

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: P332380-940

Luminaire Tested: **S123RDIP-S1165D1025U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332380-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1165D1025U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7387.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

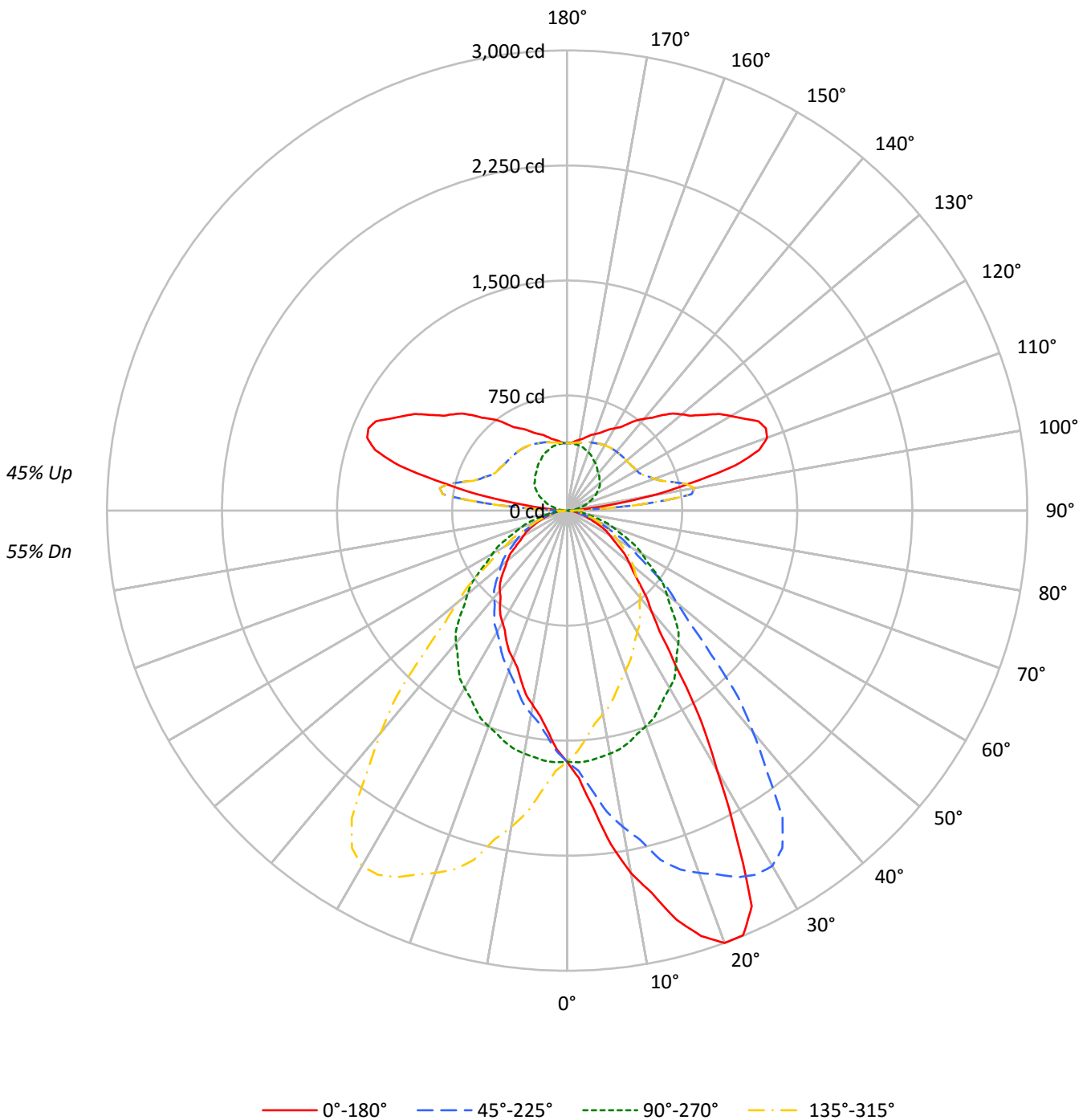
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	95	92	88	92	89	86	83	77	74	72	65	64	62	55	54	53	48
2	91	84	78	73	85	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	75	67	62	78	70	63	58	60	56	52	52	48	46	44	42	39	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	34	31
5	71	59	52	46	66	56	49	44	49	43	39	42	38	35	36	33	30	27
6	65	54	46	40	61	50	43	38	44	39	34	38	34	31	33	30	27	24
7	61	49	41	35	56	46	39	34	40	35	31	35	31	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	25	28	24	22	20
9	53	41	33	28	49	38	32	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.2
10°-20°	503.0	6.8
20°-30°	790.2	10.7
30°-40°	824.4	11.2
40°-50°	705.6	9.6
50°-60°	537.8	7.3
60°-70°	344.7	4.7
70°-80°	165.8	2.2
80°-90°	47.3	0.6
90°-100°	244.7	3.3
100°-110°	692.9	9.4
110°-120°	681.6	9.2
120°-130°	543.7	7.4
130°-140°	428.7	5.8
140°-150°	319.9	4.3
150°-160°	223.0	3.0
160°-170°	131.0	1.8
170°-180°	42.6	0.6
0°-30°	1454.2	19.7
0°-40°	2278.7	30.8
0°-60°	3522.0	47.7
0°-90°	4079.8	55.2
90°-120°	1619.2	21.9
90°-150°	2911.5	39.4
90°-180°	3308.0	44.8
0°-180°	7387.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	26	2	26	2	26	14
95°	103	30	103	30	103	186
105°	1132	103	1132	103	1132	1117
115°	1377	182	1377	182	1377	1338
125°	1086	254	1086	254	1086	984
135°	880	297	880	297	880	683
145°	688	339	688	339	688	438
155°	570	385	570	385	570	266
165°	498	421	498	421	498	142
175°	448	439	448	439	448	43
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	10.8	12.0	10.8	11.1	11.3	11.5	11.3	11.1	12.1	11.8	11.8
90°	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3	21.4	22.3	19.6
92.5°	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9	103.3	136.9	150.6
95°	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4	428.1	527.8	469.9
97.5°	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8	875.1	818.0	598.9
100°	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5	1018.2	842.9	569.6
102.5°	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7	1025.4	796.7	526.9
105°	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1	971.1	715.6	474.4
107.5°	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0	876.0	644.1	441.0
110°	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0	816.2	603.5	428.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8	764.2	576.4	421.0
115°	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0	701.4	547.4	418.3
117.5°	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5	663.4	530.3	419.9
120°	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0	643.5	522.5	422.8
122.5°	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7	627.1	517.5	427.8
125°	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7	606.2	511.0	435.2
127.5°	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0	587.6	507.7	443.8
130°	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8	577.7	505.6	449.5
132.5°	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0	568.4	504.9	453.8
135°	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9	556.3	503.8	460.2
137.5°	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1	545.8	501.9	464.4
140°	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2	539.4	501.1	467.3
142.5°	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1	533.7	499.7	469.4
145°	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6	526.0	497.6	470.8
147.5°	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6	518.5	494.2	470.8
150°	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0	513.5	491.3	470.8
152.5°	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2	507.9	487.8	468.7
155°	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4	499.4	481.5	466.4
157.5°	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0	489.7	476.0	463.4
160°	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9	483.3	471.7	462.0
162.5°	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3	476.9	467.4	459.1
165°	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3	468.1	461.1	454.9
