

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: P331719-930

Luminaire Tested: **SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331719-930
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-C865D725U930-4F0-1E-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

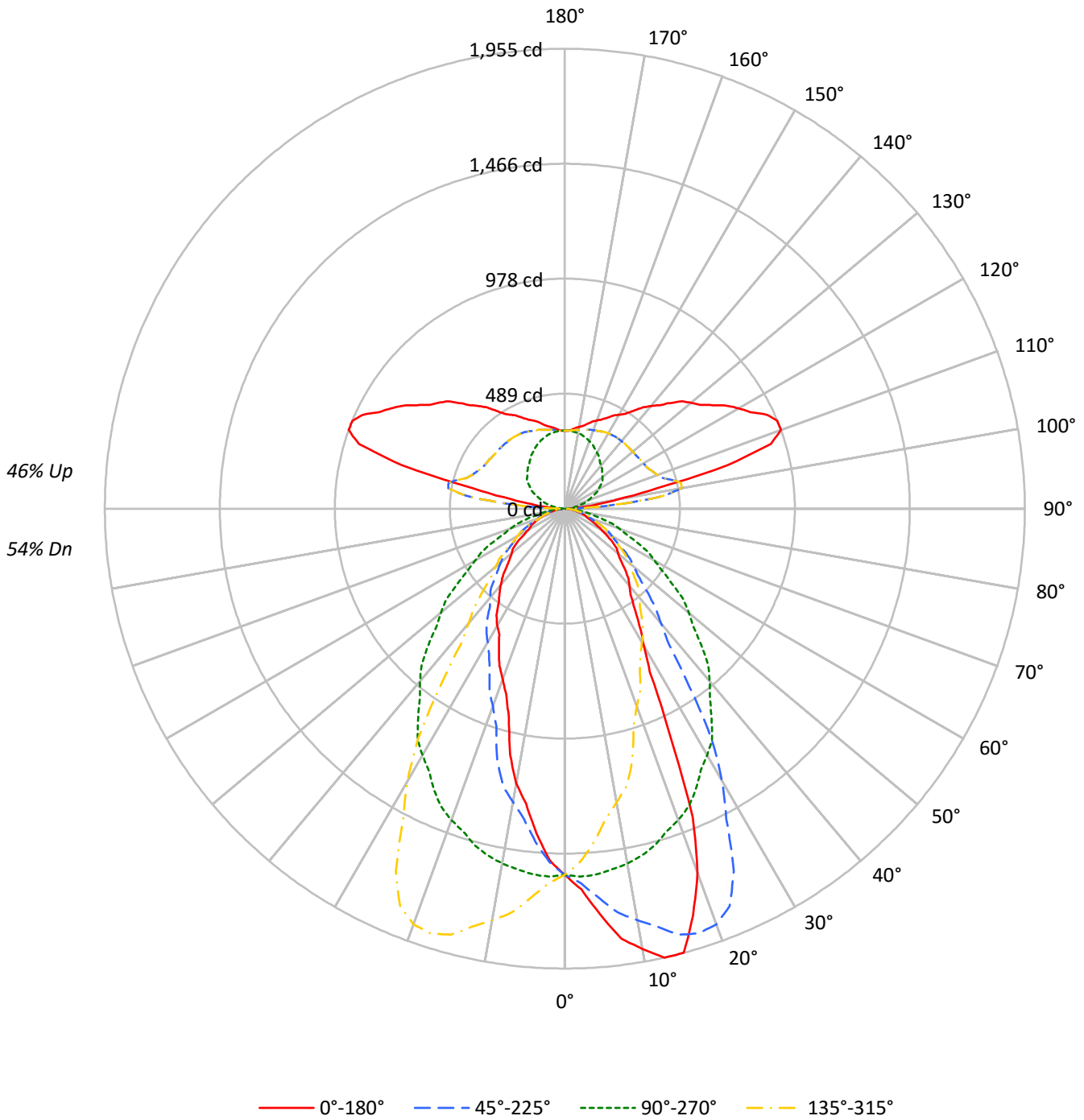
Lumens per Lamp: N/A
Luminaire Lumens: 4999.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P331719-930
CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

