

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: P332367

Luminaire Tested: **S123RDIP-S1165D585U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332367
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-S1165D585U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6585.3 lumens
Efficiency: N/A
Efficacy: 119.5 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

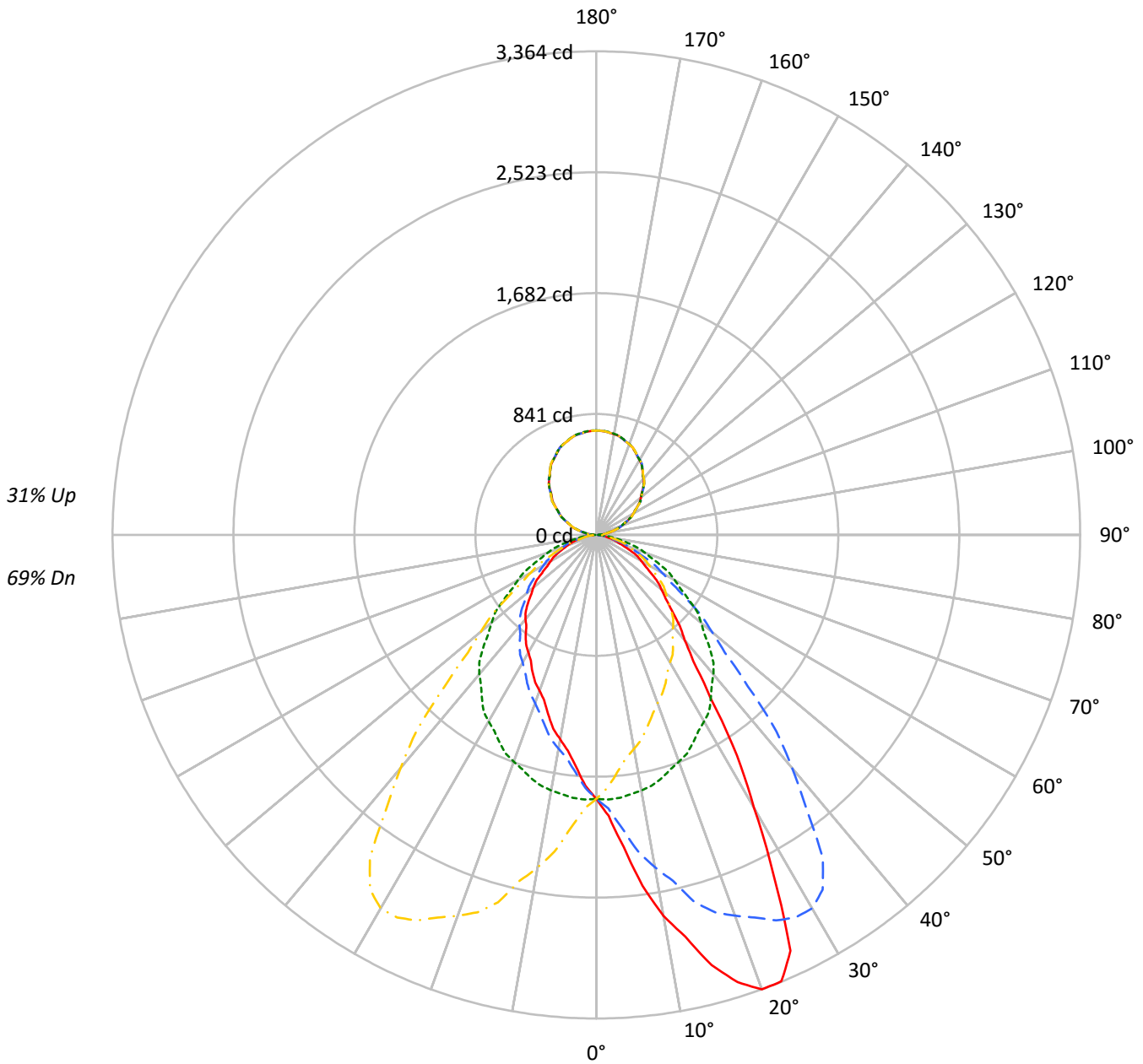
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - . - . 135°-315°



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69																												
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	65	64	60																												
2	94	87	81	76	89	83	78	73	74	70	67	67	64	61	60	57	55	52																												
3	87	77	70	65	82	74	67	62	66	61	57	60	56	53	54	51	48	45																												
4	80	69	61	55	75	66	59	53	60	54	50	54	49	46	48	45	42	39																												
5	74	62	54	48	69	59	52	47	54	48	43	49	44	40	44	40	37	34																												
6	68	56	48	42	64	54	46	41	49	43	38	44	39	36	40	36	33	31																												
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	37	33	30	27																												
8	59	47	39	34	56	45	38	33	41	35	31	37	32	29	34	30	27	25																												
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	27	24	22																												
10	52	39	32	27	49	38	31	27	35	29	25	32	27	24	29	25	22	20																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19763	19763	19763	19763
5°	23558	19847	17477	19847
10°	29415	19733	15789	19733
15°	34526	19531	14399	19531
20°	38533	19230	13216	19230
25°	37917	18912	12490	18912
30°	27256	18620	11742	18620
35°	18198	18239	11257	18239
40°	13408	17781	10756	17781
45°	11246	16978	10266	16978
50°	9923	15925	9582	15925
55°	8702	14720	8644	14720
60°	7750	13569	7918	13569
65°	6805	12332	7366	12332
70°	5344	11229	6729	11229
75°	4708	9807	6147	9807
80°	4091	8331	6044	8331
85°	3298	6694	6410	6694



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.7
10°-20°	564.1	8.6
20°-30°	886.2	13.5
30°-40°	924.6	14.0
40°-50°	791.2	12.0
50°-60°	603.1	9.2
60°-70°	386.5	5.9
70°-80°	186.0	2.8
80°-90°	51.4	0.8
90°-100°	47.3	0.7
100°-110°	141.6	2.1
110°-120°	240.8	3.7
120°-130°	316.7	4.8
130°-140°	356.0	5.4
140°-150°	349.9	5.3
150°-160°	294.6	4.5
160°-170°	196.1	3.0
170°-180°	68.7	1.0
0°-30°	1630.8	24.8
0°-40°	2555.4	38.8
0°-60°	3949.7	60.0
0°-90°	4573.5	69.5
90°-120°	429.7	6.5
90°-150°	1452.4	22.1
90°-180°	2012.0	30.6
0°-180°	6585.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1836	1836	1836	1836	1836	
5°	2180	1837	1618	1837	2180	225
15°	3098	1753	1292	1753	3098	879
25°	3193	1592	1052	1592	3193	1372
35°	1385	1388	857	1388	1385	908
45°	739	1115	674	1115	739	581
55°	464	784	461	784	464	419
65°	267	484	289	484	267	263
75°	113	236	148	236	113	121
85°	27	54	52	54	27	31
90°	17	1	17	1	17	9
95°	44	34	44	34	44	46
105°	136	128	136	128	136	144
115°	243	242	243	242	243	241
125°	351	355	351	355	351	314
135°	460	460	460	460	460	353
145°	558	558	558	558	558	349
155°	638	639	638	639	638	294
165°	694	696	694	696	694	196
175°	722	724	722	724	722	69
180°	726	726	726	726	726	



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1955.5	1958.0	1949.8	1948.6	1939.1	1936.6	1936.6	1923.4	1915.2	1904.6	1898.3
5°	2180.3	2192.9	2186.6	2172.4	2148.8	2143.3	2128.4	2104.8	2078.1	2045.1	2029.4
7.5°	2461.0	2478.2	2471.6	2449.7	2425.0	2405.1	2362.9	2323.8	2268.9	2220.8	2179.6
10°	2691.2	2673.1	2658.9	2637.7	2614.9	2578.0	2534.0	2473.4	2403.5	2348.5	2287.2
12.5°	2863.4	2860.5	2842.5	2820.7	2788.5	2753.4	2699.3	2625.6	2544.3	2464.8	2394.7
15°	3098.3	3103.0	3091.2	3068.4	3022.8	2960.7	2879.0	2848.4	2732.0	2645.6	2559.1
17.5°	3260.8	3259.9	3258.3	3226.7	3180.2	3136.0	3060.2	2979.6	2874.3	2752.5	2636.0
20°	3363.9	3356.1	3357.7	3322.3	3287.7	3236.6	3162.7	3045.6	2959.2	2818.5	2698.2
22.5°	3361.4	3359.9	3365.8	3353.7	3328.6	3289.4	3231.3	3132.4	3022.1	2880.1	2744.8
25°	3192.6	3186.3	3223.3	3233.5	3273.6	3280.6	3263.3	3209.1	3104.6	2958.4	2791.0
27.5°	2672.0	2668.5	2737.1	2822.9	2931.7	3016.2	3098.0	3137.4	3104.6	2999.9	2832.2
30°	2192.9	2266.7	2301.3	2425.5	2563.8	2728.9	2873.5	3011.0	3044.8	2999.3	2861.7
32.5°	1820.6	1885.1	1914.0	2020.6	2149.5	2342.8	2559.7	2754.5	2892.1	2926.9	2844.1
35°	1384.9	1385.7	1451.7	1498.8	1618.3	1817.2	2027.8	2288.7	2548.1	2744.6	2765.0
37.5°	1105.1	1109.0	1148.9	1195.9	1285.5	1390.7	1576.2	1793.1	2092.7	2394.4	2571.2
40°	954.2	961.2	991.1	1037.5	1101.9	1181.3	1325.9	1530.3	1780.2	2115.8	2390.1
42.5°	857.3	868.8	884.2	919.9	959.8	1034.2	1151.1	1309.0	1536.3	1853.6	2170.1
45°	738.8	745.1	756.9	773.4	809.5	861.4	940.0	1046.1	1234.8	1490.2	1806.9
47.5°	651.7	648.4	660.8	674.2	698.3	733.6	786.3	872.9	1007.5	1212.4	1481.1
50°	592.6	591.8	600.5	610.7	633.5	659.4	702.7	767.9	874.8	1044.6	1290.6