167.5°	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7	459.9	454.7	450.6
170°	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3	454.9	450.4	447.7
172.5°	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6	449.9	446.8	445.6
175°	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9	444.2	442.4	442.4
177.5°	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1	440.4	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	12.4	11.2	11.9	11.5	12.8	12.8	15.9	18.3	19.2	17.3	17.8
90°	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8	3.6	5.4	8.0
92.5°	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1	16.4	23.9	30.8
95°	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2	32.9	42.7	57.9
97.5°	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6	52.5	60.2	73.3
100°	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9	66.8	73.0	85.4
102.5°	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8	82.4	87.9	99.7
105°	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3	105.9	111.3	122.0
107.5°	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1	129.7	134.9	145.4
110°	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2	146.9	151.3	161.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9	162.6	167.0	176.7
115°	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4	186.0	191.4	200.3
117.5°	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1	209.2	213.7	221.8
120°	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7	223.4	227.8	236.7
122.5°	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3	236.9	241.4	251.0
125°	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7	255.5	260.8	270.5
127.5°	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5	271.1	277.7	287.7
130°	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7	280.4	288.4	299.1
132.5°	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8	288.2	296.9	309.8
135°	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3	300.9	310.7	324.0
137.5°	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1	312.8	322.4	336.6
140°	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9	321.3	330.2	344.5
142.5°	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4	329.1	338.8	351.6
145°	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1	341.8	349.8	363.2
147.5°	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0	354.6	362.5	374.0
150°	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3	363.2	370.2	381.8
152.5°	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5	371.7	378.8	389.0
155°	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4	385.4	390.7	399.7
157.5°	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5	397.2	401.4	409.3
160°	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0	405.0	408.6	415.6
162.5°	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4	411.4	414.3	419.9
165°	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0	420.1	421.9	426.3
167.5°	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3	427.2	428.1	431.5
170°	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6	430.8	431.7	434.4
172.5°	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4	434.4	434.5	436.5
175°	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8	437.9	437.0	438.8
177.5°	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4	439.7	439.0	439.7
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332380-940

CATALOG NUMBER: S123RDIP-S1165D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	17.7	19.7	20.8	21.8	23.0	22.9	23.4	23.5	24.3	24.4	24.8
90°	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3	23.2	24.1	25.8
92.5°	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9	59.5	52.5	47.9
95°	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4	217.2	170.0	137.9
97.5°	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8	639.8	525.0	418.5
100°	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5	977.3	873.2	746.8
102.5°	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7	1130.4	1069.7	989.6
105°	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1	1246.2	1263.0	1239.9
107.5°	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0	1231.5	1309.5	1341.2
110°	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0	1183.8	1295.9	1358.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8	1121.1	1246.8	1327.0
