

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: P332997-830

Luminaire Tested: **SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332997-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

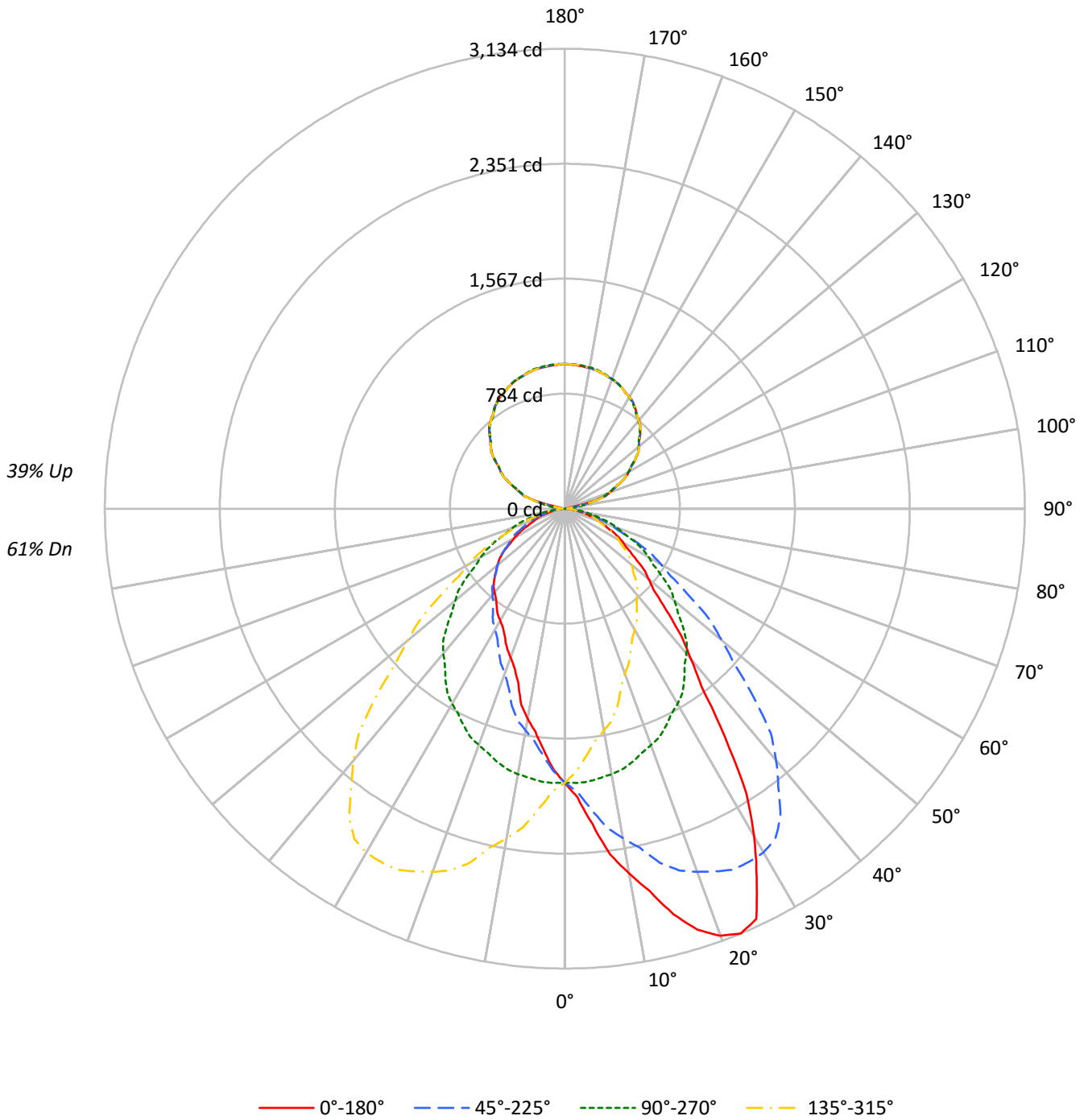
Lumens per Lamp: N/A  
Luminaire Lumens: 7772.1 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

