90°-150°	1601.9	30.6
90°-180°	1840.0	35.1
0°-180°	5241.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2188	1971	1748	1971	2188	216
15°	2470	1870	1158	1870	2470	666
25°	1317	1663	839	1663	1317	625
35°	649	1372	619	1372	649	415
45°	451	1035	441	1035	451	349
55°	313	703	309	703	313	275
65°	163	426	184	426	163	166
75°	86	203	98	203	86	91
85°	25	44	26	44	25	27
90°	17	0	17	0	17	10
95°	58	18	58	18	58	75
105°	573	62	573	62	573	555
115°	754	109	754	109	754	738
125°	612	153	612	153	612	553
135°	507	179	507	179	507	394
145°	405	204	405	204	405	257
155°	340	232	340	232	340	159
165°	298	253	298	253	298	85
175°	269	264	269	264	269	26
180°	264	264	264	264	264	



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2046.4	2048.1	2049.7	2045.9	2045.9	2042.6	2035.5	2030.0	2014.7	2012.5	2012.5
5°	2188.0	2186.7	2189.3	2180.5	2168.2	2165.4	2152.5	2135.4	2117.6	2097.8	2093.7
7.5°	2328.8	2326.7	2321.2	2319.8	2310.3	2289.6	2268.8	2246.5	2217.0	2188.2	2173.6
10°	2399.9	2422.4	2408.7	2384.8	2389.6	2357.5	2340.4	2311.0	2286.4	2243.4	2233.8
12.5°	2469.8	2478.7	2474.3	2460.8	2454.6	2432.3	2409.2	2383.7	2338.3	2299.6	2266.0
15°	2469.5	2482.5	2485.9	2481.8	2485.3	2483.9	2471.6	2450.4	2410.7	2368.4	2331.5
17.5°	2287.2	2296.2	2318.6	2333.8	2353.0	2393.4	2413.3	2421.2	2415.3	2391.1	2365.1
20°	2082.8	2067.7	2130.6	2162.8	2190.0	2258.3	2317.1	2339.7	2375.9	2375.3	2368.4
22.5°	1793.1	1796.6	1856.2	1894.4	1974.2	2042.5	2109.4	2194.3	2264.4	2310.7	2337.8
25°	1317.4	1343.5	1402.8	1454.8	1543.6	1670.7	1786.2	1920.1	2046.6	2146.3	2241.3
27.5°	989.4	991.4	1038.5	1086.5	1139.2	1243.4	1388.8	1548.7	1728.9	1877.7	2048.7
30°	847.3	843.2	863.0	892.4	937.5	1018.2	1127.5	1284.7	1464.4	1688.5	1888.0
32.5°	746.7	747.0	761.9	783.6	821.1	875.5	950.4	1078.0	1247.9	1468.2	1702.2
35°	649.2	648.5	659.4	675.1	690.8	725.7	776.9	843.9	960.7	1166.4	1405.6
37.5°	579.2	582.2	587.5	597.4	614.7	634.1	664.9	709.8	793.1	914.7	1115.7
40°	539.8	541.2	548.7	556.9	567.1	582.2	607.4	643.7	704.5	801.6	948.4
42.5°	503.7	505.2	510.4	518.1	526.2	541.2	562.1	593.4	642.7	718.5	839.6
45°	451.0	451.0	455.8	459.2	468.1	481.7	498.8	524.8	558.9	615.0	695.6
47.5°	401.5	401.6	404.8	410.7	416.3	427.0	443.7	464.9	489.8	533.2	602.0
50°	373.1	373.8	375.9	380.6	384.1	393.6	406.6	425.0	451.0	484.5	541.9
52.5°	350.2	349.7	352.3	354.4	356.7	363.6	373.3	389.5	412.7	441.8	489.4
55°	313.0	310.2	314.3	317.7	319.8	322.5	328.0	338.2	358.0	382.6	418.2
57.5°	266.5	265.4	268.3	271.4	277.9	285.3	289.9	296.4	306.7	324.3	359.5
60°	228.2	228.2	234.3	236.4	244.0	253.5	263.1	268.6	278.8	290.4	316.4
62.5°	194.3	194.9	197.8	199.8	204.0	215.8	229.2	241.2	250.9	262.0	279.2
65°	162.6	164.0	164.0	165.3	168.1	170.9	176.3	185.8	203.0	218.6	231.7
67.5°	138.0	138.5	138.8	140.2	140.9	143.9	146.1	150.3	154.3	169.2	185.3
70°	121.6	123.7	123.0	124.4	125.0	126.4	129.1	131.2	137.3	140.8	150.3
72.5°	106.3	107.8	107.7	108.5	110.3	110.6	112.7	114.8	118.8	121.6	126.8
75°	86.1	85.4	86.1	87.5	88.2	88.8	88.8	91.6	93.6	96.3	99.8
77.5°	66.4	67.1	67.0	67.1	67.2	68.5	68.3	69.6	71.6	72.9	74.6
80°	53.3	53.9	53.3	53.9	54.7	55.4	54.7	55.4	57.4	58.8	58.8
82.5°	41.3	41.4	41.8	42.0	42.1	42.3	43.2	43.3	44.9	44.6	45.1
85°	24.6	23.9	23.9	23.9	24.6	25.3	24.6	24.6	25.3	25.3	25.3
87.5°	12.1	12.7	12.7	12.7	12.7	12.6	12.3	13.1	12.7	13.3	12.7
90°	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2	16.8	17.3	16.8
92.5°	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3	55.8	66.1	65.2
95°	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2	174.4	199.4	176.5
97.5°	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9	357.0	340.3	256.3
100°	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3	474.9	401.7	276.6
102.5°	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8	518.9	403.8	268.9
105°	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9	512.1	376.8	253.8
107.5°	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6	467.4	347.9	246.2
110°	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7	439.3	334.1	244.6



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6	419.8	325.1	245.0
115°	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6	395.7	315.3	247.2
117.5°	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7	380.4	310.5	250.8
120°	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8	372.3	307.6	253.2
122.5°	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9	365.3	306.0	256.1
125°	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9	355.4	303.1	260.4
127.5°	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1	346.3	301.4	264.7
130°	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0	340.2	300.5	268.0
