

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: P331718-840

Luminaire Tested: **SA2XXRDIP-C865D725U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331718-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D725U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

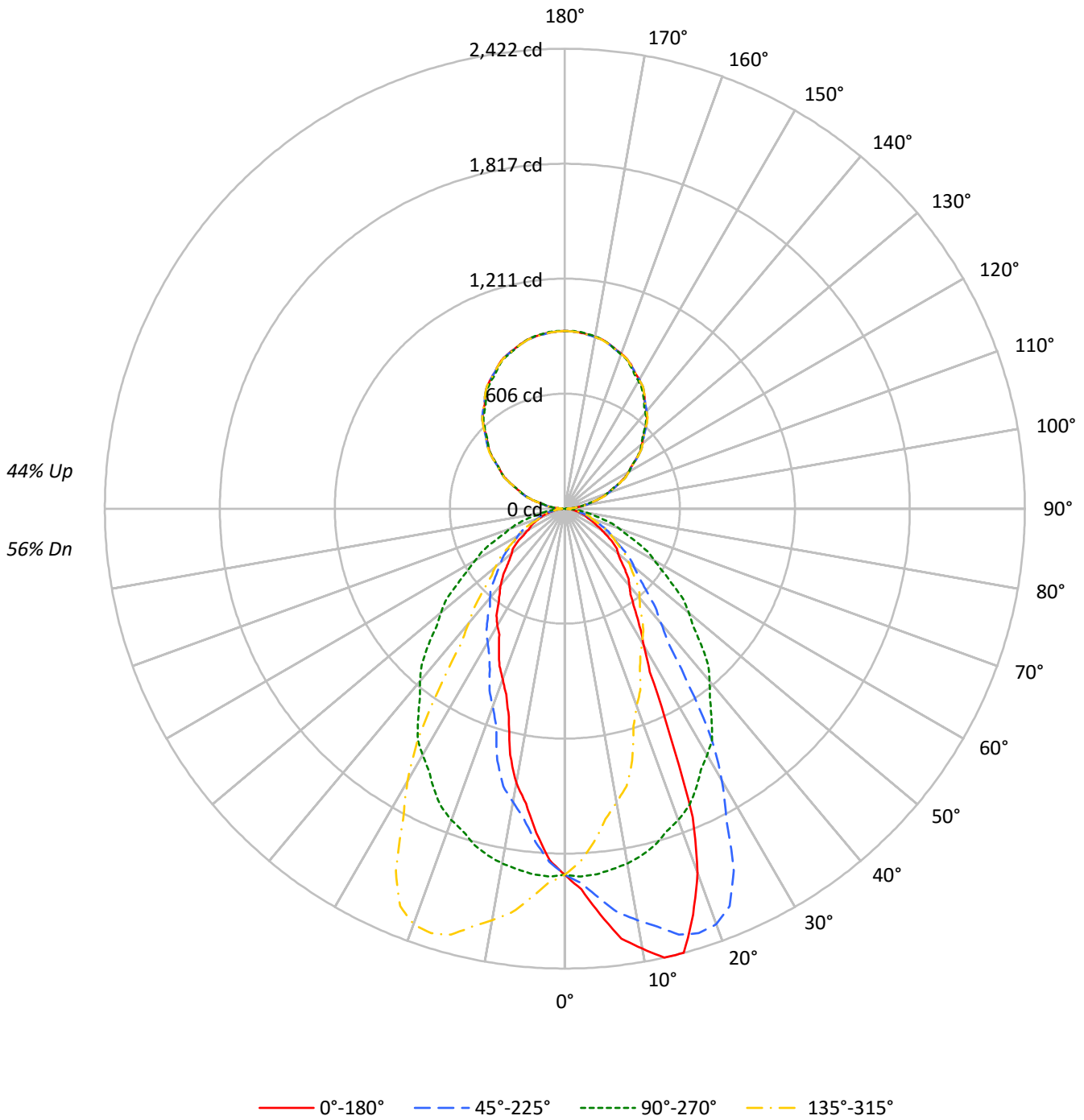
Lumens per Lamp: N/A  
Luminaire Lumens: 5952.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 54.4  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				56
1	100	96	92	89	93	89	86	84	77	75	73	66	65	63	56	55	54	49				49
2	92	85	79	74	85	79	74	70	69	65	62	59	56	54	50	48	47	42				42
3	84	75	69	63	78	71	65	60	62	57	53	53	50	47	45	43	41	37				37
4	78	68	60	54	72	63	57	52	55	50	46	48	44	41	41	38	36	33				33
5	72	61	53	47	67	57	50	45	50	45	41	44	40	36	38	35	32	29				29
6	67	55	47	42	62	52	45	40	46	40	36	40	36	32	35	31	29	26				26
7	62	50	42	37	58	47	40	35	42	36	32	37	32	29	32	29	26	24				24
8	58	46	38	33	54	43	37	32	38	33	29	34	30	26	30	26	24	22				22
9	54	42	35	30	50	40	33	29	36	30	26	31	27	24	28	24	22	20				20
10	51	39	32	27	47	37	30	26	33	28	24	29	25	22	26	22	20	18				18

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

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	3.1
10°-20°	509.4	8.6
20°-30°	656.4	11.0
30°-40°	623.8	10.5
40°-50°	534.4	9.0
50°-60°	406.9	6.8
60°-70°	257.2	4.3
70°-80°	128.5	2.2
80°-90°	37.2	0.6
90°-100°	59.3	1.0
100°-110°	184.1	3.1
110°-120°	314.7	5.3
120°-130°	413.8	7.0
130°-140°	464.4	7.8
140°-150°	455.4	7.7
150°-160°	382.0	6.4
160°-170°	253.3	4.3
170°-180°	88.5	1.5
0°-30°	1348.5	22.7
0°-40°	1972.3	33.1
0°-60°	2913.6	49.0
0°-90°	3336.5	56.1
90°-120°	558.0	9.4
90°-150°	1891.7	31.8
90°-180°	2616.0	44.0
0°-180°	5952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	27	1	27	1	27	13
95°	49	41	49	41	49	55
105°	175	170	175	170	175	184
115°	316	316	316	316	316	312
125°	461	459	461	459	461	411
135°	602	594	602	594	602	463
145°	729	721	729	721	729	455
155°	831	825	831	825	831	383
165°	898	898	898	898	898	253
175°	931	934	931	934	931	88
180°	935	935	935	935	935	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	13.9	14.4	14.4	14.3	14.3	14.3	14.4	15.0	14.5	15.1	13.8
90°	26.9	26.7	26.5	26.4	26.2	26.3	26.6	27.0	27.3	27.7	23.7
92.5°	25.5	25.5	25.5	25.4	25.4	25.3	25.3	25.2	25.1	25.1	24.2
95°	49.0	49.3	49.7	50.0	50.4	50.5	50.5	50.5	50.5	50.5	50.2
97.5°	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.2
100°	108.2	108.4	108.5	108.7	108.9	109.0	109.0	109.0	109.0	109.0	108.4
102.5°	134.6	134.8	135.0	135.2	135.3	135.4	135.2	135.1	134.9	134.8	134.1