115°	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0	1020.9	1151.7	1248.8
117.5°	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5	936.2	1053.6	1152.1
120°	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0	889.2	996.0	1085.9
122.5°	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7	851.5	950.5	1033.9
125°	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7	804.7	890.1	961.3
127.5°	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0	763.5	840.6	905.4
130°	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8	737.9	809.9	870.5
132.5°	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0	713.6	780.8	838.5
135°	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9	679.1	737.0	787.7
137.5°	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1	645.9	695.7	739.7
140°	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2	626.6	669.3	707.7
142.5°	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1	608.1	645.2	678.4
145°	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6	583.9	612.3	638.2
147.5°	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6	565.9	588.9	607.3
150°	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0	554.6	573.2	590.1
152.5°	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2	543.9	560.4	574.4
155°	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4	528.7	542.1	552.8
157.5°	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0	513.9	524.2	532.6
160°	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9	504.7	513.5	519.8
162.5°	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3	494.7	502.9	508.5
165°	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3	480.6	486.9	491.3
167.5°	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7	469.8	473.3	476.5
170°	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3	462.0	465.5	467.3
172.5°	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6	455.6	458.4	459.5
175°	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9	446.8	448.6	448.6
177.5°	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1	441.8	442.6	442.6
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332380-940

CATALOG NUMBER: S123RDIP-S1165D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	25.8	24.8	25.0	25.3	25.0	24.8	25.8	24.8	24.4	24.3	23.5
90°	24.9	25.8	26.7	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3
92.5°	46.3	43.6	44.5	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9
95°	121.1	113.1	106.8	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4
97.5°	352.8	312.8	288.7	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8
100°	656.9	591.9	557.2	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5
102.5°	919.6	868.2	839.2	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7
105°	1198.9	1165.1	1136.7	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1
107.5°	1341.9	1330.5	1320.9	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0
110°	1383.2	1390.4	1388.6	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1372.5	1394.5	1401.3	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8
115°	1315.5	1354.7	1372.5	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0
117.5°	1221.7	1266.6	1292.3	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5
120°	1156.2	1206.0	1227.4	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0
122.5°	1096.4	1141.3	1164.8	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7
125°	1018.2	1057.4	1079.7	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7
127.5°	956.1	989.6	1009.7	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0
130°	917.7	949.8	968.4	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8
132.5°	882.8	914.8	931.4	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0
135°	831.3	858.0	874.1	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9
137.5°	776.3	803.4	816.9	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1
140°	741.5	766.3	780.6	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2
142.5°	707.3	729.3	742.2	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1
145°	660.4	679.1	686.3	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6
147.5°	624.1	636.8	643.5	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6
150°	603.5	613.2	618.6	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0