52.5°	537.3	540.3	546.4	559.1	575.6	596.6	635.4	682.4	774.2	920.7	1125.8
55°	463.7	466.1	474.7	481.8	493.6	514.8	539.2	578.5	641.4	743.5	912.5
57.5°	401.5	400.4	408.7	410.4	423.8	441.1	459.9	490.4	536.0	612.0	725.8
60°	360.0	357.6	364.7	370.2	377.3	391.4	407.1	437.0	473.2	529.0	626.4
62.5°	322.2	321.1	326.3	331.8	337.7	350.5	363.7	386.7	415.3	462.3	539.6
65°	267.2	269.6	271.9	274.3	277.4	285.3	297.9	313.6	333.3	366.3	422.1
67.5°	210.0	212.4	213.2	218.0	224.8	229.7	237.4	251.4	265.0	292.9	324.6
70°	169.8	169.0	169.8	172.1	180.8	189.4	199.6	209.9	218.5	238.1	264.9
72.5°	145.9	144.5	146.5	147.0	151.2	153.6	160.0	169.6	180.8	194.1	213.3
75°	113.2	113.2	113.2	113.2	116.3	117.9	120.3	122.6	126.5	132.8	147.0
77.5°	83.6	83.8	84.9	85.7	86.3	87.2	88.7	91.0	92.4	95.7	101.9
80°	66.0	66.8	66.0	66.8	66.8	68.4	69.2	71.5	72.3	76.2	78.6
82.5°	49.7	49.2	49.7	50.5	50.5	52.0	52.2	53.9	54.1	56.1	58.5
85°	26.7	25.2	26.7	25.9	27.5	25.9	26.7	28.3	28.3	29.1	32.2
87.5°	9.7	10.9	9.6	10.2	10.1	10.7	10.6	10.5	11.6	10.9	11.2
90°	17.1	16.9	16.6	16.4	16.1	15.7	15.2	14.7	14.2	13.7	12.0
92.5°	23.0	23.2	23.3	23.5	23.7	23.5	23.1	22.7	22.3	21.9	21.0
95°	44.5	44.5	44.5	44.5	44.5	44.2	43.7	43.2	42.7	42.2	41.2
97.5°	68.4	68.5	68.5	68.6	68.6	68.4	67.8	67.2	66.6	66.1	65.3
100°	86.7	86.4	86.2	85.9	85.7	85.4	85.0	84.6	84.2	83.8	83.2
102.5°	105.4	105.5	105.5	105.6	105.6	105.4	105.1	104.7	104.3	103.9	103.1
105°	135.8	135.5	135.2	135.0	134.7	134.6	134.6	134.6	134.6	134.6	133.5
107.5°	167.4	167.5	167.7	167.8	168.0	167.8	167.4	167.0	166.6	166.2	165.8
110°	188.8	189.1	189.3	189.6	189.8	189.7	189.2	188.7	188.2	187.7	187.4



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	211.6	211.7	211.7	211.8	211.8	211.5	210.9	210.3	209.7	209.1	209.1
115°	243.0	243.1	243.2	243.4	243.5	243.5	243.4	243.2	243.1	243.0	243.2
117.5°	274.8	275.2	275.5	275.9	276.2	276.4	276.4	276.5	276.5	276.5	276.9
120°	297.2	297.4	297.7	297.9	298.2	298.4	298.5	298.6	298.8	298.9	299.5
122.5°	318.6	319.0	319.3	319.7	320.0	320.4	320.7	321.0	321.4	321.7	322.0
125°	350.8	351.3	351.8	352.3	352.8	353.3	353.8	354.3	354.8	355.4	355.6
127.5°	382.8	383.4	384.0	384.6	385.2	385.8	386.5	387.2	388.0	388.7	388.9
130°	403.8	404.7	405.6	406.5	407.4	408.1	408.6	409.1	409.6	410.1	410.5
132.5°	425.7	426.4	427.1	427.8	428.5	429.1	429.7	430.3	430.9	431.6	431.8
135°	459.7	460.0	460.2	460.5	460.7	461.1	461.6	462.1	462.7	463.2	463.3
137.5°	489.7	490.2	490.7	491.2	491.7	492.2	492.7	493.2	493.8	494.3	494.0
140°	509.4	510.2	511.1	512.0	512.9	513.4	513.5	513.7	513.8	513.9	513.8
142.5°	529.4	530.1	530.8	531.5	532.2	532.6	532.7	532.8	533.0	533.1	532.9
145°	558.4	558.9	559.4	559.9	560.4	560.8	560.9	561.0	561.1	561.3	560.9
147.5°	584.2	585.0	585.7	586.5	587.2	587.6	587.6	587.6	587.6	587.6	587.3
150°	600.6	601.4	602.1	602.9	603.7	604.0	604.0	604.0	604.0	604.0	603.8
152.5°	616.6	617.3	617.9	618.6	619.2	619.5	619.3	619.1	618.8	618.6	618.5
155°	638.3	639.2	640.0	640.9	641.8	642.0	641.5	641.0	640.5	640.0	639.9
157.5°	658.0	658.7	659.4	660.1	660.8	660.9	660.4	659.9	659.3	658.8	658.7
160°	670.8	671.3	671.8	672.3	672.8	672.7	672.1	671.5	670.8	670.2	670.2
162.5°	680.4	681.2	682.0	682.8	683.6	683.7	683.1	682.4	681.8	681.2	681.1
165°	694.2	695.1	695.9	696.8	697.7	697.8	697.0	696.3	695.5	694.7	694.7
167.5°	705.9	706.7	707.5	708.3	709.1	709.1	708.3	707.5	706.7	705.9	705.8
170°	711.8	712.7	713.6	714.5	715.4	715.4	714.5	713.6	712.7	711.8	711.8
172.5°	716.4	717.3	718.2	719.1	720.0	720.0	719.2	718.4	717.7	716.9	716.9
175°	721.5	722.4	723.3	724.2	725.1	725.2	724.4	723.6	722.9	722.1	722.1
177.5°	724.3	725.0	725.7	726.4	727.1	727.2	726.6	726.0	725.3	724.7	724.7
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1895.8	1893.9	1885.1	1875.0	1861.8	1853.0	1846.1	1842.3	1831.0	1817.2	1807.7
5°	2012.9	1989.3	1964.1	1933.5	1905.2	1876.1	1858.0	1836.8	1810.9	1781.8	1761.4
7.5°	2138.3	2092.1	2042.3	1990.9	1940.1	1894.5	1854.3	1819.8	1778.5	1736.8	1707.6
10°	2234.5	2166.9	2097.0	2025.4	1960.2	1898.9	1851.7	1805.4	1755.9	1707.9	1671.8
12.5°	2321.9	2232.9	2152.3	2064.4	1981.0	1907.7	1839.8	1785.2	1725.7	1674.6	1633.4
15°	2432.6	2341.4	2243.9	2110.3	1999.5	1906.8	1824.2	1752.7	1680.4	1617.5	1577.4
17.5°	2536.0	2398.8	2267.8	2156.4	2012.4	1896.5	1795.8	1710.3	1630.9	1564.2	1514.9
20°	2578.8	2445.9	2303.7	2161.4	2019.9	1890.3	1773.1	1678.8	1596.3	1520.8	1475.3
22.5°	2604.5	2454.1	2304.3	2151.4	2001.1	1866.4	1750.5	1646.8	1557.3	1485.6	1429.4
25°	2634.6	2455.4	2290.3	2139.4	1986.1	1840.0	1702.4	1592.4	1495.7	1419.5	1359.7
27.5°	2654.4	2443.6	2248.5	2080.8	1925.3	1779.7	1653.7	1537.0	1439.0	1358.3	1294.2
30°	2658.1	2434.1	2216.4	2034.9	1876.9	1743.3	1609.7	1498.1	1394.3	1308.6	1248.9
32.5°	2663.2	2410.9	2173.0	1980.2	1818.4	1686.1	1565.0	1458.4	1352.2	1267.8	1206.8
35°	2642.4	2398.0	2107.2	1885.5	1723.6	1595.5	1486.3	1388.0	1283.5	1201.7	1139.7
