

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: P332374-940

Luminaire Tested: **S123RDIP-S1165D805U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332374-940
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-S1165D805U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.1 lumens
Efficiency: N/A
Efficacy: 109.9 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: Semi-Direct

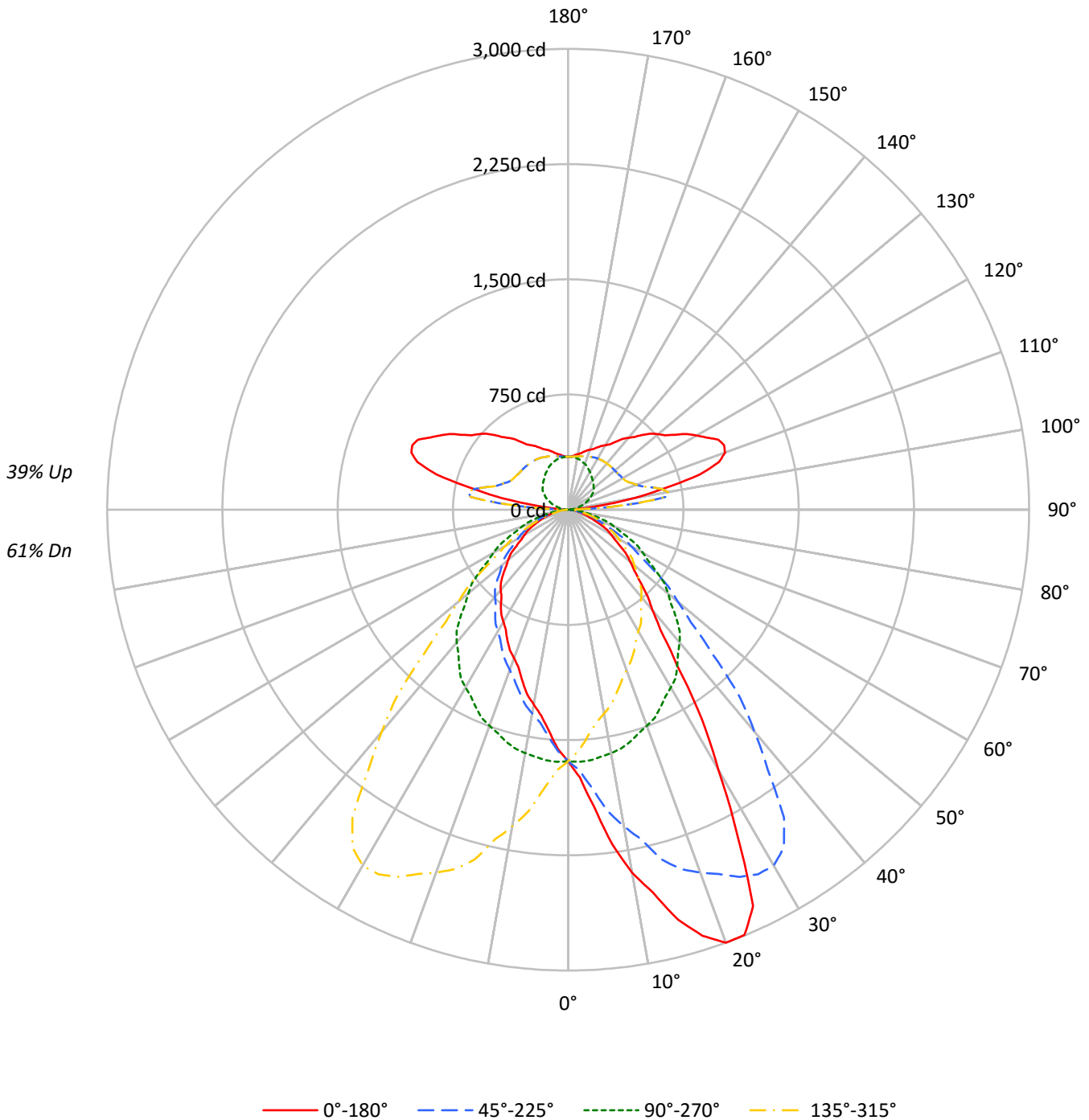
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	101	97	93	90	94	91	88	85	80	77	75	69	68	66	60	59	57	53
2	93	85	80	75	86	80	75	71	71	67	63	62	59	56	53	51	50	46
3	85	76	69	63	79	71	65	60	63	58	54	55	52	48	48	45	43	39
4	78	68	60	54	73	64	57	52	56	51	47	50	45	42	43	40	38	34
5	72	61	53	47	67	57	50	45	51	45	41	45	40	37	39	36	33	30
6	67	55	47	41	62	52	45	39	46	40	36	41	36	33	36	32	30	27
7	62	50	42	36	58	47	40	35	42	36	32	37	33	29	33	29	27	24
8	57	45	38	32	54	43	36	31	39	33	29	34	30	26	30	27	24	22
9	54	41	34	29	50	39	33	28	35	30	26	32	27	24	28	24	22	20
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	23	20	18

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	2.4
10°-20°	503.0	7.5
20°-30°	790.2	11.8
30°-40°	824.4	12.4
40°-50°	705.6	10.6
50°-60°	537.8	8.1
60°-70°	344.7	5.2
70°-80°	165.8	2.5
80°-90°	46.5	0.7
90°-100°	191.7	2.9
100°-110°	542.7	8.1
110°-120°	533.9	8.0
120°-130°	425.8	6.4
130°-140°	335.7	5.0
140°-150°	250.6	3.8
150°-160°	174.7	2.6
160°-170°	102.6	1.5
170°-180°	33.4	0.5
0°-30°	1454.2	21.8
0°-40°	2278.7	34.2
0°-60°	3522.0	52.8
0°-90°	4079.0	61.2
90°-120°	1268.2	19.0
90°-150°	2280.4	34.2
90°-180°	2591.0	38.8
0°-180°	6670.1	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°	20	1	20	1	20	11
95°	81	24	81	24	81	146
105°	887	81	887	81	887	875
115°	1078	143	1078	143	1078	1048
125°	850	199	850	199	850	771
135°	690	233	690	233	690	535
145°	539	266	539	266	539	343
155°	447	302	447	302	447	208
165°	390	330	390	330	390	111
175°	351	344	351	344	351	34
180°	344	344	344	344	344	



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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°	9.6	10.9	9.6	10.1	10.3	10.5	10.3	10.3	11.2	10.8	10.9
90°	20.2	21.0	20.2	19.5	20.2	18.8	18.1	17.4	16.8	17.4	15.3
92.5°	33.6	34.9	34.2	36.3	37.5	41.1	46.5	58.7	80.9	107.2	118.0
95°	80.9	83.6	88.5	94.8	108.1	133.1	170.1	251.0	335.4	413.4	368.1
97.5°	220.2	226.1	245.0	276.3	327.8	411.2	501.1	625.6	685.5	640.7	469.0
100°	437.1	436.4	463.6	514.5	584.9	683.9	765.4	822.0	797.5	660.2	446.2
102.5°	641.2	657.3	680.0	720.3	775.1	837.9	885.4	887.2	803.2	623.9	412.7
105°	886.8	890.3	912.6	939.1	971.2	989.3	976.0	906.3	760.6	560.5	371.6