105°	175.2	175.2	175.2	175.2	175.2	175.1	174.7	174.4	174.0	173.7	173.3
107.5°	213.5	214.3	215.1	215.9	216.7	217.0	216.8	216.7	216.6	216.4	216.4
110°	243.1	243.7	244.2	244.7	245.2	245.5	245.5	245.5	245.5	245.5	245.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	271.6	272.0	272.3	272.7	273.1	273.5	273.9	274.3	274.8	275.2	275.3
115°	315.8	316.3	316.8	317.3	317.8	318.2	318.4	318.5	318.7	318.9	319.2
117.5°	357.9	358.4	358.9	359.5	360.0	360.4	360.9	361.3	361.7	362.1	363.1
120°	387.6	388.1	388.6	389.1	389.7	389.9	389.9	389.9	389.9	389.9	391.3
122.5°	416.7	417.0	417.4	417.8	418.2	418.6	419.0	419.4	419.8	420.2	421.2
125°	461.0	461.2	461.3	461.5	461.7	462.0	462.5	463.1	463.6	464.1	464.6
127.5°	501.4	502.0	502.5	503.1	503.6	504.2	504.8	505.5	506.1	506.8	507.4
130°	530.5	531.2	531.9	532.5	533.2	533.8	534.1	534.5	534.8	535.2	535.5
132.5°	558.3	558.8	559.4	559.9	560.5	561.2	561.9	562.7	563.5	564.2	564.1
135°	601.5	602.0	602.6	603.1	603.6	603.9	604.1	604.3	604.5	604.6	604.3
137.5°	640.7	641.4	642.1	642.8	643.5	643.9	644.0	644.2	644.3	644.4	644.0
140°	667.8	668.5	669.2	669.9	670.6	671.0	671.0	671.0	671.0	671.0	670.0
142.5°	692.5	693.2	693.8	694.5	695.2	695.5	695.4	695.2	695.1	695.0	694.4
145°	729.3	730.0	730.7	731.4	732.2	732.5	732.3	732.1	732.0	731.7	730.6
147.5°	762.3	763.1	763.7	764.4	765.1	765.2	764.8	764.4	764.0	763.7	763.0
150°	783.9	784.4	784.9	785.4	786.0	786.0	785.4	784.9	784.4	783.9	783.2
152.5°	804.1	804.7	805.4	806.1	806.7	806.7	806.1	805.4	804.7	804.1	803.1
155°	831.2	831.7	832.2	832.7	833.3	833.1	832.2	831.3	830.5	829.6	829.1
157.5°	854.5	855.4	856.3	857.1	857.9	857.8	856.6	855.4	854.1	852.9	852.6
160°	869.1	869.8	870.5	871.2	871.9	871.7	870.7	869.6	868.6	867.5	867.4
162.5°	881.7	882.5	883.4	884.2	885.0	884.9	883.7	882.5	881.3	880.1	880.0
165°	898.3	899.2	900.0	900.9	901.8	901.6	900.4	899.2	898.0	896.7	896.7
167.5°	911.9	912.8	913.7	914.6	915.5	915.3	914.1	912.9	911.7	910.4	910.5
170°	918.8	919.9	920.9	922.0	923.0	922.9	921.7	920.5	919.3	918.0	918.2
172.5°	924.5	925.5	926.6	927.7	928.7	928.6	927.4	926.1	924.9	923.7	923.9
175°	930.7	931.7	932.7	933.8	934.8	934.7	933.5	932.3	931.1	929.9	930.2
177.5°	933.5	934.3	935.1	936.0	936.9	936.9	936.0	935.1	934.3	933.5	933.7
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	13.1	12.8	12.1	10.9	11.1	11.2	13.4	15.7	13.9	12.8	12.1
90°	19.9	16.1	12.2	9.2	7.1	5.0	2.9	0.8	2.9	5.0	7.1
92.5°	23.2	22.3	21.4	20.2	18.7	17.2	15.6	14.0	15.6	17.2	18.7
95°	49.8	49.5	49.1	48.1	46.4	44.5	42.8	41.0	42.8	44.5	46.4
97.5°	83.6	82.9	82.3	81.2	79.6	78.1	76.5	75.0	76.5	78.1	79.6