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°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.0
10°-20°	411.2	8.2
20°-30°	529.9	10.6
30°-40°	503.6	10.1
40°-50°	431.4	8.6
50°-60°	328.5	6.6
60°-70°	207.7	4.2
70°-80°	103.7	2.1
80°-90°	30.0	0.6
90°-100°	132.5	2.7
100°-110°	449.7	9.0
110°-120°	477.7	9.6
120°-130°	393.2	7.9
130°-140°	315.8	6.3
140°-150°	238.6	4.8
150°-160°	167.7	3.4
160°-170°	98.7	2.0
170°-180°	32.1	0.6
0°-30°	1088.7	21.8
0°-40°	1592.3	31.8
0°-60°	2352.3	47.0
0°-90°	2693.6	53.9
90°-120°	1059.9	21.2
90°-150°	2007.6	40.2
90°-180°	2306.0	46.1
0°-180°	4999.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	21
90°	21	1	21	1	21	12
95°	73	22	73	22	73	94
105°	718	78	718	78	718	695
115°	945	137	945	137	945	926
125°	767	191	767	191	767	693
135°	635	224	635	224	635	494
145°	507	256	507	256	507	322
155°	426	291	426	291	426	199
165°	374	317	374	317	374	107
175°	337	331	337	331	337	33
180°	331	331	331	331	331	



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	11.2	11.6	11.6	11.6	11.6	11.4	11.2	11.9	11.6	12.1	11.6
90°	21.0	21.0	21.0	21.0	21.0	20.4	19.2	20.4	21.0	21.7	21.0
92.5°	35.3	36.4	35.8	37.8	38.4	42.3	47.7	55.6	70.0	82.8	81.7
95°	72.6	72.0	73.9	79.0	87.3	101.3	128.1	167.0	218.6	249.8	221.2
97.5°	143.0	148.4	157.7	173.3	203.8	249.8	318.8	389.6	447.4	426.5	321.2
100°	228.1	239.6	258.1	285.5	338.4	415.6	502.9	581.9	595.3	503.4	346.7
102.5°	401.5	417.0	440.1	486.9	544.4	626.1	690.0	707.8	650.3	506.1	337.0
105°	718.3	727.2	754.6	794.1	833.6	854.7	846.4	774.4	641.8	472.2	318.0
107.5°	917.5	929.4	934.8	937.0	932.1	901.2	834.9	726.4	585.8	436.0	308.6
110°	977.6	978.3	972.6	960.4	933.0	880.8	799.2	685.1	550.7	418.7	306.6



