

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: P331719-935

Luminaire Tested: **SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331719-935  
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-C865D725U935-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

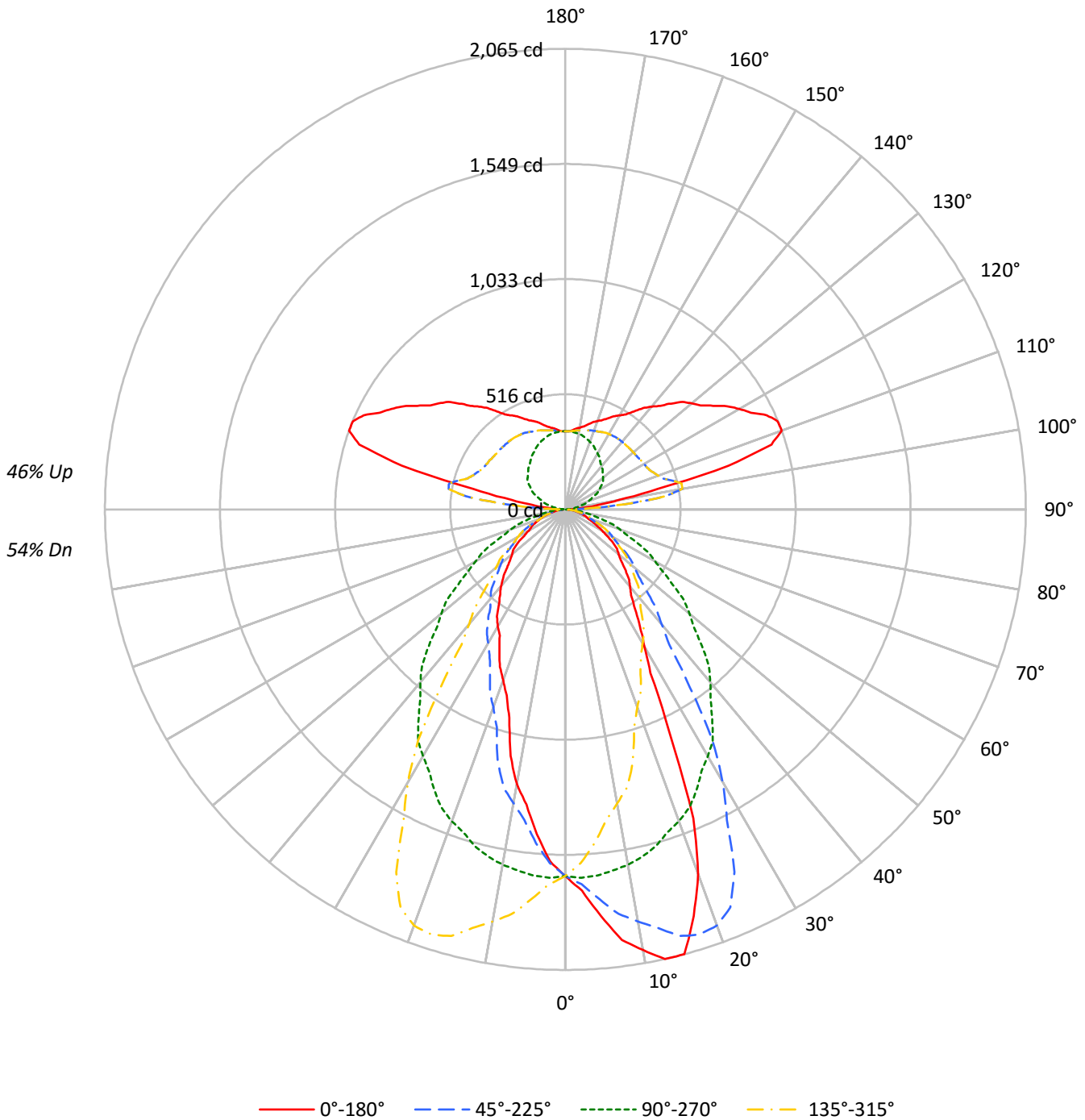
Lumens per Lamp: N/A  
Luminaire Lumens: 5280.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

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



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54	54	54	54	
1	99	95	92	89	92	89	86	83	76	74	72	65	63	62	54	53	52	47	47	47	47	
2	91	84	79	74	85	79	74	69	68	64	61	58	55	53	49	47	45	41	41	41	41	
3	84	75	68	63	78	70	64	59	61	56	52	52	49	46	44	42	40	36	36	36	36	
4	77	67	60	54	72	63	56	51	55	49	45	47	43	40	40	37	35	31	31	31	31	
5	71	60	53	47	66	57	50	45	49	44	40	43	39	35	36	33	31	28	28	28	28	
6	66	55	47	41	61	51	44	39	45	39	35	39	35	32	33	30	28	25	25	25	25	
7	61	50	42	37	57	47	40	35	41	36	32	36	32	28	31	28	25	23	23	23	23	
8	57	45	38	33	53	43	36	31	38	32	29	33	29	26	29	25	23	21	21	21	21	
9	53	42	34	30	50	39	33	28	35	30	26	31	26	23	27	23	21	19	19	19	19	
10	50	38	32	27	47	36	30	26	32	27	24	29	24	21	25	22	19	17	17	17	17	

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

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	3.0
10°-20°	434.3	8.2
20°-30°	559.6	10.6
30°-40°	531.8	10.1
40°-50°	455.6	8.6
50°-60°	346.9	6.6
60°-70°	219.3	4.2
70°-80°	109.5	2.1
80°-90°	31.7	0.6
90°-100°	139.9	2.7
100°-110°	474.9	9.0
110°-120°	504.5	9.6
120°-130°	415.3	7.9
130°-140°	333.5	6.3
140°-150°	252.0	4.8
150°-160°	177.1	3.4
160°-170°	104.3	2.0
170°-180°	33.9	0.6
0°-30°	1149.8	21.8
0°-40°	1681.6	31.8
0°-60°	2484.1	47.0
0°-90°	2844.6	53.9
90°-120°	1119.3	21.2
90°-150°	2120.1	40.2
90°-180°	2435.0	46.1
0°-180°	5280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	23
90°	22	1	22	1	22	13
95°	77	24	77	24	77	100
105°	758	82	758	82	758	734
115°	998	145	998	145	998	977
125°	810	202	810	202	810	732
135°	671	237	671	237	671	521
145°	536	270	536	270	536	340
155°	450	308	450	308	450	210
165°	395	335	395	335	395	113
175°	356	349	356	349	356	35
180°	350	350	350	350	350	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	11.8	12.2	12.2	12.2	12.2	12.1	11.8	12.6	12.2	12.8	12.2
90°	22.2	22.2	22.2	22.2	22.2	21.5	20.2	21.5	22.2	22.9	22.2
92.5°	37.3	38.4	37.8	40.0	40.6	44.7	50.4	58.7	73.9	87.5	86.3
95°	76.7	76.0	78.1	83.4	92.2	107.0	135.3	176.3	230.8	263.8	233.6
97.5°	151.0	156.7	166.5	183.0	215.2	263.8	336.7	411.5	472.5	450.4	339.2
100°	240.9	253.0	272.6	301.5	357.4	438.9	531.1	614.5	628.6	531.7	366.1
