

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: P332350-830

Luminaire Tested: **S123RDIP-S1000D1025U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332350-830  
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-S1000D1025U830-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7231.0 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: General Diffuse

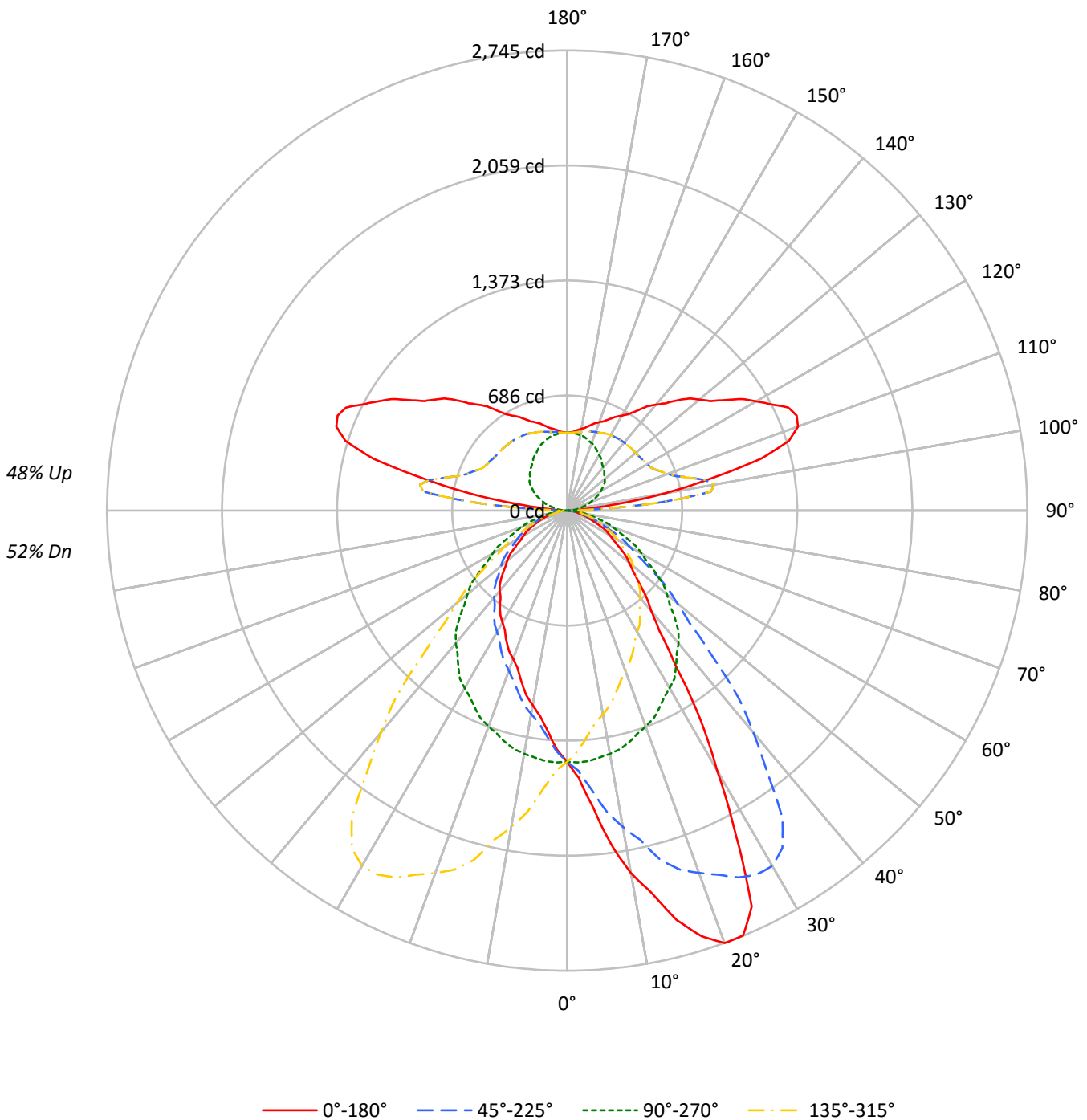
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50	45
2	90	83	78	73	83	77	72	68	66	62	59	56	53	51	46	45	43	38
3	83	74	67	61	76	69	63	58	59	54	51	50	47	44	42	39	37	33
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	47	42	38	41	36	33	34	31	29	26
6	65	53	45	39	60	50	43	37	43	37	33	37	33	29	31	28	26	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	29	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	29	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

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

	0°	90°	180°	270°
0°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	2.0
10°-20°	460.3	6.4
20°-30°	723.2	10.0
30°-40°	754.5	10.4
40°-50°	645.7	8.9
50°-60°	492.2	6.8
60°-70°	315.5	4.4
70°-80°	151.8	2.1
80°-90°	43.8	0.6
90°-100°	258.6	3.6
100°-110°	732.4	10.1
110°-120°	720.5	10.0
120°-130°	574.7	7.9
130°-140°	453.1	6.3
140°-150°	338.2	4.7
150°-160°	235.7	3.3
160°-170°	138.5	1.9
170°-180°	45.1	0.6
0°-30°	1330.9	18.4
0°-40°	2085.5	28.8
0°-60°	3223.3	44.6
0°-90°	3734.3	51.6
90°-120°	1711.5	23.7
90°-150°	3077.4	42.6
90°-180°	3497.0	48.4
0°-180°	7231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	26
90°	27	2	27	2	27	15
95°	109	32	109	32	109	197
105°	1197	109	1197	109	1197	1181
115°	1456	193	1456	193	1456	1414
125°	1148	268	1148	268	1148	1040
135°	930	314	930	314	930	722
145°	727	358	727	358	727	463
155°	603	407	603	407	603	281
165°	526	445	526	445	526	150
175°	473	464	473	464	473	46
180°	465	465	465	465	465	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	10.6	11.8	10.6	10.9	11.1	11.2	11.0	10.8	11.7	11.4	11.3
90°	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6	22.6	23.6	20.7
92.5°	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2	109.1	144.7	159.2
95°	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7	452.5	557.9	496.7
97.5°	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3	925.0	864.6	633.0
100°	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3	1076.3	891.0	602.1
102.5°	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3	1083.8	842.1	556.9
105°	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0	1026.4	756.4	501.4
107.5°	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0	926.0	680.8	466.1
110°	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2	862.7	637.9	452.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1	807.8	609.3	445.0
115°	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4	741.4	578.6	442.1
117.5°	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3	701.3	560.5	443.8
120°	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8	680.2	552.2	446.9
122.5°	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0	662.9	547.0	452.1
125°	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0	640.7	540.1	460.1
127.5°	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6	621.1	536.7	469.1
130°	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3	610.6	534.4	475.1
132.5°	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5	600.8	533.7	479.7
135°	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0	588.1	532.5	486.4
137.5°	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9	576.9	530.5	490.9
140°	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3	570.1	529.7	493.9
142.5°	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5	564.1	528.2	496.2
145°	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2	556.0	525.9	497.7
147.5°	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5	548.1	522.4	497.7
150°	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5	542.8	519.3	497.7
152.5°	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2	536.9	515.6	495.4
155°	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8	527.8	509.0	492.9
157.5°	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7	517.6	503.1	489.8
160°	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1	510.9	498.6	488.3
162.5°	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1	504.1	494.1	485.3