107.5°	1028.1	1034.6	1042.1	1051.1	1050.4	1025.6	964.6	851.4	686.2	504.4	345.4
110°	1086.2	1087.5	1089.0	1083.3	1063.9	1015.0	927.2	799.0	639.3	472.7	335.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1097.9	1097.6	1092.3	1075.0	1039.3	976.6	878.2	747.1	598.6	451.5	329.8
115°	1078.5	1075.0	1061.0	1030.4	978.1	902.1	799.6	678.3	549.4	428.7	327.7
117.5°	1016.9	1012.1	992.0	956.9	902.4	825.3	733.3	628.6	519.7	415.4	329.0
120°	965.5	961.4	944.7	905.6	850.5	780.2	696.4	602.4	504.1	409.2	331.2
122.5°	917.6	912.3	893.9	858.7	809.9	744.4	666.9	581.8	491.2	405.4	335.0
125°	850.5	845.6	828.2	797.5	753.0	697.1	630.3	554.2	474.7	400.2	340.9
127.5°	795.3	790.9	775.1	748.9	709.2	658.4	598.0	530.3	460.3	397.7	347.6
130°	764.1	758.5	743.9	718.8	681.8	634.5	577.9	515.2	452.5	396.0	352.0
132.5°	733.4	729.5	716.6	691.4	656.7	611.5	559.0	501.2	445.2	395.4	355.4
135°	689.5	684.6	672.1	651.1	617.0	577.2	531.9	482.4	435.7	394.6	360.4
137.5°	643.1	639.9	629.3	608.1	579.3	544.9	505.9	465.3	427.5	393.1	363.8
140°	610.7	611.4	600.2	580.8	554.2	524.2	490.8	455.2	422.5	392.5	366.0
142.5°	580.6	581.3	571.2	553.9	531.4	505.3	476.3	445.8	418.0	391.4	367.7
145°	538.9	537.5	531.9	517.3	499.9	479.7	457.4	434.4	412.1	389.7	368.8
147.5°	504.6	504.1	498.7	488.8	475.6	461.3	443.3	425.0	406.2	387.1	368.8
150°	484.6	484.6	480.4	472.7	462.2	449.0	434.4	418.3	402.3	384.9	368.8
152.5°	467.8	467.8	465.3	458.2	450.0	438.9	426.0	412.1	397.8	382.0	367.1
155°	446.8	446.2	444.8	439.2	432.9	424.5	414.1	403.0	391.1	377.2	365.3
157.5°	427.8	427.9	426.8	422.6	417.1	410.6	402.5	393.2	383.6	372.8	362.9
160°	415.5	416.2	416.2	412.1	407.2	402.3	395.3	387.6	378.5	369.5	361.9
162.5°	404.4	405.0	405.0	401.4	398.2	393.9	387.4	380.9	373.5	366.1	359.6
165°	389.7	389.7	390.4	387.6	384.9	381.4	376.5	372.3	366.7	361.1	356.2
167.5°	375.8	375.8	376.5	374.5	373.3	370.8	367.9	364.7	360.2	356.1	352.9
170°	367.4	367.4	368.1	366.7	366.0	364.6	361.9	359.7	356.2	352.8	350.7
172.5°	359.6	360.2	361.4	360.0	359.9	359.0	356.8	355.3	352.3	350.0	349.0
175°	350.7	351.3	352.0	351.3	351.3	351.3	350.0	349.3	347.9	346.5	346.5
177.5°	345.5	345.5	346.6	346.1	346.6	346.6	346.1	345.5	344.9	344.4	344.9
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



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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°	11.6	10.6	11.3	11.1	12.5	12.6	15.7	18.2	19.1	17.1	17.5
90°	13.3	11.1	9.1	7.7	6.2	4.2	2.8	1.4	2.8	4.2	6.2
92.5°	88.5	58.6	40.3	30.0	24.2	18.7	12.8	8.6	12.8	18.7	24.2
95°	253.8	149.9	90.6	63.4	45.3	33.4	25.8	23.7	25.8	33.4	45.3
97.5°	278.5	161.3	104.7	75.3	57.4	47.2	41.1	40.4	41.1	47.2	57.4