37.5°	2553.1	2346.9	2039.0	1779.0	1609.7	1491.0	1402.0	1316.3	1220.5	1132.3	1073.8
40°	2463.2	2296.6	1986.1	1714.2	1537.4	1415.5	1335.4	1265.4	1172.7	1090.1	1027.3
42.5°	2329.3	2228.1	1935.8	1646.3	1455.6	1338.2	1270.6	1205.0	1123.6	1039.8	980.7
45°	2083.6	2097.0	1832.9	1538.1	1342.4	1224.5	1160.9	1115.3	1043.0	973.8	913.3
47.5°	1775.5	1900.5	1712.0	1422.9	1223.1	1112.5	1056.8	1017.0	968.3	900.4	845.2
50°	1574.3	1752.7	1615.2	1345.6	1148.3	1038.3	983.2	951.0	908.6	855.1	802.5
52.5°	1388.8	1580.4	1498.2	1259.4	1067.2	966.6	912.8	886.3	852.6	802.3	754.7
55°	1132.6	1326.7	1307.9	1129.4	945.5	855.1	814.3	784.4	761.6	723.9	686.2
57.5°	916.1	1100.2	1109.9	984.8	838.3	749.0	713.8	691.3	676.4	648.0	613.1
60°	779.7	948.7	981.7	887.4	761.6	683.0	648.4	630.3	618.6	595.8	569.0
62.5°	666.5	810.3	847.7	779.8	688.0	614.5	587.4	570.0	562.0	542.3	518.7
65°	510.1	629.6	665.7	628.0	580.0	521.1	499.1	484.2	477.1	466.1	448.8
67.5°	383.6	470.6	510.3	483.7	466.4	429.1	415.1	407.1	400.8	393.3	378.8
70°	308.1	372.5	413.4	406.3	392.2	372.5	362.3	356.8	350.5	344.3	331.7
72.5°	247.7	292.1	330.4	334.0	322.4	318.5	309.5	307.2	303.4	295.8	288.9
75°	164.3	194.9	221.6	231.9	236.6	240.5	236.6	235.8	235.0	228.7	224.8
77.5°	107.7	124.2	141.0	158.5	165.8	171.2	172.4	175.3	173.2	169.9	168.0
80°	82.5	86.5	98.2	113.2	125.0	129.7	132.8	134.4	133.6	132.8	129.7
82.5°	59.9	63.2	68.7	79.2	89.1	97.0	98.9	98.6	100.3	100.8	98.2
85°	32.2	33.0	34.6	36.2	41.7	50.3	52.7	54.2	55.8	55.8	51.1
87.5°	12.1	11.2	12.1	11.8	13.5	13.8	17.3	20.2	21.1	18.9	19.1
90°	10.4	8.7	7.1	5.6	4.4	3.1	1.8	0.6	1.8	3.1	4.4
92.5°	20.0	19.1	18.2	17.3	16.4	15.5	14.7	13.8	14.7	15.5	16.4
95°	40.2	39.2	38.2	37.2	36.3	35.4	34.5	33.7	34.5	35.4	36.3
97.5°	64.6	63.8	63.1	62.4	61.8	61.1	60.4	59.8	60.4	61.1	61.8
100°	82.6	81.9	81.3	80.6	79.9	79.1	78.3	77.6	78.3	79.1	79.9
102.5°	102.3	101.4	100.6	99.9	99.5	99.0	98.6	98.1	98.6	99.0	99.5
105°	132.3	131.2	130.0	129.4	129.1	128.8	128.6	128.3	128.6	128.8	129.1
107.5°	165.3	164.8	164.4	164.1	163.9	163.8	163.6	163.5	163.6	163.8	163.9
110°	187.2	186.9	186.6	186.4	186.1	185.9	185.6	185.4	185.6	185.9	186.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	209.0	209.0	208.9	208.8	208.6	208.5	208.3	208.2	208.3	208.5	208.6
115°	243.5	243.7	244.0	243.9	243.6	243.2	242.8	242.4	242.8	243.2	243.6
117.5°	277.2	277.5	277.8	277.9	277.6	277.4	277.1	276.9	277.1	277.4	277.6
120°	300.2	300.8	301.4	301.4	300.6	299.8	299.1	298.3	299.1	299.8	300.6
122.5°	322.4	322.7	323.0	322.9	322.3	321.8	321.2	320.7	321.2	321.8	322.3
125°	355.9	356.1	356.4	356.3	355.9	355.5	355.2	354.8	355.2	355.5	355.9
127.5°	389.2	389.5	389.8	389.5	388.7	387.9	387.1	386.3	387.1	387.9	388.7
130°	410.9	411.3	411.6	411.3	410.3	409.3	408.3	407.3	408.3	409.3	410.3
132.5°	432.1	432.4	432.7	432.3	431.3	430.3	429.3	428.2	429.3	430.3	431.3
135°	463.4	463.5	463.7	463.3	462.6	461.8	461.1	460.3	461.1	461.8	462.6
137.5°	493.6	493.3	493.0	492.5	491.9	491.2	490.6	490.0	490.6	491.2	491.9
140°	513.7	513.5	513.4	513.0	512.4	511.8	511.1	510.5	511.1	511.8	512.4
142.5°	532.6	532.4	532.2	531.7	531.1	530.5	529.8	529.2	529.8	530.5	531.1
145°	560.5	560.1	559.7	559.4	559.2	558.9	558.7	558.4	558.7	558.9	559.2
147.5°	586.9	586.6	586.2	585.8	585.3	584.9	584.4	584.0	584.4	584.9	585.3
150°	603.5	603.3	603.0	602.8	602.5	602.3	602.0	601.8	602.0	602.3	602.5
152.5°	618.3	618.2	618.0	617.8	617.4	617.1	616.7	616.4	616.7	617.1	617.4
155°	639.7	639.6	639.5	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
157.5°	658.6	658.5	658.4	658.4	658.6	658.7	658.9	659.0	658.9	658.7	658.6
160°	670.2	670.2	670.2	670.3	670.6	670.8	671.1	671.3	671.1	670.8	670.6
162.5°	681.0	680.9	680.8	680.9	681.2	681.6	681.9	682.3	681.9	681.6	681.2
165°	694.7	694.7	694.7	694.9	695.3	695.7	696.1	696.4	696.1	695.7	695.3
167.5°	705.7	705.6	705.5	705.7	706.2	706.7	707.2	707.7	707.2	706.7	706.2
170°	711.8	711.8	711.8	712.1	712.6	713.1	713.6	714.1	713.6	713.1	712.6
172.5°	716.9	716.9	716.9	717.1	717.6	718.1	718.6	719.1	718.6	718.1	717.6
175°	722.1	722.1	722.1	722.4	722.9	723.4	723.9	724.4	723.9	723.4	722.9
177.5°	724.7	724.7	724.7	724.9	725.3	725.8	726.2	726.6	726.2	725.8	725.3
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1804.6	1796.4	1790.8	1778.2	1770.0	1761.2	1752.4	1758.1	1757.4	1756.8	1756.8
5°	1744.1	1726.0	1709.5	1688.3	1674.9	1658.4	1645.8	1644.2	1647.4	1636.4	1630.1
7.5°	1684.0	1659.3	1635.9	1612.5	1587.7	1567.9	1555.4	1549.6	1541.6	1534.8	1527.8
10°	1641.9	1612.8	1590.0	1560.9	1534.2	1510.6	1495.7	1485.5	1480.0	1474.5	1464.3
12.5°	1598.5	1570.1	1541.0	1508.1	1482.7	1455.3	1444.1	1432.7	1422.1	1416.0	1402.0
15°	1535.0	1498.1	1467.4	1432.8	1404.5	1377.8	1362.1	1339.3	1336.1	1328.3	1314.1
17.5°	1471.3	1431.2	1389.0	1363.3	1331.4	1303.6	1279.7	1272.0	1249.5	1241.0	1228.8
20°	1421.0	1384.1	1351.9	1318.1	1271.7	1245.8	1226.9	1216.7	1198.6	1187.6	1179.7