132.5°	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2	335.3	300.1	271.3
135°	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6	328.5	299.5	275.1
137.5°	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7	323.7	299.4	278.6
140°	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8	320.9	299.0	280.2
142.5°	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0	318.1	299.0	281.4
145°	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0	314.2	298.0	282.8
147.5°	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9	310.4	296.1	283.1
150°	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3	307.2	295.0	282.8
152.5°	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9	304.3	292.9	282.0
155°	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7	299.0	289.4	280.7
157.5°	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5	294.0	285.7	278.4
160°	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9	290.3	283.3	277.1
162.5°	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5	287.1	281.2	275.9
165°	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8	281.7	277.1	273.6
167.5°	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4	276.4	273.6	271.3
170°	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2	273.6	271.5	270.0
172.5°	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5	270.7	269.1	268.4
175°	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5	267.0	266.4	266.0
177.5°	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6	264.8	264.4	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2013.7	2009.2	2005.5	1995.6	1990.7	1979.7	1978.1	1977.5	1963.4	1949.6	1945.8
5°	2082.8	2071.8	2055.5	2036.3	2016.5	1996.0	1982.4	1971.4	1944.0	1918.1	1903.1
7.5°	2152.5	2129.0	2100.7	2064.5	2034.3	2000.4	1975.2	1952.7	1913.9	1876.7	1851.6
10°	2204.4	2166.1	2128.5	2078.7	2039.7	2001.4	1966.0	1935.2	1891.4	1842.3	1807.4
12.5°	2236.7	2194.6	2142.8	2094.0	2043.5	1994.9	1947.3	1907.8	1856.5	1805.6	1764.2
15°	2280.3	2235.2	2172.3	2102.6	2037.6	1974.2	1919.5	1870.3	1803.3	1742.5	1691.9
17.5°	2316.0	2253.9	2186.4	2105.8	2030.6	1949.8	1879.5	1816.6	1742.0	1668.7	1609.1
20°	2327.4	2265.9	2188.0	2107.4	2018.6	1923.6	1847.7	1779.4	1699.4	1619.4	1551.1
22.5°	2320.3	2272.4	2185.9	2089.4	1998.3	1899.0	1813.3	1734.0	1645.3	1563.7	1484.4
25°	2272.1	2255.7	2173.6	2068.4	1964.5	1849.1	1750.0	1663.2	1562.1	1474.6	1388.5
27.5°	2159.5	2194.9	2144.1	2032.0	1916.6	1792.8	1681.4	1582.6	1477.7	1379.2	1293.4
30°	2051.4	2132.6	2110.8	2006.9	1877.8	1756.1	1631.1	1527.9	1415.9	1314.7	1230.0
32.5°	1903.2	2037.6	2058.9	1971.9	1838.4	1704.8	1573.7	1471.1	1354.1	1247.5	1164.9
35°	1667.3	1868.2	1960.4	1905.1	1771.2	1627.0	1491.7	1372.1	1254.5	1149.3	1067.4
37.5°	1385.9	1659.6	1813.3	1817.2	1694.3	1544.4	1397.0	1278.3	1158.0	1054.6	966.0
40°	1203.4	1499.9	1700.1	1744.5	1640.7	1478.7	1329.7	1208.8	1091.3	990.2	888.3
42.5°	1039.4	1334.8	1580.9	1658.1	1575.7	1414.8	1265.2	1138.8	1024.6	928.9	824.9
45°	840.5	1098.8	1370.0	1508.1	1462.3	1313.3	1155.5	1035.3	927.9	845.3	745.5
47.5°	709.0	891.1	1153.6	1340.2	1339.4	1203.5	1048.2	933.0	833.5	756.0	675.3
50°	634.1	792.6	1014.8	1226.5	1244.3	1130.2	982.6	868.5	775.6	694.3	629.4
52.5°	566.9	697.5	897.2	1100.3	1150.8	1052.0	908.8	803.4	713.3	638.5	582.9
55°	479.0	580.1	731.8	921.8	998.4	928.6	801.6	703.1	630.0	567.1	519.3
57.5°	405.2	481.1	602.8	755.7	844.9	801.0	696.2	616.3	553.7	496.8	459.1
60°	358.7	420.9	524.1	651.9	750.3	719.5	630.0	555.5	502.2	453.1	417.5
62.5°	315.0	368.5	456.9	560.6	650.8	638.1	565.0	502.5	455.8	411.0	380.8
65°	253.5	292.5	361.5	442.8	515.2	521.4	468.8	426.4	384.7	349.2	322.5
67.5°	201.9	227.3	275.9	344.4	398.7	418.0	385.9	353.6	320.5	293.0	269.9
70°	170.1	190.6	226.1	281.5	331.4	351.9	333.5	308.2	279.5	256.9	237.1
72.5°	137.9	157.8	184.0	224.7	267.4	289.6	283.2	265.0	241.7	223.0	204.3
75°	103.9	110.0	127.8	155.2	188.6	207.8	212.5	203.0	184.5	170.1	159.2
77.5°	76.8	80.5	89.0	103.3	125.2	142.2	149.3	148.1	135.5	127.1	116.8
80°	61.5	63.6	67.7	73.8	90.2	107.3	112.1	112.1	103.2	99.8	89.5
82.5°	46.7	48.2	50.7	54.1	61.8	76.7	82.0	83.1	77.5	72.9	64.9
85°	26.7	25.9	27.4	29.4	30.8	34.9	43.1	44.4	43.1	37.5	35.5
87.5°	12.0	11.9	11.3	10.5	10.9	11.2	13.6	16.0	14.1	12.8	11.9
90°	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5	2.1	4.1	5.1
92.5°	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2	8.9	12.6	14.9
95°	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8	19.8	24.9	29.5
97.5°	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0	31.7	37.1	44.1
100°	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1	40.7	45.3	53.4
102.5°	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5	49.7	54.2	62.3