165°	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4	494.8	487.4	480.8
167.5°	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2	486.1	480.6	476.3
170°	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5	480.8	476.1	473.3
172.5°	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5	475.5	472.3	471.0
175°	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4	469.5	467.6	467.6
177.5°	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3	465.5	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	11.8	10.7	11.2	10.8	12.0	11.9	14.6	16.8	17.7	16.0	16.6
90°	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9	3.8	5.7	8.5
92.5°	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7	17.3	25.3	32.5
95°	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0	34.8	45.1	61.2
97.5°	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6	55.5	63.6	77.5
100°	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7	70.6	77.2	90.3
102.5°	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4	87.1	92.9	105.4
105°	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1	112.0	117.6	128.9
107.5°	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3	137.1	142.6	153.7
110°	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4	155.2	159.9	170.3





TEST NUMBER: P332350-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0	171.8	176.5	186.8
115°	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8	196.6	202.3	211.7
117.5°	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8	221.1	225.8	234.4
120°	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3	236.1	240.8	250.2
122.5°	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6	250.4	255.1	265.3
125°	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2	270.0	275.7	286.0
127.5°	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8	286.5	293.5	304.1
130°	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5	296.3	304.8	316.1
132.5°	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0	304.6	313.9	327.4
135°	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2	318.0	328.4	342.4
137.5°	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7	330.6	340.7	355.8
140°	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0	339.6	349.0	364.1
142.5°	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9	347.9	358.1	371.6
145°	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4	361.3	369.8	383.9
147.5°	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2	374.8	383.1	395.3
150°	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0	383.9	391.3	403.6
152.5°	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7	392.9	400.4	411.1
155°	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4	407.4	413.0	422.4
157.5°	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1	419.8	424.3	432.6
160°	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1	428.1	431.9	439.3
162.5°	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9	434.9	437.9	443.8
165°	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0	444.0	445.9	450.6
167.5°	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7	451.6	452.5	456.1
170°	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2	455.3	456.3	459.1
172.5°	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2	459.1	459.3	461.4
175°	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8	462.9	461.9	463.8
177.5°	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5	464.8	464.0	464.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332350-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	16.4	18.4	19.4	20.5	21.6	21.7	22.0	22.1	22.8	23.0	23.4
90°	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6	24.5	25.4	27.2
92.5°	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2	62.9	55.5	50.6
95°	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7	229.6	179.7	145.8
97.5°	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3	676.3	554.9	442.3
100°	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3	1033.0	922.9	789.4
102.5°	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3	1194.9	1130.7	1046.0
105°	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0	1317.2	1335.0	1310.6
107.5°	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0	1301.7	1384.1	1417.7
110°	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2	1251.3	1369.8	1435.7