22.5°	1377.6	1340.1	1302.8	1263.4	1225.2	1196.1	1182.3	1166.4	1156.5	1141.1	1132.6
25°	1315.7	1274.8	1230.0	1187.6	1160.1	1138.1	1116.1	1101.9	1087.8	1080.7	1065.0
27.5°	1243.7	1201.0	1159.1	1126.9	1093.1	1071.4	1051.5	1038.9	1021.9	1010.0	1001.3
30°	1204.1	1153.8	1117.6	1088.6	1045.3	1024.9	1010.0	994.3	981.7	969.1	960.5
32.5°	1158.2	1112.3	1078.0	1042.0	1008.9	986.5	967.2	953.4	942.7	930.7	922.1
35°	1086.2	1047.7	1012.3	976.2	951.8	929.0	906.2	894.4	884.2	873.2	865.4
37.5°	1021.1	985.1	951.5	917.2	887.0	868.5	850.1	841.1	827.3	819.9	811.9
40°	980.9	945.5	909.4	876.4	844.9	830.8	814.3	800.9	788.3	782.8	774.2
42.5°	936.9	901.5	871.0	835.5	809.7	790.5	775.3	760.7	751.2	743.2	738.3
45°	871.6	840.2	810.3	775.0	750.6	734.1	716.8	703.4	694.8	689.3	680.6
47.5°	808.3	776.9	746.5	715.7	692.1	673.3	656.0	646.7	635.2	628.5	622.6
50°	762.4	734.1	701.9	673.6	650.0	631.1	617.0	605.2	595.0	586.3	582.4
52.5°	720.3	690.1	662.3	635.8	611.0	589.6	576.7	564.3	556.6	546.7	542.2
55°	650.8	621.7	598.1	572.2	547.8	529.7	514.0	503.0	495.2	484.2	477.9
57.5°	585.5	559.5	531.3	508.8	483.7	468.4	455.4	440.5	430.9	422.2	416.1
60°	541.5	511.7	487.3	466.1	444.1	424.4	412.6	400.8	390.6	382.0	376.5
62.5°	495.6	469.5	446.4	423.3	403.2	386.1	372.4	362.5	353.5	348.0	342.5
65°	425.2	404.8	381.2	362.3	343.5	330.9	319.9	311.2	305.0	301.0	296.3
67.5°	360.4	340.6	320.0	301.5	288.9	279.3	272.1	264.7	261.6	256.5	253.4
70°	318.3	297.9	279.8	265.7	253.1	246.0	241.3	235.8	232.6	226.4	223.2
72.5°	272.4	257.6	244.6	233.0	222.9	216.5	210.5	203.7	198.7	191.8	188.6
75°	214.6	201.2	191.0	183.1	176.8	168.2	159.6	152.5	150.1	147.8	147.0
77.5°	158.9	150.4	143.0	136.4	128.6	122.3	120.4	118.8	118.4	117.1	117.1
80°	125.0	117.1	111.6	103.7	99.0	99.0	99.0	97.5	98.2	98.2	98.2
82.5°	92.9	85.7	82.7	79.9	78.9	79.5	79.5	79.9	79.4	80.6	80.0
85°	47.9	48.7	50.3	49.5	50.3	50.3	51.9	51.1	51.9	50.3	51.9
87.5°	18.7	20.9	21.9	22.8	23.8	23.5	24.2	24.3	25.0	25.2	25.2
90°	5.6	7.1	8.7	10.4	12.0	13.7	14.2	14.7	15.2	15.7	16.1
92.5°	17.3	18.2	19.1	20.0	21.0	21.9	22.3	22.7	23.1	23.5	23.7
95°	37.2	38.2	39.2	40.2	41.2	42.2	42.7	43.2	43.7	44.2	44.5
97.5°	62.4	63.1	63.8	64.6	65.3	66.1	66.6	67.2	67.8	68.4	68.6
100°	80.6	81.3	81.9	82.6	83.2	83.8	84.2	84.6	85.0	85.4	85.7
102.5°	99.9	100.6	101.4	102.3	103.1	103.9	104.3	104.7	105.1	105.4	105.6
105°	129.4	130.0	131.2	132.3	133.5	134.6	134.6	134.6	134.6	134.6	134.7
107.5°	164.1	164.4	164.8	165.3	165.8	166.2	166.6	167.0	167.4	167.8	168.0
110°	186.4	186.6	186.9	187.2	187.4	187.7	188.2	188.7	189.2	189.7	189.8



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	208.8	208.9	209.0	209.0	209.1	209.1	209.7	210.3	210.9	211.5	211.8
115°	243.9	244.0	243.7	243.5	243.2	243.0	243.1	243.2	243.4	243.5	243.5
117.5°	277.9	277.8	277.5	277.2	276.9	276.5	276.5	276.5	276.4	276.4	276.2
120°	301.4	301.4	300.8	300.2	299.5	298.9	298.8	298.6	298.5	298.4	298.2
122.5°	322.9	323.0	322.7	322.4	322.0	321.7	321.4	321.0	320.7	320.4	320.0
125°	356.3	356.4	356.1	355.9	355.6	355.4	354.8	354.3	353.8	353.3	352.8
127.5°	389.5	389.8	389.5	389.2	388.9	388.7	388.0	387.2	386.5	385.8	385.2
130°	411.3	411.6	411.3	410.9	410.5	410.1	409.6	409.1	408.6	408.1	407.4
132.5°	432.3	432.7	432.4	432.1	431.8	431.6	430.9	430.3	429.7	429.1	428.5
135°	463.3	463.7	463.5	463.4	463.3	463.2	462.7	462.1	461.6	461.1	460.7
137.5°	492.5	493.0	493.3	493.6	494.0	494.3	493.8	493.2	492.7	492.2	491.7
140°	513.0	513.4	513.5	513.7	513.8	513.9	513.8	513.7	513.5	513.4	512.9
142.5°	531.7	532.2	532.4	532.6	532.9	533.1	533.0	532.8	532.7	532.6	532.2
145°	559.4	559.7	560.1	560.5	560.9	561.3	561.1	561.0	560.9	560.8	560.4
147.5°	585.8	586.2	586.6	586.9	587.3	587.6	587.6	587.6	587.6	587.6	587.2
150°	602.8	603.0	603.3	603.5	603.8	604.0	604.0	604.0	604.0	604.0	603.7
152.5°	617.8	618.0	618.2	618.3	618.5	618.6	618.8	619.1	619.3	619.5	619.2
155°	639.4	639.5	639.6	639.7	639.9	640.0	640.5	641.0	641.5	642.0	641.8
157.5°	658.4	658.4	658.5	658.6	658.7	658.8	659.3	659.9	660.4	660.9	660.8
160°	670.3	670.2	670.2	670.2	670.2	670.2	670.8	671.5	672.1	672.7	672.8
162.5°	680.9	680.8	680.9	681.0	681.1	681.2	681.8	682.4	683.1	683.7	683.6
165°	694.9	694.7	694.7	694.7	694.7	694.7	695.5	696.3	697.0	697.8	697.7
167.5°	705.7	705.5	705.6	705.7	705.8	705.9	706.7	707.5	708.3	709.1	709.1
170°	712.1	711.8	711.8	711.8	711.8	711.8	712.7	713.6	714.5	715.4	715.4
172.5°	717.1	716.9	716.9	716.9	716.9	716.9	717.7	718.4	719.2	720.0	720.0
175°	722.4	722.1	722.1	722.1	722.1	722.1	722.9	723.6	724.4	725.2	725.1
177.5°	724.9	724.7	724.7	724.7	724.7	724.7	725.3	726.0	726.6	727.2	727.1
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1749.3	1748.6	1749.3	1746.7	1749.3	1748.6	1749.3	1756.8	1756.8	1757.4	1758.1
5°	1627.7	1627.0	1624.6	1617.5	1624.6	1627.0	1627.7	1630.1	1636.4	1647.4	1644.2
