

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: P332368-935

Luminaire Tested: **S123RDIP-S1165D585U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332368-935  
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-S1165D585U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5763.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

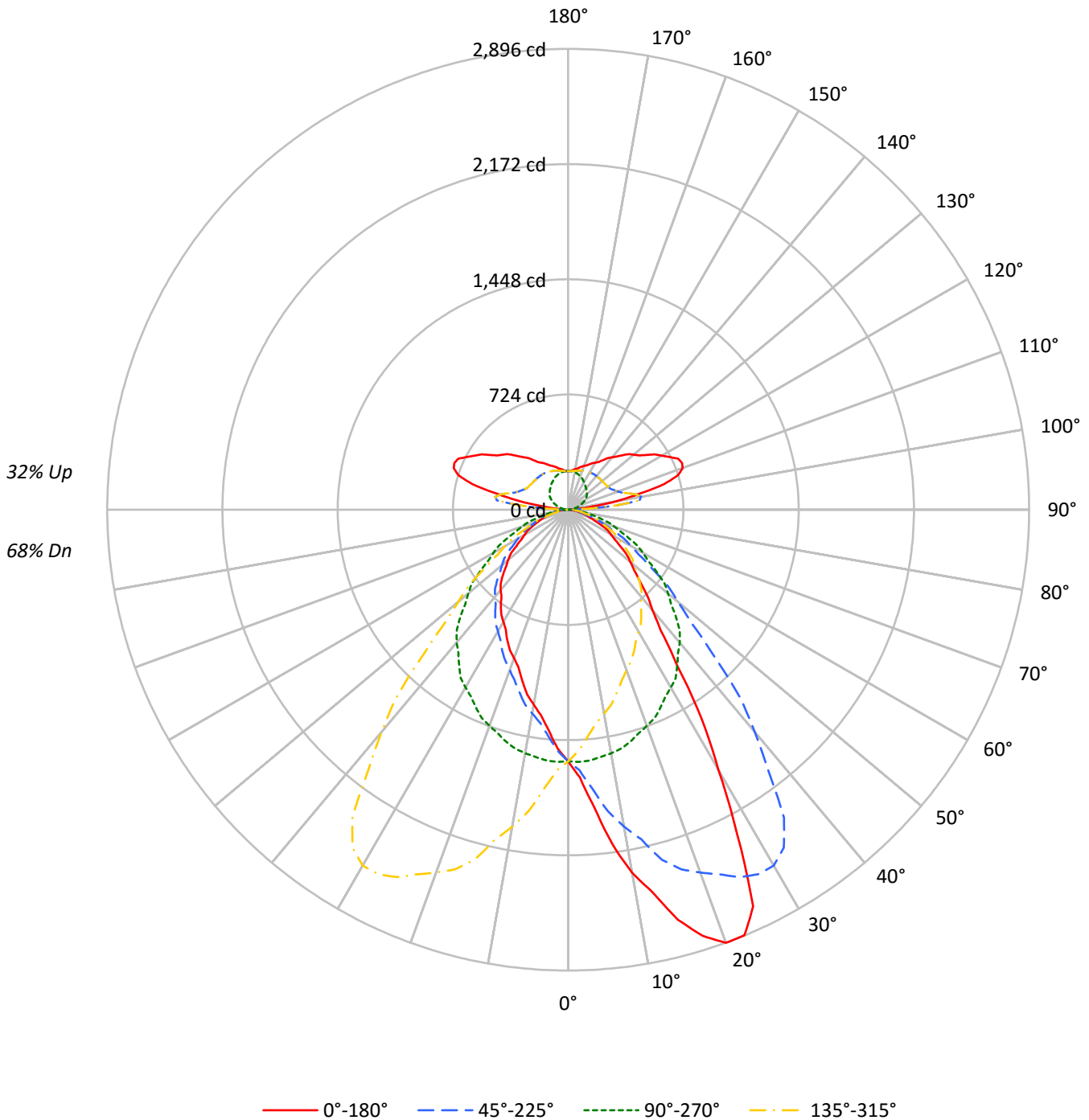
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	103	99	95	92	97	93	90	87	83	81	79	74	72	71	66	64	63	59
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	54	51
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44
4	80	69	61	55	75	66	59	53	59	54	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	52	46	53	48	43	48	43	40	43	40	37	34
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33	30
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	36	32	29	27
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	2.7
10°-20°	485.7	8.4
20°-30°	763.0	13.2
30°-40°	796.1	13.8
40°-50°	681.2	11.8
50°-60°	519.2	9.0
60°-70°	332.8	5.8
70°-80°	160.1	2.8
80°-90°	44.2	0.8
90°-100°	135.0	2.3
100°-110°	382.3	6.6
110°-120°	376.1	6.5
120°-130°	300.0	5.2
130°-140°	236.5	4.1
140°-150°	176.5	3.1
150°-160°	123.0	2.1
160°-170°	72.3	1.3
170°-180°	23.5	0.4
0°-30°	1404.1	24.4
0°-40°	2200.2	38.2
0°-60°	3400.7	59.0
0°-90°	3937.8	68.3
90°-120°	893.4	15.5
90°-150°	1606.4	27.9
90°-180°	1825.0	31.7
0°-180°	5763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	14	1	14	1	14	8
95°	57	17	57	17	57	103
105°	625	57	625	57	625	616
115°	760	101	760	101	760	738
125°	599	140	599	140	599	543
135°	486	164	486	164	486	377
145°	380	187	380	187	380	241
155°	315	213	315	213	315	147
165°	274	232	274	232	274	78
175°	247	242	247	242	247	24
180°	243	243	243	243	243	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	8.3	9.5	8.3	8.7	8.8	9.1	9.0	9.0	9.9	9.5	9.7
90°	14.2	14.7	14.2	13.8	14.2	13.3	12.7	12.3	11.8	12.3	10.8
92.5°	23.7	24.5	24.0	25.6	26.4	29.0	32.8	41.3	57.0	75.5	83.1
95°	57.0	58.9	62.3	66.8	76.1	93.8	119.9	176.8	236.2	291.2	259.3
97.5°	155.1	159.3	172.5	194.7	230.9	289.6	353.0	440.7	482.8	451.3	330.4
100°	307.9	307.5	326.6	362.4	412.0	481.7	539.2	579.0	561.8	465.0	314.3
102.5°	451.7	463.0	479.0	507.4	546.0	590.2	623.7	625.0	565.8	439.5	290.8
105°	624.7	627.2	642.8	661.5	684.1	696.9	687.5	638.4	535.8	394.9	261.7
107.5°	724.3	728.8	734.1	740.4	739.9	722.5	679.5	599.7	483.4	355.3	243.3
110°	765.1	766.1	767.1	763.2	749.4	715.1	653.2	562.7	450.3	332.9	236.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	773.4	773.2	769.5	757.2	732.1	687.9	618.5	526.2	421.6	318.1	232.3