100°	107.9	107.3	106.8	105.8	104.4	103.0	101.7	100.3	101.7	103.0	104.4
102.5°	133.5	132.8	132.2	131.3	130.2	129.1	127.8	126.7	127.8	129.1	130.2
105°	173.0	172.6	172.3	171.8	171.3	170.8	170.3	169.8	170.3	170.8	171.3
107.5°	216.4	216.4	216.4	216.0	215.3	214.5	213.8	213.0	213.8	214.5	215.3
110°	245.5	245.5	245.5	245.0	243.9	242.9	241.8	240.8	241.8	242.9	243.9





TEST NUMBER: P331718-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	275.5	275.6	275.7	275.3	274.2	273.2	272.2	271.0	272.2	273.2	274.2
115°	319.6	319.9	320.3	319.9	318.9	317.8	316.8	315.8	316.8	317.8	318.9
117.5°	364.2	365.1	366.1	365.9	364.5	363.0	361.6	360.2	361.6	363.0	364.5
120°	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9	391.3	392.7	394.2
122.5°	422.2	423.2	424.1	423.8	422.1	420.5	418.8	417.1	418.8	420.5	422.1
125°	465.1	465.7	466.3	465.7	464.1	462.5	461.0	459.4	461.0	462.5	464.1
127.5°	508.1	508.7	509.3	508.6	506.6	504.6	502.6	500.6	502.6	504.6	506.6
130°	535.8	536.2	536.5	535.6	533.3	531.1	528.8	526.5	528.8	531.1	533.3
132.5°	564.1	564.0	563.9	563.0	561.1	559.3	557.4	555.5	557.4	559.3	561.1
135°	603.9	603.6	603.2	602.1	600.2	598.2	596.3	594.4	596.3	598.2	600.2
137.5°	643.5	643.1	642.6	641.6	640.1	638.4	636.8	635.3	636.8	638.4	640.1
140°	669.2	668.3	667.4	666.2	664.6	663.1	661.5	659.9	661.5	663.1	664.6
142.5°	693.8	693.2	692.6	691.5	689.9	688.3	686.7	685.2	686.7	688.3	689.9
145°	729.6	728.6	727.5	726.4	725.2	724.0	722.7	721.4	722.7	724.0	725.2
147.5°	762.2	761.5	760.8	759.7	758.2	756.8	755.3	753.9	755.3	756.8	758.2
150°	782.4	781.7	781.0	780.1	779.1	778.0	777.0	776.0	777.0	778.0	779.1
152.5°	802.3	801.5	800.6	799.7	798.7	797.6	796.6	795.5	796.6	797.6	798.7
155°	828.6	828.0	827.5	827.0	826.5	826.0	825.4	824.9	825.4	826.0	826.5
157.5°	852.3	852.0	851.7	851.4	851.0	850.7	850.3	850.0	850.3	850.7	851.0
160°	867.2	867.0	866.8	866.6	866.2	865.9	865.5	865.2	865.5	865.9	866.2
162.5°	879.8	879.6	879.4	879.3	879.2	879.2	879.1	879.0	879.1	879.2	879.2
165°	896.7	896.7	896.7	896.8	897.0	897.2	897.4	897.5	897.4	897.2	897.0
167.5°	910.5	910.6	910.6	910.9	911.4	911.9	912.4	912.9	912.4	911.9	911.4
170°	918.4	918.6	918.7	919.1	919.6	920.1	920.7	921.2	920.7	920.1	919.6
172.5°	924.0	924.2	924.4	924.7	925.2	925.8	926.3	926.9	926.3	925.8	925.2
175°	930.6	930.9	931.3	931.7	932.2	932.7	933.3	933.8	933.3	932.7	932.2
177.5°	934.0	934.3	934.6	934.9	935.3	935.8	936.2	936.6	936.2	935.8	935.3
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331718-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	12.0	12.1	11.8	12.5	13.3	13.5	13.5	12.9	12.8	12.7	12.2