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



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	59	58	57	57	57	57	52	
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	49	49	49	45	
3	84	75	68	62	79	71	64	59	62	57	53	55	51	48	47	44	42	42	42	42	38	
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	39	37	37	37	37	33	
5	71	60	52	46	67	57	49	44	50	44	40	44	40	36	39	35	32	32	32	32	29	
6	66	54	46	40	62	51	44	38	45	40	35	40	35	32	35	32	29	29	29	29	26	
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	28	26	26	26	26	23	
8	57	45	37	32	53	42	35	30	38	32	28	34	29	25	30	26	23	23	23	23	21	
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	21	21	21	19	
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	25	22	19	19	19	19	17	

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

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	2.3
10°-20°	545.9	7.0
20°-30°	853.8	11.0
30°-40°	949.2	12.2
40°-50°	842.2	10.8
50°-60°	656.2	8.4
60°-70°	429.6	5.5
70°-80°	211.3	2.7
80°-90°	55.0	0.7
90°-100°	33.7	0.4
100°-110°	214.9	2.8
110°-120°	411.0	5.3
120°-130°	521.8	6.7
130°-140°	558.3	7.2
140°-150°	522.1	6.7
150°-160°	421.0	5.4
160°-170°	271.5	3.5
170°-180°	93.6	1.2
0°-30°	1580.7	20.3
0°-40°	2529.9	32.6
0°-60°	4028.3	51.8
0°-90°	4724.2	60.8
90°-120°	659.6	8.5
90°-150°	2261.8	29.1
90°-180°	3048.0	39.2
0°-180°	7772.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	22	2	22	2	22	11
95°	21	40	21	40	21	17
105°	210	222	210	222	210	183
115°	417	414	417	414	417	413
125°	587	582	587	582	587	522
135°	727	722	727	722	727	560
145°	837	833	837	833	837	523
155°	912	913	912	913	912	421
165°	959	963	959	963	959	271
175°	979	985	979	985	979	93
180°	985	985	985	985	985	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	17.6	17.0	17.5	17.4	18.0	17.2	17.7	18.7	17.2	17.7	17.4
90°	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2	17.2	16.2	14.9
92.5°	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6	16.6	15.6	14.3
95°	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2	17.2	16.2	16.0
97.5°	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	37.7
100°	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9	29.6	32.4	55.0
102.5°	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1	126.2	156.3	159.2
105°	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9	231.4	229.9	229.1
107.5°	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1	287.4	286.7	285.6
110°	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6	325.4	325.0	324.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0	362.1	362.1	361.7
115°	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3	415.9	415.7	415.8
117.5°	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9	471.0	471.1	470.7
120°	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7	504.4	504.1	504.3
122.5°	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1	537.9	537.7	537.4
125°	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7	584.2	583.7	584.0
127.5°	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9	631.0	631.1	630.4
130°	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2	659.0	658.8	658.4
132.5°	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9	686.7	686.5	685.9
135°	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1	724.7	724.4	723.8
137.5°	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7	761.4	761.0	760.3
140°	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4	783.9	783.3	783.1
142.5°	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3	805.0	804.6	804.5
145°	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3	835.2	835.0	835.0
147.5°	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7	861.5	861.4	861.5
150°	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4	878.4	878.4	878.6
152.5°	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2	892.9	892.6	892.9
155°	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9	912.3	911.6	912.1
157.5°	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0	929.2	928.3	928.9
160°	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8	939.9	938.9	939.1
162.5°	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7	948.8	947.7	947.9
165°	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1	960.8	959.5	959.5
167.5°	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3	969.8	968.4	968.5
170°	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9	975.5	974.3	974.1
172.5°	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4	979.1	977.8	977.6
175°	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6	983.1	981.7	981.5
177.5°	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3	985.1	984.1	983.9
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	17.2	16.3	17.2	17.0	17.2	19.2	20.6	20.9	19.5	18.0	16.6
90°	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2	4.1	5.8	7.6
92.5°	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3	9.4	9.5	9.6
95°	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5	35.0	29.4	23.8
97.5°	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1	89.5	93.0	96.5
100°	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8	123.9	126.8	129.7
102.5°	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8	161.9	164.1	166.3
105°	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8	222.8	223.8	224.8
107.5°	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5	279.9	280.4	281.0
110°	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4	318.9	319.3	319.8