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	976.6	973.2	962.4	942.1	904.0	844.1	756.8	647.4	526.2	407.5	307.0
115°	945.2	939.4	922.8	893.5	848.2	782.6	699.1	601.0	495.9	395.2	309.7
117.5°	888.9	884.1	866.7	835.7	789.5	728.0	652.2	566.1	476.7	389.1	314.3
120°	852.7	846.4	827.9	797.9	753.3	695.3	627.8	548.7	466.5	385.6	317.4
122.5°	815.0	809.7	793.2	763.8	723.7	671.3	607.4	535.0	457.9	383.5	321.0
125°	766.7	761.6	745.7	721.5	684.4	636.7	580.6	514.9	445.5	379.8	326.3
127.5°	724.4	720.3	706.5	683.9	651.6	607.5	554.6	495.2	434.0	377.6	331.8
130°	700.4	695.3	682.6	660.9	629.7	587.6	537.3	482.4	426.4	376.7	335.9
132.5°	675.4	670.8	659.1	637.5	606.7	567.2	521.0	470.2	420.3	376.2	340.0
135°	635.4	632.8	621.4	600.4	572.9	537.3	495.2	453.1	411.7	375.4	344.8
137.5°	596.1	592.3	582.3	564.2	539.2	508.1	474.7	439.5	405.7	375.3	349.1
140°	569.2	565.3	555.7	539.2	518.8	490.7	461.5	430.8	402.2	374.7	351.1
142.5°	542.1	541.4	532.8	517.8	498.4	474.9	449.7	423.7	398.6	374.7	352.7
145°	507.3	505.4	499.0	488.2	472.9	454.4	434.6	413.6	393.9	373.5	354.3
147.5°	478.1	477.0	472.6	464.0	451.3	437.8	422.4	405.9	389.1	371.2	354.9
150°	460.8	460.2	456.3	448.7	439.1	427.6	414.3	400.2	384.9	369.7	354.3
152.5°	446.0	445.9	443.0	436.4	428.9	419.0	407.6	394.6	381.4	367.1	353.4
155°	426.4	427.6	425.1	420.6	413.6	406.6	397.1	386.9	374.7	362.6	351.8
157.5°	409.7	409.7	408.5	404.8	399.8	394.4	386.4	377.8	368.5	358.1	348.9
160°	398.9	398.9	398.4	395.2	390.7	386.2	379.2	372.2	363.9	355.0	347.3
162.5°	388.7	389.3	388.7	386.5	382.0	378.5	372.6	366.6	359.8	352.5	345.8
165°	374.1	374.7	374.7	372.2	369.7	367.1	362.6	358.2	353.1	347.3	342.9
167.5°	360.6	361.3	361.5	360.1	359.0	356.6	353.6	350.2	346.4	342.9	340.0
170°	352.5	353.7	354.3	352.5	351.8	350.5	348.0	346.1	342.9	340.3	338.4
172.5°	345.8	346.6	347.2	346.3	345.7	345.0	342.9	341.4	339.3	337.3	336.4
175°	337.1	338.4	339.1	338.4	338.4	337.8	337.1	336.5	334.6	333.9	333.3
177.5°	331.9	333.0	333.5	333.5	333.5	333.5	333.0	333.0	331.9	331.4	331.9
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	10.8	10.4	9.7	8.9	9.0	9.2	10.9	12.6	11.3	10.5	9.9
90°	17.2	12.7	9.5	7.7	6.4	5.1	2.5	0.7	2.5	5.1	6.4
92.5°	63.6	43.4	28.9	22.9	18.6	15.8	11.3	7.7	11.3	15.8	18.6
95°	147.2	91.8	62.5	47.1	36.9	31.2	24.9	22.3	24.9	31.2	36.9
97.5°	198.4	121.1	84.2	66.9	55.2	46.6	39.8	36.4	39.8	46.6	55.2
100°	209.0	131.3	97.5	79.7	66.9	56.7	51.0	49.1	51.0	56.7	66.9
102.5°	209.5	140.5	109.3	91.4	78.1	67.9	62.2	60.8	62.2	67.9	78.1
105°	212.9	156.1	126.2	108.4	94.3	84.8	80.3	77.8	80.3	84.8	94.3
107.5°	221.7	172.2	143.2	125.1	111.3	102.5	98.2	96.1	98.2	102.5	111.3
110°	228.8	182.9	154.9	136.4	123.0	114.7	110.9	108.4	110.9	114.7	123.0



