

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: P332373-940

Luminaire Tested: **S123RDIP-S1165D805U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332373-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
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-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6538.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

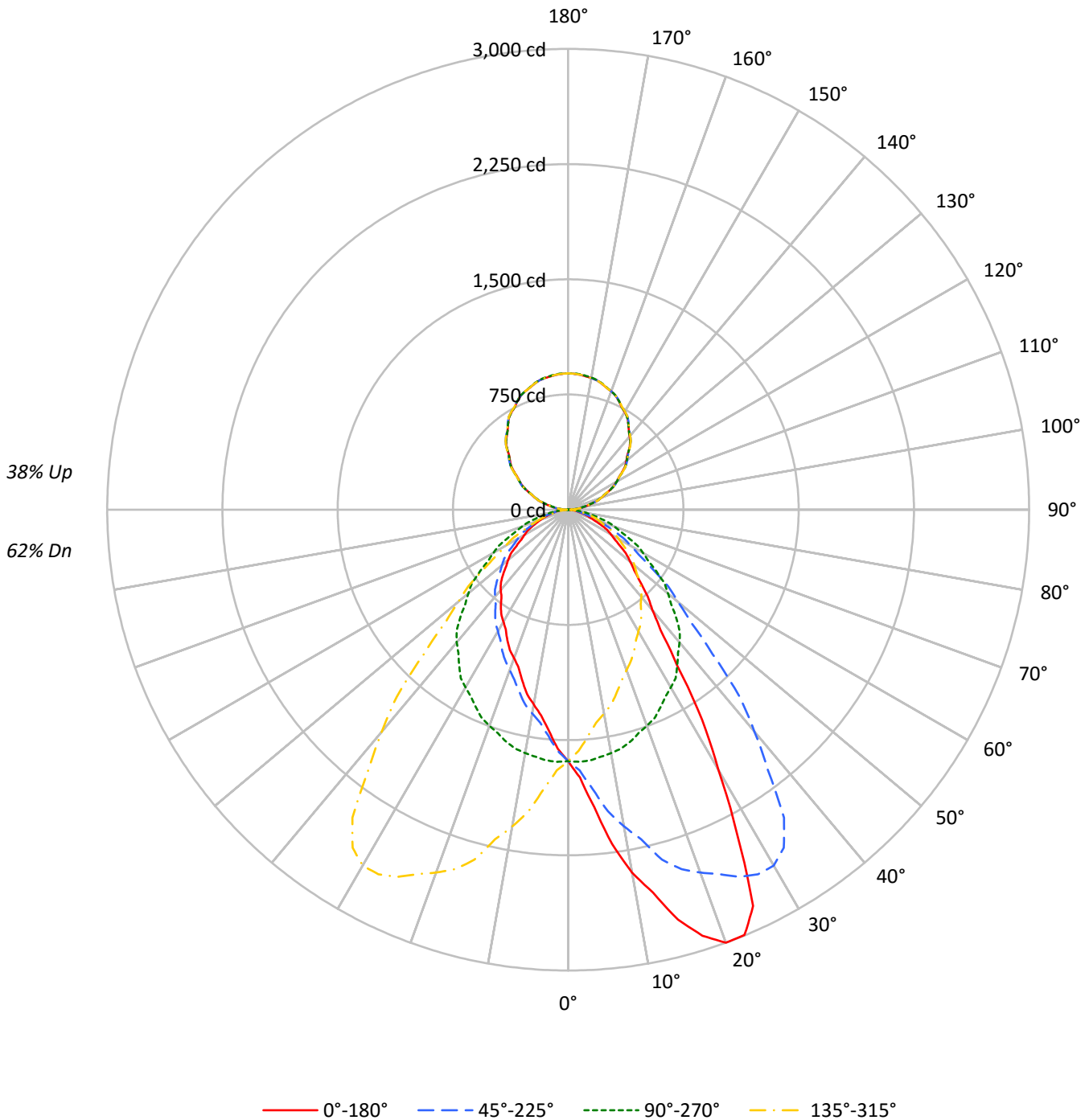
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332373-940

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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	78	78	78	68	68	68	62
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54
2	93	86	80	75	87	81	76	71	71	67	64	62	60	57	54	52	50	46
3	85	76	69	63	80	72	65	60	63	59	55	56	52	49	49	46	44	40
4	78	68	60	54	73	64	57	52	57	51	47	50	46	43	44	41	38	35
5	72	61	53	47	68	58	50	45	51	46	41	46	41	37	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	37	32	38	33	30	34	30	27	25
8	58	45	38	33	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	51	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	37	30	26	33	28	24	30	25	22	27	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