102.5°	424.0	440.4	464.8	514.2	574.9	661.2	728.7	747.5	686.7	534.4	355.9
105°	758.5	767.9	796.9	838.6	880.4	902.6	893.8	817.8	677.8	498.7	335.9
107.5°	968.9	981.5	987.2	989.5	984.3	951.7	881.7	767.2	618.6	460.5	325.9
110°	1032.4	1033.1	1027.1	1014.3	985.3	930.1	844.0	723.5	581.5	442.2	323.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1031.4	1027.8	1016.3	994.9	954.7	891.4	799.3	683.7	555.7	430.3	324.3
115°	998.2	992.0	974.6	943.6	895.8	826.5	738.3	634.6	523.7	417.3	327.1
117.5°	938.7	933.7	915.2	882.5	833.8	768.8	688.8	597.8	503.4	411.0	331.9
120°	900.5	893.8	874.3	842.7	795.6	734.3	663.0	579.5	492.7	407.2	335.2
122.5°	860.7	855.1	837.7	806.6	764.3	708.9	641.4	565.0	483.5	405.0	339.0
125°	809.7	804.3	787.5	761.9	722.8	672.4	613.1	543.8	470.5	401.1	344.6
127.5°	765.0	760.7	746.1	722.2	688.1	641.5	585.7	523.0	458.3	398.8	350.4
130°	739.7	734.3	720.8	697.9	665.0	620.5	567.4	509.5	450.3	397.8	354.7
132.5°	713.3	708.4	696.0	673.2	640.8	599.0	550.2	496.5	443.8	397.3	359.0
135°	671.1	668.3	656.3	634.0	605.0	567.4	523.0	478.5	434.8	396.4	364.1
137.5°	629.6	625.5	614.9	595.8	569.4	536.6	501.3	464.2	428.4	396.3	368.7
140°	601.1	597.0	586.9	569.4	547.9	518.2	487.3	455.0	424.7	395.7	370.8
142.5°	572.5	571.7	562.7	546.8	526.3	501.5	474.9	447.5	420.9	395.7	372.5
145°	535.7	533.7	527.0	515.6	499.4	479.9	459.0	436.8	415.9	394.4	374.2
147.5°	504.9	503.7	499.1	490.0	476.6	462.4	446.1	428.6	410.9	392.0	374.8
150°	486.6	485.9	481.9	473.8	463.7	451.6	437.5	422.7	406.5	390.4	374.2
152.5°	471.0	470.9	467.9	460.9	453.0	442.5	430.5	416.7	402.8	387.7	373.2
155°	450.3	451.6	448.9	444.2	436.8	429.4	419.3	408.5	395.7	383.0	371.5
157.5°	432.7	432.7	431.4	427.5	422.2	416.5	408.0	399.0	389.2	378.2	368.4
160°	421.3	421.3	420.7	417.3	412.6	407.9	400.5	393.0	384.4	374.9	366.8
162.5°	410.5	411.1	410.4	408.1	403.5	399.8	393.5	387.1	380.0	372.2	365.2
165°	395.1	395.7	395.7	393.0	390.4	387.7	383.0	378.2	372.9	366.8	362.1
167.5°	380.8	381.6	381.8	380.3	379.1	376.6	373.4	369.8	365.8	362.1	359.0
170°	372.2	373.5	374.2	372.2	371.5	370.1	367.5	365.5	362.1	359.4	357.4
172.5°	365.2	366.0	366.7	365.8	365.1	364.3	362.1	360.6	358.3	356.2	355.2
175°	356.0	357.4	358.1	357.4	357.4	356.7	356.0	355.3	353.4	352.7	352.0
177.5°	350.5	351.6	352.1	352.1	352.1	352.1	351.6	351.6	350.5	350.0	350.5
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	11.4	10.9	10.2	9.4	9.6	9.7	11.5	13.3	12.0	11.1	10.5
90°	18.2	13.4	10.1	8.1	6.7	5.4	2.7	0.7	2.7	5.4	6.7
92.5°	67.2	45.8	30.6	24.2	19.6	16.7	11.9	8.2	11.9	16.7	19.6