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	236.4	193.1	166.1	147.1	134.2	126.5	122.1	119.5	122.1	126.5	134.2
115°	247.9	209.0	181.6	164.4	151.6	144.1	140.2	137.1	140.2	144.1	151.6
117.5°	260.2	223.7	198.4	180.5	168.3	161.5	157.7	155.2	157.7	161.5	168.3
120°	268.3	233.9	209.0	191.2	178.5	172.7	168.9	166.3	168.9	172.7	178.5
122.5°	275.5	243.6	220.3	201.9	189.1	182.9	179.1	177.1	179.1	182.9	189.1
125°	286.8	258.1	235.1	217.4	204.6	196.9	193.1	191.2	193.1	196.9	204.6
127.5°	297.3	271.7	249.3	231.0	218.7	210.3	205.0	202.4	205.0	210.3	218.7
130°	304.0	279.8	257.5	239.6	226.9	217.9	211.6	209.0	211.6	217.9	226.9
132.5°	310.6	286.9	265.6	247.8	234.6	225.1	218.3	215.2	218.3	225.1	234.6
135°	319.3	297.0	276.6	258.8	244.1	234.6	226.9	224.4	226.9	234.6	244.1
137.5°	326.0	305.2	285.0	268.5	253.9	243.7	236.0	233.0	236.0	243.7	253.9
140°	329.5	309.7	290.7	274.0	260.0	249.8	242.1	239.6	242.1	249.8	260.0
142.5°	332.6	313.3	294.7	279.2	265.6	255.4	248.3	246.2	248.3	255.4	265.6
145°	336.5	318.7	301.4	287.4	274.7	265.1	258.8	256.2	258.8	265.1	274.7
147.5°	338.7	323.0	306.8	294.3	283.7	274.9	268.8	266.9	268.8	274.9	283.7
150°	339.7	325.1	310.4	298.9	289.3	281.0	276.0	274.0	276.0	281.0	289.3
152.5°	340.2	327.1	314.0	303.5	294.4	287.1	282.1	281.2	282.1	287.1	294.4
155°	341.0	330.1	319.3	309.7	302.7	295.7	291.9	291.2	291.9	295.7	302.7
157.5°	341.0	332.3	323.1	315.1	309.5	303.4	300.3	299.7	300.3	303.4	309.5
160°	341.0	333.3	325.6	318.7	313.6	308.4	305.9	305.2	305.9	308.4	313.6
162.5°	340.5	333.9	327.2	321.7	317.2	313.1	310.5	310.9	310.5	313.1	317.2
165°	339.1	334.6	328.9	325.1	321.9	318.0	316.7	317.4	316.7	318.0	321.9
167.5°	338.2	334.4	330.3	327.8	325.5	323.1	322.0	322.8	322.0	323.1	325.5
170°	337.1	333.9	330.8	328.9	327.6	325.6	325.1	326.3	325.1	325.6	327.6
172.5°	335.6	333.5	331.3	329.9	329.1	327.2	327.6	328.3	327.6	327.2	329.1
175°	333.9	332.6	331.4	330.8	330.8	329.5	330.1	330.8	330.1	329.5	330.8
177.5°	333.0	331.9	331.4	331.4	331.4	330.4	330.9	331.9	330.9	330.4	331.4
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	9.8	9.7	9.5	10.4	11.2	10.8	10.7	10.1	9.9	10.1	9.9
90°	7.7	9.5	12.7	17.2	21.0	21.7	21.0	20.4	19.2	20.4	21.0
92.5°	22.9	28.9	43.4	63.6	81.7	82.8	70.0	55.6	47.7	42.3	38.4
95°	47.1	62.5	91.8	147.2	221.2	249.8	218.6	167.0	128.1	101.3	87.3
97.5°	66.9	84.2	121.1	198.4	321.2	426.5	447.4	389.6	318.8	249.8	203.8
100°	79.7	97.5	131.3	209.0	346.7	503.4	595.3	581.9	502.9	415.6	338.4
102.5°	91.4	109.3	140.5	209.5	337.0	506.1	650.3	707.8	690.0	626.1	544.4
105°	108.4	126.2	156.1	212.9	318.0	472.2	641.8	774.4	846.4	854.7	833.6
107.5°	125.1	143.2	172.2	221.7	308.6	436.0	585.8	726.4	834.9	901.2	932.1
110°	136.4	154.9	182.9	228.8	306.6	418.7	550.7	685.1	799.2	880.8	933.0



