

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: P331834

Luminaire Tested: **S122RDIW-S865D970U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331834
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-S865D970U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6661.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

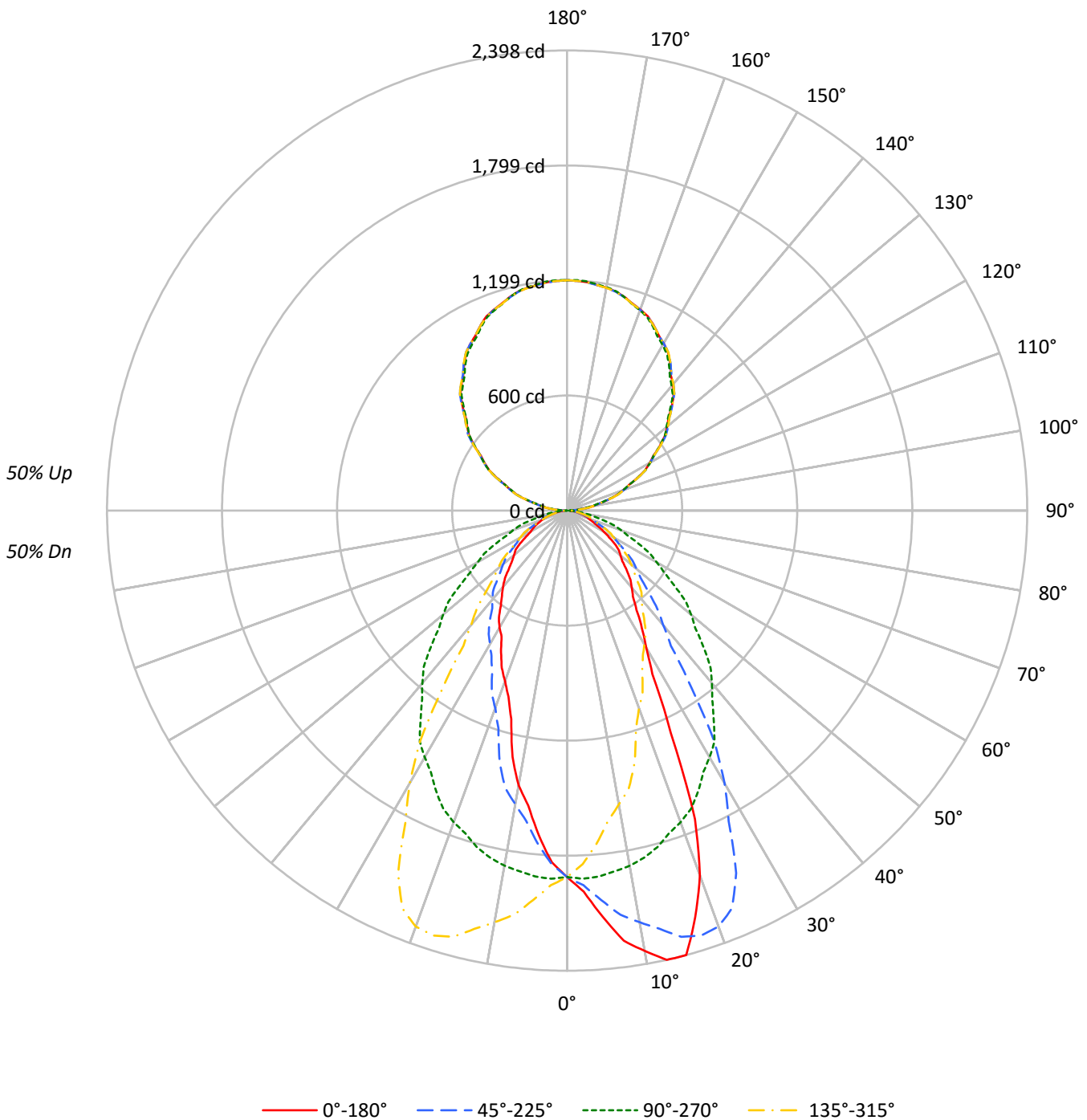
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30832	30832	30832	30832
5°	34434	31024	27509	31024
10°	38203	30808	23845	30808
15°	40082	30355	18788	30355
20°	34749	29687	16258	29687
25°	22789	28771	14516	28771
30°	15340	27660	13136	27660
35°	12423	26260	11848	26260
40°	11049	24738	10964	24738
45°	9999	22952	9787	22952
50°	9100	21182	9065	21182
55°	8555	19220	8442	19220
60°	7156	17418	7072	17418
65°	6032	15817	6842	15817
70°	5575	14124	6453	14124
75°	5215	12296	5958	12296
80°	4816	10116	5309	10116
85°	4428	7984	4668	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.7
10°-20°	504.4	7.6
20°-30°	650.0	9.8
30°-40°	617.7	9.3
40°-50°	529.1	7.9
50°-60°	402.9	6.0
60°-70°	254.7	3.8
70°-80°	127.2	1.9
80°-90°	37.9	0.6
90°-100°	76.0	1.1
100°-110°	236.2	3.5
110°-120°	403.8	6.1
120°-130°	531.0	8.0
130°-140°	595.9	8.9
140°-150°	584.3	8.8
150°-160°	490.1	7.4
160°-170°	325.1	4.9
170°-180°	113.6	1.7
0°-30°	1335.4	20.0
0°-40°	1953.1	29.3
0°-60°	2885.1	43.3
0°-90°	3305.0	49.6
90°-120°	716.0	10.7
90°-150°	2427.3	36.4
90°-180°	3356.0	50.4
0°-180°	6661.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1910	1910	1910	1910	1910	
5°	2125	1914	1697	1914	2125	210
15°	2398	1816	1124	1816	2398	647
25°	1279	1615	815	1615	1279	607
35°	630	1332	601	1332	630	403
45°	438	1005	429	1005	438	339
55°	304	683	300	683	304	267
65°	158	414	179	414	158	161
75°	84	197	96	197	84	89
85°	24	43	25	43	24	27
90°	34	1	34	1	34	16
95°	63	53	63	53	63	70
105°	225	218	225	218	225	237
115°	405	405	405	405	405	400
125°	592	590	592	590	592	527
135°	772	763	772	763	772	594
145°	936	926	936	926	936	584
155°	1066	1058	1066	1058	1066	491
165°	1153	1152	1153	1152	1153	325
175°	1194	1198	1194	1198	1194	113
180°	1200	1200	1200	1200	1200	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1987.1	1988.7	1990.3	1986.5	1986.5	1983.4	1976.5	1971.2	1956.3	1954.2	1954.2
5°	2124.6	2123.2	2125.9	2117.3	2105.3	2102.7	2090.1	2073.5	2056.2	2037.0	2033.0
7.5°	2261.2	2259.2	2253.9	2252.5	2243.3	2223.3	2203.0	2181.4	2152.7	2124.7	2110.6
10°	2330.2	2352.1	2338.9	2315.6	2320.3	2289.1	2272.5	2244.0	2220.1	2178.3	2169.0
12.5°	2398.2	2406.8	2402.6	2389.4	2383.5	2361.8	2339.4	2314.6	2270.5	2233.0	2200.3
15°	2397.9	2410.5	2413.8	2409.9	2413.2	2411.9	2399.9	2379.3	2340.9	2299.7	2263.9
17.5°	2220.9	2229.7	2251.4	2266.1	2284.7	2324.0	2343.4	2350.9	2345.2	2321.7	2296.5
20°	2022.4	2007.8	2068.8	2100.0	2126.5	2192.9	2250.0	2271.9	2307.0	2306.4	2299.7
22.5°	1741.0	1744.5	1802.4	1839.4	1916.9	1983.2	2048.3	2130.7	2198.7	2243.7	2270.0
25°	1279.2	1304.5	1362.2	1412.6	1498.9	1622.3	1734.4	1864.5	1987.2	2084.1	2176.3
27.5°	960.8	962.6	1008.4	1055.0	1106.2	1207.3	1348.5	1503.8	1678.8	1823.2	1989.3
30°	822.8	818.8	838.0	866.5	910.3	988.6	1094.8	1247.4	1421.9	1639.5	1833.3
32.5°	725.1	725.3	739.8	760.9	797.3	850.1	922.8	1046.8	1211.7	1425.6	1652.8
35°	630.3	629.7	640.3	655.5	670.8	704.6	754.4	819.4	932.9	1132.6	1364.8
37.5°	562.4	565.3	570.5	580.0	596.9	615.7	645.6	689.3	770.1	888.2	1083.4
40°	524.2	525.5	532.8	540.8	550.7	565.3	589.9	625.0	684.1	778.3	920.9
42.5°	489.1	490.5	495.6	503.1	510.9	525.5	545.8	576.2	624.1	697.6	815.3
45°	437.9	437.9	442.6	445.9	454.5	467.8	484.4	509.6	542.7	597.2	675.5
47.5°	389.9	390.0	393.1	398.8	404.2	414.6	430.9	451.5	475.6	517.7	584.6
50°	362.3	362.9	364.9	369.6	372.9	382.2	394.8	412.7	437.9	470.4	526.2
52.5°	340.0	339.6	342.1	344.1	346.4	353.0	362.4	378.2	400.8	429.0	475.2
55°	303.9	301.2	305.2	308.5	310.5	313.2	318.5	328.4	347.7	371.6	406.1
57.5°	258.8	257.7	260.5	263.5	269.8	276.9	281.5	287.8	297.8	314.9	349.1
60°	221.6	221.6	227.6	229.6	236.9	246.2	255.5	260.8	270.7	282.0	307.2
62.5°	188.7	189.2	192.0	194.0	198.1	209.5	222.5	234.2	243.6	254.4	271.1
65°	157.9	159.2	159.2	160.6	163.2	165.9	171.2	180.5	197.1	212.3	224.9
67.5°	134.0	134.4	134.8	136.2	136.8	139.7	141.9	146.0	149.8	164.3	179.9
70°	118.1	120.1	119.4	120.8	121.4	122.7	125.4	127.4	133.4	136.7	146.0
72.5°	103.2	104.7	104.6	105.4	107.1	107.4	109.5	111.5	115.3	118.1	123.1
75°	83.6	82.9	83.6	84.9	85.6	86.3	86.3	88.9	90.9	93.6	96.9
77.5°	64.5	65.2	65.0	65.2	65.3	66.5	66.4	67.5	69.5	70.9	72.5
80°	51.8	52.4	51.8	52.4	53.1	53.7	53.1	53.7	55.7	57.1	57.1
82.5°	40.1	40.2	40.6	40.7	40.9	41.0	41.9	42.1	43.5	43.3	43.8
85°	23.9	23.2	23.2	23.2	23.9	24.5	23.9	23.9	24.5	24.5	24.5
87.5°	15.4	15.9	15.8	15.8	15.7	15.8	15.8	16.5	16.0	16.6	15.1
90°	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5	35.0	35.4	30.5
