

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: P331830-935

Luminaire Tested: **S122RDIW-S865D710U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331830-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S865D710U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

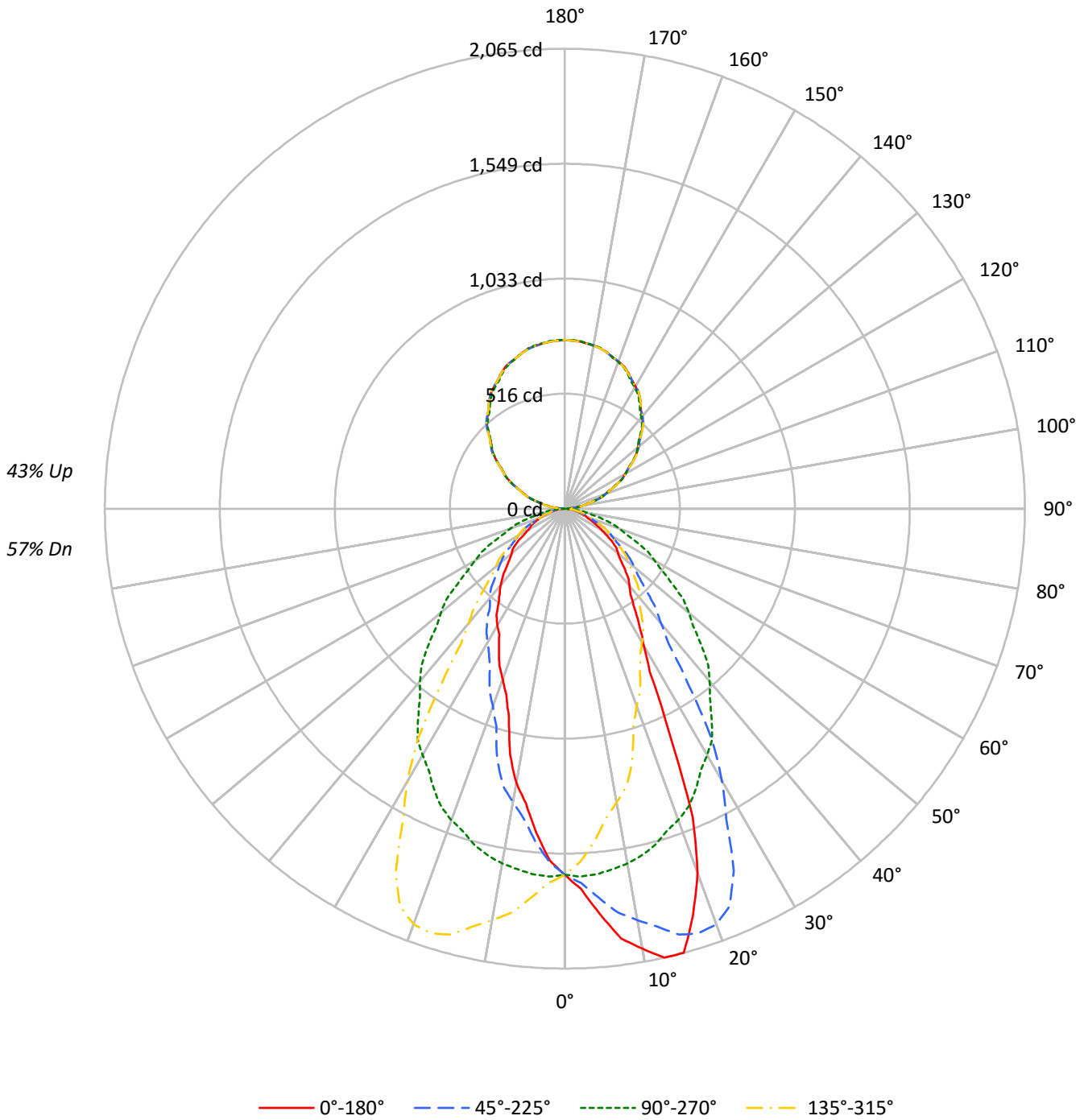
Lumens per Lamp: N/A  
Luminaire Lumens: 4961.5 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.6  
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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57	57	57	57	
1	100	96	93	89	93	90	87	84	78	76	74	67	65	64	57	56	55	50	50	50	50	
2	92	85	79	75	86	80	75	70	69	66	62	60	57	55	51	49	48	43	43	43	43	
3	85	76	69	63	79	71	65	60	62	58	54	54	50	48	46	44	42	38	38	38	38	
4	78	68	60	55	73	64	57	52	56	51	47	49	45	42	42	39	37	33	33	33	33	
5	72	61	53	48	67	57	51	45	51	45	41	44	40	37	38	35	33	30	30	30	30	
6	67	55	47	42	62	52	45	40	46	41	36	41	36	33	35	32	29	27	27	27	27	
7	62	50	43	37	58	48	41	36	42	37	33	37	33	30	33	29	27	24	24	24	24	
8	58	46	39	33	54	44	37	32	39	33	29	34	30	27	30	27	24	22	22	22	22	
9	54	42	35	30	51	40	34	29	36	31	27	32	28	24	28	25	22	20	20	20	20	
10	51	39	32	27	48	37	31	26	33	28	24	30	25	22	26	23	20	19	19	19	19	