TEST NUMBER: P332350-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1	1185.1	1317.9	1402.6
115°	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4	1079.1	1217.4	1319.9
117.5°	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3	989.6	1113.7	1217.8
120°	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8	939.9	1052.8	1147.8
122.5°	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0	900.0	1004.7	1092.9
125°	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0	850.6	940.8	1016.1
127.5°	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6	807.0	888.5	957.0
130°	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3	780.0	856.1	920.1
132.5°	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5	754.3	825.3	886.3
135°	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0	717.8	779.0	832.6
137.5°	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9	682.7	735.4	781.8
140°	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3	662.3	707.5	748.0
142.5°	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5	642.8	681.9	717.1
145°	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2	617.2	647.2	674.6
147.5°	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5	598.1	622.5	641.9
150°	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5	586.2	605.9	623.8
152.5°	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2	574.9	592.4	607.2
155°	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8	558.8	573.0	584.3
157.5°	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7	543.2	554.1	563.0
160°	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1	533.5	542.8	549.4
162.5°	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1	522.9	531.6	537.4
165°	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4	508.0	514.6	519.3
167.5°	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2	496.5	500.3	503.7
170°	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5	488.3	492.0	493.9
172.5°	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5	481.5	484.6	485.7
175°	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4	472.3	474.2	474.2
177.5°	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3	467.0	467.8	467.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332350-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	24.2	23.4	23.6	23.9	23.6	23.4	24.2	23.4	23.0	22.8	22.1
90°	26.3	27.2	28.2	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6
92.5°	48.9	46.1	47.0	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2
95°	128.0	119.5	112.9	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7
97.5°	373.0	330.6	305.2	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3
100°	694.4	625.7	589.0	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3
102.5°	972.0	917.7	887.0	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3
105°	1267.2	1231.5	1201.5	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0
107.5°	1418.4	1406.4	1396.2	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0
110°	1462.1	1469.6	1467.7	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1450.8	1474.0	1481.2	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1
115°	1390.5	1431.9	1450.8	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4
117.5°	1291.4	1338.8	1365.9	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3
120°	1222.1	1274.8	1297.4	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8
122.5°	1159.0	1206.4	1231.1	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0
125°	1076.3	1117.7	1141.2	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0
127.5°	1010.6	1046.0	1067.2	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6
130°	970.0	1003.9	1023.6	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3
132.5°	933.1	967.0	984.5	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5
135°	878.7	906.9	923.9	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0
137.5°	820.6	849.2	863.5	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9
140°	783.7	810.0	825.1	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3
142.5°	747.6	770.9	784.5	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5
145°	698.0	717.8	725.4	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2
147.5°	659.7	673.1	680.2	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5
150°	637.9	648.2	653.8	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5