92.5°	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4	32.3	32.2	31.0
95°	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.4
97.5°	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0	109.0	109.0	108.1
100°	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8	139.8	139.8	139.1
102.5°	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4	173.2	173.0	172.1
105°	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7	223.3	222.8	222.4
107.5°	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1	277.9	277.7	277.7
110°	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0	352.5	353.1	353.3
115°	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7	409.0	409.2	409.6
117.5°	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6	464.2	464.7	466.0
120°	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4	500.4	500.4	502.2
122.5°	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2	538.7	539.2	540.5
125°	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2	594.9	595.6	596.2
127.5°	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6	649.4	650.3	651.1
130°	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8	686.3	686.7	687.2
132.5°	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0	723.0	724.0	723.9
135°	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4	775.6	775.8	775.4
137.5°	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5	826.7	826.9	826.3
140°	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9	860.9	860.9	859.8
142.5°	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1	891.9	891.7	891.0
145°	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4	939.1	938.9	937.6
147.5°	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8	980.3	979.8	978.9
150°	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8	1004.9
152.5°	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7	1030.6
155°	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8	1065.6	1064.5	1063.8
157.5°	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6	1096.0	1094.5	1094.1
160°	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8	1114.5	1113.1	1112.9
162.5°	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4	1130.9	1129.3	1129.1
165°	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8	1152.2	1150.6	1150.6
167.5°	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4	1169.8	1168.2	1168.3
170°	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1	1179.5	1178.0	1178.2
172.5°	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4	1186.8	1185.2	1185.5
175°	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3	1194.7	1193.1	1193.6
177.5°	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8	1198.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1955.2	1951.0	1947.3	1937.7	1932.9	1922.3	1920.7	1920.2	1906.4	1893.1	1889.4
5°	2022.4	2011.8	1995.8	1977.3	1958.0	1938.1	1924.8	1914.2	1887.7	1862.5	1847.9
7.5°	2090.1	2067.2	2039.8	2004.6	1975.3	1942.4	1917.9	1896.0	1858.4	1822.3	1798.0
10°	2140.5	2103.3	2066.8	2018.4	1980.6	1943.4	1908.9	1879.1	1836.6	1788.8	1755.0
12.5°	2171.8	2130.9	2080.6	2033.3	1984.3	1937.0	1890.9	1852.5	1802.6	1753.3	1713.0
15°	2214.1	2170.3	2109.3	2041.6	1978.6	1916.9	1863.8	1816.0	1751.0	1691.9	1642.8
17.5°	2248.8	2188.5	2123.0	2044.7	1971.7	1893.3	1824.9	1763.9	1691.5	1620.3	1562.4
20°	2259.9	2200.2	2124.6	2046.3	1960.0	1867.8	1794.1	1727.8	1650.1	1572.5	1506.2
22.5°	2253.0	2206.6	2122.4	2028.7	1940.4	1843.9	1760.7	1683.7	1597.6	1518.4	1441.4
25°	2206.2	2190.2	2110.6	2008.4	1907.6	1795.5	1699.2	1615.0	1516.8	1431.9	1348.2
27.5°	2097.0	2131.3	2082.0	1973.1	1861.0	1740.8	1632.6	1536.7	1434.8	1339.2	1255.9
30°	1991.9	2070.8	2049.6	1948.7	1823.3	1705.2	1583.8	1483.6	1374.8	1276.6	1194.3
32.5°	1848.0	1978.4	1999.2	1914.8	1785.1	1655.3	1528.1	1428.4	1314.8	1211.3	1131.1
35°	1619.0	1814.0	1903.6	1849.9	1719.8	1579.8	1448.4	1332.3	1218.2	1116.0	1036.4
37.5°	1345.7	1611.4	1760.7	1764.5	1645.1	1499.5	1356.5	1241.2	1124.4	1024.1	937.9
40°	1168.4	1456.4	1650.8	1693.9	1593.1	1435.8	1291.2	1173.7	1059.6	961.4	862.6
42.5°	1009.2	1296.1	1535.1	1610.1	1529.9	1373.7	1228.6	1105.8	994.9	902.0	801.0
45°	816.1	1066.9	1330.3	1464.4	1419.9	1275.3	1122.0	1005.2	901.0	820.8	723.9
47.5°	688.5	865.2	1120.1	1301.4	1300.6	1168.6	1017.8	906.0	809.3	734.1	655.7
50°	615.7	769.7	985.3	1191.0	1208.2	1097.4	954.1	843.3	753.1	674.1	611.1
52.5°	550.4	677.3	871.2	1068.4	1117.5	1021.5	882.5	780.2	692.6	620.0	566.0
55°	465.1	563.3	710.6	895.1	969.4	901.7	778.3	682.8	611.8	550.7	504.3
57.5°	393.5	467.1	585.3	733.8	820.4	777.8	676.0	598.4	537.6	482.4	445.7
60°	348.3	408.7	508.9	633.0	728.5	698.7	611.8	539.4	487.7	439.9	405.4
62.5°	305.9	357.8	443.6	544.3	631.9	619.6	548.6	487.9	442.6	399.0	369.8
65°	246.2	284.0	351.0	430.0	500.3	506.3	455.2	414.0	373.6	339.1	313.2