115°	759.7	757.2	747.4	725.8	689.0	635.5	563.3	477.9	387.0	302.0	230.8
117.5°	716.3	713.0	698.8	674.1	635.7	581.3	516.5	442.7	366.1	292.6	231.7
120°	680.2	677.2	665.5	637.9	599.2	549.5	490.6	424.3	355.1	288.3	233.2
122.5°	646.4	642.7	629.6	604.9	570.4	524.3	469.8	409.7	346.0	285.5	236.0
125°	599.2	595.7	583.4	561.8	530.4	491.1	443.9	390.4	334.4	281.9	240.1
127.5°	560.3	557.1	546.0	527.5	499.6	463.8	421.3	373.5	324.3	280.1	244.9
130°	538.2	534.3	524.0	506.4	480.3	446.9	407.1	362.9	318.7	279.0	248.0
132.5°	516.6	513.8	504.7	487.1	462.6	430.8	393.7	353.1	313.6	278.5	250.4
135°	485.7	482.2	473.4	458.7	434.6	406.7	374.7	339.8	306.9	277.9	253.9
137.5°	453.0	450.7	443.2	428.3	408.1	383.8	356.4	327.8	301.2	276.9	256.2
140°	430.2	430.7	422.8	409.1	390.4	369.3	345.7	320.7	297.6	276.5	257.8
142.5°	409.0	409.5	402.4	390.2	374.3	355.9	335.5	314.0	294.5	275.7	259.0
145°	379.6	378.7	374.7	364.4	352.1	337.9	322.2	305.9	290.2	274.5	259.8
147.5°	355.4	355.1	351.3	344.3	335.0	324.9	312.2	299.4	286.1	272.7	259.8
150°	341.3	341.3	338.4	332.9	325.6	316.2	305.9	294.6	283.4	271.0	259.8
152.5°	329.5	329.5	327.8	322.7	316.9	309.2	300.1	290.3	280.3	269.1	258.6
155°	314.8	314.3	313.3	309.4	305.0	299.1	291.7	283.9	275.5	265.7	257.4
157.5°	301.4	301.4	300.7	297.7	293.9	289.3	283.5	277.0	270.2	262.6	255.6
160°	292.7	293.2	293.2	290.2	286.8	283.4	278.4	273.0	266.7	260.3	254.9
162.5°	284.8	285.3	285.3	282.8	280.5	277.5	272.9	268.4	263.1	258.0	253.3
165°	274.5	274.5	275.0	273.0	271.0	268.6	265.2	262.3	258.3	254.4	251.0
167.5°	264.7	264.7	265.2	263.8	262.9	261.1	259.2	256.9	253.7	250.8	248.6
170°	258.8	258.8	259.3	258.3	257.8	256.8	254.9	253.4	251.0	248.5	247.0
172.5°	253.3	253.7	254.6	253.6	253.5	252.9	251.3	250.3	248.2	246.5	245.8
175°	247.0	247.5	248.0	247.5	247.5	247.5	246.5	246.1	245.0	244.1	244.1
177.5°	243.4	243.4	244.2	243.7	244.2	244.2	243.7	243.4	243.0	242.6	243.0
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	10.5	9.7	10.5	10.2	11.7	12.0	15.0	17.5	18.3	16.3	16.6
90°	9.3	7.8	6.4	5.4	4.4	2.9	2.0	0.9	2.0	2.9	4.4
92.5°	62.3	41.2	28.4	21.1	17.0	13.2	9.0	6.1	9.0	13.2	17.0
95°	178.7	105.6	63.8	44.7	31.9	23.6	18.2	16.7	18.2	23.6	31.9
97.5°	196.1	113.7	73.8	53.0	40.5	33.2	29.0	28.5	29.0	33.2	40.5
100°	185.1	112.4	78.1	58.9	47.2	40.3	36.9	36.3	36.9	40.3	47.2
102.5°	175.7	114.0	83.2	65.6	55.0	48.6	45.5	44.6	45.5	48.6	55.0
105°	168.9	118.4	91.9	76.6	67.2	61.4	58.5	57.0	58.5	61.4	67.2
107.5°	168.4	126.4	103.1	89.0	80.2	74.5	71.6	70.1	71.6	74.5	80.2
