

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: P331713-840

Luminaire Tested: **S122RDIP-S865D530U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331713-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S865D530U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

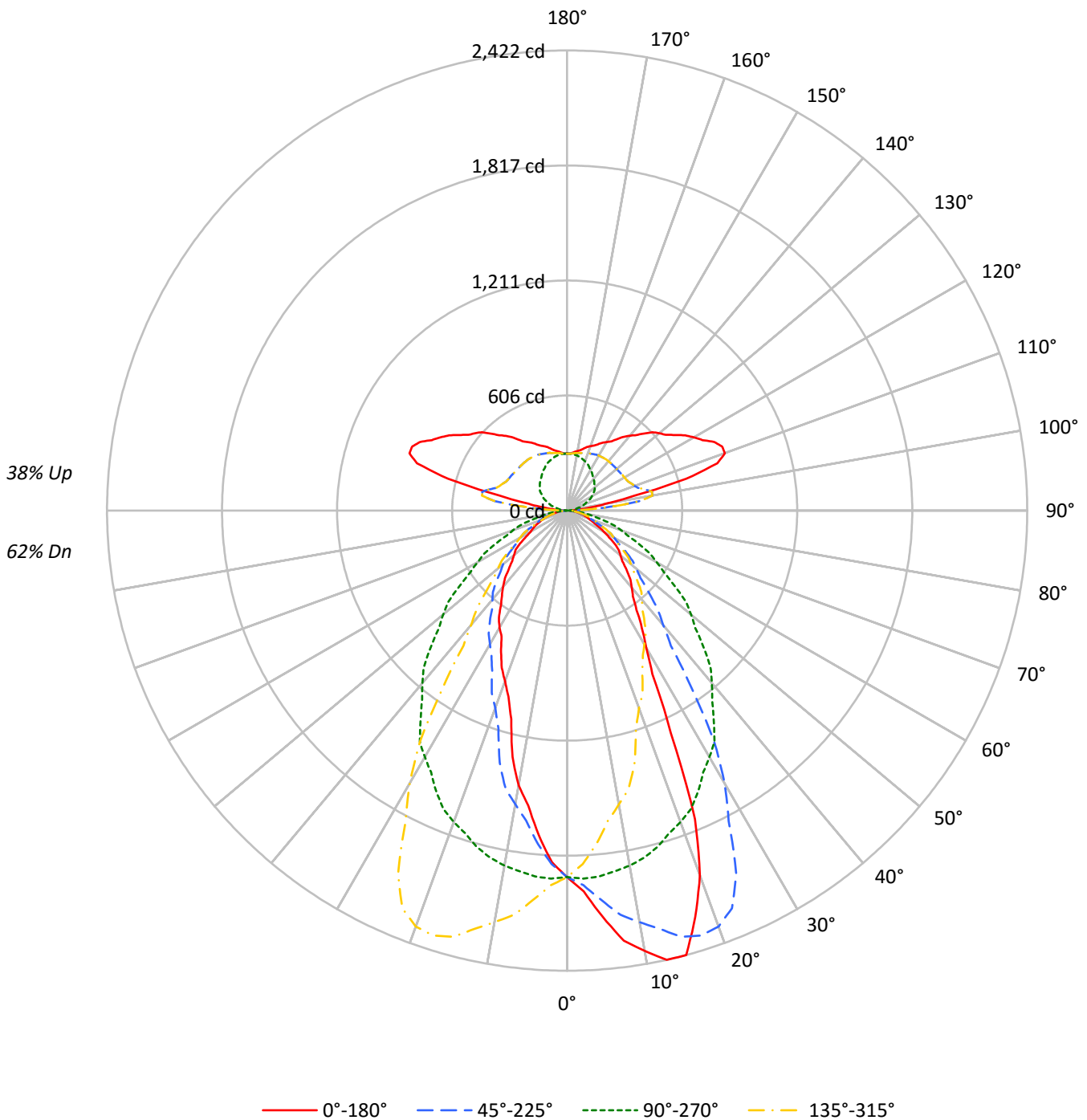
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																												
1	101	97	94	90	95	91	88	85	80	78	76	70	68	67	60	59	58	54																												
2	93	86	80	76	87	81	76	72	71	68	64	63	60	57	54	52	51	47																												
3	86	77	70	64	80	72	66	61	64	59	55	56	53	50	49	47	44	41																												
4	79	69	61	55	74	65	58	53	58	52	48	51	47	44	45	42	39	36																												
5	73	62	54	48	68	59	52	46	52	47	42	46	42	39	41	38	35	32																												
6	68	56	48	43	63	53	46	41	48	42	38	42	38	35	38	34	31	29																												
7	63	51	43	38	59	49	42	37	44	38	34	39	34	31	35	31	28	26																												
8	59	47	39	34	55	45	38	33	40	35	31	36	32	28	32	29	26	24																												
9	55	43	36	31	52	41	34	30	37	32	28	33	29	26	30	26	24	22																												
10	52	40	33	28	49	38	32	27	34	29	25	31	27	24	28	24	22	20																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.4
10°-20°	509.4	9.4
20°-30°	656.4	12.1
30°-40°	623.8	11.5
40°-50°	534.4	9.9
50°-60°	406.9	7.5
60°-70°	257.2	4.7
70°-80°	128.5	2.4
80°-90°	36.1	0.7
90°-100°	119.7	2.2
100°-110°	406.3	7.5
110°-120°	431.7	8.0
120°-130°	355.4	6.6
130°-140°	285.4	5.3
140°-150°	215.7	4.0
150°-160°	151.6	2.8
160°-170°	89.2	1.6
170°-180°	29.0	0.5
0°-30°	1348.5	24.9
0°-40°	1972.3	36.4
0°-60°	2913.6	53.8
0°-90°	3335.4	61.5
90°-120°	957.8	17.7
90°-150°	1814.1	33.5
90°-180°	2084.0	38.5
0°-180°	5419.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	26
90°	19	1	19	1	19	11
95°	66	20	66	20	66	85
105°	649	70	649	70	649	628
115°	854	124	854	124	854	836
125°	693	173	693	173	693	626
135°	574	203	574	203	574	446
145°	458	232	458	232	458	291
155°	385	263	385	263	385	180
165°	338	287	338	287	338	97
175°	305	299	305	299	305	30
180°	299	299	299	299	299	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	12.4	12.9	12.9	12.9	12.9	12.8	12.5	13.3	12.9	13.5	12.9
90°	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4	19.0	19.6	19.0
92.5°	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2	63.2	74.8	73.8
95°	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9	197.5	225.8	199.9
97.5°	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1	404.2	385.4	290.2
100°	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8	537.9	454.9	313.3
102.5°	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6	587.6	457.3	304.6
105°	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7	580.0	426.8	287.4
107.5°	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4	529.4	394.0	278.8
110°	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1	497.6	378.4	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0	475.4	368.2	277.5
115°	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1	448.1	357.1	279.9
117.5°	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5	430.8	351.6	284.1
120°	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8	421.6	348.4	286.8
122.5°	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4	413.7	346.6	290.0
125°	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3	402.5	343.3	294.9
127.5°	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5	392.2	341.3	299.8
130°	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0	385.3	340.3	303.5
132.5°	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0	379.7	339.9	307.2
135°	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5	372.0	339.2	311.5
137.5°	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2	366.6	339.1	315.5
140°	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3	363.5	338.6	317.3
142.5°	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8	360.2	338.6	318.7
145°	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8	355.9	337.5	320.2
147.5°	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8	351.5	335.4	320.6
150°	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6	347.9	334.1	320.2
152.5°	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6	344.7	331.7	319.3
155°	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6	338.6	327.7	317.9