67.5°	196.0	220.7	267.9	334.4	387.1	405.9	374.7	343.3	311.2	284.5	262.1
70°	165.2	185.1	219.6	273.4	321.8	341.7	323.8	299.2	271.4	249.5	230.2
72.5°	133.9	153.3	178.7	218.2	259.7	281.2	275.0	257.3	234.7	216.6	198.4
75°	100.9	106.8	124.1	150.6	183.1	201.7	206.4	197.1	179.1	165.2	154.6
77.5°	74.6	78.2	86.4	100.3	121.6	138.1	144.9	143.8	131.5	123.4	113.5
80°	59.7	61.7	65.7	71.7	87.6	104.2	108.8	108.8	100.2	96.9	86.9
82.5°	45.4	46.8	49.2	52.5	60.0	74.4	79.6	80.7	75.2	70.9	63.0
85°	25.9	25.2	26.5	28.5	29.9	33.8	41.8	43.1	41.8	36.5	34.5
87.5°	14.1	13.7	12.7	11.4	11.4	11.4	13.5	15.6	14.0	13.0	12.4
90°	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0	20.0	22.0	24.0
95°	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7	54.9	57.2	59.4
97.5°	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2	98.2	100.2	102.2
100°	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6	130.4	132.2	134.0
102.5°	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7	164.1	165.5	167.0
105°	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8	218.4	219.1	219.8
107.5°	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3	274.3	275.2	276.2
110°	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9	310.3	311.6	313.0



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8	349.2	350.5	351.9
115°	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1	406.5	407.8	409.2
117.5°	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3	464.1	465.9	467.7
120°	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	502.2	504.0	505.8
122.5°	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2	537.4	539.5	541.7
125°	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5	591.5	593.5	595.6
127.5°	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4	644.9	647.5	650.1
130°	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6	678.5	681.4	684.4
132.5°	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8	715.2	717.6	720.0
135°	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7	765.2	767.6	770.1
137.5°	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1	817.2	819.2	821.2
140°	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7	848.8	850.8	852.8
142.5°	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2	881.2	883.2	885.2
145°	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7	927.3	928.9	930.5
147.5°	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3	969.2	971.1	972.9
150°	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6	997.0	998.3	999.7
152.5°	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8	1022.1	1023.5	1024.8
155°	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4	1059.1	1059.8	1060.5
157.5°	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6	1091.1	1091.5	1092.0
160°	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1	1110.5	1111.0	1111.4
162.5°	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9	1128.0	1128.1	1128.2
165°	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6	1151.4	1151.2	1150.9
167.5°	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5	1170.8	1170.1	1169.4
170°	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0	1181.3	1180.7	1180.0
172.5°	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3	1188.6	1187.9	1187.3
175°	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2	1197.5	1196.9	1196.2
177.5°	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9	1201.3	1200.8	1200.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1882.5	1878.8	1871.9	1861.3	1854.9	1843.8	1836.3	1840.6	1841.6	1840.6	1839.5
5°	1831.9	1818.0	1798.8	1780.2	1762.9	1744.4	1733.7	1729.1	1719.8	1714.5	1711.9
7.5°	1770.8	1746.8	1719.5	1687.2	1659.7	1630.9	1616.2	1608.9	1589.9	1579.5	1570.5
10°	1725.1	1687.3	1660.1	1617.6	1591.8	1553.9	1528.1	1528.7	1502.8	1488.2	1477.6
12.5°	1674.7	1633.2	1587.9	1549.7	1513.7	1483.3	1452.2	1439.5	1412.1	1398.0	1369.3
15°	1591.1	1542.7	1494.9	1443.1	1406.6	1359.5	1314.4	1259.3	1214.9	1176.4	1165.8
17.5°	1499.8	1439.8	1391.9	1331.1	1268.6	1189.4	1137.1	1105.1	1078.3	1058.0	1042.9
20°	1437.2	1376.1	1325.0	1233.5	1149.2	1095.5	1057.0	1032.4	1004.6	982.7	970.7
22.5°	1371.3	1307.6	1238.0	1135.8	1070.1	1027.0	992.7	964.5	945.6	928.5	917.6
25°	1277.9	1208.2	1093.5	1023.1	970.0	924.9	901.0	883.8	863.9	840.7	830.0
27.5°	1179.2	1068.4	986.0	933.7	883.0	853.7	832.2	806.4	788.6	778.2	767.1
30°	1105.4	994.6	930.2	873.2	837.3	804.8	779.6	765.0	747.8	729.9	722.6
32.5°	1023.1	934.6	872.9	825.4	789.0	761.3	741.4	717.8	705.3	694.3	679.0
35°	920.9	853.9	797.5	759.1	724.6	702.0	678.8	664.8	642.3	633.0	627.0
37.5°	834.4	776.3	734.2	693.6	666.3	641.3	627.1	605.0	595.2	582.3	569.7
40°	785.6	728.5	688.1	654.9	624.4	605.8	587.9	570.0	555.4	549.4	534.1
42.5°	735.7	689.3	648.8	612.4	592.0	572.3	549.7	536.5	521.4	511.7	502.3