90°	9.2	12.2	16.1	19.9	23.7	27.7	27.3	27.0	26.6	26.3	26.2
92.5°	20.2	21.4	22.3	23.2	24.2	25.1	25.1	25.2	25.3	25.3	25.4
95°	48.1	49.1	49.5	49.8	50.2	50.5	50.5	50.5	50.5	50.5	50.4
97.5°	81.2	82.3	82.9	83.6	84.2	84.9	84.9	84.9	84.9	84.9	84.9
100°	105.8	106.8	107.3	107.9	108.4	109.0	109.0	109.0	109.0	109.0	108.9
102.5°	131.3	132.2	132.8	133.5	134.1	134.8	134.9	135.1	135.2	135.4	135.3
105°	171.8	172.3	172.6	173.0	173.3	173.7	174.0	174.4	174.7	175.1	175.2
107.5°	216.0	216.4	216.4	216.4	216.4	216.4	216.6	216.7	216.8	217.0	216.7
110°	245.0	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.2



TEST NUMBER: P331718-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	275.3	275.7	275.6	275.5	275.3	275.2	274.8	274.3	273.9	273.5	273.1
115°	319.9	320.3	319.9	319.6	319.2	318.9	318.7	318.5	318.4	318.2	317.8
117.5°	365.9	366.1	365.1	364.2	363.1	362.1	361.7	361.3	360.9	360.4	360.0
120°	395.6	395.6	394.2	392.7	391.3	389.9	389.9	389.9	389.9	389.9	389.7
122.5°	423.8	424.1	423.2	422.2	421.2	420.2	419.8	419.4	419.0	418.6	418.2
125°	465.7	466.3	465.7	465.1	464.6	464.1	463.6	463.1	462.5	462.0	461.7
127.5°	508.6	509.3	508.7	508.1	507.4	506.8	506.1	505.5	504.8	504.2	503.6
130°	535.6	536.5	536.2	535.8	535.5	535.2	534.8	534.5	534.1	533.8	533.2
132.5°	563.0	563.9	564.0	564.1	564.1	564.2	563.5	562.7	561.9	561.2	560.5
135°	602.1	603.2	603.6	603.9	604.3	604.6	604.5	604.3	604.1	603.9	603.6
137.5°	641.6	642.6	643.1	643.5	644.0	644.4	644.3	644.2	644.0	643.9	643.5
140°	666.2	667.4	668.3	669.2	670.0	671.0	671.0	671.0	671.0	671.0	670.6
142.5°	691.5	692.6	693.2	693.8	694.4	695.0	695.1	695.2	695.4	695.5	695.2
145°	726.4	727.5	728.6	729.6	730.6	731.7	732.0	732.1	732.3	732.5	732.2
147.5°	759.7	760.8	761.5	762.2	763.0	763.7	764.0	764.4	764.8	765.2	765.1
150°	780.1	781.0	781.7	782.4	783.2	783.9	784.4	784.9	785.4	786.0	786.0
152.5°	799.7	800.6	801.5	802.3	803.1	804.1	804.7	805.4	806.1	806.7	806.7
155°	827.0	827.5	828.0	828.6	829.1	829.6	830.5	831.3	832.2	833.1	833.3
157.5°	851.4	851.7	852.0	852.3	852.6	852.9	854.1	855.4	856.6	857.8	857.9
160°	866.6	866.8	867.0	867.2	867.4	867.5	868.6	869.6	870.7	871.7	871.9
162.5°	879.3	879.4	879.6	879.8	880.0	880.1	881.3	882.5	883.7	884.9	885.0
165°	896.8	896.7	896.7	896.7	896.7	896.7	898.0	899.2	900.4	901.6	901.8
167.5°	910.9	910.6	910.6	910.5	910.5	910.4	911.7	912.9	914.1	915.3	915.5
170°	919.1	918.7	918.6	918.4	918.2	918.0	919.3	920.5	921.7	922.9	923.0
172.5°	924.7	924.4	924.2	924.0	923.9	923.7	924.9	926.1	927.4	928.6	928.7
175°	931.7	931.3	930.9	930.6	930.2	929.9	931.1	932.3	933.5	934.7	934.8
177.5°	934.9	934.6	934.3	934.0	933.7	933.5	934.3	935.1	936.0	936.9	936.9