95°	155.5	96.9	66.0	49.8	39.0	33.0	26.3	23.6	26.3	33.0	39.0
97.5°	209.5	127.9	88.9	70.7	58.3	49.2	42.0	38.4	42.0	49.2	58.3
100°	220.8	138.6	103.0	84.1	70.7	59.9	53.8	51.8	53.8	59.9	70.7
102.5°	221.3	148.4	115.4	96.5	82.5	71.7	65.7	64.2	65.7	71.7	82.5
105°	224.8	164.9	133.3	114.4	99.6	89.5	84.8	82.1	84.8	89.5	99.6
107.5°	234.1	181.8	151.2	132.2	117.5	108.2	103.7	101.5	103.7	108.2	117.5
110°	241.6	193.1	163.6	144.0	129.9	121.1	117.1	114.4	117.1	121.1	129.9





TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.7	204.0	175.4	155.3	141.7	133.5	129.0	126.2	129.0	133.5	141.7
115°	261.8	220.8	191.8	173.7	160.1	152.1	148.1	144.7	148.1	152.1	160.1
117.5°	274.7	236.3	209.5	190.6	177.7	170.6	166.5	163.8	166.5	170.6	177.7
120°	283.4	247.0	220.8	201.9	188.5	182.4	178.4	175.6	178.4	182.4	188.5
122.5°	290.9	257.3	232.6	213.2	199.8	193.1	189.2	187.0	189.2	193.1	199.8
125°	302.9	272.6	248.3	229.5	216.0	207.9	204.0	201.9	204.0	207.9	216.0
127.5°	314.0	286.9	263.3	243.9	231.0	222.1	216.5	213.8	216.5	222.1	231.0
130°	321.1	295.5	271.9	253.0	239.6	230.1	223.4	220.8	223.4	230.1	239.6
132.5°	328.0	303.0	280.5	261.7	247.7	237.7	230.5	227.2	230.5	237.7	247.7
135°	337.2	313.7	292.1	273.3	257.8	247.7	239.6	236.9	239.6	247.7	257.8
137.5°	344.2	322.3	301.0	283.5	268.1	257.4	249.3	246.1	249.3	257.4	268.1
140°	347.9	327.1	306.9	289.4	274.6	263.8	255.7	253.0	255.7	263.8	274.6
142.5°	351.2	330.9	311.3	294.8	280.5	269.8	262.3	260.0	262.3	269.8	280.5
145°	355.3	336.6	318.3	303.5	290.1	280.0	273.3	270.5	273.3	280.0	290.1
147.5°	357.7	341.1	324.0	310.8	299.6	290.3	283.9	281.9	283.9	290.3	299.6
150°	358.7	343.3	327.8	315.6	305.6	296.8	291.4	289.4	291.4	296.8	305.6
152.5°	359.3	345.4	331.6	320.5	310.9	303.2	297.9	297.0	297.9	303.2	310.9
155°	360.1	348.6	337.2	327.1	319.7	312.3	308.2	307.5	308.2	312.3	319.7
157.5°	360.1	350.9	341.2	332.8	326.8	320.4	317.1	316.5	317.1	320.4	326.8
160°	360.1	352.0	343.9	336.6	331.1	325.7	323.0	322.4	323.0	325.7	331.1
162.5°	359.6	352.6	345.5	339.8	334.9	330.6	327.9	328.3	327.9	330.6	334.9
165°	358.1	353.4	347.3	343.3	339.9	335.9	334.5	335.2	334.5	335.9	339.9
167.5°	357.1	353.2	348.8	346.2	343.8	341.2	340.0	340.9	340.0	341.2	343.8
170°	356.0	352.7	349.3	347.3	345.9	343.9	343.3	344.6	343.3	343.9	345.9
172.5°	354.4	352.1	349.8	348.4	347.6	345.5	345.9	346.7	345.9	345.5	347.6
175°	352.7	351.3	350.0	349.3	349.3	347.9	348.6	349.3	348.6	347.9	349.3
177.5°	351.6	350.5	350.0	350.0	350.0	348.9	349.5	350.5	349.5	348.9	350.0
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	10.3	10.2	10.0	10.9	11.8	11.5	11.3	10.7	10.4	10.7	10.4