110°	170.4	133.1	111.0	97.2	88.9	83.5	81.0	79.6	81.0	83.5	88.9





TEST NUMBER: P332368-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.4	139.7	119.2	105.9	97.6	92.1	89.7	88.2	89.7	92.1	97.6
115°	180.7	150.8	132.1	118.8	110.5	105.6	102.6	100.7	102.6	105.6	110.5
117.5°	189.2	162.5	144.0	131.7	122.3	117.9	115.4	113.1	115.4	117.9	122.3
120°	195.4	169.9	152.2	140.0	130.6	125.7	123.3	121.8	123.3	125.7	130.6
122.5°	201.4	177.8	160.5	147.4	138.4	133.2	130.7	129.2	130.7	133.2	138.4
125°	210.7	189.1	171.9	158.6	149.3	143.9	140.9	140.0	140.9	143.9	149.3
127.5°	218.3	198.9	182.3	169.0	158.7	153.3	149.6	148.1	149.6	153.3	158.7
130°	223.4	204.7	188.6	175.3	165.0	159.1	154.7	153.3	154.7	159.1	165.0
132.5°	228.2	209.9	194.1	181.2	170.9	163.8	159.0	157.1	159.0	163.8	170.9
135°	234.3	217.6	202.3	189.1	178.7	171.4	166.0	164.0	166.0	171.4	178.7
137.5°	238.8	222.8	208.2	196.0	185.7	177.9	172.5	170.5	172.5	177.9	185.7
140°	241.2	226.4	212.2	199.8	190.0	182.2	177.3	174.9	177.3	182.2	190.0
142.5°	243.5	229.1	215.3	203.8	194.0	186.9	181.6	179.5	181.6	186.9	194.0
145°	246.1	232.8	220.0	208.7	200.4	193.0	188.6	187.1	188.6	193.0	200.4
147.5°	247.6	235.7	224.0	214.4	206.4	200.0	195.6	194.8	195.6	200.0	206.4
150°	248.0	237.7	226.4	217.6	210.7	204.3	200.4	199.8	200.4	204.3	210.7
152.5°	248.8	238.8	229.1	220.7	214.6	209.1	205.1	205.0	205.1	209.1	214.6
155°	249.0	241.2	232.8	225.9	220.5	215.6	212.7	212.7	212.7	215.6	220.5
157.5°	249.5	242.4	235.7	230.4	225.8	221.4	219.1	218.7	219.1	221.4	225.8
160°	249.5	243.6	237.7	232.8	229.4	225.4	223.4	223.4	223.4	225.4	229.4
162.5°	249.1	244.0	238.8	234.7	231.7	228.6	227.0	227.0	227.0	228.6	231.7
165°	248.0	244.5	240.6	237.2	235.2	232.8	231.8	232.3	231.8	232.8	235.2
167.5°	247.2	244.4	241.6	239.4	238.1	236.2	235.7	236.3	235.7	236.2	238.1
170°	246.1	244.1	241.6	240.6	239.6	238.2	237.7	238.7	237.7	238.2	239.6
172.5°	245.6	244.1	242.0	241.4	240.8	239.8	239.6	240.2	239.6	239.8	240.8
175°	244.5	243.6	242.6	242.1	242.1	241.2	241.6	242.1	241.6	241.2	242.1
177.5°	243.7	243.0	242.6	242.6	242.6	242.2	242.6	243.0	242.6	242.2	242.6
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332368-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	16.3	18.1	18.9	19.7	20.6	20.3	20.8	20.8	21.5	21.6	21.8
90°	5.4	6.4	7.8	9.3	10.8	12.3	11.8	12.3	12.7	13.3	14.2
92.5°	21.1	28.4	41.2	62.3	83.1	75.5	57.0	41.3	32.8	29.0	26.4
95°	44.7	63.8	105.6	178.7	259.3	291.2	236.2	176.8	119.9	93.8	76.1
97.5°	53.0	73.8	113.7	196.1	330.4	451.3	482.8	440.7	353.0	289.6	230.9