157.5°	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4	333.0	323.6	315.3
160°	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3	328.8	320.8	313.9
162.5°	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2	325.2	318.5	312.5
165°	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7	319.0	313.9	309.8
167.5°	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4	313.1	309.8	307.2
170°	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8	309.8	307.5	305.8
172.5°	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6	306.6	304.8	304.0
175°	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1	302.4	301.7	301.2
177.5°	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8	299.9	299.4	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	12.2	11.9	11.4	10.5	10.8	11.1	13.3	15.7	13.8	12.7	11.9
90°	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6	2.3	4.6	5.8
92.5°	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1	10.1	14.2	16.9
95°	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2	22.4	28.2	33.4
97.5°	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8	36.0	42.0	49.9
100°	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3	46.0	51.3	60.5
102.5°	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9	56.2	61.4	70.6
105°	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3	72.6	76.5	85.2
107.5°	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8	88.7	92.6	100.6
110°	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9	100.2	103.7	111.2



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1	110.4	114.2	121.3
115°	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8	126.7	130.2	137.0
117.5°	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2	142.5	145.9	152.1
120°	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3	152.6	156.0	161.3
122.5°	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0	161.9	165.3	171.0
125°	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8	174.5	177.9	184.9
127.5°	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9	185.2	190.1	197.6
130°	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9	191.2	196.9	205.0
132.5°	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4	197.2	203.4	212.0
135°	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7	205.0	212.0	220.6
137.5°	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6	213.3	220.3	229.4
140°	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5	218.8	225.8	235.0
142.5°	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6	224.4	230.9	240.0
145°	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6	233.8	239.5	248.2
147.5°	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2	242.9	248.4	256.4
150°	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6	249.3	254.0	261.5
152.5°	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1	254.9	259.5	266.1
155°	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2	263.8	267.2	273.6
157.5°	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7	271.4	274.2	279.6
160°	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9	276.4	278.7	283.4
162.5°	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9	280.5	282.9	286.6
165°	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8	286.2	287.4	290.8
167.5°	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6	290.9	292.0	294.2
170°	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9	293.7	294.3	296.0
172.5°	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7	296.0	295.7	297.4
175°	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9	298.3	297.7	298.9
177.5°	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9	299.0	298.5	299.4
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	11.6	11.4	10.9	11.7	12.4	11.9	11.8	11.2	11.0	11.2	10.8
90°	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4	17.3	18.4	19.0
92.5°	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2	43.1	38.3	34.6
95°	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9	115.7	91.6	78.9
97.5°	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1	288.1	225.8	184.2
100°	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8	454.4	375.5	305.8
102.5°	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6	623.5	565.8	491.9
105°	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7	764.8	772.3	753.3