105°	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1	64.1	67.6	75.3
107.5°	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7	78.3	81.8	88.8
110°	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4	88.5	91.6	98.2





TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4	97.5	100.9	107.1
115°	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3	111.9	114.9	121.0
117.5°	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8	125.8	128.9	134.3
120°	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7	134.7	137.8	142.4
122.5°	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2	142.9	146.0	151.0
125°	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6	154.1	157.1	163.3
127.5°	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5	163.5	167.8	174.5
130°	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8	168.8	173.9	181.0
132.5°	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7	174.2	179.6	187.2
135°	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0	181.0	187.2	194.7
137.5°	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9	188.3	194.5	202.6
140°	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2	193.2	199.4	207.5
142.5°	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5	198.1	203.8	212.0
145°	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5	206.4	211.5	219.2
147.5°	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9	214.5	219.4	226.4
150°	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6	220.2	224.3	230.9
152.5°	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4	225.1	229.2	235.0
155°	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4	232.9	235.9	241.6
157.5°	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1	239.6	242.1	246.9
160°	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6	244.1	246.1	250.2
162.5°	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1	247.7	249.8	253.1
165°	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2	252.7	253.8	256.8
167.5°	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5	256.9	257.8	259.8
170°	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4	259.3	259.8	261.4
172.5°	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0	261.4	261.1	262.6
175°	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9	263.4	262.9	263.9
177.5°	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8	264.0	263.6	264.4
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1938.8	1934.9	1927.8	1916.8	1910.3	1898.8	1891.1	1895.5	1896.7	1895.5	1894.4
5°	1886.7	1872.3	1852.5	1833.4	1815.6	1796.4	1785.6	1780.7	1771.2	1765.7	1763.0
7.5°	1823.6	1798.9	1770.9	1737.6	1709.2	1679.6	1664.5	1656.9	1637.4	1626.7	1617.4
10°	1776.6	1737.7	1709.7	1666.0	1639.3	1600.4	1573.7	1574.4	1547.7	1532.7	1521.8
12.5°	1724.7	1681.9	1635.3	1596.0	1559.0	1527.7	1495.5	1482.6	1454.3	1439.8	1410.2
15°	1638.6	1588.8	1539.5	1486.2	1448.7	1400.2	1353.7	1297.0	1251.2	1211.6	1200.6
17.5°	1544.6	1482.8	1433.5	1370.9	1306.5	1224.9	1171.1	1138.2	1110.5	1089.7	1074.1
20°	1480.1	1417.2	1364.6	1270.3	1183.5	1128.2	1088.5	1063.3	1034.6	1012.0	999.7
22.5°	1412.3	1346.7	1275.0	1169.7	1102.1	1057.7	1022.3	993.3	973.8	956.3	945.0
25°	1316.1	1244.3	1126.1	1053.6	999.0	952.5	927.9	910.2	889.7	865.8	854.9
27.5°	1214.4	1100.3	1015.4	961.5	909.4	879.1	857.0	830.5	812.2	801.4	790.1
30°	1138.4	1024.3	958.1	899.3	862.4	828.8	802.9	787.9	770.1	751.6	744.1
32.5°	1053.6	962.5	899.0	850.1	812.6	784.1	763.6	739.2	726.4	715.1	699.3
35°	948.4	879.4	821.4	781.8	746.2	723.0	699.0	684.7	661.5	651.9	645.8
37.5°	859.3	799.5	756.2	714.3	686.2	660.5	645.9	623.0	613.0	599.7	586.7
40°	809.0	750.3	708.6	674.4	643.0	623.8	605.4	587.0	571.9	565.8	550.1
42.5°	757.7	709.8	668.2	630.7	609.7	589.4	566.1	552.5	537.0	527.0	517.3
45°	686.7	644.4	608.9	578.1	554.8	533.7	518.6	496.1	487.2	467.4	459.2
47.5°	624.5	585.1	551.2	521.9	499.3	485.4	463.4	445.8	431.6	419.5	408.9
50°	580.1	547.3	514.5	488.6	468.1	448.3	425.7	416.8	394.9	388.8	382.6
52.5°	539.7	508.5	478.5	453.1	432.6	413.3	393.4	381.8	367.1	361.0	356.4
55°	483.1	453.1	424.4	401.8	381.3	361.5	349.2	334.8	328.0	323.2	317.7
57.5°	426.2	399.2	377.2	354.4	333.8	318.0	303.8	295.2	288.1	281.8	275.3
60°	390.2	364.2	344.4	323.2	302.0	289.0	278.1	267.9	259.7	250.1	247.4
62.5°	351.9	329.2	311.0	290.4	272.0	260.1	249.7	240.0	230.2	216.2	212.4
65°	299.3	281.5	262.4	245.3	228.9	217.3	202.2	191.4	187.3	185.8	185.2
67.5°	251.7	235.0	218.6	201.0	186.1	175.3	167.7	166.0	163.2	162.4	160.4
70°	220.1	204.3	187.9	171.5	157.2	155.2	152.4	149.6	146.2	144.9	143.5
72.5°	191.6	175.3	158.9	145.8	139.6	137.1	134.4	131.6	129.3	128.0	127.1