90°	8.1	10.1	13.4	18.2	22.2	22.9	22.2	21.5	20.2	21.5	22.2
92.5°	24.2	30.6	45.8	67.2	86.3	87.5	73.9	58.7	50.4	44.7	40.6
95°	49.8	66.0	96.9	155.5	233.6	263.8	230.8	176.3	135.3	107.0	92.2
97.5°	70.7	88.9	127.9	209.5	339.2	450.4	472.5	411.5	336.7	263.8	215.2
100°	84.1	103.0	138.6	220.8	366.1	531.7	628.6	614.5	531.1	438.9	357.4
102.5°	96.5	115.4	148.4	221.3	355.9	534.4	686.7	747.5	728.7	661.2	574.9
105°	114.4	133.3	164.9	224.8	335.9	498.7	677.8	817.8	893.8	902.6	880.4
107.5°	132.2	151.2	181.8	234.1	325.9	460.5	618.6	767.2	881.7	951.7	984.3
110°	144.0	163.6	193.1	241.6	323.7	442.2	581.5	723.5	844.0	930.1	985.3



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	155.3	175.4	204.0	249.7	324.3	430.3	555.7	683.7	799.3	891.4	954.7
115°	173.7	191.8	220.8	261.8	327.1	417.3	523.7	634.6	738.3	826.5	895.8
117.5°	190.6	209.5	236.3	274.7	331.9	411.0	503.4	597.8	688.8	768.8	833.8
120°	201.9	220.8	247.0	283.4	335.2	407.2	492.7	579.5	663.0	734.3	795.6
122.5°	213.2	232.6	257.3	290.9	339.0	405.0	483.5	565.0	641.4	708.9	764.3
125°	229.5	248.3	272.6	302.9	344.6	401.1	470.5	543.8	613.1	672.4	722.8
127.5°	243.9	263.3	286.9	314.0	350.4	398.8	458.3	523.0	585.7	641.5	688.1
130°	253.0	271.9	295.5	321.1	354.7	397.8	450.3	509.5	567.4	620.5	665.0
132.5°	261.7	280.5	303.0	328.0	359.0	397.3	443.8	496.5	550.2	599.0	640.8
135°	273.3	292.1	313.7	337.2	364.1	396.4	434.8	478.5	523.0	567.4	605.0
137.5°	283.5	301.0	322.3	344.2	368.7	396.3	428.4	464.2	501.3	536.6	569.4
140°	289.4	306.9	327.1	347.9	370.8	395.7	424.7	455.0	487.3	518.2	547.9
142.5°	294.8	311.3	330.9	351.2	372.5	395.7	420.9	447.5	474.9	501.5	526.3
145°	303.5	318.3	336.6	355.3	374.2	394.4	415.9	436.8	459.0	479.9	499.4
147.5°	310.8	324.0	341.1	357.7	374.8	392.0	410.9	428.6	446.1	462.4	476.6
150°	315.6	327.8	343.3	358.7	374.2	390.4	406.5	422.7	437.5	451.6	463.7
152.5°	320.5	331.6	345.4	359.3	373.2	387.7	402.8	416.7	430.5	442.5	453.0
155°	327.1	337.2	348.6	360.1	371.5	383.0	395.7	408.5	419.3	429.4	436.8
157.5°	332.8	341.2	350.9	360.1	368.4	378.2	389.2	399.0	408.0	416.5	422.2
160°	336.6	343.9	352.0	360.1	366.8	374.9	384.4	393.0	400.5	407.9	412.6
162.5°	339.8	345.5	352.6	359.6	365.2	372.2	380.0	387.1	393.5	399.8	403.5
165°	343.3	347.3	353.4	358.1	362.1	366.8	372.9	378.2	383.0	387.7	390.4
167.5°	346.2	348.8	353.2	357.1	359.0	362.1	365.8	369.8	373.4	376.6	379.1
170°	347.3	349.3	352.7	356.0	357.4	359.4	362.1	365.5	367.5	370.1	371.5
172.5°	348.4	349.8	352.1	354.4	355.2	356.2	358.3	360.6	362.1	364.3	365.1
175°	349.3	350.0	351.3	352.7	352.0	352.7	353.4	355.3	356.0	356.7	357.4
177.5°	350.0	350.0	350.5	351.6	350.5	350.0	350.5	351.6	351.6	352.1	352.1