7.5°	1521.6	1520.5	1513.6	1513.8	1513.6	1520.5	1521.6	1527.8	1534.8	1541.6	1549.6
10°	1458.8	1459.5	1450.1	1444.6	1450.1	1459.5	1458.8	1464.3	1474.5	1480.0	1485.5
12.5°	1397.8	1394.2	1386.6	1380.5	1386.6	1394.2	1397.8	1402.0	1416.0	1422.1	1432.7
15°	1317.3	1309.4	1290.6	1292.1	1290.6	1309.4	1317.3	1314.1	1328.3	1336.1	1339.3
17.5°	1222.5	1216.7	1216.4	1205.4	1216.4	1216.7	1222.5	1228.8	1241.0	1249.5	1272.0
20°	1167.2	1163.2	1164.8	1153.8	1164.8	1163.2	1167.2	1179.7	1187.6	1198.6	1216.7
22.5°	1123.8	1119.8	1113.2	1109.8	1113.2	1119.8	1123.8	1132.6	1141.1	1156.5	1166.4
25°	1060.3	1054.0	1047.7	1051.6	1047.7	1054.0	1060.3	1065.0	1080.7	1087.8	1101.9
27.5°	996.8	992.1	985.8	985.0	985.8	992.1	996.8	1001.3	1010.0	1021.9	1038.9
30°	956.5	951.8	948.7	944.7	948.7	951.8	956.5	960.5	969.1	981.7	994.3
32.5°	915.7	914.7	909.1	908.3	909.1	914.7	915.7	922.1	930.7	942.7	953.4
35°	862.2	857.5	855.9	856.7	855.9	857.5	862.2	865.4	873.2	884.2	894.4
37.5°	811.4	805.1	802.3	799.5	802.3	805.1	811.4	811.9	819.9	827.3	841.1
40°	775.0	768.7	767.1	765.5	767.1	768.7	775.0	774.2	782.8	788.3	800.9
42.5°	734.1	731.6	730.6	727.8	730.6	731.6	734.1	738.3	743.2	751.2	760.7
45°	678.3	677.5	672.8	674.4	672.8	677.5	678.3	680.6	689.3	694.8	703.4
47.5°	619.5	616.0	612.7	614.9	612.7	616.0	619.5	622.6	628.5	635.2	646.7
50°	579.3	577.7	570.6	572.2	570.6	577.7	579.3	582.4	586.3	595.0	605.2
52.5°	539.0	533.0	530.4	529.4	530.4	533.0	539.0	542.2	546.7	556.6	564.3
55°	472.4	465.3	462.1	460.6	462.1	465.3	472.4	477.9	484.2	495.2	503.0
57.5°	407.0	405.1	402.6	404.3	402.6	405.1	407.0	416.1	422.2	430.9	440.5
60°	368.6	368.6	368.6	367.8	368.6	368.6	368.6	376.5	382.0	390.6	400.8
62.5°	339.1	337.2	336.6	337.7	336.6	337.2	339.1	342.5	348.0	353.5	362.5
65°	294.0	293.2	290.0	289.2	290.0	293.2	294.0	296.3	301.0	305.0	311.2
67.5°	251.4	248.5	247.6	246.5	247.6	248.5	251.4	253.4	256.5	261.6	264.7
70°	219.3	217.7	213.0	213.8	213.0	217.7	219.3	223.2	226.4	232.6	235.8
72.5°	184.7	183.1	182.2	181.1	182.2	183.1	184.7	188.6	191.8	198.7	203.7
75°	146.2	145.4	144.6	147.8	144.6	145.4	146.2	147.0	147.8	150.1	152.5
77.5°	117.1	117.1	117.6	116.3	117.6	117.1	117.1	117.1	117.1	118.4	118.8
80°	98.2	98.2	97.5	97.5	97.5	98.2	98.2	98.2	98.2	98.2	97.5
82.5°	78.8	79.4	79.9	78.6	79.9	79.4	78.8	80.0	80.6	79.4	79.9
85°	51.9	51.1	52.7	51.9	52.7	51.1	51.9	51.9	50.3	51.9	51.1
87.5°	26.5	25.3	25.4	26.1	25.4	25.3	26.5	25.2	25.2	25.0	24.3
90°	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	15.7	15.2	14.7
92.5°	23.5	23.3	23.2	23.0	23.2	23.3	23.5	23.7	23.5	23.1	22.7
95°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.2	43.7	43.2
97.5°	68.6	68.5	68.5	68.4	68.5	68.5	68.6	68.6	68.4	67.8	67.2
100°	85.9	86.2	86.4	86.7	86.4	86.2	85.9	85.7	85.4	85.0	84.6
102.5°	105.6	105.5	105.5	105.4	105.5	105.5	105.6	105.6	105.4	105.1	104.7
105°	135.0	135.2	135.5	135.8	135.5	135.2	135.0	134.7	134.6	134.6	134.6
107.5°	167.8	167.7	167.5	167.4	167.5	167.7	167.8	168.0	167.8	167.4	167.0
110°	189.6	189.3	189.1	188.8	189.1	189.3	189.6	189.8	189.7	189.2	188.7



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	211.8	211.7	211.7	211.6	211.7	211.7	211.8	211.8	211.5	210.9	210.3
115°	243.4	243.2	243.1	243.0	243.1	243.2	243.4	243.5	243.5	243.4	243.2
117.5°	275.9	275.5	275.2	274.8	275.2	275.5	275.9	276.2	276.4	276.4	276.5
120°	297.9	297.7	297.4	297.2	297.4	297.7	297.9	298.2	298.4	298.5	298.6
122.5°	319.7	319.3	319.0	318.6	319.0	319.3	319.7	320.0	320.4	320.7	321.0
125°	352.3	351.8	351.3	350.8	351.3	351.8	352.3	352.8	353.3	353.8	354.3
127.5°	384.6	384.0	383.4	382.8	383.4	384.0	384.6	385.2	385.8	386.5	387.2
130°	406.5	405.6	404.7	403.8	404.7	405.6	406.5	407.4	408.1	408.6	409.1
132.5°	427.8	427.1	426.4	425.7	426.4	427.1	427.8	428.5	429.1	429.7	430.3
135°	460.5	460.2	460.0	459.7	460.0	460.2	460.5	460.7	461.1	461.6	462.1
137.5°	491.2	490.7	490.2	489.7	490.2	490.7	491.2	491.7	492.2	492.7	493.2
140°	512.0	511.1	510.2	509.4	510.2	511.1	512.0	512.9	513.4	513.5	513.7
142.5°	531.5	530.8	530.1	529.4	530.1	530.8	531.5	532.2	532.6	532.7	532.8
145°	559.9	559.4	558.9	558.4	558.9	559.4	559.9	560.4	560.8	560.9	561.0
147.5°	586.5	585.7	585.0	584.2	585.0	585.7	586.5	587.2	587.6	587.6	587.6
150°	602.9	602.1	601.4	600.6	601.4	602.1	602.9	603.7	604.0	604.0	604.0
152.5°	618.6	617.9	617.3	616.6	617.3	617.9	618.6	619.2	619.5	619.3	619.1
155°	640.9	640.0	639.2	638.3	639.2	640.0	640.9	641.8	642.0	641.5	641.0
157.5°	660.1	659.4	658.7	658.0	658.7	659.4	660.1	660.8	660.9	660.4	659.9
160°	672.3	671.8	671.3	670.8	671.3	671.8	672.3	672.8	672.7	672.1	671.5
162.5°	682.8	682.0	681.2	680.4	681.2	682.0	682.8	683.6	683.7	683.1	682.4
165°	696.8	695.9	695.1	694.2	695.1	695.9	696.8	697.7	697.8	697.0	696.3
167.5°	708.3	707.5	706.7	705.9	706.7	707.5	708.3	709.1	709.1	708.3	707.5
170°	714.5	713.6	712.7	711.8	712.7	713.6	714.5	715.4	715.4	714.5	713.6