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331718-840  
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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	12.2	11.7	12.3	11.8	12.3	11.7	12.2	12.2	12.7	12.8	12.9
90°	26.4	26.5	26.7	26.9	26.7	26.5	26.4	26.2	26.3	26.6	27.0
92.5°	25.4	25.5	25.5	25.5	25.5	25.5	25.4	25.4	25.3	25.3	25.2
95°	50.0	49.7	49.3	49.0	49.3	49.7	50.0	50.4	50.5	50.5	50.5
97.5°	84.9	84.8	84.8	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9
100°	108.7	108.5	108.4	108.2	108.4	108.5	108.7	108.9	109.0	109.0	109.0
102.5°	135.2	135.0	134.8	134.6	134.8	135.0	135.2	135.3	135.4	135.2	135.1
105°	175.2	175.2	175.2	175.2	175.2	175.2	175.2	175.2	175.1	174.7	174.4
107.5°	215.9	215.1	214.3	213.5	214.3	215.1	215.9	216.7	217.0	216.8	216.7
110°	244.7	244.2	243.7	243.1	243.7	244.2	244.7	245.2	245.5	245.5	245.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	272.7	272.3	272.0	271.6	272.0	272.3	272.7	273.1	273.5	273.9	274.3
115°	317.3	316.8	316.3	315.8	316.3	316.8	317.3	317.8	318.2	318.4	318.5
117.5°	359.5	358.9	358.4	357.9	358.4	358.9	359.5	360.0	360.4	360.9	361.3
120°	389.1	388.6	388.1	387.6	388.1	388.6	389.1	389.7	389.9	389.9	389.9
122.5°	417.8	417.4	417.0	416.7	417.0	417.4	417.8	418.2	418.6	419.0	419.4
125°	461.5	461.3	461.2	461.0	461.2	461.3	461.5	461.7	462.0	462.5	463.1
127.5°	503.1	502.5	502.0	501.4	502.0	502.5	503.1	503.6	504.2	504.8	505.5
130°	532.5	531.9	531.2	530.5	531.2	531.9	532.5	533.2	533.8	534.1	534.5
132.5°	559.9	559.4	558.8	558.3	558.8	559.4	559.9	560.5	561.2	561.9	562.7
135°	603.1	602.6	602.0	601.5	602.0	602.6	603.1	603.6	603.9	604.1	604.3
137.5°	642.8	642.1	641.4	640.7	641.4	642.1	642.8	643.5	643.9	644.0	644.2
140°	669.9	669.2	668.5	667.8	668.5	669.2	669.9	670.6	671.0	671.0	671.0
142.5°	694.5	693.8	693.2	692.5	693.2	693.8	694.5	695.2	695.5	695.4	695.2
145°	731.4	730.7	730.0	729.3	730.0	730.7	731.4	732.2	732.5	732.3	732.1
147.5°	764.4	763.7	763.1	762.3	763.1	763.7	764.4	765.1	765.2	764.8	764.4
150°	785.4	784.9	784.4	783.9	784.4	784.9	785.4	786.0	786.0	785.4	784.9
152.5°	806.1	805.4	804.7	804.1	804.7	805.4	806.1	806.7	806.7	806.1	805.4
155°	832.7	832.2	831.7	831.2	831.7	832.2	832.7	833.3	833.1	832.2	831.3
157.5°	857.1	856.3	855.4	854.5	855.4	856.3	857.1	857.9	857.8	856.6	855.4
160°	871.2	870.5	869.8	869.1	869.8	870.5	871.2	871.9	871.7	870.7	869.6
162.5°	884.2	883.4	882.5	881.7	882.5	883.4	884.2	885.0	884.9	883.7	882.5
165°	900.9	900.0	899.2	898.3	899.2	900.0	900.9	901.8	901.6	900.4	899.2
167.5°	914.6	913.7	912.8	911.9	912.8	913.7	914.6	915.5	915.3	914.1	912.9