TEST NUMBER: P332997-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1	356.9	357.9	358.7
115°	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2	414.6	415.2	415.7
117.5°	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5	467.1	467.8	468.4
120°	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9	502.6	503.2	503.9
122.5°	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9	535.3	535.6	536.0
125°	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2	582.9	583.5	584.2
127.5°	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0	627.2	627.4	627.5
130°	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9	656.1	656.2	656.4
132.5°	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4	682.7	683.1	683.3
135°	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3	722.1	721.9	721.7
137.5°	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4	757.5	757.6	757.6
140°	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4	780.8	781.1	781.5
142.5°	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1	801.6	802.3	802.9
145°	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7	833.3	833.8	834.2
147.5°	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0	858.9	859.8	860.7
150°	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3	876.9	877.6	878.3
152.5°	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6	892.1	892.6	893.2
155°	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1	913.2	913.4	913.6
157.5°	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2	931.1	931.0	930.9
160°	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9	941.3	940.8	940.4
162.5°	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3	950.6	950.0	949.4
165°	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2	962.4	961.6	960.7
167.5°	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6	971.8	970.9	970.1
170°	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0	976.9	976.0	975.0
172.5°	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5	980.5	979.5	978.5
175°	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3	984.3	983.4	982.4
177.5°	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1	986.2	985.2	984.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332997-830

CATALOG NUMBER: SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	17.0	16.7	16.9	15.9	16.9	17.1	16.7	16.9	17.7	16.7	16.8
90°	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.2	20.8
92.5°	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6	18.6	19.5	20.1
95°	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2	19.1	20.2	20.7
97.5°	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7	19.8	19.9	20.0
100°	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9	24.0	21.3	20.0
102.5°	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1	66.2	36.1	21.1
105°	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9	234.3	235.8	233.7
107.5°	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1	288.8	289.5	290.2
110°	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6	326.0	326.3	326.7



TEST NUMBER: P332997-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0	361.9	361.8	362.1
115°	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3	416.6	417.0	417.2
117.5°	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9	470.9	470.8	470.7
120°	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7	505.1	505.4	505.4
122.5°	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1	538.3	538.5	538.4
125°	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7	585.1	585.6	586.0
127.5°	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9	630.8	630.7	630.7
130°	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2	659.3	659.5	659.6
132.5°	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9	687.0	687.2	687.2
135°	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1	725.4	725.8	726.0
137.5°	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7	762.0	762.4	762.5
140°	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4	784.9	785.3	785.7
142.5°	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3	805.7	806.1	806.3
145°	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3	835.5	835.7	835.8
147.5°	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7	861.8	861.9	862.0
150°	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4	878.4	878.4	878.5
152.5°	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2	893.4	893.6	893.7
155°	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9	913.6	914.3	914.4
157.5°	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0	930.9	931.7	931.7
160°	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8	941.9	942.8	942.8
162.5°	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7	950.6	951.7	951.6
165°	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1	963.5	964.8	964.7
167.5°	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3	972.7	974.1	974.0
170°	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9	978.2	979.5	979.3
172.5°	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4	981.8	983.1	982.8
175°	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6	986.1	987.5	987.3
177.5°	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3	987.3	988.4	988.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332997-830

CATALOG NUMBER: SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	18.1	17.5	17.0	17.6	17.0	17.5	18.1	16.8	16.7	17.7	16.9
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2
92.5°	20.2	20.2	20.3	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6
95°	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2
97.5°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7
100°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9
102.5°	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1
105°	227.7	221.8	215.9	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9
107.5°	290.9	291.4	292.1	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1
110°	327.3	327.7	328.2	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6