100°	58.9	78.1	112.4	185.1	314.3	465.0	561.8	579.0	539.2	481.7	412.0
102.5°	65.6	83.2	114.0	175.7	290.8	439.5	565.8	625.0	623.7	590.2	546.0
105°	76.6	91.9	118.4	168.9	261.7	394.9	535.8	638.4	687.5	696.9	684.1
107.5°	89.0	103.1	126.4	168.4	243.3	355.3	483.4	599.7	679.5	722.5	739.9
110°	97.2	111.0	133.1	170.4	236.2	332.9	450.3	562.7	653.2	715.1	749.4



TEST NUMBER: P332368-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	105.9	119.2	139.7	174.4	232.3	318.1	421.6	526.2	618.5	687.9	732.1
115°	118.8	132.1	150.8	180.7	230.8	302.0	387.0	477.9	563.3	635.5	689.0
117.5°	131.7	144.0	162.5	189.2	231.7	292.6	366.1	442.7	516.5	581.3	635.7
120°	140.0	152.2	169.9	195.4	233.2	288.3	355.1	424.3	490.6	549.5	599.2
122.5°	147.4	160.5	177.8	201.4	236.0	285.5	346.0	409.7	469.8	524.3	570.4
125°	158.6	171.9	189.1	210.7	240.1	281.9	334.4	390.4	443.9	491.1	530.4
127.5°	169.0	182.3	198.9	218.3	244.9	280.1	324.3	373.5	421.3	463.8	499.6
130°	175.3	188.6	204.7	223.4	248.0	279.0	318.7	362.9	407.1	446.9	480.3
132.5°	181.2	194.1	209.9	228.2	250.4	278.5	313.6	353.1	393.7	430.8	462.6
135°	189.1	202.3	217.6	234.3	253.9	277.9	306.9	339.8	374.7	406.7	434.6
137.5°	196.0	208.2	222.8	238.8	256.2	276.9	301.2	327.8	356.4	383.8	408.1
140°	199.8	212.2	226.4	241.2	257.8	276.5	297.6	320.7	345.7	369.3	390.4
142.5°	203.8	215.3	229.1	243.5	259.0	275.7	294.5	314.0	335.5	355.9	374.3
145°	208.7	220.0	232.8	246.1	259.8	274.5	290.2	305.9	322.2	337.9	352.1
147.5°	214.4	224.0	235.7	247.6	259.8	272.7	286.1	299.4	312.2	324.9	335.0
150°	217.6	226.4	237.7	248.0	259.8	271.0	283.4	294.6	305.9	316.2	325.6
152.5°	220.7	229.1	238.8	248.8	258.6	269.1	280.3	290.3	300.1	309.2	316.9
155°	225.9	232.8	241.2	249.0	257.4	265.7	275.5	283.9	291.7	299.1	305.0
157.5°	230.4	235.7	242.4	249.5	255.6	262.6	270.2	277.0	283.5	289.3	293.9
160°	232.8	237.7	243.6	249.5	254.9	260.3	266.7	273.0	278.4	283.4	286.8
162.5°	234.7	238.8	244.0	249.1	253.3	258.0	263.1	268.4	272.9	277.5	280.5
165°	237.2	240.6	244.5	248.0	251.0	254.4	258.3	262.3	265.2	268.6	271.0
167.5°	239.4	241.6	244.4	247.2	248.6	250.8	253.7	256.9	259.2	261.1	262.9
170°	240.6	241.6	244.1	246.1	247.0	248.5	251.0	253.4	254.9	256.8	257.8
172.5°	241.4	242.0	244.1	245.6	245.8	246.5	248.2	250.3	251.3	252.9	253.5
175°	242.1	242.6	243.6	244.5	244.1	244.1	245.0	246.1	246.5	247.5	247.5
177.5°	242.6	242.6	243.0	243.7	243.0	242.6	243.0	243.4	243.7	244.2	244.2
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332368-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	22.8	21.8	21.9	22.3	21.9	21.8	22.8	21.8	21.6	21.5	20.8