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	2.5
10°-20°	503.0	7.7
20°-30°	790.2	12.1
30°-40°	824.4	12.6
40°-50°	705.6	10.8
50°-60°	537.8	8.2
60°-70°	344.7	5.3
70°-80°	165.8	2.5
80°-90°	46.5	0.7
90°-100°	57.8	0.9
100°-110°	173.1	2.6
110°-120°	294.3	4.5
120°-130°	387.1	5.9
130°-140°	435.1	6.7
140°-150°	427.7	6.5
150°-160°	360.1	5.5
160°-170°	239.7	3.7
170°-180°	83.9	1.3
0°-30°	1454.2	22.2
0°-40°	2278.7	34.9
0°-60°	3522.0	53.9
0°-90°	4079.0	62.4
90°-120°	525.2	8.0
90°-150°	1775.2	27.2
90°-180°	2459.0	37.6
0°-180°	6538.0	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°	21	1	21	1	21	11
95°	54	41	54	41	54	56
105°	166	157	166	157	166	176
115°	297	296	297	296	297	294
125°	429	434	429	434	429	383
135°	562	563	562	563	562	432
145°	682	682	682	682	682	426
155°	780	782	780	782	780	359
165°	848	851	848	851	848	239
175°	882	885	882	885	882	84
180°	888	888	888	888	888	



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	9.8	10.9	9.6	10.2	10.1	10.6	10.4	10.3	11.3	10.6	10.8
90°	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0	17.4	16.8	14.7
92.5°	28.2	28.4	28.5	28.7	28.9	28.7	28.3	27.7	27.3	26.8	25.6
95°	54.4	54.4	54.4	54.4	54.4	54.0	53.4	52.8	52.3	51.6	50.4
97.5°	83.6	83.7	83.8	83.8	83.9	83.6	82.8	82.1	81.4	80.7	79.8
100°	105.9	105.7	105.3	105.0	104.8	104.3	103.9	103.4	103.0	102.5	101.7
102.5°	128.9	128.9	128.9	129.0	129.1	128.9	128.4	128.0	127.5	127.1	126.0
105°	165.9	165.6	165.3	165.0	164.7	164.5	164.5	164.5	164.5	164.5	163.2
107.5°	204.6	204.7	204.9	205.1	205.3	205.2	204.6	204.1	203.7	203.1	202.6
110°	230.8	231.0	231.4	231.7	232.0	231.8	231.2	230.6	230.0	229.3	229.1