TEST NUMBER: P332997-830

CATALOG NUMBER: SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.8	363.4	364.0	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0
115°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3
117.5°	470.7	470.6	470.5	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9
120°	505.1	504.7	504.4	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7
122.5°	538.1	537.7	537.4	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1
125°	586.2	586.3	586.4	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7
127.5°	630.5	630.4	630.3	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9
130°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2
132.5°	687.1	686.9	686.8	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9
135°	726.4	726.7	727.1	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1
137.5°	762.4	762.3	762.2	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7
140°	785.9	786.0	786.2	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4
142.5°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3
145°	836.2	836.5	836.9	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3
147.5°	862.2	862.3	862.5	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7
150°	878.7	878.8	879.0	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4
152.5°	893.6	893.5	893.4	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2
155°	913.8	913.3	912.9	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9
157.5°	930.9	930.0	929.2	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0
160°	941.9	940.8	939.9	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8
162.5°	950.5	949.3	948.3	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7
165°	963.2	961.8	960.3	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1
167.5°	972.4	970.7	969.1	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3
170°	977.7	976.1	974.4	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9
172.5°	981.1	979.3	977.5	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4
175°	985.3	983.4	981.4	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6
177.5°	986.5	985.0	983.4	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332997-830

CATALOG NUMBER: SA4XXRDIP-C1195D810U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	16.7	17.1	16.9	15.9	16.9	16.7	17.0	16.6	18.0	19.5	20.9
90°	17.2	16.2	14.9	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2
92.5°	16.6	15.6	14.3	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3
95°	17.2	16.2	16.0	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5
97.5°	19.5	19.4	37.7	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1
100°	29.6	32.4	55.0	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8
102.5°	126.2	156.3	159.2	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8
105°	231.4	229.9	229.1	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8
107.5°	287.4	286.7	285.6	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5
110°	325.4	325.0	324.0	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	362.1	362.1	361.7	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1
115°	415.9	415.7	415.8	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2
117.5°	471.0	471.1	470.7	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5
120°	504.4	504.1	504.3	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9
122.5°	537.9	537.7	537.4	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9
125°	584.2	583.7	584.0	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2
127.5°	631.0	631.1	630.4	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0
130°	659.0	658.8	658.4	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9
132.5°	686.7	686.5	685.9	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4
135°	724.7	724.4	723.8	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3
137.5°	761.4	761.0	760.3	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4
140°	783.9	783.3	783.1	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4
142.5°	805.0	804.6	804.5	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1
145°	835.2	835.0	835.0	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7
147.5°	861.5	861.4	861.5	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0
150°	878.4	878.4	878.6	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3
152.5°	892.9	892.6	892.9	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6
155°	912.3	911.6	912.1	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1
157.5°	929.2	928.3	928.9	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2
160°	939.9	938.9	939.1	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9
162.5°	948.8	947.7	947.9	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3
165°	960.8	959.5	959.5	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2
167.5°	969.8	968.4	968.5	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6
170°	975.5	974.3	974.1	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0
172.5°	979.1	977.8	977.6	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5