170°	922.0	920.9	919.9	918.8	919.9	920.9	922.0	923.0	922.9	921.7	920.5
172.5°	927.7	926.6	925.5	924.5	925.5	926.6	927.7	928.7	928.6	927.4	926.1
175°	933.8	932.7	931.7	930.7	931.7	932.7	933.8	934.8	934.7	933.5	932.3
177.5°	936.0	935.1	934.3	933.5	934.3	935.1	936.0	936.9	936.9	936.0	935.1
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	13.5	13.5	13.3	12.5	11.8	12.1	12.0	12.1	12.8	13.9	15.7
90°	27.3	27.7	23.7	19.9	16.1	12.2	9.2	7.1	5.0	2.9	0.8
92.5°	25.1	25.1	24.2	23.2	22.3	21.4	20.2	18.7	17.2	15.6	14.0
95°	50.5	50.5	50.2	49.8	49.5	49.1	48.1	46.4	44.5	42.8	41.0
97.5°	84.9	84.9	84.2	83.6	82.9	82.3	81.2	79.6	78.1	76.5	75.0
100°	109.0	109.0	108.4	107.9	107.3	106.8	105.8	104.4	103.0	101.7	100.3
102.5°	134.9	134.8	134.1	133.5	132.8	132.2	131.3	130.2	129.1	127.8	126.7
105°	174.0	173.7	173.3	173.0	172.6	172.3	171.8	171.3	170.8	170.3	169.8
107.5°	216.6	216.4	216.4	216.4	216.4	216.4	216.0	215.3	214.5	213.8	213.0
110°	245.5	245.5	245.5	245.5	245.5	245.5	245.0	243.9	242.9	241.8	240.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.8	275.2	275.3	275.5	275.6	275.7	275.3	274.2	273.2	272.2	271.0
115°	318.7	318.9	319.2	319.6	319.9	320.3	319.9	318.9	317.8	316.8	315.8
117.5°	361.7	362.1	363.1	364.2	365.1	366.1	365.9	364.5	363.0	361.6	360.2
120°	389.9	389.9	391.3	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9
122.5°	419.8	420.2	421.2	422.2	423.2	424.1	423.8	422.1	420.5	418.8	417.1
125°	463.6	464.1	464.6	465.1	465.7	466.3	465.7	464.1	462.5	461.0	459.4
127.5°	506.1	506.8	507.4	508.1	508.7	509.3	508.6	506.6	504.6	502.6	500.6
130°	534.8	535.2	535.5	535.8	536.2	536.5	535.6	533.3	531.1	528.8	526.5
132.5°	563.5	564.2	564.1	564.1	564.0	563.9	563.0	561.1	559.3	557.4	555.5
135°	604.5	604.6	604.3	603.9	603.6	603.2	602.1	600.2	598.2	596.3	594.4
137.5°	644.3	644.4	644.0	643.5	643.1	642.6	641.6	640.1	638.4	636.8	635.3
140°	671.0	671.0	670.0	669.2	668.3	667.4	666.2	664.6	663.1	661.5	659.9
142.5°	695.1	695.0	694.4	693.8	693.2	692.6	691.5	689.9	688.3	686.7	685.2
145°	732.0	731.7	730.6	729.6	728.6	727.5	726.4	725.2	724.0	722.7	721.4
147.5°	764.0	763.7	763.0	762.2	761.5	760.8	759.7	758.2	756.8	755.3	753.9
150°	784.4	783.9	783.2	782.4	781.7	781.0	780.1	779.1	778.0	777.0	776.0
152.5°	804.7	804.1	803.1	802.3	801.5	800.6	799.7	798.7	797.6	796.6	795.5
155°	830.5	829.6	829.1	828.6	828.0	827.5	827.0	826.5	826.0	825.4	824.9
157.5°	854.1	852.9	852.6	852.3	852.0	851.7	851.4	851.0	850.7	850.3	850.0
160°	868.6	867.5	867.4	867.2	867.0	866.8	866.6	866.2	865.9	865.5	865.2
162.5°	881.3	880.1	880.0	879.8	879.6	879.4	879.3	879.2	879.2	879.1	879.0