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	258.7	258.7	258.8	258.9	258.9	258.6	257.8	257.1	256.4	255.6	255.6
115°	297.0	297.1	297.3	297.5	297.7	297.7	297.5	297.3	297.1	297.0	297.3
117.5°	335.9	336.4	336.8	337.2	337.6	337.9	337.9	338.0	338.0	338.0	338.4
120°	363.2	363.6	363.8	364.2	364.4	364.7	364.9	365.0	365.2	365.3	366.1
122.5°	389.4	389.9	390.3	390.7	391.2	391.6	392.0	392.4	392.8	393.2	393.6
125°	428.7	429.4	430.0	430.6	431.2	431.9	432.5	433.1	433.7	434.4	434.6
127.5°	468.0	468.7	469.4	470.1	470.8	471.6	472.4	473.3	474.2	475.0	475.4
130°	493.6	494.7	495.8	496.9	497.9	498.8	499.4	500.1	500.6	501.2	501.8
132.5°	520.4	521.2	522.0	522.9	523.7	524.5	525.2	526.0	526.7	527.4	527.8
135°	562.0	562.2	562.6	562.8	563.2	563.7	564.3	564.9	565.5	566.1	566.2
137.5°	598.6	599.2	599.8	600.4	600.9	601.5	602.3	602.9	603.5	604.1	603.8
140°	622.6	623.7	624.7	625.8	627.0	627.5	627.7	627.9	628.0	628.1	628.0
142.5°	647.1	647.9	648.8	649.6	650.5	650.9	651.1	651.3	651.4	651.6	651.3
145°	682.5	683.1	683.8	684.4	685.0	685.4	685.5	685.7	685.9	686.0	685.5
147.5°	714.1	715.0	715.9	716.8	717.7	718.3	718.3	718.3	718.3	718.3	717.8
150°	734.1	735.0	736.0	736.9	737.9	738.3	738.3	738.3	738.3	738.3	738.0
152.5°	753.7	754.5	755.3	756.1	756.9	757.2	756.9	756.6	756.4	756.2	756.0
155°	780.2	781.2	782.3	783.4	784.4	784.7	784.1	783.5	782.8	782.2	782.1
157.5°	804.2	805.1	806.0	806.9	807.7	807.8	807.2	806.6	805.9	805.2	805.1
160°	819.8	820.5	821.1	821.7	822.3	822.2	821.5	820.7	819.9	819.2	819.2
162.5°	831.6	832.6	833.6	834.6	835.5	835.7	834.9	834.1	833.3	832.6	832.4
165°	848.5	849.5	850.6	851.8	852.8	852.9	851.9	851.0	850.1	849.2	849.2
167.5°	862.8	863.8	864.8	865.7	866.7	866.7	865.7	864.8	863.8	862.8	862.7
170°	870.0	871.2	872.3	873.3	874.4	874.4	873.3	872.3	871.2	870.0	870.0
172.5°	875.7	876.7	877.8	878.9	880.0	880.0	879.1	878.2	877.2	876.2	876.2
175°	881.9	883.0	884.1	885.2	886.3	886.4	885.4	884.5	883.6	882.6	882.6
177.5°	885.3	886.2	887.0	887.9	888.8	888.8	888.1	887.3	886.5	885.8	885.8
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	11.5	10.5	11.2	10.9	12.3	12.6	15.6	18.1	19.0	17.0	17.3
90°	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7	2.2	3.8	5.4
92.5°	24.5	23.4	22.2	21.0	20.1	19.0	17.9	16.9	17.9	19.0	20.1
95°	49.1	47.9	46.6	45.5	44.4	43.3	42.2	41.1	42.2	43.3	44.4
97.5°	78.9	78.0	77.1	76.3	75.4	74.6	73.8	73.0	73.8	74.6	75.4
100°	100.9	100.1	99.4	98.5	97.6	96.7	95.8	94.8	95.8	96.7	97.6
102.5°	125.0	123.9	123.0	122.2	121.6	121.0	120.5	119.9	120.5	121.0	121.6
105°	161.8	160.3	159.0	158.1	157.8	157.5	157.2	156.9	157.2	157.5	157.8
107.5°	202.1	201.5	200.9	200.5	200.4	200.2	200.0	199.8	200.0	200.2	200.4
110°	228.7	228.5	228.1	227.8	227.5	227.2	226.9	226.6	226.9	227.2	227.5





TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	255.5	255.4	255.3	255.2	255.0	254.9	254.7	254.5	254.7	254.9	255.0
115°	297.7	297.9	298.3	298.2	297.7	297.2	296.8	296.3	296.8	297.2	297.7
117.5°	338.8	339.2	339.6	339.7	339.3	339.0	338.8	338.4	338.8	339.0	339.3
120°	366.8	367.7	368.5	368.4	367.4	366.5	365.5	364.6	365.5	366.5	367.4
122.5°	394.0	394.4	394.8	394.7	394.0	393.3	392.6	392.0	392.6	393.3	394.0
125°	435.0	435.2	435.6	435.5	435.1	434.5	434.1	433.6	434.1	434.5	435.1
127.5°	475.7	476.1	476.4	476.1	475.1	474.1	473.1	472.2	473.1	474.1	475.1
130°	502.2	502.7	503.1	502.7	501.5	500.2	499.0	497.8	499.0	500.2	501.5
132.5°	528.2	528.5	528.9	528.4	527.2	525.9	524.7	523.4	524.7	525.9	527.2
135°	566.4	566.6	566.8	566.3	565.4	564.5	563.6	562.6	563.6	564.5	565.4
137.5°	603.3	603.0	602.5	602.0	601.2	600.4	599.7	598.9	599.7	600.4	601.2
140°	627.9	627.7	627.5	627.1	626.3	625.5	624.7	623.9	624.7	625.5	626.3
142.5°	651.0	650.8	650.5	650.0	649.2	648.4	647.6	646.8	647.6	648.4	649.2
145°	685.1	684.7	684.1	683.8	683.5	683.1	682.9	682.5	682.9	683.1	683.5
147.5°	717.4	716.9	716.5	716.0	715.4	714.9	714.3	713.8	714.3	714.9	715.4
150°	737.7	737.4	737.1	736.7	736.5	736.1	735.8	735.5	735.8	736.1	736.5
152.5°	755.8	755.6	755.5	755.1	754.7	754.2	753.8	753.4	753.8	754.2	754.7
155°	781.9	781.8	781.6	781.5	781.5	781.5	781.5	781.5	781.5	781.5	781.5
157.5°	805.0	804.9	804.8	804.8	804.9	805.1	805.3	805.5	805.3	805.1	804.9
160°	819.2	819.2	819.2	819.3	819.7	819.9	820.3	820.6	820.3	819.9	819.7
162.5°	832.3	832.2	832.1	832.2	832.7	833.1	833.6	833.9	833.6	833.1	832.7
165°	849.2	849.2	849.2	849.4	849.9	850.3	850.8	851.2	850.8	850.3	849.9
167.5°	862.6	862.5	862.4	862.6	863.2	863.8	864.4	865.0	864.4	863.8	863.2
170°	870.0	870.0	870.0	870.4	871.0	871.6	872.3	872.9	872.3	871.6	871.0
172.5°	876.2	876.2	876.2	876.6	877.2	877.8	878.4	879.0	878.4	877.8	877.2
175°	882.6	882.6	882.6	883.0	883.6	884.2	884.8	885.4	884.8	884.2	883.6
177.5°	885.8	885.8	885.8	886.1	886.5	887.1	887.6	888.1	887.6	887.1	886.5
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	17.1	19.1	20.1	21.0	22.0	21.8	22.6	22.6	23.4	23.5	23.5
90°	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0	18.5	19.2	19.7
92.5°	21.0	22.2	23.4	24.5	25.6	26.8	27.3	27.7	28.3	28.7	28.9
95°	45.5	46.6	47.9	49.1	50.4	51.6	52.3	52.8	53.4	54.0	54.4
97.5°	76.3	77.1	78.0	78.9	79.8	80.7	81.4	82.1	82.8	83.6	83.9
100°	98.5	99.4	100.1	100.9	101.7	102.5	103.0	103.4	103.9	104.3	104.8
102.5°	122.2	123.0	123.9	125.0	126.0	127.1	127.5	128.0	128.4	128.9	129.1
105°	158.1	159.0	160.3	161.8	163.2	164.5	164.5	164.5	164.5	164.5	164.7
107.5°	200.5	200.9	201.5	202.1	202.6	203.1	203.7	204.1	204.6	205.2	205.3
110°	227.8	228.1	228.5	228.7	229.1	229.3	230.0	230.6	231.2	231.8	232.0