**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	3.1
10°-20°	434.3	8.8
20°-30°	559.6	11.3
30°-40°	531.8	10.7
40°-50°	455.6	9.2
50°-60°	346.9	7.0
60°-70°	219.3	4.4
70°-80°	109.5	2.2
80°-90°	31.5	0.6
90°-100°	48.0	1.0
100°-110°	149.0	3.0
110°-120°	254.7	5.1
120°-130°	334.9	6.8
130°-140°	375.9	7.6
140°-150°	368.6	7.4
150°-160°	309.2	6.2
160°-170°	205.1	4.1
170°-180°	71.7	1.4
0°-30°	1149.8	23.2
0°-40°	1681.6	33.9
0°-60°	2484.1	50.1
0°-90°	2844.5	57.3
90°-120°	451.7	9.1
90°-150°	1531.1	30.9
90°-180°	2117.0	42.7
0°-180°	4961.5	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	10
95°	40	33	40	33	40	44
105°	142	137	142	137	142	149
115°	256	256	256	256	256	252
125°	373	372	373	372	373	333
135°	487	481	487	481	487	375
145°	590	584	590	584	590	369
155°	673	668	673	668	673	310
165°	727	726	727	726	727	205
175°	753	756	753	756	753	72
180°	757	757	757	757	757	



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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°	11.6	12.1	12.1	12.1	12.0	12.1	12.1	12.6	12.2	12.7	11.6
90°	21.7	21.6	21.4	21.3	21.2	21.3	21.5	21.8	22.0	22.4	19.2
92.5°	20.7	20.7	20.7	20.6	20.6	20.6	20.5	20.4	20.4	20.3	19.5
95°	39.6	39.9	40.2	40.5	40.7	40.9	40.9	40.9	40.9	40.9	40.6
97.5°	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.2
100°	87.6	87.6	87.8	88.0	88.1	88.2	88.2	88.2	88.2	88.2	87.7
102.5°	109.0	109.2	109.3	109.4	109.6	109.6	109.4	109.3	109.3	109.1	108.6
105°	141.8	141.8	141.8	141.8	141.8	141.7	141.4	141.1	140.9	140.6	140.3
107.5°	172.8	173.4	174.1	174.7	175.4	175.6	175.6	175.4	175.3	175.2	175.2
110°	196.8	197.2	197.6	198.0	198.5	198.7	198.7	198.7	198.7	198.7	198.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.8	220.1	220.4	220.8	221.0	221.4	221.7	222.1	222.4	222.7	222.8
115°	255.5	256.0	256.4	256.8	257.3	257.5	257.7	257.9	258.0	258.1	258.4
117.5°	289.6	290.1	290.5	290.9	291.4	291.8	292.1	292.5	292.8	293.2	293.9
120°	313.7	314.1	314.5	315.0	315.4	315.6	315.6	315.6	315.6	315.6	316.8
122.5°	337.3	337.5	337.9	338.1	338.5	338.8	339.1	339.5	339.8	340.2	341.0
125°	373.2	373.2	373.4	373.6	373.7	373.9	374.4	374.8	375.2	375.7	376.1
127.5°	405.9	406.3	406.7	407.2	407.7	408.1	408.6	409.1	409.7	410.2	410.7
130°	429.4	429.9	430.5	431.0	431.6	432.0	432.3	432.7	432.9	433.2	433.4
132.5°	451.9	452.3	452.7	453.2	453.7	454.2	454.8	455.5	456.1	456.7	456.7
135°	486.8	487.2	487.7	488.1	488.5	488.9	489.0	489.1	489.2	489.4	489.1
137.5°	518.5	519.1	519.7	520.2	520.8	521.2	521.2	521.3	521.5	521.6	521.2
140°	540.5	541.1	541.7	542.3	542.8	543.0	543.0	543.0	543.0	543.0	542.3
142.5°	560.4	561.0	561.5	562.1	562.7	562.9	562.8	562.7	562.6	562.5	562.0
145°	590.4	590.9	591.5	592.0	592.6	592.8	592.7	592.5	592.4	592.3	591.4
147.5°	617.1	617.6	618.1	618.7	619.2	619.3	619.0	618.7	618.4	618.1	617.5
150°	634.5	634.9	635.2	635.7	636.1	636.1	635.7	635.2	634.9	634.5	633.9
152.5°	650.8	651.3	651.9	652.4	653.0	653.0	652.4	651.9	651.3	650.8	650.1
155°	672.8	673.2	673.6	674.1	674.5	674.3	673.6	672.9	672.2	671.5	671.1
157.5°	691.6	692.3	693.0	693.7	694.4	694.2	693.3	692.3	691.4	690.4	690.2
160°	703.4	704.0	704.6	705.2	705.7	705.6	704.7	703.9	703.0	702.1	702.0
162.5°	713.7	714.4	715.1	715.7	716.4	716.3	715.3	714.3	713.3	712.4	712.2
165°	727.1	727.8	728.5	729.2	730.0	729.8	728.8	727.8	726.8	725.8	725.8
167.5°	738.0	738.8	739.5	740.3	741.0	740.9	739.9	738.9	737.9	736.9	736.9
170°	743.6	744.5	745.4	746.2	747.1	747.0	746.1	745.0	744.1	743.0	743.2
172.5°	748.3	749.2	750.0	750.9	751.7	751.7	750.6	749.7	748.6	747.6	747.8
175°	753.3	754.1	755.0	755.8	756.6	756.6	755.6	754.6	753.6	752.6	752.9
177.5°	755.5	756.2	756.9	757.6	758.3	758.3	757.6	756.9	756.2	755.5	755.8
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