75°	147.0	131.9	120.9	116.2	112.7	110.7	106.6	104.5	103.2	101.1	100.4
77.5°	105.8	97.3	92.3	89.3	85.7	83.5	81.1	79.1	77.7	77.2	76.2
80°	80.6	76.5	73.1	69.0	67.7	64.9	64.2	62.2	62.9	60.8	60.8
82.5°	62.6	57.4	54.6	52.6	51.3	49.0	48.4	47.4	47.5	46.0	46.0
85°	32.1	30.8	29.4	28.0	28.0	25.9	26.7	25.9	25.9	24.6	23.9
87.5°	11.6	11.3	10.8	11.5	12.1	11.7	11.6	10.9	10.7	10.9	10.4
90°	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2	15.2	16.2	16.8
92.5°	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3	38.1	33.8	30.6
95°	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2	102.2	80.9	69.6
97.5°	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9	254.4	199.4	162.6
100°	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3	401.3	331.5	270.0
102.5°	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8	550.5	499.6	434.4
105°	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9	675.3	682.0	665.1
107.5°	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6	666.2	719.1	743.7
110°	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7	637.7	702.8	744.5



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6	604.0	673.5	721.3
115°	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6	557.9	624.5	676.9
117.5°	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7	520.4	580.9	630.0
120°	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8	500.9	554.8	601.1
122.5°	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9	484.6	535.7	577.5
125°	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9	463.2	508.0	546.2
127.5°	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1	442.6	484.7	520.0
130°	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0	428.7	468.9	502.4
132.5°	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2	415.7	452.6	484.1
135°	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6	395.1	428.7	457.2
137.5°	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7	378.8	405.4	430.3
140°	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8	368.2	391.6	413.9
142.5°	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0	358.8	379.0	397.7
145°	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0	346.8	362.6	377.4
147.5°	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9	337.1	349.4	360.2
150°	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3	330.6	341.3	350.4
152.5°	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9	325.3	334.3	342.2
155°	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7	316.8	324.4	330.0
157.5°	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5	308.3	314.7	319.1
160°	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9	302.6	308.2	311.7
162.5°	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5	297.3	302.1	304.8
165°	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8	289.4	292.9	295.0
167.5°	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4	282.1	284.5	286.4
170°	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2	277.7	279.7	280.7
172.5°	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5	273.6	275.2	275.8
175°	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5	269.0	269.6	270.0
177.5°	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6	265.6	266.1	266.1
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1888.5	1889.5	1887.9	1889.0	1887.9	1889.5	1888.5	1894.4	1895.5	1896.7	1895.5
5°	1759.5	1751.3	1750.0	1747.9	1750.0	1751.3	1759.5	1763.0	1765.7	1771.2	1780.7
7.5°	1605.7	1604.5	1601.1	1596.3	1601.1	1604.5	1605.7	1617.4	1626.7	1637.4	1656.9
10°	1506.7	1503.3	1502.6	1497.8	1502.6	1503.3	1506.7	1521.8	1532.7	1547.7	1574.4
12.5°	1390.8	1368.9	1366.5	1354.6	1366.5	1368.9	1390.8	1410.2	1439.8	1454.3	1482.6
15°	1184.2	1180.1	1166.4	1157.5	1166.4	1180.1	1184.2	1200.6	1211.6	1251.2	1297.0
17.5°	1066.1	1052.8	1048.5	1046.6	1048.5	1052.8	1066.1	1074.1	1089.7	1110.5	1138.2
20°	990.2	977.9	975.8	974.5	975.8	977.9	990.2	999.7	1012.0	1034.6	1063.3
22.5°	937.6	924.8	919.4	915.3	919.4	924.8	937.6	945.0	956.3	973.8	993.3
25°	848.0	843.2	840.5	839.1	840.5	843.2	848.0	854.9	865.8	889.7	910.2
27.5°	777.9	767.4	765.4	761.8	765.4	767.4	777.9	790.1	801.4	812.2	830.5
30°	738.0	734.6	729.8	725.7	729.8	734.6	738.0	744.1	751.6	770.1	787.9
32.5°	691.0	688.1	683.9	682.0	683.9	688.1	691.0	699.3	715.1	726.4	739.2
35°	638.9	629.4	625.3	619.1	625.3	629.4	638.9	645.8	651.9	661.5	684.7
37.5°	583.8	578.8	573.0	575.1	573.0	578.8	583.8	586.7	599.7	613.0	623.0
40°	541.2	537.8	536.5	535.7	536.5	537.8	541.2	550.1	565.8	571.9	587.0
42.5°	507.3	497.8	494.3	494.2	494.3	497.8	507.3	517.3	527.0	537.0	552.5
45°	455.8	446.9	440.8	441.4	440.8	446.9	455.8	459.2	467.4	487.2	496.1