90°	13.8	14.2	14.7	14.2	14.7	14.2	13.8	14.2	13.3	12.7	12.3
92.5°	25.6	24.0	24.5	23.7	24.5	24.0	25.6	26.4	29.0	32.8	41.3
95°	66.8	62.3	58.9	57.0	58.9	62.3	66.8	76.1	93.8	119.9	176.8
97.5°	194.7	172.5	159.3	155.1	159.3	172.5	194.7	230.9	289.6	353.0	440.7
100°	362.4	326.6	307.5	307.9	307.5	326.6	362.4	412.0	481.7	539.2	579.0
102.5°	507.4	479.0	463.0	451.7	463.0	479.0	507.4	546.0	590.2	623.7	625.0
105°	661.5	642.8	627.2	624.7	627.2	642.8	661.5	684.1	696.9	687.5	638.4
107.5°	740.4	734.1	728.8	724.3	728.8	734.1	740.4	739.9	722.5	679.5	599.7
110°	763.2	767.1	766.1	765.1	766.1	767.1	763.2	749.4	715.1	653.2	562.7



TEST NUMBER: P332368-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	757.2	769.5	773.2	773.4	773.2	769.5	757.2	732.1	687.9	618.5	526.2
115°	725.8	747.4	757.2	759.7	757.2	747.4	725.8	689.0	635.5	563.3	477.9
117.5°	674.1	698.8	713.0	716.3	713.0	698.8	674.1	635.7	581.3	516.5	442.7
120°	637.9	665.5	677.2	680.2	677.2	665.5	637.9	599.2	549.5	490.6	424.3
122.5°	604.9	629.6	642.7	646.4	642.7	629.6	604.9	570.4	524.3	469.8	409.7
125°	561.8	583.4	595.7	599.2	595.7	583.4	561.8	530.4	491.1	443.9	390.4
127.5°	527.5	546.0	557.1	560.3	557.1	546.0	527.5	499.6	463.8	421.3	373.5
130°	506.4	524.0	534.3	538.2	534.3	524.0	506.4	480.3	446.9	407.1	362.9
132.5°	487.1	504.7	513.8	516.6	513.8	504.7	487.1	462.6	430.8	393.7	353.1
135°	458.7	473.4	482.2	485.7	482.2	473.4	458.7	434.6	406.7	374.7	339.8
137.5°	428.3	443.2	450.7	453.0	450.7	443.2	428.3	408.1	383.8	356.4	327.8
140°	409.1	422.8	430.7	430.2	430.7	422.8	409.1	390.4	369.3	345.7	320.7
142.5°	390.2	402.4	409.5	409.0	409.5	402.4	390.2	374.3	355.9	335.5	314.0
145°	364.4	374.7	378.7	379.6	378.7	374.7	364.4	352.1	337.9	322.2	305.9
147.5°	344.3	351.3	355.1	355.4	355.1	351.3	344.3	335.0	324.9	312.2	299.4
150°	332.9	338.4	341.3	341.3	341.3	338.4	332.9	325.6	316.2	305.9	294.6
152.5°	322.7	327.8	329.5	329.5	329.5	327.8	322.7	316.9	309.2	300.1	290.3
155°	309.4	313.3	314.3	314.8	314.3	313.3	309.4	305.0	299.1	291.7	283.9
157.5°	297.7	300.7	301.4	301.4	301.4	300.7	297.7	293.9	289.3	283.5	277.0
160°	290.2	293.2	293.2	292.7	293.2	293.2	290.2	286.8	283.4	278.4	273.0
162.5°	282.8	285.3	285.3	284.8	285.3	285.3	282.8	280.5	277.5	272.9	268.4
165°	273.0	275.0	274.5	274.5	274.5	275.0	273.0	271.0	268.6	265.2	262.3
167.5°	263.8	265.2	264.7	264.7	264.7	265.2	263.8	262.9	261.1	259.2	256.9
170°	258.3	259.3	258.8	258.8	258.8	259.3	258.3	257.8	256.8	254.9	253.4
172.5°	253.6	254.6	253.7	253.3	253.7	254.6	253.6	253.5	252.9	251.3	250.3