172.5°	719.1	718.2	717.3	716.4	717.3	718.2	719.1	720.0	720.0	719.2	718.4
175°	724.2	723.3	722.4	721.5	722.4	723.3	724.2	725.1	725.2	724.4	723.6
177.5°	726.4	725.7	725.0	724.3	725.0	725.7	726.4	727.1	727.2	726.6	726.0
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1752.4	1761.2	1770.0	1778.2	1790.8	1796.4	1804.6	1807.7	1817.2	1831.0	1842.3
5°	1645.8	1658.4	1674.9	1688.3	1709.5	1726.0	1744.1	1761.4	1781.8	1810.9	1836.8
7.5°	1555.4	1567.9	1587.7	1612.5	1635.9	1659.3	1684.0	1707.6	1736.8	1778.5	1819.8
10°	1495.7	1510.6	1534.2	1560.9	1590.0	1612.8	1641.9	1671.8	1707.9	1755.9	1805.4
12.5°	1444.1	1455.3	1482.7	1508.1	1541.0	1570.1	1598.5	1633.4	1674.6	1725.7	1785.2
15°	1362.1	1377.8	1404.5	1432.8	1467.4	1498.1	1535.0	1577.4	1617.5	1680.4	1752.7
17.5°	1279.7	1303.6	1331.4	1363.3	1389.0	1431.2	1471.3	1514.9	1564.2	1630.9	1710.3
20°	1226.9	1245.8	1271.7	1318.1	1351.9	1384.1	1421.0	1475.3	1520.8	1596.3	1678.8
22.5°	1182.3	1196.1	1225.2	1263.4	1302.8	1340.1	1377.6	1429.4	1485.6	1557.3	1646.8
25°	1116.1	1138.1	1160.1	1187.6	1230.0	1274.8	1315.7	1359.7	1419.5	1495.7	1592.4
27.5°	1051.5	1071.4	1093.1	1126.9	1159.1	1201.0	1243.7	1294.2	1358.3	1439.0	1537.0
30°	1010.0	1024.9	1045.3	1088.6	1117.6	1153.8	1204.1	1248.9	1308.6	1394.3	1498.1
32.5°	967.2	986.5	1008.9	1042.0	1078.0	1112.3	1158.2	1206.8	1267.8	1352.2	1458.4
35°	906.2	929.0	951.8	976.2	1012.3	1047.7	1086.2	1139.7	1201.7	1283.5	1388.0
37.5°	850.1	868.5	887.0	917.2	951.5	985.1	1021.1	1073.8	1132.3	1220.5	1316.3
40°	814.3	830.8	844.9	876.4	909.4	945.5	980.9	1027.3	1090.1	1172.7	1265.4
42.5°	775.3	790.5	809.7	835.5	871.0	901.5	936.9	980.7	1039.8	1123.6	1205.0
45°	716.8	734.1	750.6	775.0	810.3	840.2	871.6	913.3	973.8	1043.0	1115.3
47.5°	656.0	673.3	692.1	715.7	746.5	776.9	808.3	845.2	900.4	968.3	1017.0
50°	617.0	631.1	650.0	673.6	701.9	734.1	762.4	802.5	855.1	908.6	951.0
52.5°	576.7	589.6	611.0	635.8	662.3	690.1	720.3	754.7	802.3	852.6	886.3
55°	514.0	529.7	547.8	572.2	598.1	621.7	650.8	686.2	723.9	761.6	784.4
57.5°	455.4	468.4	483.7	508.8	531.3	559.5	585.5	613.1	648.0	676.4	691.3
60°	412.6	424.4	444.1	466.1	487.3	511.7	541.5	569.0	595.8	618.6	630.3
62.5°	372.4	386.1	403.2	423.3	446.4	469.5	495.6	518.7	542.3	562.0	570.0
65°	319.9	330.9	343.5	362.3	381.2	404.8	425.2	448.8	466.1	477.1	484.2
67.5°	272.1	279.3	288.9	301.5	320.0	340.6	360.4	378.8	393.3	400.8	407.1
70°	241.3	246.0	253.1	265.7	279.8	297.9	318.3	331.7	344.3	350.5	356.8
72.5°	210.5	216.5	222.9	233.0	244.6	257.6	272.4	288.9	295.8	303.4	307.2
75°	159.6	168.2	176.8	183.1	191.0	201.2	214.6	224.8	228.7	235.0	235.8
77.5°	120.4	122.3	128.6	136.4	143.0	150.4	158.9	168.0	169.9	173.2	175.3
80°	99.0	99.0	99.0	103.7	111.6	117.1	125.0	129.7	132.8	133.6	134.4
82.5°	79.5	79.5	78.9	79.9	82.7	85.7	92.9	98.2	100.8	100.3	98.6
85°	51.9	50.3	50.3	49.5	50.3	48.7	47.9	51.1	55.8	55.8	54.2
87.5°	24.2	23.5	23.8	22.8	21.9	20.9	18.7	19.1	18.9	21.1	20.2
90°	14.2	13.7	12.0	10.4	8.7	7.1	5.6	4.4	3.1	1.8	0.6
92.5°	22.3	21.9	21.0	20.0	19.1	18.2	17.3	16.4	15.5	14.7	13.8
95°	42.7	42.2	41.2	40.2	39.2	38.2	37.2	36.3	35.4	34.5	33.7
97.5°	66.6	66.1	65.3	64.6	63.8	63.1	62.4	61.8	61.1	60.4	59.8
100°	84.2	83.8	83.2	82.6	81.9	81.3	80.6	79.9	79.1	78.3	77.6
102.5°	104.3	103.9	103.1	102.3	101.4	100.6	99.9	99.5	99.0	98.6	98.1
105°	134.6	134.6	133.5	132.3	131.2	130.0	129.4	129.1	128.8	128.6	128.3
107.5°	166.6	166.2	165.8	165.3	164.8	164.4	164.1	163.9	163.8	163.6	163.5
110°	188.2	187.7	187.4	187.2	186.9	186.6	186.4	186.1	185.9	185.6	185.4



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	209.7	209.1	209.1	209.0	209.0	208.9	208.8	208.6	208.5	208.3	208.2
115°	243.1	243.0	243.2	243.5	243.7	244.0	243.9	243.6	243.2	242.8	242.4
117.5°	276.5	276.5	276.9	277.2	277.5	277.8	277.9	277.6	277.4	277.1	276.9
120°	298.8	298.9	299.5	300.2	300.8	301.4	301.4	300.6	299.8	299.1	298.3
122.5°	321.4	321.7	322.0	322.4	322.7	323.0	322.9	322.3	321.8	321.2	320.7
125°	354.8	355.4	355.6	355.9	356.1	356.4	356.3	355.9	355.5	355.2	354.8
127.5°	388.0	388.7	388.9	389.2	389.5	389.8	389.5	388.7	387.9	387.1	386.3
130°	409.6	410.1	410.5	410.9	411.3	411.6	411.3	410.3	409.3	408.3	407.3
132.5°	430.9	431.6	431.8	432.1	432.4	432.7	432.3	431.3	430.3	429.3	428.2
135°	462.7	463.2	463.3	463.4	463.5	463.7	463.3	462.6	461.8	461.1	460.3
137.5°	493.8	494.3	494.0	493.6	493.3	493.0	492.5	491.9	491.2	490.6	490.0
140°	513.8	513.9	513.8	513.7	513.5	513.4	513.0	512.4	511.8	511.1	510.5
142.5°	533.0	533.1	532.9	532.6	532.4	532.2	531.7	531.1	530.5	529.8	529.2
145°	561.1	561.3	560.9	560.5	560.1	559.7	559.4	559.2	558.9	558.7	558.4
147.5°	587.6	587.6	587.3	586.9	586.6	586.2	585.8	585.3	584.9	584.4	584.0
150°	604.0	604.0	603.8	603.5	603.3	603.0	602.8	602.5	602.3	602.0	601.8
152.5°	618.8	618.6	618.5	618.3	618.2	618.0	617.8	617.4	617.1	616.7	616.4
155°	640.5	640.0	639.9	639.7	639.6	639.5	639.4	639.4	639.4	639.4	639.4