100°	262.8	159.6	110.8	83.6	67.0	57.2	52.3	51.6	52.3	57.2	67.0
102.5°	249.4	161.8	118.1	93.2	78.1	68.8	64.6	63.3	64.6	68.8	78.1
105°	239.8	168.0	130.4	108.8	95.5	87.1	82.9	80.9	82.9	87.1	95.5
107.5°	239.2	179.4	146.4	126.4	113.9	105.7	101.7	99.5	101.7	105.7	113.9
110°	241.9	189.0	157.6	138.0	126.2	118.5	115.0	113.0	115.0	118.5	126.2



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	247.4	198.4	169.2	150.3	138.5	130.8	127.3	125.2	127.3	130.8	138.5
115°	256.5	214.0	187.5	168.7	156.9	149.9	145.7	142.9	145.7	149.9	156.9
117.5°	268.6	230.6	204.4	187.0	173.7	167.3	163.8	160.6	163.8	167.3	173.7
120°	277.5	241.2	216.2	198.7	185.5	178.4	175.0	172.9	175.0	178.4	185.5
122.5°	285.8	252.4	227.8	209.3	196.6	189.0	185.6	183.5	185.6	189.0	196.6
125°	299.1	268.4	244.0	225.2	212.0	204.3	200.1	198.7	200.1	204.3	212.0
127.5°	310.0	282.3	258.8	240.0	225.3	217.5	212.3	210.3	212.3	217.5	225.3
130°	317.2	290.7	267.7	248.9	234.3	225.9	219.6	217.5	219.6	225.9	234.3
132.5°	323.9	297.9	275.5	257.3	242.6	232.6	225.8	223.1	225.8	232.6	242.6
135°	332.5	308.8	287.2	268.4	253.8	243.3	235.7	232.8	235.7	243.3	253.8
137.5°	338.9	316.4	295.6	278.1	263.7	252.5	245.0	242.0	245.0	252.5	263.7
140°	342.3	321.4	301.1	283.7	269.8	258.7	251.6	248.2	251.6	258.7	269.8
142.5°	345.6	325.3	305.6	289.4	275.4	265.4	257.8	254.9	257.8	265.4	275.4
145°	349.3	330.5	312.4	296.3	284.5	274.0	267.7	265.6	267.7	274.0	284.5
147.5°	351.5	334.7	318.1	304.3	292.9	283.9	277.8	276.5	277.8	283.9	292.9
150°	352.0	337.4	321.4	308.8	299.1	290.0	284.5	283.7	284.5	290.0	299.1
152.5°	353.2	339.1	325.3	313.3	304.7	296.7	291.1	291.0	291.1	296.7	304.7
155°	353.5	342.3	330.5	320.7	313.0	306.0	301.8	301.8	301.8	306.0	313.0
157.5°	354.2	344.1	334.7	327.1	320.6	314.4	311.0	310.5	311.0	314.4	320.6
160°	354.2	345.8	337.4	330.5	325.6	320.0	317.2	317.2	317.2	320.0	325.6
162.5°	353.6	346.3	339.1	333.2	329.0	324.5	322.3	322.3	322.3	324.5	329.0
165°	352.0	347.1	341.6	336.7	333.9	330.5	329.0	329.8	329.0	330.5	333.9
167.5°	351.0	347.1	343.0	339.9	338.0	335.4	334.7	335.5	334.7	335.4	338.0
170°	349.3	346.5	343.0	341.6	340.2	338.1	337.4	338.9	337.4	338.1	340.2
172.5°	348.7	346.5	343.6	342.7	341.9	340.4	340.2	341.1	340.2	340.4	341.9
175°	347.1	345.8	344.4	343.7	343.7	342.3	343.0	343.7	343.0	342.3	343.7
177.5°	346.1	344.9	344.4	344.4	344.4	343.8	344.4	344.9	344.4	343.8	344.4
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-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°	17.2	19.2	20.2	21.1	22.1	22.0	22.4	22.6	23.3	23.4	23.6
90°	7.7	9.1	11.1	13.3	15.3	17.4	16.8	17.4	18.1	18.8	20.2