107.5°	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4	754.5	814.4	842.2
110°	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1	722.2	795.9	843.1



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0	684.0	762.8	816.9
115°	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1	631.8	707.2	766.6
117.5°	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5	589.4	657.8	713.5
120°	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8	567.2	628.3	680.8
122.5°	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4	548.9	606.6	654.0
125°	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3	524.6	575.3	618.5
127.5°	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5	501.2	549.0	588.9
130°	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0	485.5	531.0	569.0
132.5°	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0	470.8	512.6	548.3
135°	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5	447.5	485.5	517.8
137.5°	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2	429.0	459.1	487.3
140°	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3	417.0	443.4	468.8
142.5°	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8	406.4	429.2	450.4
145°	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8	392.7	410.6	427.4
147.5°	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8	381.7	395.7	407.9
150°	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6	374.4	386.5	396.8
152.5°	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6	368.4	378.6	387.6
155°	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6	358.8	367.4	373.8
157.5°	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4	349.1	356.4	361.3
160°	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3	342.6	349.0	353.0
162.5°	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2	336.7	342.1	345.2
165°	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7	327.7	331.7	334.1
167.5°	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4	319.5	322.2	324.4
170°	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8	314.5	316.8	317.9
172.5°	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6	309.8	311.6	312.4
175°	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1	304.7	305.3	305.8
177.5°	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8	300.8	301.3	301.3
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	10.8	10.2	10.8	10.2	10.8	10.2	10.8	10.8	11.2	11.0	11.2
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4
92.5°	34.2	32.4	32.8	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2
95°	71.4	66.9	65.0	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9
97.5°	156.6	142.5	134.1	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1
100°	258.0	233.3	216.5	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8
102.5°	440.0	397.7	376.9	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6
105°	717.6	681.9	657.1	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7
107.5°	846.7	844.8	839.8	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4
110°	867.9	878.9	884.0	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	851.3	869.6	879.4	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0
115°	807.4	833.9	848.9	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1
117.5°	755.2	783.2	798.9	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5
120°	721.0	748.1	764.8	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8
122.5°	690.1	716.8	731.6	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4
125°	652.0	673.8	688.2	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3
127.5°	617.9	638.4	650.9	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5
130°	597.2	616.8	628.3	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0
132.5°	576.0	595.6	606.2	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0
135°	542.5	561.5	571.9	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5
137.5°	509.8	526.1	535.2	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2
140°	487.3	502.2	510.8	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3
142.5°	467.9	481.5	489.2	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8
145°	441.1	450.9	456.7	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8
147.5°	419.3	427.1	431.0	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8
150°	405.5	412.3	415.8	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6