45°	666.8	625.7	591.2	561.3	538.8	518.2	503.6	481.7	473.1	453.8	445.9
47.5°	606.3	568.1	535.2	506.8	484.8	471.4	450.0	432.9	419.1	407.3	397.0
50°	563.3	531.5	499.6	474.4	454.5	435.3	413.4	404.7	383.5	377.5	371.6
52.5°	524.0	493.8	464.6	439.9	420.0	401.3	382.0	370.8	356.4	350.5	346.1
55°	469.1	439.9	412.0	390.1	370.2	351.0	339.1	325.1	318.5	313.8	308.5
57.5°	413.9	387.6	366.3	344.1	324.1	308.8	295.0	286.6	279.7	273.6	267.3
60°	378.9	353.6	334.4	313.8	293.3	280.7	270.0	260.1	252.1	242.8	240.2
62.5°	341.7	319.7	302.0	282.0	264.1	252.5	242.4	233.0	223.5	209.9	206.2
65°	290.6	273.4	254.8	238.2	222.3	211.0	196.4	185.8	181.8	180.5	179.8
67.5°	244.4	228.1	212.2	195.2	180.7	170.3	162.8	161.2	158.4	157.6	155.8
70°	213.6	198.4	182.5	166.5	152.6	150.6	148.0	145.3	142.0	140.7	139.3
72.5°	186.0	170.3	154.3	141.6	135.6	133.1	130.4	127.8	125.5	124.2	123.4
75°	142.7	128.1	117.4	112.8	109.5	107.5	103.5	101.5	100.2	98.2	97.5
77.5°	102.7	94.5	89.6	86.7	83.2	81.1	78.8	76.8	75.4	75.0	73.9
80°	78.3	74.3	71.0	67.0	65.7	63.0	62.4	60.4	61.0	59.1	59.1
82.5°	60.8	55.7	52.9	51.1	49.8	47.6	47.0	46.0	46.2	44.7	44.7
85°	31.2	29.9	28.5	27.2	27.2	25.2	25.9	25.2	25.2	23.9	23.2
87.5°	12.4	12.7	12.6	13.6	14.6	15.1	15.0	14.3	14.3	14.2	13.6
90°	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5	34.1	33.6	33.5
92.5°	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4	32.5	32.6	32.6
95°	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8	64.8	64.8	64.6
97.5°	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0	109.0	109.0	109.0
100°	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8	139.8	139.8	139.7
102.5°	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4	173.5	173.7	173.7
105°	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7	224.2	224.6	224.9
107.5°	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1	278.3	278.4	278.0
110°	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	314.7



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0	351.5	350.9	350.4
115°	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7	408.5	408.3	407.8
117.5°	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6	463.1	462.5	461.9
120°	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4	500.4	500.4	500.0
122.5°	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2	537.6	537.1	536.6
125°	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2	593.5	592.9	592.4
127.5°	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6	647.8	647.0	646.2
130°	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8	685.4	684.9	684.2
132.5°	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0	721.0	720.0	719.2
135°	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4	775.2	774.9	774.5
137.5°	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5	826.4	826.2	825.6
140°	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9	860.9	860.9	860.5
142.5°	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1	892.3	892.4	892.1
145°	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4	939.6	939.8	939.5
147.5°	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8	981.3	981.8	981.6
150°	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5
152.5°	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1
155°	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8	1067.9	1069.0	1069.2
157.5°	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6	1099.1	1100.6	1100.8
160°	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8	1117.2	1118.5	1118.8
162.5°	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4	1133.9	1135.5	1135.7
165°	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8	1155.3	1156.9	1157.1
167.5°	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4	1173.0	1174.5	1174.7
170°	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1	1182.7	1184.3	1184.4
172.5°	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4	1190.0	1191.5	1191.7
175°	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3	1197.9	1199.4	1199.6
177.5°	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1833.7	1834.7	1833.1	1834.2	1833.1	1834.7	1833.7	1839.5	1840.6	1841.6	1840.6
5°	1708.5	1700.6	1699.2	1697.3	1699.2	1700.6	1708.5	1711.9	1714.5	1719.8	1729.1
7.5°	1559.1	1557.9	1554.6	1550.0	1554.6	1557.9	1559.1	1570.5	1579.5	1589.9	1608.9
10°	1463.0	1459.7	1459.1	1454.4	1459.1	1459.7	1463.0	1477.6	1488.2	1502.8	1528.7
12.5°	1350.5	1329.1	1326.9	1315.3	1326.9	1329.1	1350.5	1369.3	1398.0	1412.1	1439.5
15°	1149.9	1145.9	1132.6	1124.0	1132.6	1145.9	1149.9	1165.8	1176.4	1214.9	1259.3
17.5°	1035.2	1022.2	1018.1	1016.2	1018.1	1022.2	1035.2	1042.9	1058.0	1078.3	1105.1
20°	961.4	949.5	947.5	946.2	947.5	949.5	961.4	970.7	982.7	1004.6	1032.4
22.5°	910.5	898.0	892.8	888.8	892.8	898.0	910.5	917.6	928.5	945.6	964.5