92.5°	30.0	40.3	58.6	88.5	118.0	107.2	80.9	58.7	46.5	41.1	37.5
95°	63.4	90.6	149.9	253.8	368.1	413.4	335.4	251.0	170.1	133.1	108.1
97.5°	75.3	104.7	161.3	278.5	469.0	640.7	685.5	625.6	501.1	411.2	327.8
100°	83.6	110.8	159.6	262.8	446.2	660.2	797.5	822.0	765.4	683.9	584.9
102.5°	93.2	118.1	161.8	249.4	412.7	623.9	803.2	887.2	885.4	837.9	775.1
105°	108.8	130.4	168.0	239.8	371.6	560.5	760.6	906.3	976.0	989.3	971.2
107.5°	126.4	146.4	179.4	239.2	345.4	504.4	686.2	851.4	964.6	1025.6	1050.4
110°	138.0	157.6	189.0	241.9	335.4	472.7	639.3	799.0	927.2	1015.0	1063.9



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	150.3	169.2	198.4	247.4	329.8	451.5	598.6	747.1	878.2	976.6	1039.3
115°	168.7	187.5	214.0	256.5	327.7	428.7	549.4	678.3	799.6	902.1	978.1
117.5°	187.0	204.4	230.6	268.6	329.0	415.4	519.7	628.6	733.3	825.3	902.4
120°	198.7	216.2	241.2	277.5	331.2	409.2	504.1	602.4	696.4	780.2	850.5
122.5°	209.3	227.8	252.4	285.8	335.0	405.4	491.2	581.8	666.9	744.4	809.9
125°	225.2	244.0	268.4	299.1	340.9	400.2	474.7	554.2	630.3	697.1	753.0
127.5°	240.0	258.8	282.3	310.0	347.6	397.7	460.3	530.3	598.0	658.4	709.2
130°	248.9	267.7	290.7	317.2	352.0	396.0	452.5	515.2	577.9	634.5	681.8
132.5°	257.3	275.5	297.9	323.9	355.4	395.4	445.2	501.2	559.0	611.5	656.7
135°	268.4	287.2	308.8	332.5	360.4	394.6	435.7	482.4	531.9	577.2	617.0
137.5°	278.1	295.6	316.4	338.9	363.8	393.1	427.5	465.3	505.9	544.9	579.3
140°	283.7	301.1	321.4	342.3	366.0	392.5	422.5	455.2	490.8	524.2	554.2
142.5°	289.4	305.6	325.3	345.6	367.7	391.4	418.0	445.8	476.3	505.3	531.4
145°	296.3	312.4	330.5	349.3	368.8	389.7	412.1	434.4	457.4	479.7	499.9
147.5°	304.3	318.1	334.7	351.5	368.8	387.1	406.2	425.0	443.3	461.3	475.6
150°	308.8	321.4	337.4	352.0	368.8	384.9	402.3	418.3	434.4	449.0	462.2
152.5°	313.3	325.3	339.1	353.2	367.1	382.0	397.8	412.1	426.0	438.9	450.0
155°	320.7	330.5	342.3	353.5	365.3	377.2	391.1	403.0	414.1	424.5	432.9
157.5°	327.1	334.7	344.1	354.2	362.9	372.8	383.6	393.2	402.5	410.6	417.1
160°	330.5	337.4	345.8	354.2	361.9	369.5	378.5	387.6	395.3	402.3	407.2
162.5°	333.2	339.1	346.3	353.6	359.6	366.1	373.5	380.9	387.4	393.9	398.2
165°	336.7	341.6	347.1	352.0	356.2	361.1	366.7	372.3	376.5	381.4	384.9
167.5°	339.9	343.0	347.1	351.0	352.9	356.1	360.2	364.7	367.9	370.8	373.3
170°	341.6	343.0	346.5	349.3	350.7	352.8	356.2	359.7	361.9	364.6	366.0
172.5°	342.7	343.6	346.5	348.7	349.0	350.0	352.3	355.3	356.8	359.0	359.9
175°	343.7	344.4	345.8	347.1	346.5	346.5	347.9	349.3	350.0	351.3	351.3
177.5°	344.4	344.4	344.9	346.1	344.9	344.4	344.9	345.5	346.1	346.6	346.6