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	10.4	9.9	10.4	9.9	10.4	9.9	10.4	10.4	10.7	10.4	10.7
90°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	21.5	20.2	21.5
92.5°	40.0	37.8	38.4	37.3	38.4	37.8	40.0	40.6	44.7	50.4	58.7
95°	83.4	78.1	76.0	76.7	76.0	78.1	83.4	92.2	107.0	135.3	176.3
97.5°	183.0	166.5	156.7	151.0	156.7	166.5	183.0	215.2	263.8	336.7	411.5
100°	301.5	272.6	253.0	240.9	253.0	272.6	301.5	357.4	438.9	531.1	614.5
102.5°	514.2	464.8	440.4	424.0	440.4	464.8	514.2	574.9	661.2	728.7	747.5
105°	838.6	796.9	767.9	758.5	767.9	796.9	838.6	880.4	902.6	893.8	817.8
107.5°	989.5	987.2	981.5	968.9	981.5	987.2	989.5	984.3	951.7	881.7	767.2
110°	1014.3	1027.1	1033.1	1032.4	1033.1	1027.1	1014.3	985.3	930.1	844.0	723.5



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	994.9	1016.3	1027.8	1031.4	1027.8	1016.3	994.9	954.7	891.4	799.3	683.7
115°	943.6	974.6	992.0	998.2	992.0	974.6	943.6	895.8	826.5	738.3	634.6
117.5°	882.5	915.2	933.7	938.7	933.7	915.2	882.5	833.8	768.8	688.8	597.8
120°	842.7	874.3	893.8	900.5	893.8	874.3	842.7	795.6	734.3	663.0	579.5
122.5°	806.6	837.7	855.1	860.7	855.1	837.7	806.6	764.3	708.9	641.4	565.0
125°	761.9	787.5	804.3	809.7	804.3	787.5	761.9	722.8	672.4	613.1	543.8
127.5°	722.2	746.1	760.7	765.0	760.7	746.1	722.2	688.1	641.5	585.7	523.0
130°	697.9	720.8	734.3	739.7	734.3	720.8	697.9	665.0	620.5	567.4	509.5
132.5°	673.2	696.0	708.4	713.3	708.4	696.0	673.2	640.8	599.0	550.2	496.5
135°	634.0	656.3	668.3	671.1	668.3	656.3	634.0	605.0	567.4	523.0	478.5
137.5°	595.8	614.9	625.5	629.6	625.5	614.9	595.8	569.4	536.6	501.3	464.2
140°	569.4	586.9	597.0	601.1	597.0	586.9	569.4	547.9	518.2	487.3	455.0
142.5°	546.8	562.7	571.7	572.5	571.7	562.7	546.8	526.3	501.5	474.9	447.5
145°	515.6	527.0	533.7	535.7	533.7	527.0	515.6	499.4	479.9	459.0	436.8
147.5°	490.0	499.1	503.7	504.9	503.7	499.1	490.0	476.6	462.4	446.1	428.6
150°	473.8	481.9	485.9	486.6	485.9	481.9	473.8	463.7	451.6	437.5	422.7
152.5°	460.9	467.9	470.9	471.0	470.9	467.9	460.9	453.0	442.5	430.5	416.7
155°	444.2	448.9	451.6	450.3	451.6	448.9	444.2	436.8	429.4	419.3	408.5
157.5°	427.5	431.4	432.7	432.7	432.7	431.4	427.5	422.2	416.5	408.0	399.0
160°	417.3	420.7	421.3	421.3	421.3	420.7	417.3	412.6	407.9	400.5	393.0
162.5°	408.1	410.4	411.1	410.5	411.1	410.4	408.1	403.5	399.8	393.5	387.1
165°	393.0	395.7	395.7	395.1	395.7	395.7	393.0	390.4	387.7	383.0	378.2
167.5°	380.3	381.8	381.6	380.8	381.6	381.8	380.3	379.1	376.6	373.4	369.8
170°	372.2	374.2	373.5	372.2	373.5	374.2	372.2	371.5	370.1	367.5	365.5