25°	823.4	818.8	816.1	814.8	816.1	818.8	823.4	830.0	840.7	863.9	883.8
27.5°	755.3	745.1	743.1	739.7	743.1	745.1	755.3	767.1	778.2	788.6	806.4
30°	716.6	713.3	708.6	704.6	708.6	713.3	716.6	722.6	729.9	747.8	765.0
32.5°	670.9	668.2	664.0	662.2	664.0	668.2	670.9	679.0	694.3	705.3	717.8
35°	620.4	611.1	607.1	601.1	607.1	611.1	620.4	627.0	633.0	642.3	664.8
37.5°	566.9	562.0	556.4	558.4	556.4	562.0	566.9	569.7	582.3	595.2	605.0
40°	525.5	522.2	520.9	520.2	520.9	522.2	525.5	534.1	549.4	555.4	570.0
42.5°	492.6	483.4	480.0	479.8	480.0	483.4	492.6	502.3	511.7	521.4	536.5
45°	442.6	433.9	428.0	428.6	428.0	433.9	442.6	445.9	453.8	473.1	481.7
47.5°	391.3	391.1	387.4	388.6	387.4	391.1	391.3	397.0	407.3	419.1	432.9
50°	366.9	362.9	360.3	360.9	360.3	362.9	366.9	371.6	377.5	383.5	404.7
52.5°	343.6	340.1	338.0	340.8	338.0	340.1	343.6	346.1	350.5	356.4	370.8
55°	305.2	301.2	300.6	299.9	300.6	301.2	305.2	308.5	313.8	318.5	325.1
57.5°	262.4	259.7	255.7	254.0	255.7	259.7	262.4	267.3	273.6	279.7	286.6
60°	231.6	226.3	219.6	219.0	219.6	226.3	231.6	240.2	242.8	252.1	260.1
62.5°	203.4	202.4	201.0	200.9	201.0	202.4	203.4	206.2	209.9	223.5	233.0
65°	178.5	177.8	178.5	179.1	178.5	177.8	178.5	179.8	180.5	181.8	185.8
67.5°	155.5	154.3	153.1	153.7	153.1	154.3	155.5	155.8	157.6	158.4	161.2
70°	138.0	137.3	136.7	136.7	136.7	137.3	138.0	139.3	140.7	142.0	145.3
72.5°	121.0	120.9	120.2	119.7	120.2	120.9	121.0	123.4	124.2	125.5	127.8
75°	96.9	95.5	95.5	95.5	95.5	95.5	96.9	97.5	98.2	100.2	101.5
77.5°	73.8	73.1	72.5	71.9	72.5	73.1	73.8	73.9	75.0	75.4	76.8
80°	58.4	57.7	57.1	57.1	57.1	57.7	58.4	59.1	59.1	61.0	60.4
82.5°	44.6	43.9	43.8	43.3	43.8	43.9	44.6	44.7	44.7	46.2	46.0
85°	23.9	24.5	23.9	25.2	23.9	24.5	23.9	23.2	23.9	25.2	25.2
87.5°	13.7	13.2	13.7	13.3	13.7	13.2	13.7	13.6	14.2	14.3	14.3
90°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5
92.5°	32.7	32.7	32.8	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4
95°	64.1	63.7	63.2	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8
97.5°	108.9	108.9	108.8	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0
100°	139.4	139.2	139.0	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8
102.5°	173.5	173.2	173.0	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4
105°	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7
107.5°	277.0	275.9	274.9	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1
110°	314.0	313.3	312.6	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.9	349.4	348.9	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0
115°	407.2	406.5	405.8	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7
117.5°	461.3	460.6	459.9	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6
120°	499.3	498.7	498.0	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4
122.5°	536.1	535.6	535.1	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2
125°	592.2	592.0	591.7	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2
127.5°	645.5	644.8	644.1	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6
130°	683.3	682.4	681.5	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8
132.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0
135°	773.8	773.1	772.5	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4
137.5°	824.7	823.8	822.9	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5
140°	859.6	858.7	857.8	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9
142.5°	891.2	890.3	889.4	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1
145°	938.6	937.7	936.8	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4
147.5°	980.8	979.9	979.1	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8
150°	1007.8	1007.1	1006.4	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1
152.5°	1034.3	1033.4	1032.5	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4
155°	1068.6	1067.9	1067.2	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8
157.5°	1099.8	1098.7	1097.6	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6
160°	1117.9	1117.0	1116.1	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8
162.5°	1134.6	1133.5	1132.4	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4
165°	1156.0	1154.9	1153.8	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8
167.5°	1173.6	1172.4	1171.2	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4
170°	1183.0	1181.7	1180.3	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1
172.5°	1190.3	1189.0	1187.6	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4
175°	1198.2	1196.9	1195.5	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3
177.5°	1201.0	1200.0	1198.9	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331834

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1836.3	1843.8	1854.9	1861.3	1871.9	1878.8	1882.5	1889.4	1893.1	1906.4	1920.2
5°	1733.7	1744.4	1762.9	1780.2	1798.8	1818.0	1831.9	1847.9	1862.5	1887.7	1914.2