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-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°	24.6	23.6	23.8	24.3	23.8	23.6	24.6	23.6	23.4	23.3	22.6
90°	19.5	20.2	21.0	20.2	21.0	20.2	19.5	20.2	18.8	18.1	17.4
92.5°	36.3	34.2	34.9	33.6	34.9	34.2	36.3	37.5	41.1	46.5	58.7
95°	94.8	88.5	83.6	80.9	83.6	88.5	94.8	108.1	133.1	170.1	251.0
97.5°	276.3	245.0	226.1	220.2	226.1	245.0	276.3	327.8	411.2	501.1	625.6
100°	514.5	463.6	436.4	437.1	436.4	463.6	514.5	584.9	683.9	765.4	822.0
102.5°	720.3	680.0	657.3	641.2	657.3	680.0	720.3	775.1	837.9	885.4	887.2
105°	939.1	912.6	890.3	886.8	890.3	912.6	939.1	971.2	989.3	976.0	906.3
107.5°	1051.1	1042.1	1034.6	1028.1	1034.6	1042.1	1051.1	1050.4	1025.6	964.6	851.4
110°	1083.3	1089.0	1087.5	1086.2	1087.5	1089.0	1083.3	1063.9	1015.0	927.2	799.0



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1075.0	1092.3	1097.6	1097.9	1097.6	1092.3	1075.0	1039.3	976.6	878.2	747.1
115°	1030.4	1061.0	1075.0	1078.5	1075.0	1061.0	1030.4	978.1	902.1	799.6	678.3
117.5°	956.9	992.0	1012.1	1016.9	1012.1	992.0	956.9	902.4	825.3	733.3	628.6
120°	905.6	944.7	961.4	965.5	961.4	944.7	905.6	850.5	780.2	696.4	602.4
122.5°	858.7	893.9	912.3	917.6	912.3	893.9	858.7	809.9	744.4	666.9	581.8
125°	797.5	828.2	845.6	850.5	845.6	828.2	797.5	753.0	697.1	630.3	554.2
127.5°	748.9	775.1	790.9	795.3	790.9	775.1	748.9	709.2	658.4	598.0	530.3
130°	718.8	743.9	758.5	764.1	758.5	743.9	718.8	681.8	634.5	577.9	515.2
132.5°	691.4	716.6	729.5	733.4	729.5	716.6	691.4	656.7	611.5	559.0	501.2
135°	651.1	672.1	684.6	689.5	684.6	672.1	651.1	617.0	577.2	531.9	482.4
137.5°	608.1	629.3	639.9	643.1	639.9	629.3	608.1	579.3	544.9	505.9	465.3
140°	580.8	600.2	611.4	610.7	611.4	600.2	580.8	554.2	524.2	490.8	455.2
142.5°	553.9	571.2	581.3	580.6	581.3	571.2	553.9	531.4	505.3	476.3	445.8
145°	517.3	531.9	537.5	538.9	537.5	531.9	517.3	499.9	479.7	457.4	434.4
147.5°	488.8	498.7	504.1	504.6	504.1	498.7	488.8	475.6	461.3	443.3	425.0
150°	472.7	480.4	484.6	484.6	484.6	480.4	472.7	462.2	449.0	434.4	418.3
152.5°	458.2	465.3	467.8	467.8	467.8	465.3	458.2	450.0	438.9	426.0	412.1
155°	439.2	444.8	446.2	446.8	446.2	444.8	439.2	432.9	424.5	414.1	403.0
157.5°	422.6	426.8	427.9	427.8	427.9	426.8	422.6	417.1	410.6	402.5	393.2
160°	412.1	416.2	416.2	415.5	416.2	416.2	412.1	407.2	402.3	395.3	387.6
162.5°	401.4	405.0	405.0	404.4	405.0	405.0	401.4	398.2	393.9	387.4	380.9
165°	387.6	390.4	389.7	389.7	389.7	390.4	387.6	384.9	381.4	376.5	372.3
167.5°	374.5	376.5	375.8	375.8	375.8	376.5	374.5	373.3	370.8	367.9	364.7
170°	366.7	368.1	367.4	367.4	367.4	368.1	366.7	366.0	364.6	361.9	359.7
172.5°	360.0	361.4	360.2	359.6	360.2	361.4	360.0	359.9	359.0	356.8	355.3