152.5°	394.4	400.4	402.9	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6
155°	380.1	384.2	386.5	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6
157.5°	365.8	369.2	370.2	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4
160°	357.1	359.9	360.5	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3
162.5°	349.2	351.2	351.7	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2
165°	336.3	338.6	338.6	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7
167.5°	325.4	326.7	326.6	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4
170°	318.5	320.2	319.6	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8
172.5°	313.0	313.8	313.2	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6
175°	305.8	306.4	305.8	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1
177.5°	301.3	301.3	300.8	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	11.8	11.9	12.4	11.7	10.9	11.4	11.6	11.9	12.7	13.8	15.7
90°	19.0	19.6	19.0	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6
92.5°	63.2	74.8	73.8	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1
95°	197.5	225.8	199.9	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2
97.5°	404.2	385.4	290.2	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8
100°	537.9	454.9	313.3	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3
102.5°	587.6	457.3	304.6	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9
105°	580.0	426.8	287.4	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3
107.5°	529.4	394.0	278.8	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8
110°	497.6	378.4	277.0	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9



TEST NUMBER: P331713-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.4	368.2	277.5	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1
115°	448.1	357.1	279.9	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8
117.5°	430.8	351.6	284.1	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2
120°	421.6	348.4	286.8	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3
122.5°	413.7	346.6	290.0	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0
125°	402.5	343.3	294.9	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8
127.5°	392.2	341.3	299.8	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9
130°	385.3	340.3	303.5	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9
132.5°	379.7	339.9	307.2	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4
135°	372.0	339.2	311.5	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7
137.5°	366.6	339.1	315.5	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6
140°	363.5	338.6	317.3	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5
142.5°	360.2	338.6	318.7	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6
145°	355.9	337.5	320.2	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6
147.5°	351.5	335.4	320.6	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2
150°	347.9	334.1	320.2	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6
152.5°	344.7	331.7	319.3	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1
155°	338.6	327.7	317.9	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2
157.5°	333.0	323.6	315.3	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7
160°	328.8	320.8	313.9	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9
162.5°	325.2	318.5	312.5	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9
165°	319.0	313.9	309.8	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8
167.5°	313.1	309.8	307.2	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6
170°	309.8	307.5	305.8	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9
172.5°	306.6	304.8	304.0	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7
175°	302.4	301.7	301.2	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9
177.5°	299.9	299.4	299.9	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331713-840

CATALOG NUMBER: S122RDIP-S865D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.3	11.1	10.8	10.5	11.4	11.9	12.2	12.9	13.5	12.9	13.3
90°	2.3	4.6	5.8	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4
92.5°	10.1	14.2	16.9	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2
95°	22.4	28.2	33.4	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9
97.5°	36.0	42.0	49.9	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1
100°	46.0	51.3	60.5	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8