7.5°	1616.2	1630.9	1659.7	1687.2	1719.5	1746.8	1770.8	1798.0	1822.3	1858.4	1896.0
10°	1528.1	1553.9	1591.8	1617.6	1660.1	1687.3	1725.1	1755.0	1788.8	1836.6	1879.1
12.5°	1452.2	1483.3	1513.7	1549.7	1587.9	1633.2	1674.7	1713.0	1753.3	1802.6	1852.5
15°	1314.4	1359.5	1406.6	1443.1	1494.9	1542.7	1591.1	1642.8	1691.9	1751.0	1816.0
17.5°	1137.1	1189.4	1268.6	1331.1	1391.9	1439.8	1499.8	1562.4	1620.3	1691.5	1763.9
20°	1057.0	1095.5	1149.2	1233.5	1325.0	1376.1	1437.2	1506.2	1572.5	1650.1	1727.8
22.5°	992.7	1027.0	1070.1	1135.8	1238.0	1307.6	1371.3	1441.4	1518.4	1597.6	1683.7
25°	901.0	924.9	970.0	1023.1	1093.5	1208.2	1277.9	1348.2	1431.9	1516.8	1615.0
27.5°	832.2	853.7	883.0	933.7	986.0	1068.4	1179.2	1255.9	1339.2	1434.8	1536.7
30°	779.6	804.8	837.3	873.2	930.2	994.6	1105.4	1194.3	1276.6	1374.8	1483.6
32.5°	741.4	761.3	789.0	825.4	872.9	934.6	1023.1	1131.1	1211.3	1314.8	1428.4
35°	678.8	702.0	724.6	759.1	797.5	853.9	920.9	1036.4	1116.0	1218.2	1332.3
37.5°	627.1	641.3	666.3	693.6	734.2	776.3	834.4	937.9	1024.1	1124.4	1241.2
40°	587.9	605.8	624.4	654.9	688.1	728.5	785.6	862.6	961.4	1059.6	1173.7
42.5°	549.7	572.3	592.0	612.4	648.8	689.3	735.7	801.0	902.0	994.9	1105.8
45°	503.6	518.2	538.8	561.3	591.2	625.7	666.8	723.9	820.8	901.0	1005.2
47.5°	450.0	471.4	484.8	506.8	535.2	568.1	606.3	655.7	734.1	809.3	906.0
50°	413.4	435.3	454.5	474.4	499.6	531.5	563.3	611.1	674.1	753.1	843.3
52.5°	382.0	401.3	420.0	439.9	464.6	493.8	524.0	566.0	620.0	692.6	780.2
55°	339.1	351.0	370.2	390.1	412.0	439.9	469.1	504.3	550.7	611.8	682.8
57.5°	295.0	308.8	324.1	344.1	366.3	387.6	413.9	445.7	482.4	537.6	598.4
60°	270.0	280.7	293.3	313.8	334.4	353.6	378.9	405.4	439.9	487.7	539.4
62.5°	242.4	252.5	264.1	282.0	302.0	319.7	341.7	369.8	399.0	442.6	487.9
65°	196.4	211.0	222.3	238.2	254.8	273.4	290.6	313.2	339.1	373.6	414.0
67.5°	162.8	170.3	180.7	195.2	212.2	228.1	244.4	262.1	284.5	311.2	343.3
70°	148.0	150.6	152.6	166.5	182.5	198.4	213.6	230.2	249.5	271.4	299.2
72.5°	130.4	133.1	135.6	141.6	154.3	170.3	186.0	198.4	216.6	234.7	257.3
75°	103.5	107.5	109.5	112.8	117.4	128.1	142.7	154.6	165.2	179.1	197.1
77.5°	78.8	81.1	83.2	86.7	89.6	94.5	102.7	113.5	123.4	131.5	143.8
80°	62.4	63.0	65.7	67.0	71.0	74.3	78.3	86.9	96.9	100.2	108.8
82.5°	47.0	47.6	49.8	51.1	52.9	55.7	60.8	63.0	70.9	75.2	80.7
85°	25.9	25.2	27.2	27.2	28.5	29.9	31.2	34.5	36.5	41.8	43.1
87.5°	15.0	15.1	14.6	13.6	12.6	12.7	12.4	12.4	13.0	14.0	15.6
90°	35.0	35.4	30.5	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0
92.5°	32.3	32.2	31.0	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0
95°	64.8	64.8	64.4	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7
97.5°	109.0	109.0	108.1	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2
100°	139.8	139.8	139.1	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6
102.5°	173.2	173.0	172.1	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7
105°	223.3	222.8	222.4	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8
107.5°	277.9	277.7	277.7	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3
110°	315.0	315.0	315.0	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	352.5	353.1	353.3	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8
115°	409.0	409.2	409.6	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1
117.5°	464.2	464.7	466.0	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3
120°	500.4	500.4	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4
122.5°	538.7	539.2	540.5	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2
125°	594.9	595.6	596.2	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5
127.5°	649.4	650.3	651.1	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4
130°	686.3	686.7	687.2	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6
132.5°	723.0	724.0	723.9	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8
135°	775.6	775.8	775.4	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7
137.5°	826.7	826.9	826.3	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1
140°	860.9	860.9	859.8	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7
142.5°	891.9	891.7	891.0	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2
145°	939.1	938.9	937.6	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7
147.5°	980.3	979.8	978.9	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3
150°	1006.4	1005.8	1004.9	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6
152.5°	1032.5	1031.7	1030.6	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8
155°	1065.6	1064.5	1063.8	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4
157.5°	1096.0	1094.5	1094.1	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6
160°	1114.5	1113.1	1112.9	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1
162.5°	1130.9	1129.3	1129.1	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9