47.5°	403.1	402.8	399.0	400.1	399.0	402.8	403.1	408.9	419.5	431.6	445.8
50°	377.9	373.8	371.0	371.8	371.0	373.8	377.9	382.6	388.8	394.9	416.8
52.5°	353.8	350.3	348.1	351.0	348.1	350.3	353.8	356.4	361.0	367.1	381.8
55°	314.3	310.2	309.5	308.9	309.5	310.2	314.3	317.7	323.2	328.0	334.8
57.5°	270.2	267.4	263.3	261.5	263.3	267.4	270.2	275.3	281.8	288.1	295.2
60°	238.4	233.0	226.1	225.5	226.1	233.0	238.4	247.4	250.1	259.7	267.9
62.5°	209.5	208.4	207.1	206.9	207.1	208.4	209.5	212.4	216.2	230.2	240.0
65°	183.8	183.2	183.8	184.5	183.8	183.2	183.8	185.2	185.8	187.3	191.4
67.5°	160.2	158.9	157.7	158.3	157.7	158.9	160.2	160.4	162.4	163.2	166.0
70°	142.1	141.4	140.8	140.8	140.8	141.4	142.1	143.5	144.9	146.2	149.6
72.5°	124.7	124.5	123.9	123.2	123.9	124.5	124.7	127.1	128.0	129.3	131.6
75°	99.8	98.4	98.4	98.4	98.4	98.4	99.8	100.4	101.1	103.2	104.5
77.5°	76.0	75.3	74.6	74.1	74.6	75.3	76.0	76.2	77.2	77.7	79.1
80°	60.1	59.5	58.8	58.8	58.8	59.5	60.1	60.8	60.8	62.9	62.2
82.5°	45.9	45.2	45.1	44.6	45.1	45.2	45.9	46.0	46.0	47.5	47.4
85°	24.6	25.3	24.6	25.9	24.6	25.3	24.6	23.9	24.6	25.9	25.9
87.5°	10.4	9.9	10.4	9.9	10.4	9.9	10.4	10.4	10.9	10.7	10.9
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2
92.5°	30.2	28.6	29.0	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3
95°	63.0	59.0	57.4	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2
97.5°	138.3	125.8	118.4	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9
100°	227.8	206.0	191.2	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3
102.5°	388.5	351.2	332.8	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8
105°	633.6	602.1	580.2	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9
107.5°	747.6	745.9	741.5	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6
110°	766.3	776.1	780.6	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	751.7	767.9	776.5	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6
115°	712.9	736.4	749.6	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6
117.5°	666.8	691.5	705.4	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7
120°	636.7	660.6	675.3	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8
122.5°	609.4	632.9	646.0	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9
125°	575.7	594.9	607.7	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9
127.5°	545.6	563.7	574.7	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1
130°	527.4	544.7	554.8	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0
132.5°	508.6	525.9	535.3	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2
135°	479.0	495.8	505.0	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6
137.5°	450.1	464.6	472.6	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7
140°	430.3	443.4	451.0	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8
142.5°	413.1	425.2	431.9	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0
145°	389.5	398.1	403.2	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0
147.5°	370.2	377.1	380.6	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9
150°	358.0	364.1	367.1	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3
152.5°	348.2	353.6	355.8	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9
155°	335.6	339.2	341.3	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7
157.5°	323.0	326.0	326.9	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5
160°	315.3	317.8	318.3	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9
162.5°	308.4	310.1	310.6	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5
165°	296.9	299.0	299.0	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8
167.5°	287.3	288.5	288.4	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4
170°	281.2	282.8	282.2	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2
172.5°	276.3	277.1	276.5	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5
175°	270.0	270.5	270.0	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5
177.5°	266.1	266.1	265.6	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1891.1	1898.8	1910.3	1916.8	1927.8	1934.9	1938.8	1945.8	1949.6	1963.4	1977.5
5°	1785.6	1796.4	1815.6	1833.4	1852.5	1872.3	1886.7	1903.1	1918.1	1944.0	1971.4
7.5°	1664.5	1679.6	1709.2	1737.6	1770.9	1798.9	1823.6	1851.6	1876.7	1913.9	1952.7
10°	1573.7	1600.4	1639.3	1666.0	1709.7	1737.7	1776.6	1807.4	1842.3	1891.4	1935.2
12.5°	1495.5	1527.7	1559.0	1596.0	1635.3	1681.9	1724.7	1764.2	1805.6	1856.5	1907.8
15°	1353.7	1400.2	1448.7	1486.2	1539.5	1588.8	1638.6	1691.9	1742.5	1803.3	1870.3
17.5°	1171.1	1224.9	1306.5	1370.9	1433.5	1482.8	1544.6	1609.1	1668.7	1742.0	1816.6
20°	1088.5	1128.2	1183.5	1270.3	1364.6	1417.2	1480.1	1551.1	1619.4	1699.4	1779.4