152.5°	585.0	594.1	597.3	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2
155°	560.8	567.8	569.6	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4
157.5°	539.6	544.9	546.4	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0
160°	526.0	531.4	531.4	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9
162.5°	512.6	517.1	517.1	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3
165°	494.9	498.5	497.6	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3
167.5°	478.1	480.6	479.7	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7
170°	468.1	469.9	469.0	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3
172.5°	459.7	461.5	459.9	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6
175°	448.6	449.5	448.6	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9
177.5°	441.8	442.6	441.1	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	23.4	22.9	23.0	21.8	20.8	19.7	17.7	17.8	17.3	19.2	18.3
90°	21.4	22.3	19.6	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8
92.5°	103.3	136.9	150.6	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1
95°	428.1	527.8	469.9	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2
97.5°	875.1	818.0	598.9	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6
100°	1018.2	842.9	569.6	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9
102.5°	1025.4	796.7	526.9	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8
105°	971.1	715.6	474.4	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3
107.5°	876.0	644.1	441.0	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1
110°	816.2	603.5	428.1	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	764.2	576.4	421.0	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9
115°	701.4	547.4	418.3	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4
117.5°	663.4	530.3	419.9	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1
120°	643.5	522.5	422.8	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7
122.5°	627.1	517.5	427.8	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3
125°	606.2	511.0	435.2	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7
127.5°	587.6	507.7	443.8	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5
130°	577.7	505.6	449.5	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7
132.5°	568.4	504.9	453.8	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8
135°	556.3	503.8	460.2	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3
137.5°	545.8	501.9	464.4	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1
140°	539.4	501.1	467.3	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9
142.5°	533.7	499.7	469.4	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4
145°	526.0	497.6	470.8	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1
147.5°	518.5	494.2	470.8	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0
150°	513.5	491.3	470.8	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3
152.5°	507.9	487.8	468.7	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5
155°	499.4	481.5	466.4	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4
157.5°	489.7	476.0	463.4	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5
160°	483.3	471.7	462.0	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0
162.5°	476.9	467.4	459.1	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4
165°	468.1	461.1	454.9	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0
167.5°	459.9	454.7	450.6	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3
170°	454.9	450.4	447.7	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6
172.5°	449.9	446.8	445.6	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4
175°	444.2	442.4	442.4	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8
177.5°	440.4	439.7	440.4	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332380-940

CATALOG NUMBER: S123RDIP-S1165D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	15.9	12.8	12.8	11.5	11.9	11.2	12.4	11.8	11.8	12.1	11.1
90°	3.6	5.4	8.0	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3
92.5°	16.4	23.9	30.8	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9
95°	32.9	42.7	57.9	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4
97.5°	52.5	60.2	73.3	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8
100°	66.8	73.0	85.4	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5
102.5°	82.4	87.9	99.7	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7