175°	247.5	248.0	247.5	247.0	247.5	248.0	247.5	247.5	247.5	246.5	246.1
177.5°	243.7	244.2	243.4	243.4	243.4	244.2	243.7	244.2	244.2	243.7	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332368-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	20.8	20.3	20.6	19.7	18.9	18.1	16.3	16.6	16.3	18.3	17.5
90°	11.8	12.3	10.8	9.3	7.8	6.4	5.4	4.4	2.9	2.0	0.9
92.5°	57.0	75.5	83.1	62.3	41.2	28.4	21.1	17.0	13.2	9.0	6.1
95°	236.2	291.2	259.3	178.7	105.6	63.8	44.7	31.9	23.6	18.2	16.7
97.5°	482.8	451.3	330.4	196.1	113.7	73.8	53.0	40.5	33.2	29.0	28.5
100°	561.8	465.0	314.3	185.1	112.4	78.1	58.9	47.2	40.3	36.9	36.3
102.5°	565.8	439.5	290.8	175.7	114.0	83.2	65.6	55.0	48.6	45.5	44.6
105°	535.8	394.9	261.7	168.9	118.4	91.9	76.6	67.2	61.4	58.5	57.0
107.5°	483.4	355.3	243.3	168.4	126.4	103.1	89.0	80.2	74.5	71.6	70.1
110°	450.3	332.9	236.2	170.4	133.1	111.0	97.2	88.9	83.5	81.0	79.6



TEST NUMBER: P332368-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	421.6	318.1	232.3	174.4	139.7	119.2	105.9	97.6	92.1	89.7	88.2
115°	387.0	302.0	230.8	180.7	150.8	132.1	118.8	110.5	105.6	102.6	100.7
117.5°	366.1	292.6	231.7	189.2	162.5	144.0	131.7	122.3	117.9	115.4	113.1
120°	355.1	288.3	233.2	195.4	169.9	152.2	140.0	130.6	125.7	123.3	121.8
122.5°	346.0	285.5	236.0	201.4	177.8	160.5	147.4	138.4	133.2	130.7	129.2
125°	334.4	281.9	240.1	210.7	189.1	171.9	158.6	149.3	143.9	140.9	140.0
127.5°	324.3	280.1	244.9	218.3	198.9	182.3	169.0	158.7	153.3	149.6	148.1
130°	318.7	279.0	248.0	223.4	204.7	188.6	175.3	165.0	159.1	154.7	153.3
132.5°	313.6	278.5	250.4	228.2	209.9	194.1	181.2	170.9	163.8	159.0	157.1
135°	306.9	277.9	253.9	234.3	217.6	202.3	189.1	178.7	171.4	166.0	164.0
137.5°	301.2	276.9	256.2	238.8	222.8	208.2	196.0	185.7	177.9	172.5	170.5
140°	297.6	276.5	257.8	241.2	226.4	212.2	199.8	190.0	182.2	177.3	174.9
142.5°	294.5	275.7	259.0	243.5	229.1	215.3	203.8	194.0	186.9	181.6	179.5
145°	290.2	274.5	259.8	246.1	232.8	220.0	208.7	200.4	193.0	188.6	187.1
147.5°	286.1	272.7	259.8	247.6	235.7	224.0	214.4	206.4	200.0	195.6	194.8
150°	283.4	271.0	259.8	248.0	237.7	226.4	217.6	210.7	204.3	200.4	199.8
152.5°	280.3	269.1	258.6	248.8	238.8	229.1	220.7	214.6	209.1	205.1	205.0
155°	275.5	265.7	257.4	249.0	241.2	232.8	225.9	220.5	215.6	212.7	212.7
157.5°	270.2	262.6	255.6	249.5	242.4	235.7	230.4	225.8	221.4	219.1	218.7
160°	266.7	260.3	254.9	249.5	243.6	237.7	232.8	229.4	225.4	223.4	223.4
162.5°	263.1	258.0	253.3	249.1	244.0	238.8	234.7	231.7	228.6	227.0	227.0
165°	258.3	254.4	251.0	248.0	244.5	240.6	237.2	235.2	232.8	231.8	232.3