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	255.2	255.3	255.4	255.5	255.6	255.6	256.4	257.1	257.8	258.6	258.9
115°	298.2	298.3	297.9	297.7	297.3	297.0	297.1	297.3	297.5	297.7	297.7
117.5°	339.7	339.6	339.2	338.8	338.4	338.0	338.0	338.0	337.9	337.9	337.6
120°	368.4	368.5	367.7	366.8	366.1	365.3	365.2	365.0	364.9	364.7	364.4
122.5°	394.7	394.8	394.4	394.0	393.6	393.2	392.8	392.4	392.0	391.6	391.2
125°	435.5	435.6	435.2	435.0	434.6	434.4	433.7	433.1	432.5	431.9	431.2
127.5°	476.1	476.4	476.1	475.7	475.4	475.0	474.2	473.3	472.4	471.6	470.8
130°	502.7	503.1	502.7	502.2	501.8	501.2	500.6	500.1	499.4	498.8	497.9
132.5°	528.4	528.9	528.5	528.2	527.8	527.4	526.7	526.0	525.2	524.5	523.7
135°	566.3	566.8	566.6	566.4	566.2	566.1	565.5	564.9	564.3	563.7	563.2
137.5°	602.0	602.5	603.0	603.3	603.8	604.1	603.5	602.9	602.3	601.5	600.9
140°	627.1	627.5	627.7	627.9	628.0	628.1	628.0	627.9	627.7	627.5	627.0
142.5°	650.0	650.5	650.8	651.0	651.3	651.6	651.4	651.3	651.1	650.9	650.5
145°	683.8	684.1	684.7	685.1	685.5	686.0	685.9	685.7	685.5	685.4	685.0
147.5°	716.0	716.5	716.9	717.4	717.8	718.3	718.3	718.3	718.3	718.3	717.7
150°	736.7	737.1	737.4	737.7	738.0	738.3	738.3	738.3	738.3	738.3	737.9
152.5°	755.1	755.5	755.6	755.8	756.0	756.2	756.4	756.6	756.9	757.2	756.9
155°	781.5	781.6	781.8	781.9	782.1	782.2	782.8	783.5	784.1	784.7	784.4
157.5°	804.8	804.8	804.9	805.0	805.1	805.2	805.9	806.6	807.2	807.8	807.7
160°	819.3	819.2	819.2	819.2	819.2	819.2	819.9	820.7	821.5	822.2	822.3
162.5°	832.2	832.1	832.2	832.3	832.4	832.6	833.3	834.1	834.9	835.7	835.5
165°	849.4	849.2	849.2	849.2	849.2	849.2	850.1	851.0	851.9	852.9	852.8
167.5°	862.6	862.4	862.5	862.6	862.7	862.8	863.8	864.8	865.7	866.7	866.7
170°	870.4	870.0	870.0	870.0	870.0	870.0	871.2	872.3	873.3	874.4	874.4
172.5°	876.6	876.2	876.2	876.2	876.2	876.2	877.2	878.2	879.1	880.0	880.0
175°	883.0	882.6	882.6	882.6	882.6	882.6	883.6	884.5	885.4	886.4	886.3
177.5°	886.1	885.8	885.8	885.8	885.8	885.8	886.5	887.3	888.1	888.8	888.8
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	24.7	23.7	23.7	24.3	23.7	23.7	24.7	23.5	23.5	23.4	22.6
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0
92.5°	28.7	28.5	28.4	28.2	28.4	28.5	28.7	28.9	28.7	28.3	27.7
95°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.0	53.4	52.8
97.5°	83.8	83.8	83.7	83.6	83.7	83.8	83.8	83.9	83.6	82.8	82.1
100°	105.0	105.3	105.7	105.9	105.7	105.3	105.0	104.8	104.3	103.9	103.4
102.5°	129.0	128.9	128.9	128.9	128.9	128.9	129.0	129.1	128.9	128.4	128.0
105°	165.0	165.3	165.6	165.9	165.6	165.3	165.0	164.7	164.5	164.5	164.5
107.5°	205.1	204.9	204.7	204.6	204.7	204.9	205.1	205.3	205.2	204.6	204.1
110°	231.7	231.4	231.0	230.8	231.0	231.4	231.7	232.0	231.8	231.2	230.6