175°	351.3	352.0	351.3	350.7	351.3	352.0	351.3	351.3	351.3	350.0	349.3
177.5°	346.1	346.6	345.5	345.5	345.5	346.6	346.1	346.6	346.6	346.1	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A4

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°	22.4	22.0	22.1	21.1	20.2	19.2	17.2	17.5	17.1	19.1	18.2
90°	16.8	17.4	15.3	13.3	11.1	9.1	7.7	6.2	4.2	2.8	1.4
92.5°	80.9	107.2	118.0	88.5	58.6	40.3	30.0	24.2	18.7	12.8	8.6
95°	335.4	413.4	368.1	253.8	149.9	90.6	63.4	45.3	33.4	25.8	23.7
97.5°	685.5	640.7	469.0	278.5	161.3	104.7	75.3	57.4	47.2	41.1	40.4
100°	797.5	660.2	446.2	262.8	159.6	110.8	83.6	67.0	57.2	52.3	51.6
102.5°	803.2	623.9	412.7	249.4	161.8	118.1	93.2	78.1	68.8	64.6	63.3
105°	760.6	560.5	371.6	239.8	168.0	130.4	108.8	95.5	87.1	82.9	80.9
107.5°	686.2	504.4	345.4	239.2	179.4	146.4	126.4	113.9	105.7	101.7	99.5
110°	639.3	472.7	335.4	241.9	189.0	157.6	138.0	126.2	118.5	115.0	113.0



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	598.6	451.5	329.8	247.4	198.4	169.2	150.3	138.5	130.8	127.3	125.2
115°	549.4	428.7	327.7	256.5	214.0	187.5	168.7	156.9	149.9	145.7	142.9
117.5°	519.7	415.4	329.0	268.6	230.6	204.4	187.0	173.7	167.3	163.8	160.6
120°	504.1	409.2	331.2	277.5	241.2	216.2	198.7	185.5	178.4	175.0	172.9
122.5°	491.2	405.4	335.0	285.8	252.4	227.8	209.3	196.6	189.0	185.6	183.5
125°	474.7	400.2	340.9	299.1	268.4	244.0	225.2	212.0	204.3	200.1	198.7
127.5°	460.3	397.7	347.6	310.0	282.3	258.8	240.0	225.3	217.5	212.3	210.3
130°	452.5	396.0	352.0	317.2	290.7	267.7	248.9	234.3	225.9	219.6	217.5
132.5°	445.2	395.4	355.4	323.9	297.9	275.5	257.3	242.6	232.6	225.8	223.1
135°	435.7	394.6	360.4	332.5	308.8	287.2	268.4	253.8	243.3	235.7	232.8
137.5°	427.5	393.1	363.8	338.9	316.4	295.6	278.1	263.7	252.5	245.0	242.0
140°	422.5	392.5	366.0	342.3	321.4	301.1	283.7	269.8	258.7	251.6	248.2
142.5°	418.0	391.4	367.7	345.6	325.3	305.6	289.4	275.4	265.4	257.8	254.9
145°	412.1	389.7	368.8	349.3	330.5	312.4	296.3	284.5	274.0	267.7	265.6
147.5°	406.2	387.1	368.8	351.5	334.7	318.1	304.3	292.9	283.9	277.8	276.5
150°	402.3	384.9	368.8	352.0	337.4	321.4	308.8	299.1	290.0	284.5	283.7
152.5°	397.8	382.0	367.1	353.2	339.1	325.3	313.3	304.7	296.7	291.1	291.0
155°	391.1	377.2	365.3	353.5	342.3	330.5	320.7	313.0	306.0	301.8	301.8
157.5°	383.6	372.8	362.9	354.2	344.1	334.7	327.1	320.6	314.4	311.0	310.5
160°	378.5	369.5	361.9	354.2	345.8	337.4	330.5	325.6	320.0	317.2	317.2
162.5°	373.5	366.1	359.6	353.6	346.3	339.1	333.2	329.0	324.5	322.3	322.3
165°	366.7	361.1	356.2	352.0	347.1	341.6	336.7	333.9	330.5	329.0	329.8