175°	983.1	981.7	981.5	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3
177.5°	985.1	984.1	983.9	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332997-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	20.6	19.2	17.2	17.0	17.2	16.3	17.2	17.4	17.7	17.2	18.7
90°	4.1	5.8	7.6	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2
92.5°	9.4	9.5	9.6	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6
95°	35.0	29.4	23.8	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2
97.5°	89.5	93.0	96.5	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7
100°	123.9	126.8	129.7	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9
102.5°	161.9	164.1	166.3	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1
105°	222.8	223.8	224.8	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9
107.5°	279.9	280.4	281.0	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1
110°	318.9	319.3	319.8	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.9	357.9	358.7	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0
115°	414.6	415.2	415.7	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3
117.5°	467.1	467.8	468.4	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9
120°	502.6	503.2	503.9	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7
122.5°	535.3	535.6	536.0	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1
125°	582.9	583.5	584.2	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7
127.5°	627.2	627.4	627.5	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9
130°	656.1	656.2	656.4	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2
132.5°	682.7	683.1	683.3	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9
135°	722.1	721.9	721.7	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1
137.5°	757.5	757.6	757.6	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7
140°	780.8	781.1	781.5	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4
142.5°	801.6	802.3	802.9	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3
145°	833.3	833.8	834.2	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3
147.5°	858.9	859.8	860.7	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7
150°	876.9	877.6	878.3	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4
152.5°	892.1	892.6	893.2	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2
155°	913.2	913.4	913.6	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9
157.5°	931.1	931.0	930.9	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0
160°	941.3	940.8	940.4	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8
162.5°	950.6	950.0	949.4	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7
165°	962.4	961.6	960.7	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1
167.5°	971.8	970.9	970.1	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3
170°	976.9	976.0	975.0	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9
172.5°	980.5	979.5	978.5	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4
175°	984.3	983.4	982.4	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6
177.5°	986.2	985.2	984.3	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	17.7	17.2	18.0	17.4	17.5	17.0	17.6
90°	19.1	20.2	20.8	21.1	21.5	21.8	22.1
92.5°	18.6	19.5	20.1	20.2	20.2	20.3	20.4
95°	19.1	20.2	20.7	20.9	21.0	21.2	21.4
97.5°	19.8	19.9	20.0	20.2	20.3	20.5	20.6
100°	24.0	21.3	20.0	20.2	20.3	20.5	20.6
102.5°	66.2	36.1	21.1	21.1	21.1	21.2	21.2
105°	234.3	235.8	233.7	227.7	221.8	215.9	210.0
107.5°	288.8	289.5	290.2	290.9	291.4	292.1	292.8
110°	326.0	326.3	326.7	327.3	327.7	328.2	328.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.9	361.8	362.1	362.8	363.4	364.0	364.7
115°	416.6	417.0	417.2	417.2	417.2	417.2	417.2
117.5°	470.9	470.8	470.7	470.7	470.6	470.5	470.5
120°	505.1	505.4	505.4	505.1	504.7	504.4	504.1
122.5°	538.3	538.5	538.4	538.1	537.7	537.4	537.1
125°	585.1	585.6	586.0	586.2	586.3	586.4	586.6
127.5°	630.8	630.7	630.7	630.5	630.4	630.3	630.1
130°	659.3	659.5	659.6	659.6	659.6	659.6	659.6
132.5°	687.0	687.2	687.2	687.1	686.9	686.8	686.7
135°	725.4	725.8	726.0	726.4	726.7	727.1	727.4
137.5°	762.0	762.4	762.5	762.4	762.3	762.2	762.1
140°	784.9	785.3	785.7	785.9	786.0	786.2	786.4
142.5°	805.7	806.1	806.3	806.3	806.3	806.3	806.3
145°	835.5	835.7	835.8	836.2	836.5	836.9	837.2
147.5°	861.8	861.9	862.0	862.2	862.3	862.5	862.7
150°	878.4	878.4	878.5	878.7	878.8	879.0	879.2
152.5°	893.4	893.6	893.7	893.6	893.5	893.4	893.3
155°	913.6	914.3	914.4	913.8	913.3	912.9	912.4
157.5°	930.9	931.7	931.7	930.9	930.0	929.2	928.3
160°	941.9	942.8	942.8	941.9	940.8	939.9	938.9
162.5°	950.6	951.7	951.6	950.5	949.3	948.3	947.2
165°	963.5	964.8	964.7	963.2	961.8	960.3	958.8
167.5°	972.7	974.1	974.0	972.4	970.7	969.1	967.5
170°	978.2	979.5	979.3	977.7	976.1	974.4	972.8
172.5°	981.8	983.1	982.8	981.1	979.3	977.5	975.7
175°	986.1	987.5	987.3	985.3	983.4	981.4	979.4
177.5°	987.3	988.4	988.1	986.5	985.0	983.4	981.8
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3

(END OF REPORT)