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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°	11.0	10.8	10.2	9.3	9.4	9.5	11.5	13.3	11.9	10.8	10.3
90°	16.1	13.0	9.9	7.5	5.8	4.0	2.3	0.6	2.3	4.0	5.8
92.5°	18.9	18.1	17.4	16.4	15.2	13.9	12.7	11.4	12.7	13.9	15.2
95°	40.3	40.0	39.8	38.9	37.5	36.1	34.6	33.2	34.6	36.1	37.5
97.5°	67.7	67.2	66.6	65.7	64.4	63.2	61.9	60.7	61.9	63.2	64.4
100°	87.3	86.9	86.4	85.7	84.6	83.4	82.3	81.1	82.3	83.4	84.6
102.5°	108.1	107.5	106.9	106.2	105.3	104.4	103.5	102.6	103.5	104.4	105.3
105°	140.0	139.7	139.4	139.1	138.6	138.2	137.8	137.3	137.8	138.2	138.6
107.5°	175.2	175.2	175.2	174.9	174.3	173.7	173.0	172.4	173.0	173.7	174.3
110°	198.7	198.7	198.7	198.3	197.4	196.6	195.7	194.8	195.7	196.6	197.4





TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	222.9	223.1	223.2	222.8	222.0	221.1	220.2	219.4	220.2	221.1	222.0
115°	258.6	259.0	259.2	259.0	258.1	257.3	256.4	255.5	256.4	257.3	258.1
117.5°	294.7	295.5	296.3	296.1	295.0	293.9	292.7	291.6	292.7	293.9	295.0
120°	317.9	319.0	320.1	320.1	319.0	317.9	316.8	315.6	316.8	317.9	319.0
122.5°	341.7	342.5	343.4	343.0	341.6	340.4	339.0	337.6	339.0	340.4	341.6
125°	376.5	376.9	377.4	376.9	375.7	374.4	373.2	371.9	373.2	374.4	375.7
127.5°	411.2	411.7	412.2	411.6	410.0	408.5	406.8	405.2	406.8	408.5	410.0
130°	433.8	434.0	434.3	433.5	431.7	429.8	428.0	426.1	428.0	429.8	431.7
132.5°	456.6	456.5	456.5	455.6	454.2	452.7	451.2	449.7	451.2	452.7	454.2
135°	488.9	488.5	488.3	487.3	485.8	484.2	482.7	481.1	482.7	484.2	485.8
137.5°	520.9	520.5	520.1	519.3	518.1	516.8	515.5	514.2	515.5	516.8	518.1
140°	541.7	541.0	540.2	539.2	538.0	536.7	535.4	534.2	535.4	536.7	538.0
142.5°	561.5	561.0	560.6	559.6	558.4	557.2	555.9	554.6	555.9	557.2	558.4
145°	590.6	589.7	588.8	588.0	586.9	585.9	585.0	583.9	585.0	585.9	586.9
147.5°	616.9	616.4	615.8	614.9	613.7	612.5	611.3	610.2	611.3	612.5	613.7
150°	633.3	632.7	632.1	631.5	630.6	629.7	628.9	628.0	628.9	629.7	630.6
152.5°	649.5	648.8	648.1	647.3	646.4	645.6	644.7	643.9	644.7	645.6	646.4
155°	670.6	670.2	669.8	669.3	668.9	668.5	668.0	667.6	668.0	668.5	668.9
157.5°	689.9	689.7	689.4	689.1	688.8	688.5	688.3	687.9	688.3	688.5	688.8
160°	701.9	701.7	701.6	701.4	701.1	700.8	700.5	700.3	700.5	700.8	701.1
162.5°	712.1	712.0	711.8	711.7	711.6	711.6	711.5	711.4	711.5	711.6	711.6
165°	725.8	725.8	725.8	725.9	726.0	726.2	726.3	726.4	726.3	726.2	726.0
167.5°	736.9	737.0	737.0	737.3	737.7	738.1	738.6	739.0	738.6	738.1	737.7
170°	743.3	743.5	743.6	743.9	744.3	744.8	745.2	745.6	745.2	744.8	744.3
172.5°	748.0	748.0	748.2	748.5	748.9	749.3	749.8	750.2	749.8	749.3	748.9
175°	753.2	753.5	753.8	754.1	754.6	755.0	755.4	755.8	755.4	755.0	754.6
177.5°	756.0	756.2	756.5	756.7	757.1	757.4	757.8	758.1	757.8	757.4	757.1
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**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°	10.2	10.2	9.9	10.5	11.2	11.4	11.3	10.8	10.7	10.7	10.2
90°	7.5	9.9	13.0	16.1	19.2	22.4	22.0	21.8	21.5	21.3	21.2
92.5°	16.4	17.4	18.1	18.9	19.5	20.3	20.4	20.4	20.5	20.6	20.6
95°	38.9	39.8	40.0	40.3	40.6	40.9	40.9	40.9	40.9	40.9	40.7
97.5°	65.7	66.6	67.2	67.7	68.2	68.7	68.7	68.7	68.7	68.7	68.7
100°	85.7	86.4	86.9	87.3	87.7	88.2	88.2	88.2	88.2	88.2	88.1
102.5°	106.2	106.9	107.5	108.1	108.6	109.1	109.3	109.3	109.4	109.6	109.6
105°	139.1	139.4	139.7	140.0	140.3	140.6	140.9	141.1	141.4	141.7	141.8
107.5°	174.9	175.2	175.2	175.2	175.2	175.2	175.3	175.4	175.6	175.6	175.4
110°	198.3	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.7	198.5