167.5°	360.2	356.1	352.9	351.0	347.1	343.0	339.9	338.0	335.4	334.7	335.5
170°	356.2	352.8	350.7	349.3	346.5	343.0	341.6	340.2	338.1	337.4	338.9
172.5°	352.3	350.0	349.0	348.7	346.5	343.6	342.7	341.9	340.4	340.2	341.1
175°	347.9	346.5	346.5	347.1	345.8	344.4	343.7	343.7	342.3	343.0	343.7
177.5°	344.9	344.4	344.9	346.1	344.9	344.4	344.4	344.4	343.8	344.4	344.9
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



TEST NUMBER: P332374-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-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°	15.7	12.6	12.5	11.1	11.3	10.6	11.6	10.9	10.8	11.2	10.3
90°	2.8	4.2	6.2	7.7	9.1	11.1	13.3	15.3	17.4	16.8	17.4
92.5°	12.8	18.7	24.2	30.0	40.3	58.6	88.5	118.0	107.2	80.9	58.7
95°	25.8	33.4	45.3	63.4	90.6	149.9	253.8	368.1	413.4	335.4	251.0
97.5°	41.1	47.2	57.4	75.3	104.7	161.3	278.5	469.0	640.7	685.5	625.6
100°	52.3	57.2	67.0	83.6	110.8	159.6	262.8	446.2	660.2	797.5	822.0
102.5°	64.6	68.8	78.1	93.2	118.1	161.8	249.4	412.7	623.9	803.2	887.2
105°	82.9	87.1	95.5	108.8	130.4	168.0	239.8	371.6	560.5	760.6	906.3
107.5°	101.7	105.7	113.9	126.4	146.4	179.4	239.2	345.4	504.4	686.2	851.4
110°	115.0	118.5	126.2	138.0	157.6	189.0	241.9	335.4	472.7	639.3	799.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	130.8	138.5	150.3	169.2	198.4	247.4	329.8	451.5	598.6	747.1
115°	145.7	149.9	156.9	168.7	187.5	214.0	256.5	327.7	428.7	549.4	678.3
117.5°	163.8	167.3	173.7	187.0	204.4	230.6	268.6	329.0	415.4	519.7	628.6
120°	175.0	178.4	185.5	198.7	216.2	241.2	277.5	331.2	409.2	504.1	602.4
122.5°	185.6	189.0	196.6	209.3	227.8	252.4	285.8	335.0	405.4	491.2	581.8
125°	200.1	204.3	212.0	225.2	244.0	268.4	299.1	340.9	400.2	474.7	554.2
127.5°	212.3	217.5	225.3	240.0	258.8	282.3	310.0	347.6	397.7	460.3	530.3
130°	219.6	225.9	234.3	248.9	267.7	290.7	317.2	352.0	396.0	452.5	515.2
132.5°	225.8	232.6	242.6	257.3	275.5	297.9	323.9	355.4	395.4	445.2	501.2
135°	235.7	243.3	253.8	268.4	287.2	308.8	332.5	360.4	394.6	435.7	482.4
137.5°	245.0	252.5	263.7	278.1	295.6	316.4	338.9	363.8	393.1	427.5	465.3
140°	251.6	258.7	269.8	283.7	301.1	321.4	342.3	366.0	392.5	422.5	455.2
142.5°	257.8	265.4	275.4	289.4	305.6	325.3	345.6	367.7	391.4	418.0	445.8
145°	267.7	274.0	284.5	296.3	312.4	330.5	349.3	368.8	389.7	412.1	434.4
147.5°	277.8	283.9	292.9	304.3	318.1	334.7	351.5	368.8	387.1	406.2	425.0
150°	284.5	290.0	299.1	308.8	321.4	337.4	352.0	368.8	384.9	402.3	418.3
152.5°	291.1	296.7	304.7	313.3	325.3	339.1	353.2	367.1	382.0	397.8	412.1
155°	301.8	306.0	313.0	320.7	330.5	342.3	353.5	365.3	377.2	391.1	403.0
157.5°	311.0	314.4	320.6	327.1	334.7	344.1	354.2	362.9	372.8	383.6	393.2