165°	1152.2	1150.6	1150.6	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6
167.5°	1169.8	1168.2	1168.3	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5
170°	1179.5	1178.0	1178.2	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0
172.5°	1186.8	1185.2	1185.5	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3
175°	1194.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2
177.5°	1198.9	1197.8	1198.2	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1920.7	1922.3	1932.9	1937.7	1947.3	1951.0	1955.2	1954.2	1954.2	1956.3	1971.2
5°	1924.8	1938.1	1958.0	1977.3	1995.8	2011.8	2022.4	2033.0	2037.0	2056.2	2073.5
7.5°	1917.9	1942.4	1975.3	2004.6	2039.8	2067.2	2090.1	2110.6	2124.7	2152.7	2181.4
10°	1908.9	1943.4	1980.6	2018.4	2066.8	2103.3	2140.5	2169.0	2178.3	2220.1	2244.0
12.5°	1890.9	1937.0	1984.3	2033.3	2080.6	2130.9	2171.8	2200.3	2233.0	2270.5	2314.6
15°	1863.8	1916.9	1978.6	2041.6	2109.3	2170.3	2214.1	2263.9	2299.7	2340.9	2379.3
17.5°	1824.9	1893.3	1971.7	2044.7	2123.0	2188.5	2248.8	2296.5	2321.7	2345.2	2350.9
20°	1794.1	1867.8	1960.0	2046.3	2124.6	2200.2	2259.9	2299.7	2306.4	2307.0	2271.9
22.5°	1760.7	1843.9	1940.4	2028.7	2122.4	2206.6	2253.0	2270.0	2243.7	2198.7	2130.7
25°	1699.2	1795.5	1907.6	2008.4	2110.6	2190.2	2206.2	2176.3	2084.1	1987.2	1864.5
27.5°	1632.6	1740.8	1861.0	1973.1	2082.0	2131.3	2097.0	1989.3	1823.2	1678.8	1503.8
30°	1583.8	1705.2	1823.3	1948.7	2049.6	2070.8	1991.9	1833.3	1639.5	1421.9	1247.4
32.5°	1528.1	1655.3	1785.1	1914.8	1999.2	1978.4	1848.0	1652.8	1425.6	1211.7	1046.8
35°	1448.4	1579.8	1719.8	1849.9	1903.6	1814.0	1619.0	1364.8	1132.6	932.9	819.4
37.5°	1356.5	1499.5	1645.1	1764.5	1760.7	1611.4	1345.7	1083.4	888.2	770.1	689.3
40°	1291.2	1435.8	1593.1	1693.9	1650.8	1456.4	1168.4	920.9	778.3	684.1	625.0
42.5°	1228.6	1373.7	1529.9	1610.1	1535.1	1296.1	1009.2	815.3	697.6	624.1	576.2
45°	1122.0	1275.3	1419.9	1464.4	1330.3	1066.9	816.1	675.5	597.2	542.7	509.6
47.5°	1017.8	1168.6	1300.6	1301.4	1120.1	865.2	688.5	584.6	517.7	475.6	451.5
50°	954.1	1097.4	1208.2	1191.0	985.3	769.7	615.7	526.2	470.4	437.9	412.7
52.5°	882.5	1021.5	1117.5	1068.4	871.2	677.3	550.4	475.2	429.0	400.8	378.2
55°	778.3	901.7	969.4	895.1	710.6	563.3	465.1	406.1	371.6	347.7	328.4
57.5°	676.0	777.8	820.4	733.8	585.3	467.1	393.5	349.1	314.9	297.8	287.8
60°	611.8	698.7	728.5	633.0	508.9	408.7	348.3	307.2	282.0	270.7	260.8
62.5°	548.6	619.6	631.9	544.3	443.6	357.8	305.9	271.1	254.4	243.6	234.2
65°	455.2	506.3	500.3	430.0	351.0	284.0	246.2	224.9	212.3	197.1	180.5
67.5°	374.7	405.9	387.1	334.4	267.9	220.7	196.0	179.9	164.3	149.8	146.0
70°	323.8	341.7	321.8	273.4	219.6	185.1	165.2	146.0	136.7	133.4	127.4
72.5°	275.0	281.2	259.7	218.2	178.7	153.3	133.9	123.1	118.1	115.3	111.5
75°	206.4	201.7	183.1	150.6	124.1	106.8	100.9	96.9	93.6	90.9	88.9
77.5°	144.9	138.1	121.6	100.3	86.4	78.2	74.6	72.5	70.9	69.5	67.5
80°	108.8	104.2	87.6	71.7	65.7	61.7	59.7	57.1	57.1	55.7	53.7
82.5°	79.6	74.4	60.0	52.5	49.2	46.8	45.4	43.8	43.3	43.5	42.1
85°	41.8	33.8	29.9	28.5	26.5	25.2	25.9	24.5	24.5	24.5	23.9
87.5°	13.5	11.4	11.4	11.4	12.7	13.7	14.1	15.1	16.6	16.0	16.5
90°	3.7	6.4	9.1	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5
92.5°	20.0	22.0	24.0	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4
95°	54.9	57.2	59.4	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8
97.5°	98.2	100.2	102.2	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0
100°	130.4	132.2	134.0	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8
102.5°	164.1	165.5	167.0	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4
105°	218.4	219.1	219.8	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7
107.5°	274.3	275.2	276.2	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1
110°	310.3	311.6	313.0	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	349.2	350.5	351.9	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0
115°	406.5	407.8	409.2	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7
117.5°	464.1	465.9	467.7	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6
120°	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4
122.5°	537.4	539.5	541.7	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2
125°	591.5	593.5	595.6	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2
127.5°	644.9	647.5	650.1	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6
130°	678.5	681.4	684.4	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8
132.5°	715.2	717.6	720.0	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0
135°	765.2	767.6	770.1	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4
137.5°	817.2	819.2	821.2	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5
140°	848.8	850.8	852.8	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9