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	222.8	223.2	223.1	222.9	222.8	222.7	222.4	222.1	221.7	221.4	221.0
115°	259.0	259.2	259.0	258.6	258.4	258.1	258.0	257.9	257.7	257.5	257.3
117.5°	296.1	296.3	295.5	294.7	293.9	293.2	292.8	292.5	292.1	291.8	291.4
120°	320.1	320.1	319.0	317.9	316.8	315.6	315.6	315.6	315.6	315.6	315.4
122.5°	343.0	343.4	342.5	341.7	341.0	340.2	339.8	339.5	339.1	338.8	338.5
125°	376.9	377.4	376.9	376.5	376.1	375.7	375.2	374.8	374.4	373.9	373.7
127.5°	411.6	412.2	411.7	411.2	410.7	410.2	409.7	409.1	408.6	408.1	407.7
130°	433.5	434.3	434.0	433.8	433.4	433.2	432.9	432.7	432.3	432.0	431.6
132.5°	455.6	456.5	456.5	456.6	456.7	456.7	456.1	455.5	454.8	454.2	453.7
135°	487.3	488.3	488.5	488.9	489.1	489.4	489.2	489.1	489.0	488.9	488.5
137.5°	519.3	520.1	520.5	520.9	521.2	521.6	521.5	521.3	521.2	521.2	520.8
140°	539.2	540.2	541.0	541.7	542.3	543.0	543.0	543.0	543.0	543.0	542.8
142.5°	559.6	560.6	561.0	561.5	562.0	562.5	562.6	562.7	562.8	562.9	562.7
145°	588.0	588.8	589.7	590.6	591.4	592.3	592.4	592.5	592.7	592.8	592.6
147.5°	614.9	615.8	616.4	616.9	617.5	618.1	618.4	618.7	619.0	619.3	619.2
150°	631.5	632.1	632.7	633.3	633.9	634.5	634.9	635.2	635.7	636.1	636.1
152.5°	647.3	648.1	648.8	649.5	650.1	650.8	651.3	651.9	652.4	653.0	653.0
155°	669.3	669.8	670.2	670.6	671.1	671.5	672.2	672.9	673.6	674.3	674.5
157.5°	689.1	689.4	689.7	689.9	690.2	690.4	691.4	692.3	693.3	694.2	694.4
160°	701.4	701.6	701.7	701.9	702.0	702.1	703.0	703.9	704.7	705.6	705.7
162.5°	711.7	711.8	712.0	712.1	712.2	712.4	713.3	714.3	715.3	716.3	716.4
165°	725.9	725.8	725.8	725.8	725.8	725.8	726.8	727.8	728.8	729.8	730.0
167.5°	737.3	737.0	737.0	736.9	736.9	736.9	737.9	738.9	739.9	740.9	741.0
170°	743.9	743.6	743.5	743.3	743.2	743.0	744.1	745.0	746.1	747.0	747.1
172.5°	748.5	748.2	748.0	748.0	747.8	747.6	748.6	749.7	750.6	751.7	751.7
175°	754.1	753.8	753.5	753.2	752.9	752.6	753.6	754.6	755.6	756.6	756.6
177.5°	756.7	756.5	756.2	756.0	755.8	755.5	756.2	756.9	757.6	758.3	758.3
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**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°	10.2	9.7	10.2	9.8	10.2	9.7	10.2	10.2	10.7	10.7	10.8
90°	21.3	21.4	21.6	21.7	21.6	21.4	21.3	21.2	21.3	21.5	21.8
92.5°	20.6	20.7	20.7	20.7	20.7	20.7	20.6	20.6	20.6	20.5	20.4
95°	40.5	40.2	39.9	39.6	39.9	40.2	40.5	40.7	40.9	40.9	40.9
97.5°	68.7	68.7	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7
100°	88.0	87.8	87.6	87.6	87.6	87.8	88.0	88.1	88.2	88.2	88.2
102.5°	109.4	109.3	109.2	109.0	109.2	109.3	109.4	109.6	109.6	109.4	109.3
105°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.7	141.4	141.1
107.5°	174.7	174.1	173.4	172.8	173.4	174.1	174.7	175.4	175.6	175.6	175.4
110°	198.0	197.6	197.2	196.8	197.2	197.6	198.0	198.5	198.7	198.7	198.7