157.5°	659.3	658.8	658.7	658.6	658.5	658.4	658.4	658.6	658.7	658.9	659.0
160°	670.8	670.2	670.2	670.2	670.2	670.2	670.3	670.6	670.8	671.1	671.3
162.5°	681.8	681.2	681.1	681.0	680.9	680.8	680.9	681.2	681.6	681.9	682.3
165°	695.5	694.7	694.7	694.7	694.7	694.7	694.9	695.3	695.7	696.1	696.4
167.5°	706.7	705.9	705.8	705.7	705.6	705.5	705.7	706.2	706.7	707.2	707.7
170°	712.7	711.8	711.8	711.8	711.8	711.8	712.1	712.6	713.1	713.6	714.1
172.5°	717.7	716.9	716.9	716.9	716.9	716.9	717.1	717.6	718.1	718.6	719.1
175°	722.9	722.1	722.1	722.1	722.1	722.1	722.4	722.9	723.4	723.9	724.4
177.5°	725.3	724.7	724.7	724.7	724.7	724.7	724.9	725.3	725.8	726.2	726.6
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1846.1	1853.0	1861.8	1875.0	1885.1	1893.9	1895.8	1898.3	1904.6	1915.2	1923.4
5°	1858.0	1876.1	1905.2	1933.5	1964.1	1989.3	2012.9	2029.4	2045.1	2078.1	2104.8
7.5°	1854.3	1894.5	1940.1	1990.9	2042.3	2092.1	2138.3	2179.6	2220.8	2268.9	2323.8
10°	1851.7	1898.9	1960.2	2025.4	2097.0	2166.9	2234.5	2287.2	2348.5	2403.5	2473.4
12.5°	1839.8	1907.7	1981.0	2064.4	2152.3	2232.9	2321.9	2394.7	2464.8	2544.3	2625.6
15°	1824.2	1906.8	1999.5	2110.3	2243.9	2341.4	2432.6	2559.1	2645.6	2732.0	2848.4
17.5°	1795.8	1896.5	2012.4	2156.4	2267.8	2398.8	2536.0	2636.0	2752.5	2874.3	2979.6
20°	1773.1	1890.3	2019.9	2161.4	2303.7	2445.9	2578.8	2698.2	2818.5	2959.2	3045.6
22.5°	1750.5	1866.4	2001.1	2151.4	2304.3	2454.1	2604.5	2744.8	2880.1	3022.1	3132.4
25°	1702.4	1840.0	1986.1	2139.4	2290.3	2455.4	2634.6	2791.0	2958.4	3104.6	3209.1
27.5°	1653.7	1779.7	1925.3	2080.8	2248.5	2443.6	2654.4	2832.2	2999.9	3104.6	3137.4
30°	1609.7	1743.3	1876.9	2034.9	2216.4	2434.1	2658.1	2861.7	2999.3	3044.8	3011.0
32.5°	1565.0	1686.1	1818.4	1980.2	2173.0	2410.9	2663.2	2844.1	2926.9	2892.1	2754.5
35°	1486.3	1595.5	1723.6	1885.5	2107.2	2398.0	2642.4	2765.0	2744.6	2548.1	2288.7
37.5°	1402.0	1491.0	1609.7	1779.0	2039.0	2346.9	2553.1	2571.2	2394.4	2092.7	1793.1
40°	1335.4	1415.5	1537.4	1714.2	1986.1	2296.6	2463.2	2390.1	2115.8	1780.2	1530.3
42.5°	1270.6	1338.2	1455.6	1646.3	1935.8	2228.1	2329.3	2170.1	1853.6	1536.3	1309.0
45°	1160.9	1224.5	1342.4	1538.1	1832.9	2097.0	2083.6	1806.9	1490.2	1234.8	1046.1
47.5°	1056.8	1112.5	1223.1	1422.9	1712.0	1900.5	1775.5	1481.1	1212.4	1007.5	872.9
50°	983.2	1038.3	1148.3	1345.6	1615.2	1752.7	1574.3	1290.6	1044.6	874.8	767.9
52.5°	912.8	966.6	1067.2	1259.4	1498.2	1580.4	1388.8	1125.8	920.7	774.2	682.4
55°	814.3	855.1	945.5	1129.4	1307.9	1326.7	1132.6	912.5	743.5	641.4	578.5
57.5°	713.8	749.0	838.3	984.8	1109.9	1100.2	916.1	725.8	612.0	536.0	490.4
60°	648.4	683.0	761.6	887.4	981.7	948.7	779.7	626.4	529.0	473.2	437.0
62.5°	587.4	614.5	688.0	779.8	847.7	810.3	666.5	539.6	462.3	415.3	386.7
65°	499.1	521.1	580.0	628.0	665.7	629.6	510.1	422.1	366.3	333.3	313.6
67.5°	415.1	429.1	466.4	483.7	510.3	470.6	383.6	324.6	292.9	265.0	251.4
70°	362.3	372.5	392.2	406.3	413.4	372.5	308.1	264.9	238.1	218.5	209.9
72.5°	309.5	318.5	322.4	334.0	330.4	292.1	247.7	213.3	194.1	180.8	169.6
75°	236.6	240.5	236.6	231.9	221.6	194.9	164.3	147.0	132.8	126.5	122.6
77.5°	172.4	171.2	165.8	158.5	141.0	124.2	107.7	101.9	95.7	92.4	91.0
80°	132.8	129.7	125.0	113.2	98.2	86.5	82.5	78.6	76.2	72.3	71.5
82.5°	98.9	97.0	89.1	79.2	68.7	63.2	59.9	58.5	56.1	54.1	53.9
85°	52.7	50.3	41.7	36.2	34.6	33.0	32.2	32.2	29.1	28.3	28.3
87.5°	17.3	13.8	13.5	11.8	12.1	11.2	12.1	11.2	10.9	11.6	10.5
90°	1.8	3.1	4.4	5.6	7.1	8.7	10.4	12.0	13.7	14.2	14.7
92.5°	14.7	15.5	16.4	17.3	18.2	19.1	20.0	21.0	21.9	22.3	22.7
95°	34.5	35.4	36.3	37.2	38.2	39.2	40.2	41.2	42.2	42.7	43.2
97.5°	60.4	61.1	61.8	62.4	63.1	63.8	64.6	65.3	66.1	66.6	67.2
100°	78.3	79.1	79.9	80.6	81.3	81.9	82.6	83.2	83.8	84.2	84.6
102.5°	98.6	99.0	99.5	99.9	100.6	101.4	102.3	103.1	103.9	104.3	104.7
105°	128.6	128.8	129.1	129.4	130.0	131.2	132.3	133.5	134.6	134.6	134.6
107.5°	163.6	163.8	163.9	164.1	164.4	164.8	165.3	165.8	166.2	166.6	167.0
110°	185.6	185.9	186.1	186.4	186.6	186.9	187.2	187.4	187.7	188.2	188.7



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	208.3	208.5	208.6	208.8	208.9	209.0	209.0	209.1	209.1	209.7	210.3
115°	242.8	243.2	243.6	243.9	244.0	243.7	243.5	243.2	243.0	243.1	243.2
117.5°	277.1	277.4	277.6	277.9	277.8	277.5	277.2	276.9	276.5	276.5	276.5
120°	299.1	299.8	300.6	301.4	301.4	300.8	300.2	299.5	298.9	298.8	298.6
122.5°	321.2	321.8	322.3	322.9	323.0	322.7	322.4	322.0	321.7	321.4	321.0
125°	355.2	355.5	355.9	356.3	356.4	356.1	355.9	355.6	355.4	354.8	354.3
127.5°	387.1	387.9	388.7	389.5	389.8	389.5	389.2	388.9	388.7	388.0	387.2
130°	408.3	409.3	410.3	411.3	411.6	411.3	410.9	410.5	410.1	409.6	409.1
132.5°	429.3	430.3	431.3	432.3	432.7	432.4	432.1	431.8	431.6	430.9	430.3
135°	461.1	461.8	462.6	463.3	463.7	463.5	463.4	463.3	463.2	462.7	462.1
137.5°	490.6	491.2	491.9	492.5	493.0	493.3	493.6	494.0	494.3	493.8	493.2