160°	317.2	320.0	325.6	330.5	337.4	345.8	354.2	361.9	369.5	378.5	387.6
162.5°	322.3	324.5	329.0	333.2	339.1	346.3	353.6	359.6	366.1	373.5	380.9
165°	329.0	330.5	333.9	336.7	341.6	347.1	352.0	356.2	361.1	366.7	372.3
167.5°	334.7	335.4	338.0	339.9	343.0	347.1	351.0	352.9	356.1	360.2	364.7
170°	337.4	338.1	340.2	341.6	343.0	346.5	349.3	350.7	352.8	356.2	359.7
172.5°	340.2	340.4	341.9	342.7	343.6	346.5	348.7	349.0	350.0	352.3	355.3
175°	343.0	342.3	343.7	343.7	344.4	345.8	347.1	346.5	346.5	347.9	349.3
177.5°	344.4	343.8	344.4	344.4	344.4	344.9	346.1	344.9	344.4	344.9	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4



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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°	10.3	10.5	10.3	10.1	9.6	10.9	9.6
90°	18.1	18.8	20.2	19.5	20.2	21.0	20.2
92.5°	46.5	41.1	37.5	36.3	34.2	34.9	33.6
95°	170.1	133.1	108.1	94.8	88.5	83.6	80.9
97.5°	501.1	411.2	327.8	276.3	245.0	226.1	220.2
100°	765.4	683.9	584.9	514.5	463.6	436.4	437.1
102.5°	885.4	837.9	775.1	720.3	680.0	657.3	641.2
105°	976.0	989.3	971.2	939.1	912.6	890.3	886.8
107.5°	964.6	1025.6	1050.4	1051.1	1042.1	1034.6	1028.1
110°	927.2	1015.0	1063.9	1083.3	1089.0	1087.5	1086.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	878.2	976.6	1039.3	1075.0	1092.3	1097.6	1097.9
115°	799.6	902.1	978.1	1030.4	1061.0	1075.0	1078.5
117.5°	733.3	825.3	902.4	956.9	992.0	1012.1	1016.9
120°	696.4	780.2	850.5	905.6	944.7	961.4	965.5
122.5°	666.9	744.4	809.9	858.7	893.9	912.3	917.6
125°	630.3	697.1	753.0	797.5	828.2	845.6	850.5
127.5°	598.0	658.4	709.2	748.9	775.1	790.9	795.3
130°	577.9	634.5	681.8	718.8	743.9	758.5	764.1
132.5°	559.0	611.5	656.7	691.4	716.6	729.5	733.4
135°	531.9	577.2	617.0	651.1	672.1	684.6	689.5
137.5°	505.9	544.9	579.3	608.1	629.3	639.9	643.1
140°	490.8	524.2	554.2	580.8	600.2	611.4	610.7
142.5°	476.3	505.3	531.4	553.9	571.2	581.3	580.6
145°	457.4	479.7	499.9	517.3	531.9	537.5	538.9
147.5°	443.3	461.3	475.6	488.8	498.7	504.1	504.6
150°	434.4	449.0	462.2	472.7	480.4	484.6	484.6
152.5°	426.0	438.9	450.0	458.2	465.3	467.8	467.8
155°	414.1	424.5	432.9	439.2	444.8	446.2	446.8
157.5°	402.5	410.6	417.1	422.6	426.8	427.9	427.8
160°	395.3	402.3	407.2	412.1	416.2	416.2	415.5
162.5°	387.4	393.9	398.2	401.4	405.0	405.0	404.4
165°	376.5	381.4	384.9	387.6	390.4	389.7	389.7
167.5°	367.9	370.8	373.3	374.5	376.5	375.8	375.8
170°	361.9	364.6	366.0	366.7	368.1	367.4	367.4
172.5°	356.8	359.0	359.9	360.0	361.4	360.2	359.6
175°	350.0	351.3	351.3	351.3	352.0	351.3	350.7
177.5°	346.1	346.6	346.6	346.1	346.6	345.5	345.5
180°	344.4	344.4	344.4	344.4	344.4	344.4	344.4

(END OF REPORT)