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	220.8	220.4	220.1	219.8	220.1	220.4	220.8	221.0	221.4	221.7	222.1
115°	256.8	256.4	256.0	255.5	256.0	256.4	256.8	257.3	257.5	257.7	257.9
117.5°	290.9	290.5	290.1	289.6	290.1	290.5	290.9	291.4	291.8	292.1	292.5
120°	315.0	314.5	314.1	313.7	314.1	314.5	315.0	315.4	315.6	315.6	315.6
122.5°	338.1	337.9	337.5	337.3	337.5	337.9	338.1	338.5	338.8	339.1	339.5
125°	373.6	373.4	373.2	373.2	373.2	373.4	373.6	373.7	373.9	374.4	374.8
127.5°	407.2	406.7	406.3	405.9	406.3	406.7	407.2	407.7	408.1	408.6	409.1
130°	431.0	430.5	429.9	429.4	429.9	430.5	431.0	431.6	432.0	432.3	432.7
132.5°	453.2	452.7	452.3	451.9	452.3	452.7	453.2	453.7	454.2	454.8	455.5
135°	488.1	487.7	487.2	486.8	487.2	487.7	488.1	488.5	488.9	489.0	489.1
137.5°	520.2	519.7	519.1	518.5	519.1	519.7	520.2	520.8	521.2	521.2	521.3
140°	542.3	541.7	541.1	540.5	541.1	541.7	542.3	542.8	543.0	543.0	543.0
142.5°	562.1	561.5	561.0	560.4	561.0	561.5	562.1	562.7	562.9	562.8	562.7
145°	592.0	591.5	590.9	590.4	590.9	591.5	592.0	592.6	592.8	592.7	592.5
147.5°	618.7	618.1	617.6	617.1	617.6	618.1	618.7	619.2	619.3	619.0	618.7
150°	635.7	635.2	634.9	634.5	634.9	635.2	635.7	636.1	636.1	635.7	635.2
152.5°	652.4	651.9	651.3	650.8	651.3	651.9	652.4	653.0	653.0	652.4	651.9
155°	674.1	673.6	673.2	672.8	673.2	673.6	674.1	674.5	674.3	673.6	672.9
157.5°	693.7	693.0	692.3	691.6	692.3	693.0	693.7	694.4	694.2	693.3	692.3
160°	705.2	704.6	704.0	703.4	704.0	704.6	705.2	705.7	705.6	704.7	703.9
162.5°	715.7	715.1	714.4	713.7	714.4	715.1	715.7	716.4	716.3	715.3	714.3
165°	729.2	728.5	727.8	727.1	727.8	728.5	729.2	730.0	729.8	728.8	727.8
167.5°	740.3	739.5	738.8	738.0	738.8	739.5	740.3	741.0	740.9	739.9	738.9
170°	746.2	745.4	744.5	743.6	744.5	745.4	746.2	747.1	747.0	746.1	745.0
172.5°	750.9	750.0	749.2	748.3	749.2	750.0	750.9	751.7	751.7	750.6	749.7
175°	755.8	755.0	754.1	753.3	754.1	755.0	755.8	756.6	756.6	755.6	754.6
177.5°	757.6	756.9	756.2	755.5	756.2	756.9	757.6	758.3	758.3	757.6	756.9
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**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	11.4	11.2	10.5	9.9	10.2	10.2	10.3	10.8	11.9	13.3
90°	22.0	22.4	19.2	16.1	13.0	9.9	7.5	5.8	4.0	2.3	0.6
92.5°	20.4	20.3	19.5	18.9	18.1	17.4	16.4	15.2	13.9	12.7	11.4
95°	40.9	40.9	40.6	40.3	40.0	39.8	38.9	37.5	36.1	34.6	33.2
97.5°	68.7	68.7	68.2	67.7	67.2	66.6	65.7	64.4	63.2	61.9	60.7