172.5°	365.8	366.7	366.0	365.2	366.0	366.7	365.8	365.1	364.3	362.1	360.6
175°	357.4	358.1	357.4	356.0	357.4	358.1	357.4	357.4	356.7	356.0	355.3
177.5°	352.1	352.1	351.6	350.5	351.6	352.1	352.1	352.1	352.1	351.6	351.6
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	11.3	11.5	11.8	10.9	10.0	10.2	10.3	10.5	11.1	12.0	13.3
90°	22.2	22.9	22.2	18.2	13.4	10.1	8.1	6.7	5.4	2.7	0.7
92.5°	73.9	87.5	86.3	67.2	45.8	30.6	24.2	19.6	16.7	11.9	8.2
95°	230.8	263.8	233.6	155.5	96.9	66.0	49.8	39.0	33.0	26.3	23.6
97.5°	472.5	450.4	339.2	209.5	127.9	88.9	70.7	58.3	49.2	42.0	38.4
100°	628.6	531.7	366.1	220.8	138.6	103.0	84.1	70.7	59.9	53.8	51.8
102.5°	686.7	534.4	355.9	221.3	148.4	115.4	96.5	82.5	71.7	65.7	64.2
105°	677.8	498.7	335.9	224.8	164.9	133.3	114.4	99.6	89.5	84.8	82.1
107.5°	618.6	460.5	325.9	234.1	181.8	151.2	132.2	117.5	108.2	103.7	101.5
110°	581.5	442.2	323.7	241.6	193.1	163.6	144.0	129.9	121.1	117.1	114.4



TEST NUMBER: P331719-935

CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	555.7	430.3	324.3	249.7	204.0	175.4	155.3	141.7	133.5	129.0	126.2
115°	523.7	417.3	327.1	261.8	220.8	191.8	173.7	160.1	152.1	148.1	144.7
117.5°	503.4	411.0	331.9	274.7	236.3	209.5	190.6	177.7	170.6	166.5	163.8
120°	492.7	407.2	335.2	283.4	247.0	220.8	201.9	188.5	182.4	178.4	175.6
122.5°	483.5	405.0	339.0	290.9	257.3	232.6	213.2	199.8	193.1	189.2	187.0
125°	470.5	401.1	344.6	302.9	272.6	248.3	229.5	216.0	207.9	204.0	201.9
127.5°	458.3	398.8	350.4	314.0	286.9	263.3	243.9	231.0	222.1	216.5	213.8
130°	450.3	397.8	354.7	321.1	295.5	271.9	253.0	239.6	230.1	223.4	220.8
132.5°	443.8	397.3	359.0	328.0	303.0	280.5	261.7	247.7	237.7	230.5	227.2
135°	434.8	396.4	364.1	337.2	313.7	292.1	273.3	257.8	247.7	239.6	236.9
137.5°	428.4	396.3	368.7	344.2	322.3	301.0	283.5	268.1	257.4	249.3	246.1
140°	424.7	395.7	370.8	347.9	327.1	306.9	289.4	274.6	263.8	255.7	253.0
142.5°	420.9	395.7	372.5	351.2	330.9	311.3	294.8	280.5	269.8	262.3	260.0
145°	415.9	394.4	374.2	355.3	336.6	318.3	303.5	290.1	280.0	273.3	270.5
147.5°	410.9	392.0	374.8	357.7	341.1	324.0	310.8	299.6	290.3	283.9	281.9
150°	406.5	390.4	374.2	358.7	343.3	327.8	315.6	305.6	296.8	291.4	289.4
152.5°	402.8	387.7	373.2	359.3	345.4	331.6	320.5	310.9	303.2	297.9	297.0
155°	395.7	383.0	371.5	360.1	348.6	337.2	327.1	319.7	312.3	308.2	307.5
157.5°	389.2	378.2	368.4	360.1	350.9	341.2	332.8	326.8	320.4	317.1	316.5
160°	384.4	374.9	366.8	360.1	352.0	343.9	336.6	331.1	325.7	323.0	322.4
162.5°	380.0	372.2	365.2	359.6	352.6	345.5	339.8	334.9	330.6	327.9	328.3
165°	372.9	366.8	362.1	358.1	353.4	347.3	343.3	339.9	335.9	334.5	335.2