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.1	166.1	193.1	236.4	307.0	407.5	526.2	647.4	756.8	844.1	904.0
115°	164.4	181.6	209.0	247.9	309.7	395.2	495.9	601.0	699.1	782.6	848.2
117.5°	180.5	198.4	223.7	260.2	314.3	389.1	476.7	566.1	652.2	728.0	789.5
120°	191.2	209.0	233.9	268.3	317.4	385.6	466.5	548.7	627.8	695.3	753.3
122.5°	201.9	220.3	243.6	275.5	321.0	383.5	457.9	535.0	607.4	671.3	723.7
125°	217.4	235.1	258.1	286.8	326.3	379.8	445.5	514.9	580.6	636.7	684.4
127.5°	231.0	249.3	271.7	297.3	331.8	377.6	434.0	495.2	554.6	607.5	651.6
130°	239.6	257.5	279.8	304.0	335.9	376.7	426.4	482.4	537.3	587.6	629.7
132.5°	247.8	265.6	286.9	310.6	340.0	376.2	420.3	470.2	521.0	567.2	606.7
135°	258.8	276.6	297.0	319.3	344.8	375.4	411.7	453.1	495.2	537.3	572.9
137.5°	268.5	285.0	305.2	326.0	349.1	375.3	405.7	439.5	474.7	508.1	539.2
140°	274.0	290.7	309.7	329.5	351.1	374.7	402.2	430.8	461.5	490.7	518.8
142.5°	279.2	294.7	313.3	332.6	352.7	374.7	398.6	423.7	449.7	474.9	498.4
145°	287.4	301.4	318.7	336.5	354.3	373.5	393.9	413.6	434.6	454.4	472.9
147.5°	294.3	306.8	323.0	338.7	354.9	371.2	389.1	405.9	422.4	437.8	451.3
150°	298.9	310.4	325.1	339.7	354.3	369.7	384.9	400.2	414.3	427.6	439.1
152.5°	303.5	314.0	327.1	340.2	353.4	367.1	381.4	394.6	407.6	419.0	428.9
155°	309.7	319.3	330.1	341.0	351.8	362.6	374.7	386.9	397.1	406.6	413.6
157.5°	315.1	323.1	332.3	341.0	348.9	358.1	368.5	377.8	386.4	394.4	399.8
160°	318.7	325.6	333.3	341.0	347.3	355.0	363.9	372.2	379.2	386.2	390.7
162.5°	321.7	327.2	333.9	340.5	345.8	352.5	359.8	366.6	372.6	378.5	382.0
165°	325.1	328.9	334.6	339.1	342.9	347.3	353.1	358.2	362.6	367.1	369.7
167.5°	327.8	330.3	334.4	338.2	340.0	342.9	346.4	350.2	353.6	356.6	359.0
170°	328.9	330.8	333.9	337.1	338.4	340.3	342.9	346.1	348.0	350.5	351.8
172.5°	329.9	331.3	333.5	335.6	336.4	337.3	339.3	341.4	342.9	345.0	345.7
175°	330.8	331.4	332.6	333.9	333.3	333.9	334.6	336.5	337.1	337.8	338.4
177.5°	331.4	331.4	331.9	333.0	331.9	331.4	331.9	333.0	333.0	333.5	333.5
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930
 CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	9.9	9.4	9.9	9.4	9.9	9.4	9.9	9.9	10.1	9.9	10.1
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	20.4	19.2	20.4
92.5°	37.8	35.8	36.4	35.3	36.4	35.8	37.8	38.4	42.3	47.7	55.6
95°	79.0	73.9	72.0	72.6	72.0	73.9	79.0	87.3	101.3	128.1	167.0
97.5°	173.3	157.7	148.4	143.0	148.4	157.7	173.3	203.8	249.8	318.8	389.6
100°	285.5	258.1	239.6	228.1	239.6	258.1	285.5	338.4	415.6	502.9	581.9
102.5°	486.9	440.1	417.0	401.5	417.0	440.1	486.9	544.4	626.1	690.0	707.8
105°	794.1	754.6	727.2	718.3	727.2	754.6	794.1	833.6	854.7	846.4	774.4
107.5°	937.0	934.8	929.4	917.5	929.4	934.8	937.0	932.1	901.2	834.9	726.4
110°	960.4	972.6	978.3	977.6	978.3	972.6	960.4	933.0	880.8	799.2	685.1