22.5°	1022.3	1057.7	1102.1	1169.7	1275.0	1346.7	1412.3	1484.4	1563.7	1645.3	1734.0
25°	927.9	952.5	999.0	1053.6	1126.1	1244.3	1316.1	1388.5	1474.6	1562.1	1663.2
27.5°	857.0	879.1	909.4	961.5	1015.4	1100.3	1214.4	1293.4	1379.2	1477.7	1582.6
30°	802.9	828.8	862.4	899.3	958.1	1024.3	1138.4	1230.0	1314.7	1415.9	1527.9
32.5°	763.6	784.1	812.6	850.1	899.0	962.5	1053.6	1164.9	1247.5	1354.1	1471.1
35°	699.0	723.0	746.2	781.8	821.4	879.4	948.4	1067.4	1149.3	1254.5	1372.1
37.5°	645.9	660.5	686.2	714.3	756.2	799.5	859.3	966.0	1054.6	1158.0	1278.3
40°	605.4	623.8	643.0	674.4	708.6	750.3	809.0	888.3	990.2	1091.3	1208.8
42.5°	566.1	589.4	609.7	630.7	668.2	709.8	757.7	824.9	928.9	1024.6	1138.8
45°	518.6	533.7	554.8	578.1	608.9	644.4	686.7	745.5	845.3	927.9	1035.3
47.5°	463.4	485.4	499.3	521.9	551.2	585.1	624.5	675.3	756.0	833.5	933.0
50°	425.7	448.3	468.1	488.6	514.5	547.3	580.1	629.4	694.3	775.6	868.5
52.5°	393.4	413.3	432.6	453.1	478.5	508.5	539.7	582.9	638.5	713.3	803.4
55°	349.2	361.5	381.3	401.8	424.4	453.1	483.1	519.3	567.1	630.0	703.1
57.5°	303.8	318.0	333.8	354.4	377.2	399.2	426.2	459.1	496.8	553.7	616.3
60°	278.1	289.0	302.0	323.2	344.4	364.2	390.2	417.5	453.1	502.2	555.5
62.5°	249.7	260.1	272.0	290.4	311.0	329.2	351.9	380.8	411.0	455.8	502.5
65°	202.2	217.3	228.9	245.3	262.4	281.5	299.3	322.5	349.2	384.7	426.4
67.5°	167.7	175.3	186.1	201.0	218.6	235.0	251.7	269.9	293.0	320.5	353.6
70°	152.4	155.2	157.2	171.5	187.9	204.3	220.1	237.1	256.9	279.5	308.2
72.5°	134.4	137.1	139.6	145.8	158.9	175.3	191.6	204.3	223.0	241.7	265.0
75°	106.6	110.7	112.7	116.2	120.9	131.9	147.0	159.2	170.1	184.5	203.0
77.5°	81.1	83.5	85.7	89.3	92.3	97.3	105.8	116.8	127.1	135.5	148.1
80°	64.2	64.9	67.7	69.0	73.1	76.5	80.6	89.5	99.8	103.2	112.1
82.5°	48.4	49.0	51.3	52.6	54.6	57.4	62.6	64.9	72.9	77.5	83.1
85°	26.7	25.9	28.0	28.0	29.4	30.8	32.1	35.5	37.5	43.1	44.4
87.5°	11.6	11.7	12.1	11.5	10.8	11.3	11.6	11.9	12.8	14.1	16.0
90°	16.8	17.3	16.8	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5
92.5°	55.8	66.1	65.2	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2
95°	174.4	199.4	176.5	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8
97.5°	357.0	340.3	256.3	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0
100°	474.9	401.7	276.6	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1
102.5°	518.9	403.8	268.9	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5
105°	512.1	376.8	253.8	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1
107.5°	467.4	347.9	246.2	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7
110°	439.3	334.1	244.6	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	419.8	325.1	245.0	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4
115°	395.7	315.3	247.2	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3
117.5°	380.4	310.5	250.8	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8
120°	372.3	307.6	253.2	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7
122.5°	365.3	306.0	256.1	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2
125°	355.4	303.1	260.4	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6
127.5°	346.3	301.4	264.7	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5
130°	340.2	300.5	268.0	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8
132.5°	335.3	300.1	271.3	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7
135°	328.5	299.5	275.1	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0
137.5°	323.7	299.4	278.6	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9
140°	320.9	299.0	280.2	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2
142.5°	318.1	299.0	281.4	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5
145°	314.2	298.0	282.8	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5
147.5°	310.4	296.1	283.1	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9
150°	307.2	295.0	282.8	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6
152.5°	304.3	292.9	282.0	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4
155°	299.0	289.4	280.7	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4
157.5°	294.0	285.7	278.4	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1
160°	290.3	283.3	277.1	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6
162.5°	287.1	281.2	275.9	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1
165°	281.7	277.1	273.6	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2
167.5°	276.4	273.6	271.3	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5
170°	273.6	271.5	270.0	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4
172.5°	270.7	269.1	268.4	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0