142.5°	881.2	883.2	885.2	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1
145°	927.3	928.9	930.5	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4
147.5°	969.2	971.1	972.9	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8
150°	997.0	998.3	999.7	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1
152.5°	1022.1	1023.5	1024.8	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4
155°	1059.1	1059.8	1060.5	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8
157.5°	1091.1	1091.5	1092.0	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6
160°	1110.5	1111.0	1111.4	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8
162.5°	1128.0	1128.1	1128.2	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4
165°	1151.4	1151.2	1150.9	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8
167.5°	1170.8	1170.1	1169.4	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4
170°	1181.3	1180.7	1180.0	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1
172.5°	1188.6	1187.9	1187.3	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4
175°	1197.5	1196.9	1196.2	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3
177.5°	1201.3	1200.8	1200.2	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1976.5	1983.4	1986.5	1986.5	1990.3	1988.7	1987.1
5°	2090.1	2102.7	2105.3	2117.3	2125.9	2123.2	2124.6
7.5°	2203.0	2223.3	2243.3	2252.5	2253.9	2259.2	2261.2
10°	2272.5	2289.1	2320.3	2315.6	2338.9	2352.1	2330.2
12.5°	2339.4	2361.8	2383.5	2389.4	2402.6	2406.8	2398.2
15°	2399.9	2411.9	2413.2	2409.9	2413.8	2410.5	2397.9
17.5°	2343.4	2324.0	2284.7	2266.1	2251.4	2229.7	2220.9
20°	2250.0	2192.9	2126.5	2100.0	2068.8	2007.8	2022.4
22.5°	2048.3	1983.2	1916.9	1839.4	1802.4	1744.5	1741.0
25°	1734.4	1622.3	1498.9	1412.6	1362.2	1304.5	1279.2
27.5°	1348.5	1207.3	1106.2	1055.0	1008.4	962.6	960.8
30°	1094.8	988.6	910.3	866.5	838.0	818.8	822.8
32.5°	922.8	850.1	797.3	760.9	739.8	725.3	725.1
35°	754.4	704.6	670.8	655.5	640.3	629.7	630.3
37.5°	645.6	615.7	596.9	580.0	570.5	565.3	562.4
40°	589.9	565.3	550.7	540.8	532.8	525.5	524.2
42.5°	545.8	525.5	510.9	503.1	495.6	490.5	489.1
45°	484.4	467.8	454.5	445.9	442.6	437.9	437.9
47.5°	430.9	414.6	404.2	398.8	393.1	390.0	389.9
50°	394.8	382.2	372.9	369.6	364.9	362.9	362.3
52.5°	362.4	353.0	346.4	344.1	342.1	339.6	340.0
55°	318.5	313.2	310.5	308.5	305.2	301.2	303.9
57.5°	281.5	276.9	269.8	263.5	260.5	257.7	258.8
60°	255.5	246.2	236.9	229.6	227.6	221.6	221.6
62.5°	222.5	209.5	198.1	194.0	192.0	189.2	188.7
65°	171.2	165.9	163.2	160.6	159.2	159.2	157.9
67.5°	141.9	139.7	136.8	136.2	134.8	134.4	134.0
70°	125.4	122.7	121.4	120.8	119.4	120.1	118.1
72.5°	109.5	107.4	107.1	105.4	104.6	104.7	103.2
75°	86.3	86.3	85.6	84.9	83.6	82.9	83.6
77.5°	66.4	66.5	65.3	65.2	65.0	65.2	64.5
80°	53.1	53.7	53.1	52.4	51.8	52.4	51.8
82.5°	41.9	41.0	40.9	40.7	40.6	40.2	40.1
85°	23.9	24.5	23.9	23.2	23.2	23.2	23.9
87.5°	15.8	15.8	15.7	15.8	15.8	15.9	15.4
90°	34.1	33.6	33.5	33.8	34.0	34.2	34.4
92.5°	32.5	32.6	32.6	32.7	32.7	32.8	32.8
95°	64.8	64.8	64.6	64.1	63.7	63.2	62.8
97.5°	109.0	109.0	109.0	108.9	108.9	108.8	108.8
100°	139.8	139.8	139.7	139.4	139.2	139.0	138.8
102.5°	173.5	173.7	173.7	173.5	173.2	173.0	172.8
105°	224.2	224.6	224.9	224.9	224.9	224.9	224.9
107.5°	278.3	278.4	278.0	277.0	275.9	274.9	273.9
110°	315.0	315.0	314.7	314.0	313.3	312.6	312.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	351.5	350.9	350.4	349.9	349.4	348.9	348.4
115°	408.5	408.3	407.8	407.2	406.5	405.8	405.1
117.5°	463.1	462.5	461.9	461.3	460.6	459.9	459.2
120°	500.4	500.4	500.0	499.3	498.7	498.0	497.3
122.5°	537.6	537.1	536.6	536.1	535.6	535.1	534.6
125°	593.5	592.9	592.4	592.2	592.0	591.7	591.5
127.5°	647.8	647.0	646.2	645.5	644.8	644.1	643.4
130°	685.4	684.9	684.2	683.3	682.4	681.5	680.6
132.5°	721.0	720.0	719.2	718.5	717.7	717.0	716.3
135°	775.2	774.9	774.5	773.8	773.1	772.5	771.8
137.5°	826.4	826.2	825.6	824.7	823.8	822.9	822.0
140°	860.9	860.9	860.5	859.6	858.7	857.8	856.9
142.5°	892.3	892.4	892.1	891.2	890.3	889.4	888.5
145°	939.6	939.8	939.5	938.6	937.7	936.8	935.9
147.5°	981.3	981.8	981.6	980.8	979.9	979.1	978.2
150°	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8
152.5°	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7
155°	1067.9	1069.0	1069.2	1068.6	1067.9	1067.2	1066.5
157.5°	1099.1	1100.6	1100.8	1099.8	1098.7	1097.6	1096.5
160°	1117.2	1118.5	1118.8	1117.9	1117.0	1116.1	1115.2
162.5°	1133.9	1135.5	1135.7	1134.6	1133.5	1132.4	1131.4
165°	1155.3	1156.9	1157.1	1156.0	1154.9	1153.8	1152.6
167.5°	1173.0	1174.5	1174.7	1173.6	1172.4	1171.2	1170.1
170°	1182.7	1184.3	1184.4	1183.0	1181.7	1180.3	1179.0
172.5°	1190.0	1191.5	1191.7	1190.3	1189.0	1187.6	1186.3
175°	1197.9	1199.4	1199.6	1198.2	1196.9	1195.5	1194.2
177.5°	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2

(END OF REPORT)