167.5°	253.7	250.8	248.6	247.2	244.4	241.6	239.4	238.1	236.2	235.7	236.3
170°	251.0	248.5	247.0	246.1	244.1	241.6	240.6	239.6	238.2	237.7	238.7
172.5°	248.2	246.5	245.8	245.6	244.1	242.0	241.4	240.8	239.8	239.6	240.2
175°	245.0	244.1	244.1	244.5	243.6	242.6	242.1	242.1	241.2	241.6	242.1
177.5°	243.0	242.6	243.0	243.7	243.0	242.6	242.6	242.6	242.2	242.6	243.0
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



TEST NUMBER: P332368-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	15.0	12.0	11.7	10.2	10.5	9.7	10.5	9.7	9.5	9.9	9.0
90°	2.0	2.9	4.4	5.4	6.4	7.8	9.3	10.8	12.3	11.8	12.3
92.5°	9.0	13.2	17.0	21.1	28.4	41.2	62.3	83.1	75.5	57.0	41.3
95°	18.2	23.6	31.9	44.7	63.8	105.6	178.7	259.3	291.2	236.2	176.8
97.5°	29.0	33.2	40.5	53.0	73.8	113.7	196.1	330.4	451.3	482.8	440.7
100°	36.9	40.3	47.2	58.9	78.1	112.4	185.1	314.3	465.0	561.8	579.0
102.5°	45.5	48.6	55.0	65.6	83.2	114.0	175.7	290.8	439.5	565.8	625.0
105°	58.5	61.4	67.2	76.6	91.9	118.4	168.9	261.7	394.9	535.8	638.4
107.5°	71.6	74.5	80.2	89.0	103.1	126.4	168.4	243.3	355.3	483.4	599.7
110°	81.0	83.5	88.9	97.2	111.0	133.1	170.4	236.2	332.9	450.3	562.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.1	97.6	105.9	119.2	139.7	174.4	232.3	318.1	421.6	526.2
115°	102.6	105.6	110.5	118.8	132.1	150.8	180.7	230.8	302.0	387.0	477.9
117.5°	115.4	117.9	122.3	131.7	144.0	162.5	189.2	231.7	292.6	366.1	442.7
120°	123.3	125.7	130.6	140.0	152.2	169.9	195.4	233.2	288.3	355.1	424.3
122.5°	130.7	133.2	138.4	147.4	160.5	177.8	201.4	236.0	285.5	346.0	409.7
125°	140.9	143.9	149.3	158.6	171.9	189.1	210.7	240.1	281.9	334.4	390.4
127.5°	149.6	153.3	158.7	169.0	182.3	198.9	218.3	244.9	280.1	324.3	373.5
130°	154.7	159.1	165.0	175.3	188.6	204.7	223.4	248.0	279.0	318.7	362.9
132.5°	159.0	163.8	170.9	181.2	194.1	209.9	228.2	250.4	278.5	313.6	353.1
135°	166.0	171.4	178.7	189.1	202.3	217.6	234.3	253.9	277.9	306.9	339.8
137.5°	172.5	177.9	185.7	196.0	208.2	222.8	238.8	256.2	276.9	301.2	327.8
140°	177.3	182.2	190.0	199.8	212.2	226.4	241.2	257.8	276.5	297.6	320.7
142.5°	181.6	186.9	194.0	203.8	215.3	229.1	243.5	259.0	275.7	294.5	314.0
145°	188.6	193.0	200.4	208.7	220.0	232.8	246.1	259.8	274.5	290.2	305.9
147.5°	195.6	200.0	206.4	214.4	224.0	235.7	247.6	259.8	272.7	286.1	299.4
150°	200.4	204.3	210.7	217.6	226.4	237.7	248.0	259.8	271.0	283.4	294.6
152.5°	205.1	209.1	214.6	220.7	229.1	238.8	248.8	258.6	269.1	280.3	290.3
155°	212.7	215.6	220.5	225.9	232.8	241.2	249.0	257.4	265.7	275.5	283.9