100°	88.2	88.2	87.7	87.3	86.9	86.4	85.7	84.6	83.4	82.3	81.1
102.5°	109.3	109.1	108.6	108.1	107.5	106.9	106.2	105.3	104.4	103.5	102.6
105°	140.9	140.6	140.3	140.0	139.7	139.4	139.1	138.6	138.2	137.8	137.3
107.5°	175.3	175.2	175.2	175.2	175.2	175.2	174.9	174.3	173.7	173.0	172.4
110°	198.7	198.7	198.7	198.7	198.7	198.7	198.3	197.4	196.6	195.7	194.8



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.4	222.7	222.8	222.9	223.1	223.2	222.8	222.0	221.1	220.2	219.4
115°	258.0	258.1	258.4	258.6	259.0	259.2	259.0	258.1	257.3	256.4	255.5
117.5°	292.8	293.2	293.9	294.7	295.5	296.3	296.1	295.0	293.9	292.7	291.6
120°	315.6	315.6	316.8	317.9	319.0	320.1	320.1	319.0	317.9	316.8	315.6
122.5°	339.8	340.2	341.0	341.7	342.5	343.4	343.0	341.6	340.4	339.0	337.6
125°	375.2	375.7	376.1	376.5	376.9	377.4	376.9	375.7	374.4	373.2	371.9
127.5°	409.7	410.2	410.7	411.2	411.7	412.2	411.6	410.0	408.5	406.8	405.2
130°	432.9	433.2	433.4	433.8	434.0	434.3	433.5	431.7	429.8	428.0	426.1
132.5°	456.1	456.7	456.7	456.6	456.5	456.5	455.6	454.2	452.7	451.2	449.7
135°	489.2	489.4	489.1	488.9	488.5	488.3	487.3	485.8	484.2	482.7	481.1
137.5°	521.5	521.6	521.2	520.9	520.5	520.1	519.3	518.1	516.8	515.5	514.2
140°	543.0	543.0	542.3	541.7	541.0	540.2	539.2	538.0	536.7	535.4	534.2
142.5°	562.6	562.5	562.0	561.5	561.0	560.6	559.6	558.4	557.2	555.9	554.6
145°	592.4	592.3	591.4	590.6	589.7	588.8	588.0	586.9	585.9	585.0	583.9
147.5°	618.4	618.1	617.5	616.9	616.4	615.8	614.9	613.7	612.5	611.3	610.2
150°	634.9	634.5	633.9	633.3	632.7	632.1	631.5	630.6	629.7	628.9	628.0
152.5°	651.3	650.8	650.1	649.5	648.8	648.1	647.3	646.4	645.6	644.7	643.9
155°	672.2	671.5	671.1	670.6	670.2	669.8	669.3	668.9	668.5	668.0	667.6
157.5°	691.4	690.4	690.2	689.9	689.7	689.4	689.1	688.8	688.5	688.3	687.9
160°	703.0	702.1	702.0	701.9	701.7	701.6	701.4	701.1	700.8	700.5	700.3
162.5°	713.3	712.4	712.2	712.1	712.0	711.8	711.7	711.6	711.6	711.5	711.4
165°	726.8	725.8	725.8	725.8	725.8	725.8	725.9	726.0	726.2	726.3	726.4
167.5°	737.9	736.9	736.9	736.9	737.0	737.0	737.3	737.7	738.1	738.6	739.0
170°	744.1	743.0	743.2	743.3	743.5	743.6	743.9	744.3	744.8	745.2	745.6
172.5°	748.6	747.6	747.8	748.0	748.0	748.2	748.5	748.9	749.3	749.8	750.2
175°	753.6	752.6	752.9	753.2	753.5	753.8	754.1	754.6	755.0	755.4	755.8
177.5°	756.2	755.5	755.8	756.0	756.2	756.5	756.7	757.1	757.4	757.8	758.1
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