167.5°	365.8	362.1	359.0	357.1	353.2	348.8	346.2	343.8	341.2	340.0	340.9
170°	362.1	359.4	357.4	356.0	352.7	349.3	347.3	345.9	343.9	343.3	344.6
172.5°	358.3	356.2	355.2	354.4	352.1	349.8	348.4	347.6	345.5	345.9	346.7
175°	353.4	352.7	352.0	352.7	351.3	350.0	349.3	349.3	347.9	348.6	349.3
177.5°	350.5	350.0	350.5	351.6	350.5	350.0	350.0	350.0	348.9	349.5	350.5
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



TEST NUMBER: P331719-935  
 CATALOG NUMBER: SA2XXRDIP-C865D725U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.5	9.7	9.6	9.4	10.2	10.9	11.4	12.2	12.8	12.2	12.6
90°	2.7	5.4	6.7	8.1	10.1	13.4	18.2	22.2	22.9	22.2	21.5
92.5°	11.9	16.7	19.6	24.2	30.6	45.8	67.2	86.3	87.5	73.9	58.7
95°	26.3	33.0	39.0	49.8	66.0	96.9	155.5	233.6	263.8	230.8	176.3
97.5°	42.0	49.2	58.3	70.7	88.9	127.9	209.5	339.2	450.4	472.5	411.5
100°	53.8	59.9	70.7	84.1	103.0	138.6	220.8	366.1	531.7	628.6	614.5
102.5°	65.7	71.7	82.5	96.5	115.4	148.4	221.3	355.9	534.4	686.7	747.5
105°	84.8	89.5	99.6	114.4	133.3	164.9	224.8	335.9	498.7	677.8	817.8
107.5°	103.7	108.2	117.5	132.2	151.2	181.8	234.1	325.9	460.5	618.6	767.2
110°	117.1	121.1	129.9	144.0	163.6	193.1	241.6	323.7	442.2	581.5	723.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	129.0	133.5	141.7	155.3	175.4	204.0	249.7	324.3	430.3	555.7	683.7
115°	148.1	152.1	160.1	173.7	191.8	220.8	261.8	327.1	417.3	523.7	634.6
117.5°	166.5	170.6	177.7	190.6	209.5	236.3	274.7	331.9	411.0	503.4	597.8
120°	178.4	182.4	188.5	201.9	220.8	247.0	283.4	335.2	407.2	492.7	579.5
122.5°	189.2	193.1	199.8	213.2	232.6	257.3	290.9	339.0	405.0	483.5	565.0
125°	204.0	207.9	216.0	229.5	248.3	272.6	302.9	344.6	401.1	470.5	543.8
127.5°	216.5	222.1	231.0	243.9	263.3	286.9	314.0	350.4	398.8	458.3	523.0
130°	223.4	230.1	239.6	253.0	271.9	295.5	321.1	354.7	397.8	450.3	509.5
132.5°	230.5	237.7	247.7	261.7	280.5	303.0	328.0	359.0	397.3	443.8	496.5
135°	239.6	247.7	257.8	273.3	292.1	313.7	337.2	364.1	396.4	434.8	478.5
137.5°	249.3	257.4	268.1	283.5	301.0	322.3	344.2	368.7	396.3	428.4	464.2
140°	255.7	263.8	274.6	289.4	306.9	327.1	347.9	370.8	395.7	424.7	455.0
142.5°	262.3	269.8	280.5	294.8	311.3	330.9	351.2	372.5	395.7	420.9	447.5
145°	273.3	280.0	290.1	303.5	318.3	336.6	355.3	374.2	394.4	415.9	436.8
147.5°	283.9	290.3	299.6	310.8	324.0	341.1	357.7	374.8	392.0	410.9	428.6
150°	291.4	296.8	305.6	315.6	327.8	343.3	358.7	374.2	390.4	406.5	422.7
152.5°	297.9	303.2	310.9	320.5	331.6	345.4	359.3	373.2	387.7	402.8	416.7
155°	308.2	312.3	319.7	327.1	337.2	348.6	360.1	371.5	383.0	395.7	408.5