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	942.1	962.4	973.2	976.6	973.2	962.4	942.1	904.0	844.1	756.8	647.4
115°	893.5	922.8	939.4	945.2	939.4	922.8	893.5	848.2	782.6	699.1	601.0
117.5°	835.7	866.7	884.1	888.9	884.1	866.7	835.7	789.5	728.0	652.2	566.1
120°	797.9	827.9	846.4	852.7	846.4	827.9	797.9	753.3	695.3	627.8	548.7
122.5°	763.8	793.2	809.7	815.0	809.7	793.2	763.8	723.7	671.3	607.4	535.0
125°	721.5	745.7	761.6	766.7	761.6	745.7	721.5	684.4	636.7	580.6	514.9
127.5°	683.9	706.5	720.3	724.4	720.3	706.5	683.9	651.6	607.5	554.6	495.2
130°	660.9	682.6	695.3	700.4	695.3	682.6	660.9	629.7	587.6	537.3	482.4
132.5°	637.5	659.1	670.8	675.4	670.8	659.1	637.5	606.7	567.2	521.0	470.2
135°	600.4	621.4	632.8	635.4	632.8	621.4	600.4	572.9	537.3	495.2	453.1
137.5°	564.2	582.3	592.3	596.1	592.3	582.3	564.2	539.2	508.1	474.7	439.5
140°	539.2	555.7	565.3	569.2	565.3	555.7	539.2	518.8	490.7	461.5	430.8
142.5°	517.8	532.8	541.4	542.1	541.4	532.8	517.8	498.4	474.9	449.7	423.7
145°	488.2	499.0	505.4	507.3	505.4	499.0	488.2	472.9	454.4	434.6	413.6
147.5°	464.0	472.6	477.0	478.1	477.0	472.6	464.0	451.3	437.8	422.4	405.9
150°	448.7	456.3	460.2	460.8	460.2	456.3	448.7	439.1	427.6	414.3	400.2
152.5°	436.4	443.0	445.9	446.0	445.9	443.0	436.4	428.9	419.0	407.6	394.6
155°	420.6	425.1	427.6	426.4	427.6	425.1	420.6	413.6	406.6	397.1	386.9
157.5°	404.8	408.5	409.7	409.7	409.7	408.5	404.8	399.8	394.4	386.4	377.8
160°	395.2	398.4	398.9	398.9	398.9	398.4	395.2	390.7	386.2	379.2	372.2
162.5°	386.5	388.7	389.3	388.7	389.3	388.7	386.5	382.0	378.5	372.6	366.6
165°	372.2	374.7	374.7	374.1	374.7	374.7	372.2	369.7	367.1	362.6	358.2
167.5°	360.1	361.5	361.3	360.6	361.3	361.5	360.1	359.0	356.6	353.6	350.2
170°	352.5	354.3	353.7	352.5	353.7	354.3	352.5	351.8	350.5	348.0	346.1
172.5°	346.3	347.2	346.6	345.8	346.6	347.2	346.3	345.7	345.0	342.9	341.4
175°	338.4	339.1	338.4	337.1	338.4	339.1	338.4	338.4	337.8	337.1	336.5
177.5°	333.5	333.5	333.0	331.9	333.0	333.5	333.5	333.5	333.5	333.0	333.0
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	10.7	10.8	11.2	10.4	9.5	9.7	9.8	9.9	10.5	11.3	12.6
90°	21.0	21.7	21.0	17.2	12.7	9.5	7.7	6.4	5.1	2.5	0.7
92.5°	70.0	82.8	81.7	63.6	43.4	28.9	22.9	18.6	15.8	11.3	7.7
95°	218.6	249.8	221.2	147.2	91.8	62.5	47.1	36.9	31.2	24.9	22.3
97.5°	447.4	426.5	321.2	198.4	121.1	84.2	66.9	55.2	46.6	39.8	36.4
100°	595.3	503.4	346.7	209.0	131.3	97.5	79.7	66.9	56.7	51.0	49.1
102.5°	650.3	506.1	337.0	209.5	140.5	109.3	91.4	78.1	67.9	62.2	60.8
105°	641.8	472.2	318.0	212.9	156.1	126.2	108.4	94.3	84.8	80.3	77.8
107.5°	585.8	436.0	308.6	221.7	172.2	143.2	125.1	111.3	102.5	98.2	96.1
110°	550.7	418.7	306.6	228.8	182.9	154.9	136.4	123.0	114.7	110.9	108.4