157.5°	219.1	221.4	225.8	230.4	235.7	242.4	249.5	255.6	262.6	270.2	277.0
160°	223.4	225.4	229.4	232.8	237.7	243.6	249.5	254.9	260.3	266.7	273.0
162.5°	227.0	228.6	231.7	234.7	238.8	244.0	249.1	253.3	258.0	263.1	268.4
165°	231.8	232.8	235.2	237.2	240.6	244.5	248.0	251.0	254.4	258.3	262.3
167.5°	235.7	236.2	238.1	239.4	241.6	244.4	247.2	248.6	250.8	253.7	256.9
170°	237.7	238.2	239.6	240.6	241.6	244.1	246.1	247.0	248.5	251.0	253.4
172.5°	239.6	239.8	240.8	241.4	242.0	244.1	245.6	245.8	246.5	248.2	250.3
175°	241.6	241.2	242.1	242.1	242.6	243.6	244.5	244.1	244.1	245.0	246.1
177.5°	242.6	242.2	242.6	242.6	242.6	243.0	243.7	243.0	242.6	243.0	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	9.0	9.1	8.8	8.7	8.3	9.5	8.3
90°	12.7	13.3	14.2	13.8	14.2	14.7	14.2
92.5°	32.8	29.0	26.4	25.6	24.0	24.5	23.7
95°	119.9	93.8	76.1	66.8	62.3	58.9	57.0
97.5°	353.0	289.6	230.9	194.7	172.5	159.3	155.1
100°	539.2	481.7	412.0	362.4	326.6	307.5	307.9
102.5°	623.7	590.2	546.0	507.4	479.0	463.0	451.7
105°	687.5	696.9	684.1	661.5	642.8	627.2	624.7
107.5°	679.5	722.5	739.9	740.4	734.1	728.8	724.3
110°	653.2	715.1	749.4	763.2	767.1	766.1	765.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	618.5	687.9	732.1	757.2	769.5	773.2	773.4
115°	563.3	635.5	689.0	725.8	747.4	757.2	759.7
117.5°	516.5	581.3	635.7	674.1	698.8	713.0	716.3
120°	490.6	549.5	599.2	637.9	665.5	677.2	680.2
122.5°	469.8	524.3	570.4	604.9	629.6	642.7	646.4
125°	443.9	491.1	530.4	561.8	583.4	595.7	599.2
127.5°	421.3	463.8	499.6	527.5	546.0	557.1	560.3
130°	407.1	446.9	480.3	506.4	524.0	534.3	538.2
132.5°	393.7	430.8	462.6	487.1	504.7	513.8	516.6
135°	374.7	406.7	434.6	458.7	473.4	482.2	485.7
137.5°	356.4	383.8	408.1	428.3	443.2	450.7	453.0
140°	345.7	369.3	390.4	409.1	422.8	430.7	430.2
142.5°	335.5	355.9	374.3	390.2	402.4	409.5	409.0
145°	322.2	337.9	352.1	364.4	374.7	378.7	379.6
147.5°	312.2	324.9	335.0	344.3	351.3	355.1	355.4
150°	305.9	316.2	325.6	332.9	338.4	341.3	341.3
152.5°	300.1	309.2	316.9	322.7	327.8	329.5	329.5
155°	291.7	299.1	305.0	309.4	313.3	314.3	314.8
157.5°	283.5	289.3	293.9	297.7	300.7	301.4	301.4
160°	278.4	283.4	286.8	290.2	293.2	293.2	292.7
162.5°	272.9	277.5	280.5	282.8	285.3	285.3	284.8
165°	265.2	268.6	271.0	273.0	275.0	274.5	274.5
167.5°	259.2	261.1	262.9	263.8	265.2	264.7	264.7
170°	254.9	256.8	257.8	258.3	259.3	258.8	258.8
172.5°	251.3	252.9	253.5	253.6	254.6	253.7	253.3
175°	246.5	247.5	247.5	247.5	248.0	247.5	247.0
177.5°	243.7	244.2	244.2	243.7	244.2	243.4	243.4
180°	242.6	242.6	242.6	242.6	242.6	242.6	242.6

(END OF REPORT)