157.5°	317.1	320.4	326.8	332.8	341.2	350.9	360.1	368.4	378.2	389.2	399.0
160°	323.0	325.7	331.1	336.6	343.9	352.0	360.1	366.8	374.9	384.4	393.0
162.5°	327.9	330.6	334.9	339.8	345.5	352.6	359.6	365.2	372.2	380.0	387.1
165°	334.5	335.9	339.9	343.3	347.3	353.4	358.1	362.1	366.8	372.9	378.2
167.5°	340.0	341.2	343.8	346.2	348.8	353.2	357.1	359.0	362.1	365.8	369.8
170°	343.3	343.9	345.9	347.3	349.3	352.7	356.0	357.4	359.4	362.1	365.5
172.5°	345.9	345.5	347.6	348.4	349.8	352.1	354.4	355.2	356.2	358.3	360.6
175°	348.6	347.9	349.3	349.3	350.0	351.3	352.7	352.0	352.7	353.4	355.3
177.5°	349.5	348.9	350.0	350.0	350.0	350.5	351.6	350.5	350.0	350.5	351.6
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	11.8	12.1	12.2	12.2	12.2	12.2	11.8
90°	20.2	21.5	22.2	22.2	22.2	22.2	22.2
92.5°	50.4	44.7	40.6	40.0	37.8	38.4	37.3
95°	135.3	107.0	92.2	83.4	78.1	76.0	76.7
97.5°	336.7	263.8	215.2	183.0	166.5	156.7	151.0
100°	531.1	438.9	357.4	301.5	272.6	253.0	240.9
102.5°	728.7	661.2	574.9	514.2	464.8	440.4	424.0
105°	893.8	902.6	880.4	838.6	796.9	767.9	758.5
107.5°	881.7	951.7	984.3	989.5	987.2	981.5	968.9
110°	844.0	930.1	985.3	1014.3	1027.1	1033.1	1032.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	799.3	891.4	954.7	994.9	1016.3	1027.8	1031.4
115°	738.3	826.5	895.8	943.6	974.6	992.0	998.2
117.5°	688.8	768.8	833.8	882.5	915.2	933.7	938.7
120°	663.0	734.3	795.6	842.7	874.3	893.8	900.5
122.5°	641.4	708.9	764.3	806.6	837.7	855.1	860.7
125°	613.1	672.4	722.8	761.9	787.5	804.3	809.7
127.5°	585.7	641.5	688.1	722.2	746.1	760.7	765.0
130°	567.4	620.5	665.0	697.9	720.8	734.3	739.7
132.5°	550.2	599.0	640.8	673.2	696.0	708.4	713.3
135°	523.0	567.4	605.0	634.0	656.3	668.3	671.1
137.5°	501.3	536.6	569.4	595.8	614.9	625.5	629.6
140°	487.3	518.2	547.9	569.4	586.9	597.0	601.1
142.5°	474.9	501.5	526.3	546.8	562.7	571.7	572.5
145°	459.0	479.9	499.4	515.6	527.0	533.7	535.7
147.5°	446.1	462.4	476.6	490.0	499.1	503.7	504.9
150°	437.5	451.6	463.7	473.8	481.9	485.9	486.6
152.5°	430.5	442.5	453.0	460.9	467.9	470.9	471.0
155°	419.3	429.4	436.8	444.2	448.9	451.6	450.3
157.5°	408.0	416.5	422.2	427.5	431.4	432.7	432.7
160°	400.5	407.9	412.6	417.3	420.7	421.3	421.3
162.5°	393.5	399.8	403.5	408.1	410.4	411.1	410.5
165°	383.0	387.7	390.4	393.0	395.7	395.7	395.1
167.5°	373.4	376.6	379.1	380.3	381.8	381.6	380.8
170°	367.5	370.1	371.5	372.2	374.2	373.5	372.2
172.5°	362.1	364.3	365.1	365.8	366.7	366.0	365.2
175°	356.0	356.7	357.4	357.4	358.1	357.4	356.0
177.5°	351.6	352.1	352.1	352.1	352.1	351.6	350.5
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0

(END OF REPORT)