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	526.2	407.5	307.0	236.4	193.1	166.1	147.1	134.2	126.5	122.1	119.5
115°	495.9	395.2	309.7	247.9	209.0	181.6	164.4	151.6	144.1	140.2	137.1
117.5°	476.7	389.1	314.3	260.2	223.7	198.4	180.5	168.3	161.5	157.7	155.2
120°	466.5	385.6	317.4	268.3	233.9	209.0	191.2	178.5	172.7	168.9	166.3
122.5°	457.9	383.5	321.0	275.5	243.6	220.3	201.9	189.1	182.9	179.1	177.1
125°	445.5	379.8	326.3	286.8	258.1	235.1	217.4	204.6	196.9	193.1	191.2
127.5°	434.0	377.6	331.8	297.3	271.7	249.3	231.0	218.7	210.3	205.0	202.4
130°	426.4	376.7	335.9	304.0	279.8	257.5	239.6	226.9	217.9	211.6	209.0
132.5°	420.3	376.2	340.0	310.6	286.9	265.6	247.8	234.6	225.1	218.3	215.2
135°	411.7	375.4	344.8	319.3	297.0	276.6	258.8	244.1	234.6	226.9	224.4
137.5°	405.7	375.3	349.1	326.0	305.2	285.0	268.5	253.9	243.7	236.0	233.0
140°	402.2	374.7	351.1	329.5	309.7	290.7	274.0	260.0	249.8	242.1	239.6
142.5°	398.6	374.7	352.7	332.6	313.3	294.7	279.2	265.6	255.4	248.3	246.2
145°	393.9	373.5	354.3	336.5	318.7	301.4	287.4	274.7	265.1	258.8	256.2
147.5°	389.1	371.2	354.9	338.7	323.0	306.8	294.3	283.7	274.9	268.8	266.9
150°	384.9	369.7	354.3	339.7	325.1	310.4	298.9	289.3	281.0	276.0	274.0
152.5°	381.4	367.1	353.4	340.2	327.1	314.0	303.5	294.4	287.1	282.1	281.2
155°	374.7	362.6	351.8	341.0	330.1	319.3	309.7	302.7	295.7	291.9	291.2
157.5°	368.5	358.1	348.9	341.0	332.3	323.1	315.1	309.5	303.4	300.3	299.7
160°	363.9	355.0	347.3	341.0	333.3	325.6	318.7	313.6	308.4	305.9	305.2
162.5°	359.8	352.5	345.8	340.5	333.9	327.2	321.7	317.2	313.1	310.5	310.9
165°	353.1	347.3	342.9	339.1	334.6	328.9	325.1	321.9	318.0	316.7	317.4
167.5°	346.4	342.9	340.0	338.2	334.4	330.3	327.8	325.5	323.1	322.0	322.8
170°	342.9	340.3	338.4	337.1	333.9	330.8	328.9	327.6	325.6	325.1	326.3
172.5°	339.3	337.3	336.4	335.6	333.5	331.3	329.9	329.1	327.2	327.6	328.3
175°	334.6	333.9	333.3	333.9	332.6	331.4	330.8	330.8	329.5	330.1	330.8
177.5°	331.9	331.4	331.9	333.0	331.9	331.4	331.4	331.4	330.4	330.9	331.9
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	10.9	9.2	9.0	8.9	9.7	10.4	10.8	11.6	12.1	11.6	11.9
90°	2.5	5.1	6.4	7.7	9.5	12.7	17.2	21.0	21.7	21.0	20.4
92.5°	11.3	15.8	18.6	22.9	28.9	43.4	63.6	81.7	82.8	70.0	55.6
95°	24.9	31.2	36.9	47.1	62.5	91.8	147.2	221.2	249.8	218.6	167.0
97.5°	39.8	46.6	55.2	66.9	84.2	121.1	198.4	321.2	426.5	447.4	389.6
100°	51.0	56.7	66.9	79.7	97.5	131.3	209.0	346.7	503.4	595.3	581.9
102.5°	62.2	67.9	78.1	91.4	109.3	140.5	209.5	337.0	506.1	650.3	707.8
105°	80.3	84.8	94.3	108.4	126.2	156.1	212.9	318.0	472.2	641.8	774.4
107.5°	98.2	102.5	111.3	125.1	143.2	172.2	221.7	308.6	436.0	585.8	726.4
110°	110.9	114.7	123.0	136.4	154.9	182.9	228.8	306.6	418.7	550.7	685.1



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	122.1	126.5	134.2	147.1	166.1	193.1	236.4	307.0	407.5	526.2	647.4
115°	140.2	144.1	151.6	164.4	181.6	209.0	247.9	309.7	395.2	495.9	601.0
117.5°	157.7	161.5	168.3	180.5	198.4	223.7	260.2	314.3	389.1	476.7	566.1
120°	168.9	172.7	178.5	191.2	209.0	233.9	268.3	317.4	385.6	466.5	548.7
122.5°	179.1	182.9	189.1	201.9	220.3	243.6	275.5	321.0	383.5	457.9	535.0
125°	193.1	196.9	204.6	217.4	235.1	258.1	286.8	326.3	379.8	445.5	514.9
127.5°	205.0	210.3	218.7	231.0	249.3	271.7	297.3	331.8	377.6	434.0	495.2
130°	211.6	217.9	226.9	239.6	257.5	279.8	304.0	335.9	376.7	426.4	482.4
132.5°	218.3	225.1	234.6	247.8	265.6	286.9	310.6	340.0	376.2	420.3	470.2
135°	226.9	234.6	244.1	258.8	276.6	297.0	319.3	344.8	375.4	411.7	453.1
137.5°	236.0	243.7	253.9	268.5	285.0	305.2	326.0	349.1	375.3	405.7	439.5
140°	242.1	249.8	260.0	274.0	290.7	309.7	329.5	351.1	374.7	402.2	430.8
142.5°	248.3	255.4	265.6	279.2	294.7	313.3	332.6	352.7	374.7	398.6	423.7
145°	258.8	265.1	274.7	287.4	301.4	318.7	336.5	354.3	373.5	393.9	413.6
147.5°	268.8	274.9	283.7	294.3	306.8	323.0	338.7	354.9	371.2	389.1	405.9
150°	276.0	281.0	289.3	298.9	310.4	325.1	339.7	354.3	369.7	384.9	400.2
152.5°	282.1	287.1	294.4	303.5	314.0	327.1	340.2	353.4	367.1	381.4	394.6
155°	291.9	295.7	302.7	309.7	319.3	330.1	341.0	351.8	362.6	374.7	386.9
157.5°	300.3	303.4	309.5	315.1	323.1	332.3	341.0	348.9	358.1	368.5	377.8
160°	305.9	308.4	313.6	318.7	325.6	333.3	341.0	347.3	355.0	363.9	372.2
162.5°	310.5	313.1	317.2	321.7	327.2	333.9	340.5	345.8	352.5	359.8	366.6
165°	316.7	318.0	321.9	325.1	328.9	334.6	339.1	342.9	347.3	353.1	358.2
167.5°	322.0	323.1	325.5	327.8	330.3	334.4	338.2	340.0	342.9	346.4	350.2
170°	325.1	325.6	327.6	328.9	330.8	333.9	337.1	338.4	340.3	342.9	346.1
172.5°	327.6	327.2	329.1	329.9	331.3	333.5	335.6	336.4	337.3	339.3	341.4
175°	330.1	329.5	330.8	330.8	331.4	332.6	333.9	333.3	333.9	334.6	336.5
177.5°	330.9	330.4	331.4	331.4	331.4	331.9	333.0	331.9	331.4	331.9	333.0
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4