165°	898.0	896.7	896.7	896.7	896.7	896.7	896.8	897.0	897.2	897.4	897.5
167.5°	911.7	910.4	910.5	910.5	910.6	910.6	910.9	911.4	911.9	912.4	912.9
170°	919.3	918.0	918.2	918.4	918.6	918.7	919.1	919.6	920.1	920.7	921.2
172.5°	924.9	923.7	923.9	924.0	924.2	924.4	924.7	925.2	925.8	926.3	926.9
175°	931.1	929.9	930.2	930.6	930.9	931.3	931.7	932.2	932.7	933.3	933.8
177.5°	934.3	933.5	933.7	934.0	934.3	934.6	934.9	935.3	935.8	936.2	936.6
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



TEST NUMBER: P331718-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.4	11.2	11.1	10.9	12.1	12.8	13.1	13.8	15.1	14.5	15.0
90°	2.9	5.0	7.1	9.2	12.2	16.1	19.9	23.7	27.7	27.3	27.0
92.5°	15.6	17.2	18.7	20.2	21.4	22.3	23.2	24.2	25.1	25.1	25.2
95°	42.8	44.5	46.4	48.1	49.1	49.5	49.8	50.2	50.5	50.5	50.5
97.5°	76.5	78.1	79.6	81.2	82.3	82.9	83.6	84.2	84.9	84.9	84.9
100°	101.7	103.0	104.4	105.8	106.8	107.3	107.9	108.4	109.0	109.0	109.0
102.5°	127.8	129.1	130.2	131.3	132.2	132.8	133.5	134.1	134.8	134.9	135.1
105°	170.3	170.8	171.3	171.8	172.3	172.6	173.0	173.3	173.7	174.0	174.4
107.5°	213.8	214.5	215.3	216.0	216.4	216.4	216.4	216.4	216.4	216.6	216.7
110°	241.8	242.9	243.9	245.0	245.5	245.5	245.5	245.5	245.5	245.5	245.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	272.2	273.2	274.2	275.3	275.7	275.6	275.5	275.3	275.2	274.8	274.3
115°	316.8	317.8	318.9	319.9	320.3	319.9	319.6	319.2	318.9	318.7	318.5
117.5°	361.6	363.0	364.5	365.9	366.1	365.1	364.2	363.1	362.1	361.7	361.3
120°	391.3	392.7	394.2	395.6	395.6	394.2	392.7	391.3	389.9	389.9	389.9
122.5°	418.8	420.5	422.1	423.8	424.1	423.2	422.2	421.2	420.2	419.8	419.4
125°	461.0	462.5	464.1	465.7	466.3	465.7	465.1	464.6	464.1	463.6	463.1
127.5°	502.6	504.6	506.6	508.6	509.3	508.7	508.1	507.4	506.8	506.1	505.5
130°	528.8	531.1	533.3	535.6	536.5	536.2	535.8	535.5	535.2	534.8	534.5
132.5°	557.4	559.3	561.1	563.0	563.9	564.0	564.1	564.1	564.2	563.5	562.7
135°	596.3	598.2	600.2	602.1	603.2	603.6	603.9	604.3	604.6	604.5	604.3
137.5°	636.8	638.4	640.1	641.6	642.6	643.1	643.5	644.0	644.4	644.3	644.2
140°	661.5	663.1	664.6	666.2	667.4	668.3	669.2	670.0	671.0	671.0	671.0
142.5°	686.7	688.3	689.9	691.5	692.6	693.2	693.8	694.4	695.0	695.1	695.2
145°	722.7	724.0	725.2	726.4	727.5	728.6	729.6	730.6	731.7	732.0	732.1
147.5°	755.3	756.8	758.2	759.7	760.8	761.5	762.2	763.0	763.7	764.0	764.4
150°	777.0	778.0	779.1	780.1	781.0	781.7	782.4	783.2	783.9	784.4	784.9
152.5°	796.6	797.6	798.7	799.7	800.6	801.5	802.3	803.1	804.1	804.7	805.4
155°	825.4	826.0	826.5	827.0	827.5	828.0	828.6	829.1	829.6	830.5	831.3