TEST NUMBER: P331830-935

CATALOG NUMBER: S122RDIW-S865D710U935-4F0-1E-UDD-A1

**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	9.5	9.4	9.3	10.2	10.8	11.0	11.6	12.7	12.2	12.6
90°	2.3	4.0	5.8	7.5	9.9	13.0	16.1	19.2	22.4	22.0	21.8
92.5°	12.7	13.9	15.2	16.4	17.4	18.1	18.9	19.5	20.3	20.4	20.4
95°	34.6	36.1	37.5	38.9	39.8	40.0	40.3	40.6	40.9	40.9	40.9
97.5°	61.9	63.2	64.4	65.7	66.6	67.2	67.7	68.2	68.7	68.7	68.7
100°	82.3	83.4	84.6	85.7	86.4	86.9	87.3	87.7	88.2	88.2	88.2
102.5°	103.5	104.4	105.3	106.2	106.9	107.5	108.1	108.6	109.1	109.3	109.3
105°	137.8	138.2	138.6	139.1	139.4	139.7	140.0	140.3	140.6	140.9	141.1
107.5°	173.0	173.7	174.3	174.9	175.2	175.2	175.2	175.2	175.2	175.3	175.4
110°	195.7	196.6	197.4	198.3	198.7	198.7	198.7	198.7	198.7	198.7	198.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	220.2	221.1	222.0	222.8	223.2	223.1	222.9	222.8	222.7	222.4	222.1
115°	256.4	257.3	258.1	259.0	259.2	259.0	258.6	258.4	258.1	258.0	257.9
117.5°	292.7	293.9	295.0	296.1	296.3	295.5	294.7	293.9	293.2	292.8	292.5
120°	316.8	317.9	319.0	320.1	320.1	319.0	317.9	316.8	315.6	315.6	315.6
122.5°	339.0	340.4	341.6	343.0	343.4	342.5	341.7	341.0	340.2	339.8	339.5
125°	373.2	374.4	375.7	376.9	377.4	376.9	376.5	376.1	375.7	375.2	374.8
127.5°	406.8	408.5	410.0	411.6	412.2	411.7	411.2	410.7	410.2	409.7	409.1
130°	428.0	429.8	431.7	433.5	434.3	434.0	433.8	433.4	433.2	432.9	432.7
132.5°	451.2	452.7	454.2	455.6	456.5	456.5	456.6	456.7	456.7	456.1	455.5
135°	482.7	484.2	485.8	487.3	488.3	488.5	488.9	489.1	489.4	489.2	489.1
137.5°	515.5	516.8	518.1	519.3	520.1	520.5	520.9	521.2	521.6	521.5	521.3
140°	535.4	536.7	538.0	539.2	540.2	541.0	541.7	542.3	543.0	543.0	543.0
142.5°	555.9	557.2	558.4	559.6	560.6	561.0	561.5	562.0	562.5	562.6	562.7
145°	585.0	585.9	586.9	588.0	588.8	589.7	590.6	591.4	592.3	592.4	592.5
147.5°	611.3	612.5	613.7	614.9	615.8	616.4	616.9	617.5	618.1	618.4	618.7
150°	628.9	629.7	630.6	631.5	632.1	632.7	633.3	633.9	634.5	634.9	635.2
152.5°	644.7	645.6	646.4	647.3	648.1	648.8	649.5	650.1	650.8	651.3	651.9
155°	668.0	668.5	668.9	669.3	669.8	670.2	670.6	671.1	671.5	672.2	672.9
157.5°	688.3	688.5	688.8	689.1	689.4	689.7	689.9	690.2	690.4	691.4	692.3
160°	700.5	700.8	701.1	701.4	701.6	701.7	701.9	702.0	702.1	703.0	703.9
162.5°	711.5	711.6	711.6	711.7	711.8	712.0	712.1	712.2	712.4	713.3	714.3
165°	726.3	726.2	726.0	725.9	725.8	725.8	725.8	725.8	725.8	726.8	727.8
167.5°	738.6	738.1	737.7	737.3	737.0	737.0	736.9	736.9	736.9	737.9	738.9
170°	745.2	744.8	744.3	743.9	743.6	743.5	743.3	743.2	743.0	744.1	745.0
172.5°	749.8	749.3	748.9	748.5	748.2	748.0	748.0	747.8	747.6	748.6	749.7
175°	755.4	755.0	754.6	754.1	753.8	753.5	753.2	752.9	752.6	753.6	754.6
177.5°	757.8	757.4	757.1	756.7	756.5	756.2	756.0	755.8	755.5	756.2	756.9
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1