TEST NUMBER: P331719-930
 CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	11.2	11.4	11.6	11.6	11.6	11.6	11.2
90°	19.2	20.4	21.0	21.0	21.0	21.0	21.0
92.5°	47.7	42.3	38.4	37.8	35.8	36.4	35.3
95°	128.1	101.3	87.3	79.0	73.9	72.0	72.6
97.5°	318.8	249.8	203.8	173.3	157.7	148.4	143.0
100°	502.9	415.6	338.4	285.5	258.1	239.6	228.1
102.5°	690.0	626.1	544.4	486.9	440.1	417.0	401.5
105°	846.4	854.7	833.6	794.1	754.6	727.2	718.3
107.5°	834.9	901.2	932.1	937.0	934.8	929.4	917.5
110°	799.2	880.8	933.0	960.4	972.6	978.3	977.6



TEST NUMBER: P331719-930

CATALOG NUMBER: SA2XXRDIP-C865D725U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	756.8	844.1	904.0	942.1	962.4	973.2	976.6
115°	699.1	782.6	848.2	893.5	922.8	939.4	945.2
117.5°	652.2	728.0	789.5	835.7	866.7	884.1	888.9
120°	627.8	695.3	753.3	797.9	827.9	846.4	852.7
122.5°	607.4	671.3	723.7	763.8	793.2	809.7	815.0
125°	580.6	636.7	684.4	721.5	745.7	761.6	766.7
127.5°	554.6	607.5	651.6	683.9	706.5	720.3	724.4
130°	537.3	587.6	629.7	660.9	682.6	695.3	700.4
132.5°	521.0	567.2	606.7	637.5	659.1	670.8	675.4
135°	495.2	537.3	572.9	600.4	621.4	632.8	635.4
137.5°	474.7	508.1	539.2	564.2	582.3	592.3	596.1
140°	461.5	490.7	518.8	539.2	555.7	565.3	569.2
142.5°	449.7	474.9	498.4	517.8	532.8	541.4	542.1
145°	434.6	454.4	472.9	488.2	499.0	505.4	507.3
147.5°	422.4	437.8	451.3	464.0	472.6	477.0	478.1
150°	414.3	427.6	439.1	448.7	456.3	460.2	460.8
152.5°	407.6	419.0	428.9	436.4	443.0	445.9	446.0
155°	397.1	406.6	413.6	420.6	425.1	427.6	426.4
157.5°	386.4	394.4	399.8	404.8	408.5	409.7	409.7
160°	379.2	386.2	390.7	395.2	398.4	398.9	398.9
162.5°	372.6	378.5	382.0	386.5	388.7	389.3	388.7
165°	362.6	367.1	369.7	372.2	374.7	374.7	374.1
167.5°	353.6	356.6	359.0	360.1	361.5	361.3	360.6
170°	348.0	350.5	351.8	352.5	354.3	353.7	352.5
172.5°	342.9	345.0	345.7	346.3	347.2	346.6	345.8
175°	337.1	337.8	338.4	338.4	339.1	338.4	337.1
177.5°	333.0	333.5	333.5	333.5	333.5	333.0	331.9
180°	331.4	331.4	331.4	331.4	331.4	331.4	331.4

(END OF REPORT)