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	258.9	258.8	258.7	258.7	258.7	258.8	258.9	258.9	258.6	257.8	257.1
115°	297.5	297.3	297.1	297.0	297.1	297.3	297.5	297.7	297.7	297.5	297.3
117.5°	337.2	336.8	336.4	335.9	336.4	336.8	337.2	337.6	337.9	337.9	338.0
120°	364.2	363.8	363.6	363.2	363.6	363.8	364.2	364.4	364.7	364.9	365.0
122.5°	390.7	390.3	389.9	389.4	389.9	390.3	390.7	391.2	391.6	392.0	392.4
125°	430.6	430.0	429.4	428.7	429.4	430.0	430.6	431.2	431.9	432.5	433.1
127.5°	470.1	469.4	468.7	468.0	468.7	469.4	470.1	470.8	471.6	472.4	473.3
130°	496.9	495.8	494.7	493.6	494.7	495.8	496.9	497.9	498.8	499.4	500.1
132.5°	522.9	522.0	521.2	520.4	521.2	522.0	522.9	523.7	524.5	525.2	526.0
135°	562.8	562.6	562.2	562.0	562.2	562.6	562.8	563.2	563.7	564.3	564.9
137.5°	600.4	599.8	599.2	598.6	599.2	599.8	600.4	600.9	601.5	602.3	602.9
140°	625.8	624.7	623.7	622.6	623.7	624.7	625.8	627.0	627.5	627.7	627.9
142.5°	649.6	648.8	647.9	647.1	647.9	648.8	649.6	650.5	650.9	651.1	651.3
145°	684.4	683.8	683.1	682.5	683.1	683.8	684.4	685.0	685.4	685.5	685.7
147.5°	716.8	715.9	715.0	714.1	715.0	715.9	716.8	717.7	718.3	718.3	718.3
150°	736.9	736.0	735.0	734.1	735.0	736.0	736.9	737.9	738.3	738.3	738.3
152.5°	756.1	755.3	754.5	753.7	754.5	755.3	756.1	756.9	757.2	756.9	756.6
155°	783.4	782.3	781.2	780.2	781.2	782.3	783.4	784.4	784.7	784.1	783.5
157.5°	806.9	806.0	805.1	804.2	805.1	806.0	806.9	807.7	807.8	807.2	806.6
160°	821.7	821.1	820.5	819.8	820.5	821.1	821.7	822.3	822.2	821.5	820.7
162.5°	834.6	833.6	832.6	831.6	832.6	833.6	834.6	835.5	835.7	834.9	834.1
165°	851.8	850.6	849.5	848.5	849.5	850.6	851.8	852.8	852.9	851.9	851.0
167.5°	865.7	864.8	863.8	862.8	863.8	864.8	865.7	866.7	866.7	865.7	864.8
170°	873.3	872.3	871.2	870.0	871.2	872.3	873.3	874.4	874.4	873.3	872.3
172.5°	878.9	877.8	876.7	875.7	876.7	877.8	878.9	880.0	880.0	879.1	878.2
175°	885.2	884.1	883.0	881.9	883.0	884.1	885.2	886.3	886.4	885.4	884.5
177.5°	887.9	887.0	886.2	885.3	886.2	887.0	887.9	888.8	888.8	888.1	887.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	22.6	21.8	22.0	21.0	20.1	19.1	17.1	17.3	17.0	19.0	18.1
90°	17.4	16.8	14.7	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7
92.5°	27.3	26.8	25.6	24.5	23.4	22.2	21.0	20.1	19.0	17.9	16.9
95°	52.3	51.6	50.4	49.1	47.9	46.6	45.5	44.4	43.3	42.2	41.1
97.5°	81.4	80.7	79.8	78.9	78.0	77.1	76.3	75.4	74.6	73.8	73.0
100°	103.0	102.5	101.7	100.9	100.1	99.4	98.5	97.6	96.7	95.8	94.8
102.5°	127.5	127.1	126.0	125.0	123.9	123.0	122.2	121.6	121.0	120.5	119.9
105°	164.5	164.5	163.2	161.8	160.3	159.0	158.1	157.8	157.5	157.2	156.9
107.5°	203.7	203.1	202.6	202.1	201.5	200.9	200.5	200.4	200.2	200.0	199.8
110°	230.0	229.3	229.1	228.7	228.5	228.1	227.8	227.5	227.2	226.9	226.6