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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°	12.1	12.1	12.0	12.1	12.1	12.1	11.6
90°	21.5	21.3	21.2	21.3	21.4	21.6	21.7
92.5°	20.5	20.6	20.6	20.6	20.7	20.7	20.7
95°	40.9	40.9	40.7	40.5	40.2	39.9	39.6
97.5°	68.7	68.7	68.7	68.7	68.7	68.6	68.6
100°	88.2	88.2	88.1	88.0	87.8	87.6	87.6
102.5°	109.4	109.6	109.6	109.4	109.3	109.2	109.0
105°	141.4	141.7	141.8	141.8	141.8	141.8	141.8
107.5°	175.6	175.6	175.4	174.7	174.1	173.4	172.8
110°	198.7	198.7	198.5	198.0	197.6	197.2	196.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	221.7	221.4	221.0	220.8	220.4	220.1	219.8
115°	257.7	257.5	257.3	256.8	256.4	256.0	255.5
117.5°	292.1	291.8	291.4	290.9	290.5	290.1	289.6
120°	315.6	315.6	315.4	315.0	314.5	314.1	313.7
122.5°	339.1	338.8	338.5	338.1	337.9	337.5	337.3
125°	374.4	373.9	373.7	373.6	373.4	373.2	373.2
127.5°	408.6	408.1	407.7	407.2	406.7	406.3	405.9
130°	432.3	432.0	431.6	431.0	430.5	429.9	429.4
132.5°	454.8	454.2	453.7	453.2	452.7	452.3	451.9
135°	489.0	488.9	488.5	488.1	487.7	487.2	486.8
137.5°	521.2	521.2	520.8	520.2	519.7	519.1	518.5
140°	543.0	543.0	542.8	542.3	541.7	541.1	540.5
142.5°	562.8	562.9	562.7	562.1	561.5	561.0	560.4
145°	592.7	592.8	592.6	592.0	591.5	590.9	590.4
147.5°	619.0	619.3	619.2	618.7	618.1	617.6	617.1
150°	635.7	636.1	636.1	635.7	635.2	634.9	634.5
152.5°	652.4	653.0	653.0	652.4	651.9	651.3	650.8
155°	673.6	674.3	674.5	674.1	673.6	673.2	672.8
157.5°	693.3	694.2	694.4	693.7	693.0	692.3	691.6
160°	704.7	705.6	705.7	705.2	704.6	704.0	703.4
162.5°	715.3	716.3	716.4	715.7	715.1	714.4	713.7
165°	728.8	729.8	730.0	729.2	728.5	727.8	727.1
167.5°	739.9	740.9	741.0	740.3	739.5	738.8	738.0
170°	746.1	747.0	747.1	746.2	745.4	744.5	743.6
172.5°	750.6	751.7	751.7	750.9	750.0	749.2	748.3
175°	755.6	756.6	756.6	755.8	755.0	754.1	753.3
177.5°	757.6	758.3	758.3	757.6	756.9	756.2	755.5
180°	757.1	757.1	757.1	757.1	757.1	757.1	757.1

(END OF REPORT)