152.5°	618.3	627.9	631.3	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2
155°	592.8	600.2	602.1	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8
157.5°	570.3	576.0	577.5	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7
160°	556.0	561.7	561.7	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1
162.5°	541.8	546.6	546.6	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1
165°	523.1	526.9	525.9	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4
167.5°	505.4	508.0	507.1	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2
170°	494.8	496.7	495.8	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5
172.5°	485.9	487.8	486.1	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5
175°	474.2	475.1	474.2	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4
177.5°	467.0	467.8	466.3	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332350-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	22.0	21.7	21.6	20.5	19.4	18.4	16.4	16.6	16.0	17.7	16.8
90°	22.6	23.6	20.7	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9
92.5°	109.1	144.7	159.2	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7
95°	452.5	557.9	496.7	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0
97.5°	925.0	864.6	633.0	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6
100°	1076.3	891.0	602.1	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7
102.5°	1083.8	842.1	556.9	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4
105°	1026.4	756.4	501.4	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1
107.5°	926.0	680.8	466.1	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3
110°	862.7	637.9	452.5	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	807.8	609.3	445.0	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0
115°	741.4	578.6	442.1	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8
117.5°	701.3	560.5	443.8	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8
120°	680.2	552.2	446.9	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3
122.5°	662.9	547.0	452.1	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6
125°	640.7	540.1	460.1	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2
127.5°	621.1	536.7	469.1	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8
130°	610.6	534.4	475.1	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5
132.5°	600.8	533.7	479.7	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0
135°	588.1	532.5	486.4	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2
137.5°	576.9	530.5	490.9	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7
140°	570.1	529.7	493.9	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0
142.5°	564.1	528.2	496.2	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9
145°	556.0	525.9	497.7	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4
147.5°	548.1	522.4	497.7	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2
150°	542.8	519.3	497.7	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0
152.5°	536.9	515.6	495.4	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7
155°	527.8	509.0	492.9	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4
157.5°	517.6	503.1	489.8	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1
160°	510.9	498.6	488.3	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1
162.5°	504.1	494.1	485.3	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9
165°	494.8	487.4	480.8	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0
167.5°	486.1	480.6	476.3	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7
170°	480.8	476.1	473.3	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2
172.5°	475.5	472.3	471.0	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2
175°	469.5	467.6	467.6	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8
177.5°	465.5	464.8	465.5	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332350-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.6	11.9	12.0	10.8	11.2	10.7	11.8	11.3	11.4	11.7	10.8
90°	3.8	5.7	8.5	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6
92.5°	17.3	25.3	32.5	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2
95°	34.8	45.1	61.2	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7
97.5°	55.5	63.6	77.5	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3
100°	70.6	77.2	90.3	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3