157.5°	850.3	850.7	851.0	851.4	851.7	852.0	852.3	852.6	852.9	854.1	855.4
160°	865.5	865.9	866.2	866.6	866.8	867.0	867.2	867.4	867.5	868.6	869.6
162.5°	879.1	879.2	879.2	879.3	879.4	879.6	879.8	880.0	880.1	881.3	882.5
165°	897.4	897.2	897.0	896.8	896.7	896.7	896.7	896.7	896.7	898.0	899.2
167.5°	912.4	911.9	911.4	910.9	910.6	910.6	910.5	910.5	910.4	911.7	912.9
170°	920.7	920.1	919.6	919.1	918.7	918.6	918.4	918.2	918.0	919.3	920.5
172.5°	926.3	925.8	925.2	924.7	924.4	924.2	924.0	923.9	923.7	924.9	926.1
175°	933.3	932.7	932.2	931.7	931.3	930.9	930.6	930.2	929.9	931.1	932.3
177.5°	936.2	935.8	935.3	934.9	934.6	934.3	934.0	933.7	933.5	934.3	935.1
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	14.4	14.3	14.3	14.3	14.4	14.4	13.9
90°	26.6	26.3	26.2	26.4	26.5	26.7	26.9
92.5°	25.3	25.3	25.4	25.4	25.5	25.5	25.5
95°	50.5	50.5	50.4	50.0	49.7	49.3	49.0
97.5°	84.9	84.9	84.9	84.9	84.8	84.8	84.7
100°	109.0	109.0	108.9	108.7	108.5	108.4	108.2
102.5°	135.2	135.4	135.3	135.2	135.0	134.8	134.6
105°	174.7	175.1	175.2	175.2	175.2	175.2	175.2
107.5°	216.8	217.0	216.7	215.9	215.1	214.3	213.5
110°	245.5	245.5	245.2	244.7	244.2	243.7	243.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	273.9	273.5	273.1	272.7	272.3	272.0	271.6
115°	318.4	318.2	317.8	317.3	316.8	316.3	315.8
117.5°	360.9	360.4	360.0	359.5	358.9	358.4	357.9
120°	389.9	389.9	389.7	389.1	388.6	388.1	387.6
122.5°	419.0	418.6	418.2	417.8	417.4	417.0	416.7
125°	462.5	462.0	461.7	461.5	461.3	461.2	461.0
127.5°	504.8	504.2	503.6	503.1	502.5	502.0	501.4
130°	534.1	533.8	533.2	532.5	531.9	531.2	530.5
132.5°	561.9	561.2	560.5	559.9	559.4	558.8	558.3
135°	604.1	603.9	603.6	603.1	602.6	602.0	601.5
137.5°	644.0	643.9	643.5	642.8	642.1	641.4	640.7
140°	671.0	671.0	670.6	669.9	669.2	668.5	667.8
142.5°	695.4	695.5	695.2	694.5	693.8	693.2	692.5
145°	732.3	732.5	732.2	731.4	730.7	730.0	729.3
147.5°	764.8	765.2	765.1	764.4	763.7	763.1	762.3
150°	785.4	786.0	786.0	785.4	784.9	784.4	783.9
152.5°	806.1	806.7	806.7	806.1	805.4	804.7	804.1
155°	832.2	833.1	833.3	832.7	832.2	831.7	831.2
157.5°	856.6	857.8	857.9	857.1	856.3	855.4	854.5
160°	870.7	871.7	871.9	871.2	870.5	869.8	869.1
162.5°	883.7	884.9	885.0	884.2	883.4	882.5	881.7
165°	900.4	901.6	901.8	900.9	900.0	899.2	898.3
167.5°	914.1	915.3	915.5	914.6	913.7	912.8	911.9
170°	921.7	922.9	923.0	922.0	920.9	919.9	918.8
172.5°	927.4	928.6	928.7	927.7	926.6	925.5	924.5
175°	933.5	934.7	934.8	933.8	932.7	931.7	930.7
177.5°	936.0	936.9	936.9	936.0	935.1	934.3	933.5
180°	935.3	935.3	935.3	935.3	935.3	935.3	935.3

(END OF REPORT)