140°	511.1	511.8	512.4	513.0	513.4	513.5	513.7	513.8	513.9	513.8	513.7
142.5°	529.8	530.5	531.1	531.7	532.2	532.4	532.6	532.9	533.1	533.0	532.8
145°	558.7	558.9	559.2	559.4	559.7	560.1	560.5	560.9	561.3	561.1	561.0
147.5°	584.4	584.9	585.3	585.8	586.2	586.6	586.9	587.3	587.6	587.6	587.6
150°	602.0	602.3	602.5	602.8	603.0	603.3	603.5	603.8	604.0	604.0	604.0
152.5°	616.7	617.1	617.4	617.8	618.0	618.2	618.3	618.5	618.6	618.8	619.1
155°	639.4	639.4	639.4	639.4	639.5	639.6	639.7	639.9	640.0	640.5	641.0
157.5°	658.9	658.7	658.6	658.4	658.4	658.5	658.6	658.7	658.8	659.3	659.9
160°	671.1	670.8	670.6	670.3	670.2	670.2	670.2	670.2	670.2	670.8	671.5
162.5°	681.9	681.6	681.2	680.9	680.8	680.9	681.0	681.1	681.2	681.8	682.4
165°	696.1	695.7	695.3	694.9	694.7	694.7	694.7	694.7	694.7	695.5	696.3
167.5°	707.2	706.7	706.2	705.7	705.5	705.6	705.7	705.8	705.9	706.7	707.5
170°	713.6	713.1	712.6	712.1	711.8	711.8	711.8	711.8	711.8	712.7	713.6
172.5°	718.6	718.1	717.6	717.1	716.9	716.9	716.9	716.9	716.9	717.7	718.4
175°	723.9	723.4	722.9	722.4	722.1	722.1	722.1	722.1	722.1	722.9	723.6
177.5°	726.2	725.8	725.3	724.9	724.7	724.7	724.7	724.7	724.7	725.3	726.0
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1936.6	1936.6	1939.1	1948.6	1949.8	1958.0	1955.5
5°	2128.4	2143.3	2148.8	2172.4	2186.6	2192.9	2180.3
7.5°	2362.9	2405.1	2425.0	2449.7	2471.6	2478.2	2461.0
10°	2534.0	2578.0	2614.9	2637.7	2658.9	2673.1	2691.2
12.5°	2699.3	2753.4	2788.5	2820.7	2842.5	2860.5	2863.4
15°	2879.0	2960.7	3022.8	3068.4	3091.2	3103.0	3098.3
17.5°	3060.2	3136.0	3180.2	3226.7	3258.3	3259.9	3260.8
20°	3162.7	3236.6	3287.7	3322.3	3357.7	3356.1	3363.9
22.5°	3231.3	3289.4	3328.6	3353.7	3365.8	3359.9	3361.4
25°	3263.3	3280.6	3273.6	3233.5	3223.3	3186.3	3192.6
27.5°	3098.0	3016.2	2931.7	2822.9	2737.1	2668.5	2672.0
30°	2873.5	2728.9	2563.8	2425.5	2301.3	2266.7	2192.9
32.5°	2559.7	2342.8	2149.5	2020.6	1914.0	1885.1	1820.6
35°	2027.8	1817.2	1618.3	1498.8	1451.7	1385.7	1384.9
37.5°	1576.2	1390.7	1285.5	1195.9	1148.9	1109.0	1105.1
40°	1325.9	1181.3	1101.9	1037.5	991.1	961.2	954.2
42.5°	1151.1	1034.2	959.8	919.9	884.2	868.8	857.3
45°	940.0	861.4	809.5	773.4	756.9	745.1	738.8
47.5°	786.3	733.6	698.3	674.2	660.8	648.4	651.7
50°	702.7	659.4	633.5	610.7	600.5	591.8	592.6
52.5°	635.4	596.6	575.6	559.1	546.4	540.3	537.3
55°	539.2	514.8	493.6	481.8	474.7	466.1	463.7
57.5°	459.9	441.1	423.8	410.4	408.7	400.4	401.5
60°	407.1	391.4	377.3	370.2	364.7	357.6	360.0
62.5°	363.7	350.5	337.7	331.8	326.3	321.1	322.2
65°	297.9	285.3	277.4	274.3	271.9	269.6	267.2
67.5°	237.4	229.7	224.8	218.0	213.2	212.4	210.0
70°	199.6	189.4	180.8	172.1	169.8	169.0	169.8
72.5°	160.0	153.6	151.2	147.0	146.5	144.5	145.9
75°	120.3	117.9	116.3	113.2	113.2	113.2	113.2
77.5°	88.7	87.2	86.3	85.7	84.9	83.8	83.6
80°	69.2	68.4	66.8	66.8	66.0	66.8	66.0
82.5°	52.2	52.0	50.5	50.5	49.7	49.2	49.7
85°	26.7	25.9	27.5	25.9	26.7	25.2	26.7
87.5°	10.6	10.7	10.1	10.2	9.6	10.9	9.7
90°	15.2	15.7	16.1	16.4	16.6	16.9	17.1
92.5°	23.1	23.5	23.7	23.5	23.3	23.2	23.0
95°	43.7	44.2	44.5	44.5	44.5	44.5	44.5
97.5°	67.8	68.4	68.6	68.6	68.5	68.5	68.4
100°	85.0	85.4	85.7	85.9	86.2	86.4	86.7
102.5°	105.1	105.4	105.6	105.6	105.5	105.5	105.4
105°	134.6	134.6	134.7	135.0	135.2	135.5	135.8
107.5°	167.4	167.8	168.0	167.8	167.7	167.5	167.4
110°	189.2	189.7	189.8	189.6	189.3	189.1	188.8



TEST NUMBER: P332367

CATALOG NUMBER: S123RDIP-S1165D585U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	210.9	211.5	211.8	211.8	211.7	211.7	211.6
115°	243.4	243.5	243.5	243.4	243.2	243.1	243.0
117.5°	276.4	276.4	276.2	275.9	275.5	275.2	274.8
120°	298.5	298.4	298.2	297.9	297.7	297.4	297.2
122.5°	320.7	320.4	320.0	319.7	319.3	319.0	318.6
125°	353.8	353.3	352.8	352.3	351.8	351.3	350.8
127.5°	386.5	385.8	385.2	384.6	384.0	383.4	382.8
130°	408.6	408.1	407.4	406.5	405.6	404.7	403.8
132.5°	429.7	429.1	428.5	427.8	427.1	426.4	425.7
135°	461.6	461.1	460.7	460.5	460.2	460.0	459.7
137.5°	492.7	492.2	491.7	491.2	490.7	490.2	489.7
140°	513.5	513.4	512.9	512.0	511.1	510.2	509.4
142.5°	532.7	532.6	532.2	531.5	530.8	530.1	529.4
145°	560.9	560.8	560.4	559.9	559.4	558.9	558.4
147.5°	587.6	587.6	587.2	586.5	585.7	585.0	584.2
150°	604.0	604.0	603.7	602.9	602.1	601.4	600.6
152.5°	619.3	619.5	619.2	618.6	617.9	617.3	616.6
155°	641.5	642.0	641.8	640.9	640.0	639.2	638.3
157.5°	660.4	660.9	660.8	660.1	659.4	658.7	658.0
160°	672.1	672.7	672.8	672.3	671.8	671.3	670.8
162.5°	683.1	683.7	683.6	682.8	682.0	681.2	680.4
165°	697.0	697.8	697.7	696.8	695.9	695.1	694.2
167.5°	708.3	709.1	709.1	708.3	707.5	706.7	705.9
170°	714.5	715.4	715.4	714.5	713.6	712.7	711.8
172.5°	719.2	720.0	720.0	719.1	718.2	717.3	716.4
175°	724.4	725.2	725.1	724.2	723.3	722.4	721.5
177.5°	726.6	727.2	727.1	726.4	725.7	725.0	724.3
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1

(END OF REPORT)