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	256.4	255.6	255.6	255.5	255.4	255.3	255.2	255.0	254.9	254.7	254.5
115°	297.1	297.0	297.3	297.7	297.9	298.3	298.2	297.7	297.2	296.8	296.3
117.5°	338.0	338.0	338.4	338.8	339.2	339.6	339.7	339.3	339.0	338.8	338.4
120°	365.2	365.3	366.1	366.8	367.7	368.5	368.4	367.4	366.5	365.5	364.6
122.5°	392.8	393.2	393.6	394.0	394.4	394.8	394.7	394.0	393.3	392.6	392.0
125°	433.7	434.4	434.6	435.0	435.2	435.6	435.5	435.1	434.5	434.1	433.6
127.5°	474.2	475.0	475.4	475.7	476.1	476.4	476.1	475.1	474.1	473.1	472.2
130°	500.6	501.2	501.8	502.2	502.7	503.1	502.7	501.5	500.2	499.0	497.8
132.5°	526.7	527.4	527.8	528.2	528.5	528.9	528.4	527.2	525.9	524.7	523.4
135°	565.5	566.1	566.2	566.4	566.6	566.8	566.3	565.4	564.5	563.6	562.6
137.5°	603.5	604.1	603.8	603.3	603.0	602.5	602.0	601.2	600.4	599.7	598.9
140°	628.0	628.1	628.0	627.9	627.7	627.5	627.1	626.3	625.5	624.7	623.9
142.5°	651.4	651.6	651.3	651.0	650.8	650.5	650.0	649.2	648.4	647.6	646.8
145°	685.9	686.0	685.5	685.1	684.7	684.1	683.8	683.5	683.1	682.9	682.5
147.5°	718.3	718.3	717.8	717.4	716.9	716.5	716.0	715.4	714.9	714.3	713.8
150°	738.3	738.3	738.0	737.7	737.4	737.1	736.7	736.5	736.1	735.8	735.5
152.5°	756.4	756.2	756.0	755.8	755.6	755.5	755.1	754.7	754.2	753.8	753.4
155°	782.8	782.2	782.1	781.9	781.8	781.6	781.5	781.5	781.5	781.5	781.5
157.5°	805.9	805.2	805.1	805.0	804.9	804.8	804.8	804.9	805.1	805.3	805.5
160°	819.9	819.2	819.2	819.2	819.2	819.2	819.3	819.7	819.9	820.3	820.6
162.5°	833.3	832.6	832.4	832.3	832.2	832.1	832.2	832.7	833.1	833.6	833.9
165°	850.1	849.2	849.2	849.2	849.2	849.2	849.4	849.9	850.3	850.8	851.2
167.5°	863.8	862.8	862.7	862.6	862.5	862.4	862.6	863.2	863.8	864.4	865.0
170°	871.2	870.0	870.0	870.0	870.0	870.0	870.4	871.0	871.6	872.3	872.9
172.5°	877.2	876.2	876.2	876.2	876.2	876.2	876.6	877.2	877.8	878.4	879.0
175°	883.6	882.6	882.6	882.6	882.6	882.6	883.0	883.6	884.2	884.8	885.4
177.5°	886.5	885.8	885.8	885.8	885.8	885.8	886.1	886.5	887.1	887.6	888.1
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	15.6	12.6	12.3	10.9	11.2	10.5	11.5	10.8	10.6	11.3	10.3
90°	2.2	3.8	5.4	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0
92.5°	17.9	19.0	20.1	21.0	22.2	23.4	24.5	25.6	26.8	27.3	27.7
95°	42.2	43.3	44.4	45.5	46.6	47.9	49.1	50.4	51.6	52.3	52.8
97.5°	73.8	74.6	75.4	76.3	77.1	78.0	78.9	79.8	80.7	81.4	82.1
100°	95.8	96.7	97.6	98.5	99.4	100.1	100.9	101.7	102.5	103.0	103.4
102.5°	120.5	121.0	121.6	122.2	123.0	123.9	125.0	126.0	127.1	127.5	128.0
105°	157.2	157.5	157.8	158.1	159.0	160.3	161.8	163.2	164.5	164.5	164.5
107.5°	200.0	200.2	200.4	200.5	200.9	201.5	202.1	202.6	203.1	203.7	204.1
110°	226.9	227.2	227.5	227.8	228.1	228.5	228.7	229.1	229.3	230.0	230.6





TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	254.7	254.9	255.0	255.2	255.3	255.4	255.5	255.6	255.6	256.4	257.1
115°	296.8	297.2	297.7	298.2	298.3	297.9	297.7	297.3	297.0	297.1	297.3
117.5°	338.8	339.0	339.3	339.7	339.6	339.2	338.8	338.4	338.0	338.0	338.0
120°	365.5	366.5	367.4	368.4	368.5	367.7	366.8	366.1	365.3	365.2	365.0
122.5°	392.6	393.3	394.0	394.7	394.8	394.4	394.0	393.6	393.2	392.8	392.4
125°	434.1	434.5	435.1	435.5	435.6	435.2	435.0	434.6	434.4	433.7	433.1
127.5°	473.1	474.1	475.1	476.1	476.4	476.1	475.7	475.4	475.0	474.2	473.3
130°	499.0	500.2	501.5	502.7	503.1	502.7	502.2	501.8	501.2	500.6	500.1
132.5°	524.7	525.9	527.2	528.4	528.9	528.5	528.2	527.8	527.4	526.7	526.0
135°	563.6	564.5	565.4	566.3	566.8	566.6	566.4	566.2	566.1	565.5	564.9
137.5°	599.7	600.4	601.2	602.0	602.5	603.0	603.3	603.8	604.1	603.5	602.9
140°	624.7	625.5	626.3	627.1	627.5	627.7	627.9	628.0	628.1	628.0	627.9
142.5°	647.6	648.4	649.2	650.0	650.5	650.8	651.0	651.3	651.6	651.4	651.3
145°	682.9	683.1	683.5	683.8	684.1	684.7	685.1	685.5	686.0	685.9	685.7
147.5°	714.3	714.9	715.4	716.0	716.5	716.9	717.4	717.8	718.3	718.3	718.3
150°	735.8	736.1	736.5	736.7	737.1	737.4	737.7	738.0	738.3	738.3	738.3
152.5°	753.8	754.2	754.7	755.1	755.5	755.6	755.8	756.0	756.2	756.4	756.6
155°	781.5	781.5	781.5	781.5	781.6	781.8	781.9	782.1	782.2	782.8	783.5
157.5°	805.3	805.1	804.9	804.8	804.8	804.9	805.0	805.1	805.2	805.9	806.6
160°	820.3	819.9	819.7	819.3	819.2	819.2	819.2	819.2	819.2	819.9	820.7
162.5°	833.6	833.1	832.7	832.2	832.1	832.2	832.3	832.4	832.6	833.3	834.1
165°	850.8	850.3	849.9	849.4	849.2	849.2	849.2	849.2	849.2	850.1	851.0
167.5°	864.4	863.8	863.2	862.6	862.4	862.5	862.6	862.7	862.8	863.8	864.8
170°	872.3	871.6	871.0	870.4	870.0	870.0	870.0	870.0	870.0	871.2	872.3
172.5°	878.4	877.8	877.2	876.6	876.2	876.2	876.2	876.2	876.2	877.2	878.2
175°	884.8	884.2	883.6	883.0	882.6	882.6	882.6	882.6	882.6	883.6	884.5
177.5°	887.6	887.1	886.5	886.1	885.8	885.8	885.8	885.8	885.8	886.5	887.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**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°	10.4	10.6	10.1	10.2	9.6	10.9	9.8
90°	18.5	19.2	19.7	20.0	20.3	20.6	21.0
92.5°	28.3	28.7	28.9	28.7	28.5	28.4	28.2
95°	53.4	54.0	54.4	54.4	54.4	54.4	54.4
97.5°	82.8	83.6	83.9	83.8	83.8	83.7	83.6
100°	103.9	104.3	104.8	105.0	105.3	105.7	105.9
102.5°	128.4	128.9	129.1	129.0	128.9	128.9	128.9
105°	164.5	164.5	164.7	165.0	165.3	165.6	165.9
107.5°	204.6	205.2	205.3	205.1	204.9	204.7	204.6
110°	231.2	231.8	232.0	231.7	231.4	231.0	230.8



TEST NUMBER: P332373-940

CATALOG NUMBER: S123RDIP-S1165D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.8	258.6	258.9	258.9	258.8	258.7	258.7
115°	297.5	297.7	297.7	297.5	297.3	297.1	297.0
117.5°	337.9	337.9	337.6	337.2	336.8	336.4	335.9
120°	364.9	364.7	364.4	364.2	363.8	363.6	363.2
122.5°	392.0	391.6	391.2	390.7	390.3	389.9	389.4
125°	432.5	431.9	431.2	430.6	430.0	429.4	428.7
127.5°	472.4	471.6	470.8	470.1	469.4	468.7	468.0
130°	499.4	498.8	497.9	496.9	495.8	494.7	493.6
132.5°	525.2	524.5	523.7	522.9	522.0	521.2	520.4
135°	564.3	563.7	563.2	562.8	562.6	562.2	562.0
137.5°	602.3	601.5	600.9	600.4	599.8	599.2	598.6
140°	627.7	627.5	627.0	625.8	624.7	623.7	622.6
142.5°	651.1	650.9	650.5	649.6	648.8	647.9	647.1
145°	685.5	685.4	685.0	684.4	683.8	683.1	682.5
147.5°	718.3	718.3	717.7	716.8	715.9	715.0	714.1
150°	738.3	738.3	737.9	736.9	736.0	735.0	734.1
152.5°	756.9	757.2	756.9	756.1	755.3	754.5	753.7
155°	784.1	784.7	784.4	783.4	782.3	781.2	780.2
157.5°	807.2	807.8	807.7	806.9	806.0	805.1	804.2
160°	821.5	822.2	822.3	821.7	821.1	820.5	819.8
162.5°	834.9	835.7	835.5	834.6	833.6	832.6	831.6
165°	851.9	852.9	852.8	851.8	850.6	849.5	848.5
167.5°	865.7	866.7	866.7	865.7	864.8	863.8	862.8
170°	873.3	874.4	874.4	873.3	872.3	871.2	870.0
172.5°	879.1	880.0	880.0	878.9	877.8	876.7	875.7
175°	885.4	886.4	886.3	885.2	884.1	883.0	881.9
177.5°	888.1	888.8	888.8	887.9	887.0	886.2	885.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5

(END OF REPORT)