102.5°	56.2	61.4	70.6	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6
105°	72.6	76.5	85.2	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7
107.5°	88.7	92.6	100.6	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4
110°	100.2	103.7	111.2	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	110.4	114.2	121.3	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0
115°	126.7	130.2	137.0	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1
117.5°	142.5	145.9	152.1	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5
120°	152.6	156.0	161.3	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8
122.5°	161.9	165.3	171.0	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4
125°	174.5	177.9	184.9	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3
127.5°	185.2	190.1	197.6	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5
130°	191.2	196.9	205.0	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0
132.5°	197.2	203.4	212.0	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0
135°	205.0	212.0	220.6	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5
137.5°	213.3	220.3	229.4	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2
140°	218.8	225.8	235.0	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3
142.5°	224.4	230.9	240.0	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8
145°	233.8	239.5	248.2	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8
147.5°	242.9	248.4	256.4	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8
150°	249.3	254.0	261.5	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6
152.5°	254.9	259.5	266.1	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6
155°	263.8	267.2	273.6	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6
157.5°	271.4	274.2	279.6	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4
160°	276.4	278.7	283.4	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3
162.5°	280.5	282.9	286.6	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2
165°	286.2	287.4	290.8	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7
167.5°	290.9	292.0	294.2	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4
170°	293.7	294.3	296.0	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8
172.5°	296.0	295.7	297.4	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6
175°	298.3	297.7	298.9	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1
177.5°	299.0	298.5	299.4	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	12.5	12.8	12.9	12.9	12.9	12.9	12.4
90°	17.3	18.4	19.0	19.0	19.0	19.0	19.0
92.5°	43.1	38.3	34.6	34.2	32.4	32.8	31.9
95°	115.7	91.6	78.9	71.4	66.9	65.0	65.6
97.5°	288.1	225.8	184.2	156.6	142.5	134.1	129.3
100°	454.4	375.5	305.8	258.0	233.3	216.5	206.2
102.5°	623.5	565.8	491.9	440.0	397.7	376.9	362.8
105°	764.8	772.3	753.3	717.6	681.9	657.1	649.0
107.5°	754.5	814.4	842.2	846.7	844.8	839.8	829.1
110°	722.2	795.9	843.1	867.9	878.9	884.0	883.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	684.0	762.8	816.9	851.3	869.6	879.4	882.5
115°	631.8	707.2	766.6	807.4	833.9	848.9	854.0
117.5°	589.4	657.8	713.5	755.2	783.2	798.9	803.2
120°	567.2	628.3	680.8	721.0	748.1	764.8	770.5
122.5°	548.9	606.6	654.0	690.1	716.8	731.6	736.5
125°	524.6	575.3	618.5	652.0	673.8	688.2	692.9
127.5°	501.2	549.0	588.9	617.9	638.4	650.9	654.6
130°	485.5	531.0	569.0	597.2	616.8	628.3	632.9
132.5°	470.8	512.6	548.3	576.0	595.6	606.2	610.4
135°	447.5	485.5	517.8	542.5	561.5	571.9	574.2
137.5°	429.0	459.1	487.3	509.8	526.1	535.2	538.7
140°	417.0	443.4	468.8	487.3	502.2	510.8	514.3
142.5°	406.4	429.2	450.4	467.9	481.5	489.2	489.9
145°	392.7	410.6	427.4	441.1	450.9	456.7	458.4
147.5°	381.7	395.7	407.9	419.3	427.1	431.0	432.0
150°	374.4	386.5	396.8	405.5	412.3	415.8	416.4
152.5°	368.4	378.6	387.6	394.4	400.4	402.9	403.0
155°	358.8	367.4	373.8	380.1	384.2	386.5	385.3
157.5°	349.1	356.4	361.3	365.8	369.2	370.2	370.2
160°	342.6	349.0	353.0	357.1	359.9	360.5	360.5
162.5°	336.7	342.1	345.2	349.2	351.2	351.7	351.3
165°	327.7	331.7	334.1	336.3	338.6	338.6	338.1
167.5°	319.5	322.2	324.4	325.4	326.7	326.6	325.9
170°	314.5	316.8	317.9	318.5	320.2	319.6	318.5
172.5°	309.8	311.6	312.4	313.0	313.8	313.2	312.5
175°	304.7	305.3	305.8	305.8	306.4	305.8	304.7
177.5°	300.8	301.3	301.3	301.3	301.3	300.8	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4

(END OF REPORT)