175°	267.0	266.4	266.0	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9
177.5°	264.8	264.4	264.8	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1978.1	1979.7	1990.7	1995.6	2005.5	2009.2	2013.7	2012.5	2012.5	2014.7	2030.0
5°	1982.4	1996.0	2016.5	2036.3	2055.5	2071.8	2082.8	2093.7	2097.8	2117.6	2135.4
7.5°	1975.2	2000.4	2034.3	2064.5	2100.7	2129.0	2152.5	2173.6	2188.2	2217.0	2246.5
10°	1966.0	2001.4	2039.7	2078.7	2128.5	2166.1	2204.4	2233.8	2243.4	2286.4	2311.0
12.5°	1947.3	1994.9	2043.5	2094.0	2142.8	2194.6	2236.7	2266.0	2299.6	2338.3	2383.7
15°	1919.5	1974.2	2037.6	2102.6	2172.3	2235.2	2280.3	2331.5	2368.4	2410.7	2450.4
17.5°	1879.5	1949.8	2030.6	2105.8	2186.4	2253.9	2316.0	2365.1	2391.1	2415.3	2421.2
20°	1847.7	1923.6	2018.6	2107.4	2188.0	2265.9	2327.4	2368.4	2375.3	2375.9	2339.7
22.5°	1813.3	1899.0	1998.3	2089.4	2185.9	2272.4	2320.3	2337.8	2310.7	2264.4	2194.3
25°	1750.0	1849.1	1964.5	2068.4	2173.6	2255.7	2272.1	2241.3	2146.3	2046.6	1920.1
27.5°	1681.4	1792.8	1916.6	2032.0	2144.1	2194.9	2159.5	2048.7	1877.7	1728.9	1548.7
30°	1631.1	1756.1	1877.8	2006.9	2110.8	2132.6	2051.4	1888.0	1688.5	1464.4	1284.7
32.5°	1573.7	1704.8	1838.4	1971.9	2058.9	2037.6	1903.2	1702.2	1468.2	1247.9	1078.0
35°	1491.7	1627.0	1771.2	1905.1	1960.4	1868.2	1667.3	1405.6	1166.4	960.7	843.9
37.5°	1397.0	1544.4	1694.3	1817.2	1813.3	1659.6	1385.9	1115.7	914.7	793.1	709.8
40°	1329.7	1478.7	1640.7	1744.5	1700.1	1499.9	1203.4	948.4	801.6	704.5	643.7
42.5°	1265.2	1414.8	1575.7	1658.1	1580.9	1334.8	1039.4	839.6	718.5	642.7	593.4
45°	1155.5	1313.3	1462.3	1508.1	1370.0	1098.8	840.5	695.6	615.0	558.9	524.8
47.5°	1048.2	1203.5	1339.4	1340.2	1153.6	891.1	709.0	602.0	533.2	489.8	464.9
50°	982.6	1130.2	1244.3	1226.5	1014.8	792.6	634.1	541.9	484.5	451.0	425.0
52.5°	908.8	1052.0	1150.8	1100.3	897.2	697.5	566.9	489.4	441.8	412.7	389.5
55°	801.6	928.6	998.4	921.8	731.8	580.1	479.0	418.2	382.6	358.0	338.2
57.5°	696.2	801.0	844.9	755.7	602.8	481.1	405.2	359.5	324.3	306.7	296.4
60°	630.0	719.5	750.3	651.9	524.1	420.9	358.7	316.4	290.4	278.8	268.6
62.5°	565.0	638.1	650.8	560.6	456.9	368.5	315.0	279.2	262.0	250.9	241.2
65°	468.8	521.4	515.2	442.8	361.5	292.5	253.5	231.7	218.6	203.0	185.8
67.5°	385.9	418.0	398.7	344.4	275.9	227.3	201.9	185.3	169.2	154.3	150.3
70°	333.5	351.9	331.4	281.5	226.1	190.6	170.1	150.3	140.8	137.3	131.2
72.5°	283.2	289.6	267.4	224.7	184.0	157.8	137.9	126.8	121.6	118.8	114.8
75°	212.5	207.8	188.6	155.2	127.8	110.0	103.9	99.8	96.3	93.6	91.6
77.5°	149.3	142.2	125.2	103.3	89.0	80.5	76.8	74.6	72.9	71.6	69.6
80°	112.1	107.3	90.2	73.8	67.7	63.6	61.5	58.8	58.8	57.4	55.4
82.5°	82.0	76.7	61.8	54.1	50.7	48.2	46.7	45.1	44.6	44.9	43.3
85°	43.1	34.9	30.8	29.4	27.4	25.9	26.7	25.3	25.3	25.3	24.6
87.5°	13.6	11.2	10.9	10.5	11.3	11.9	12.0	12.7	13.3	12.7	13.1
90°	2.1	4.1	5.1	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2
92.5°	8.9	12.6	14.9	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3
95°	19.8	24.9	29.5	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2
97.5°	31.7	37.1	44.1	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9
100°	40.7	45.3	53.4	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3
102.5°	49.7	54.2	62.3	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8
105°	64.1	67.6	75.3	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9
107.5°	78.3	81.8	88.8	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6
110°	88.5	91.6	98.2	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7





TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.5	100.9	107.1	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6
115°	111.9	114.9	121.0	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6
117.5°	125.8	128.9	134.3	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7
120°	134.7	137.8	142.4	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8
122.5°	142.9	146.0	151.0	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9
125°	154.1	157.1	163.3	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9
127.5°	163.5	167.8	174.5	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1
130°	168.8	173.9	181.0	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0
132.5°	174.2	179.6	187.2	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2
135°	181.0	187.2	194.7	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6
137.5°	188.3	194.5	202.6	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7
140°	193.2	199.4	207.5	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8
142.5°	198.1	203.8	212.0	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0
145°	206.4	211.5	219.2	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0