105°	105.9	111.3	122.0	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1
107.5°	129.7	134.9	145.4	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0
110°	146.9	151.3	161.1	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.6	167.0	176.7	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8
115°	186.0	191.4	200.3	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0
117.5°	209.2	213.7	221.8	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5
120°	223.4	227.8	236.7	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0
122.5°	236.9	241.4	251.0	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7
125°	255.5	260.8	270.5	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7
127.5°	271.1	277.7	287.7	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0
130°	280.4	288.4	299.1	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8
132.5°	288.2	296.9	309.8	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0
135°	300.9	310.7	324.0	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9
137.5°	312.8	322.4	336.6	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1
140°	321.3	330.2	344.5	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2
142.5°	329.1	338.8	351.6	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1
145°	341.8	349.8	363.2	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6
147.5°	354.6	362.5	374.0	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6
150°	363.2	370.2	381.8	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0
152.5°	371.7	378.8	389.0	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2
155°	385.4	390.7	399.7	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4
157.5°	397.2	401.4	409.3	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0
160°	405.0	408.6	415.6	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9
162.5°	411.4	414.3	419.9	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3
165°	420.1	421.9	426.3	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3
167.5°	427.2	428.1	431.5	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7
170°	430.8	431.7	434.4	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3
172.5°	434.4	434.5	436.5	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6
175°	437.9	437.0	438.8	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9
177.5°	439.7	439.0	439.7	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	11.3	11.5	11.3	11.1	10.8	12.0	10.8
90°	23.2	24.1	25.8	24.9	25.8	26.7	25.8
92.5°	59.5	52.5	47.9	46.3	43.6	44.5	42.9
95°	217.2	170.0	137.9	121.1	113.1	106.8	103.3
97.5°	639.8	525.0	418.5	352.8	312.8	288.7	281.1
100°	977.3	873.2	746.8	656.9	591.9	557.2	558.1
102.5°	1130.4	1069.7	989.6	919.6	868.2	839.2	818.7
105°	1246.2	1263.0	1239.9	1198.9	1165.1	1136.7	1132.2
107.5°	1231.5	1309.5	1341.2	1341.9	1330.5	1320.9	1312.7
110°	1183.8	1295.9	1358.3	1383.2	1390.4	1388.6	1386.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1121.1	1246.8	1327.0	1372.5	1394.5	1401.3	1401.7
115°	1020.9	1151.7	1248.8	1315.5	1354.7	1372.5	1377.0
117.5°	936.2	1053.6	1152.1	1221.7	1266.6	1292.3	1298.2
120°	889.2	996.0	1085.9	1156.2	1206.0	1227.4	1232.8
122.5°	851.5	950.5	1033.9	1096.4	1141.3	1164.8	1171.5
125°	804.7	890.1	961.3	1018.2	1057.4	1079.7	1085.9
127.5°	763.5	840.6	905.4	956.1	989.6	1009.7	1015.4
130°	737.9	809.9	870.5	917.7	949.8	968.4	975.5
132.5°	713.6	780.8	838.5	882.8	914.8	931.4	936.4
135°	679.1	737.0	787.7	831.3	858.0	874.1	880.3
137.5°	645.9	695.7	739.7	776.3	803.4	816.9	821.0
140°	626.6	669.3	707.7	741.5	766.3	780.6	779.7
142.5°	608.1	645.2	678.4	707.3	729.3	742.2	741.3
145°	583.9	612.3	638.2	660.4	679.1	686.3	688.0
147.5°	565.9	588.9	607.3	624.1	636.8	643.5	644.3
150°	554.6	573.2	590.1	603.5	613.2	618.6	618.6
152.5°	543.9	560.4	574.4	585.0	594.1	597.3	597.3
155°	528.7	542.1	552.8	560.8	567.8	569.6	570.5
157.5°	513.9	524.2	532.6	539.6	544.9	546.4	546.2
160°	504.7	513.5	519.8	526.0	531.4	531.4	530.5
162.5°	494.7	502.9	508.5	512.6	517.1	517.1	516.2
165°	480.6	486.9	491.3	494.9	498.5	497.6	497.6
167.5°	469.8	473.3	476.5	478.1	480.6	479.7	479.7
170°	462.0	465.5	467.3	468.1	469.9	469.0	469.0
172.5°	455.6	458.4	459.5	459.7	461.5	459.9	459.1
175°	446.8	448.6	448.6	448.6	449.5	448.6	447.7
177.5°	441.8	442.6	442.6	441.8	442.6	441.1	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7

(END OF REPORT)