102.5°	87.1	92.9	105.4	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3
105°	112.0	117.6	128.9	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0
107.5°	137.1	142.6	153.7	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0
110°	155.2	159.9	170.3	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	176.5	186.8	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1
115°	196.6	202.3	211.7	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4
117.5°	221.1	225.8	234.4	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3
120°	236.1	240.8	250.2	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8
122.5°	250.4	255.1	265.3	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0
125°	270.0	275.7	286.0	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0
127.5°	286.5	293.5	304.1	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6
130°	296.3	304.8	316.1	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3
132.5°	304.6	313.9	327.4	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5
135°	318.0	328.4	342.4	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0
137.5°	330.6	340.7	355.8	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9
140°	339.6	349.0	364.1	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3
142.5°	347.9	358.1	371.6	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5
145°	361.3	369.8	383.9	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2
147.5°	374.8	383.1	395.3	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5
150°	383.9	391.3	403.6	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5
152.5°	392.9	400.4	411.1	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2
155°	407.4	413.0	422.4	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8
157.5°	419.8	424.3	432.6	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7
160°	428.1	431.9	439.3	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1
162.5°	434.9	437.9	443.8	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1
165°	444.0	445.9	450.6	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4
167.5°	451.6	452.5	456.1	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2
170°	455.3	456.3	459.1	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5
172.5°	459.1	459.3	461.4	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5
175°	462.9	461.9	463.8	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4
177.5°	464.8	464.0	464.8	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	11.0	11.2	11.1	10.9	10.6	11.8	10.6
90°	24.5	25.4	27.2	26.3	27.2	28.2	27.2
92.5°	62.9	55.5	50.6	48.9	46.1	47.0	45.3
95°	229.6	179.7	145.8	128.0	119.5	112.9	109.1
97.5°	676.3	554.9	442.3	373.0	330.6	305.2	297.1
100°	1033.0	922.9	789.4	694.4	625.7	589.0	589.9
102.5°	1194.9	1130.7	1046.0	972.0	917.7	887.0	865.3
105°	1317.2	1335.0	1310.6	1267.2	1231.5	1201.5	1196.7
107.5°	1301.7	1384.1	1417.7	1418.4	1406.4	1396.2	1387.5
110°	1251.3	1369.8	1435.7	1462.1	1469.6	1467.7	1465.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.1	1317.9	1402.6	1450.8	1474.0	1481.2	1481.6
115°	1079.1	1217.4	1319.9	1390.5	1431.9	1450.8	1455.5
117.5°	989.6	1113.7	1217.8	1291.4	1338.8	1365.9	1372.2
120°	939.9	1052.8	1147.8	1222.1	1274.8	1297.4	1303.1
122.5°	900.0	1004.7	1092.9	1159.0	1206.4	1231.1	1238.3
125°	850.6	940.8	1016.1	1076.3	1117.7	1141.2	1147.8
127.5°	807.0	888.5	957.0	1010.6	1046.0	1067.2	1073.3
130°	780.0	856.1	920.1	970.0	1003.9	1023.6	1031.1
132.5°	754.3	825.3	886.3	933.1	967.0	984.5	989.8
135°	717.8	779.0	832.6	878.7	906.9	923.9	930.5
137.5°	682.7	735.4	781.8	820.6	849.2	863.5	867.8
140°	662.3	707.5	748.0	783.7	810.0	825.1	824.2
142.5°	642.8	681.9	717.1	747.6	770.9	784.5	783.5
145°	617.2	647.2	674.6	698.0	717.8	725.4	727.3
147.5°	598.1	622.5	641.9	659.7	673.1	680.2	681.0
150°	586.2	605.9	623.8	637.9	648.2	653.8	653.8
152.5°	574.9	592.4	607.2	618.3	627.9	631.3	631.3
155°	558.8	573.0	584.3	592.8	600.2	602.1	603.0
157.5°	543.2	554.1	563.0	570.3	576.0	577.5	577.3
160°	533.5	542.8	549.4	556.0	561.7	561.7	560.7
162.5°	522.9	531.6	537.4	541.8	546.6	546.6	545.6
165°	508.0	514.6	519.3	523.1	526.9	525.9	525.9
167.5°	496.5	500.3	503.7	505.4	508.0	507.1	507.1
170°	488.3	492.0	493.9	494.8	496.7	495.8	495.8
172.5°	481.5	484.6	485.7	485.9	487.8	486.1	485.3
175°	472.3	474.2	474.2	474.2	475.1	474.2	473.3
177.5°	467.0	467.8	467.8	467.0	467.8	466.3	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)