147.5°	214.5	219.4	226.4	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9
150°	220.2	224.3	230.9	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3
152.5°	225.1	229.2	235.0	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9
155°	232.9	235.9	241.6	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7
157.5°	239.6	242.1	246.9	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5
160°	244.1	246.1	250.2	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9
162.5°	247.7	249.8	253.1	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5
165°	252.7	253.8	256.8	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8
167.5°	256.9	257.8	259.8	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4
170°	259.3	259.8	261.4	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2
172.5°	261.4	261.1	262.6	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5
175°	263.4	262.9	263.9	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5
177.5°	264.0	263.6	264.4	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2035.5	2042.6	2045.9	2045.9	2049.7	2048.1	2046.4
5°	2152.5	2165.4	2168.2	2180.5	2189.3	2186.7	2188.0
7.5°	2268.8	2289.6	2310.3	2319.8	2321.2	2326.7	2328.8
10°	2340.4	2357.5	2389.6	2384.8	2408.7	2422.4	2399.9
12.5°	2409.2	2432.3	2454.6	2460.8	2474.3	2478.7	2469.8
15°	2471.6	2483.9	2485.3	2481.8	2485.9	2482.5	2469.5
17.5°	2413.3	2393.4	2353.0	2333.8	2318.6	2296.2	2287.2
20°	2317.1	2258.3	2190.0	2162.8	2130.6	2067.7	2082.8
22.5°	2109.4	2042.5	1974.2	1894.4	1856.2	1796.6	1793.1
25°	1786.2	1670.7	1543.6	1454.8	1402.8	1343.5	1317.4
27.5°	1388.8	1243.4	1139.2	1086.5	1038.5	991.4	989.4
30°	1127.5	1018.2	937.5	892.4	863.0	843.2	847.3
32.5°	950.4	875.5	821.1	783.6	761.9	747.0	746.7
35°	776.9	725.7	690.8	675.1	659.4	648.5	649.2
37.5°	664.9	634.1	614.7	597.4	587.5	582.2	579.2
40°	607.4	582.2	567.1	556.9	548.7	541.2	539.8
42.5°	562.1	541.2	526.2	518.1	510.4	505.2	503.7
45°	498.8	481.7	468.1	459.2	455.8	451.0	451.0
47.5°	443.7	427.0	416.3	410.7	404.8	401.6	401.5
50°	406.6	393.6	384.1	380.6	375.9	373.8	373.1
52.5°	373.3	363.6	356.7	354.4	352.3	349.7	350.2
55°	328.0	322.5	319.8	317.7	314.3	310.2	313.0
57.5°	289.9	285.3	277.9	271.4	268.3	265.4	266.5
60°	263.1	253.5	244.0	236.4	234.3	228.2	228.2
62.5°	229.2	215.8	204.0	199.8	197.8	194.9	194.3
65°	176.3	170.9	168.1	165.3	164.0	164.0	162.6
67.5°	146.1	143.9	140.9	140.2	138.8	138.5	138.0
70°	129.1	126.4	125.0	124.4	123.0	123.7	121.6
72.5°	112.7	110.6	110.3	108.5	107.7	107.8	106.3
75°	88.8	88.8	88.2	87.5	86.1	85.4	86.1
77.5°	68.3	68.5	67.2	67.1	67.0	67.1	66.4
80°	54.7	55.4	54.7	53.9	53.3	53.9	53.3
82.5°	43.2	42.3	42.1	42.0	41.8	41.4	41.3
85°	24.6	25.3	24.6	23.9	23.9	23.9	24.6
87.5°	12.3	12.6	12.7	12.7	12.7	12.7	12.1
90°	15.2	16.2	16.8	16.8	16.8	16.8	16.8
92.5°	38.1	33.8	30.6	30.2	28.6	29.0	28.2
95°	102.2	80.9	69.6	63.0	59.0	57.4	58.0
97.5°	254.4	199.4	162.6	138.3	125.8	118.4	114.1
100°	401.3	331.5	270.0	227.8	206.0	191.2	182.1
102.5°	550.5	499.6	434.4	388.5	351.2	332.8	320.4
105°	675.3	682.0	665.1	633.6	602.1	580.2	573.1
107.5°	666.2	719.1	743.7	747.6	745.9	741.5	732.1
110°	637.7	702.8	744.5	766.3	776.1	780.6	780.1



TEST NUMBER: P331743-940

CATALOG NUMBER: SA2XXRDIP-C1005D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	604.0	673.5	721.3	751.7	767.9	776.5	779.3
115°	557.9	624.5	676.9	712.9	736.4	749.6	754.1
117.5°	520.4	580.9	630.0	666.8	691.5	705.4	709.3
120°	500.9	554.8	601.1	636.7	660.6	675.3	680.4
122.5°	484.6	535.7	577.5	609.4	632.9	646.0	650.3
125°	463.2	508.0	546.2	575.7	594.9	607.7	611.8
127.5°	442.6	484.7	520.0	545.6	563.7	574.7	578.0
130°	428.7	468.9	502.4	527.4	544.7	554.8	558.8
132.5°	415.7	452.6	484.1	508.6	525.9	535.3	539.0
135°	395.1	428.7	457.2	479.0	495.8	505.0	507.0
137.5°	378.8	405.4	430.3	450.1	464.6	472.6	475.6
140°	368.2	391.6	413.9	430.3	443.4	451.0	454.1
142.5°	358.8	379.0	397.7	413.1	425.2	431.9	432.6
145°	346.8	362.6	377.4	389.5	398.1	403.2	404.7
147.5°	337.1	349.4	360.2	370.2	377.1	380.6	381.5
150°	330.6	341.3	350.4	358.0	364.1	367.1	367.7
152.5°	325.3	334.3	342.2	348.2	353.6	355.8	355.9
155°	316.8	324.4	330.0	335.6	339.2	341.3	340.2
157.5°	308.3	314.7	319.1	323.0	326.0	326.9	326.9
160°	302.6	308.2	311.7	315.3	317.8	318.3	318.3
162.5°	297.3	302.1	304.8	308.4	310.1	310.6	310.2
165°	289.4	292.9	295.0	296.9	299.0	299.0	298.5
167.5°	282.1	284.5	286.4	287.3	288.5	288.4	287.8
170°	277.7	279.7	280.7	281.2	282.8	282.2	281.2
172.5°	273.6	275.2	275.8	276.3	277.1	276.5	275.9
175°	269.0	269.6	270.0	270.0	270.5	270.0	269.0
177.5°	265.6	266.1	266.1	266.1	266.1	265.6	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4

(END OF REPORT)