

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: P331725-840

Luminaire Tested: **SA2XXRDIP-C865D925U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331725-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

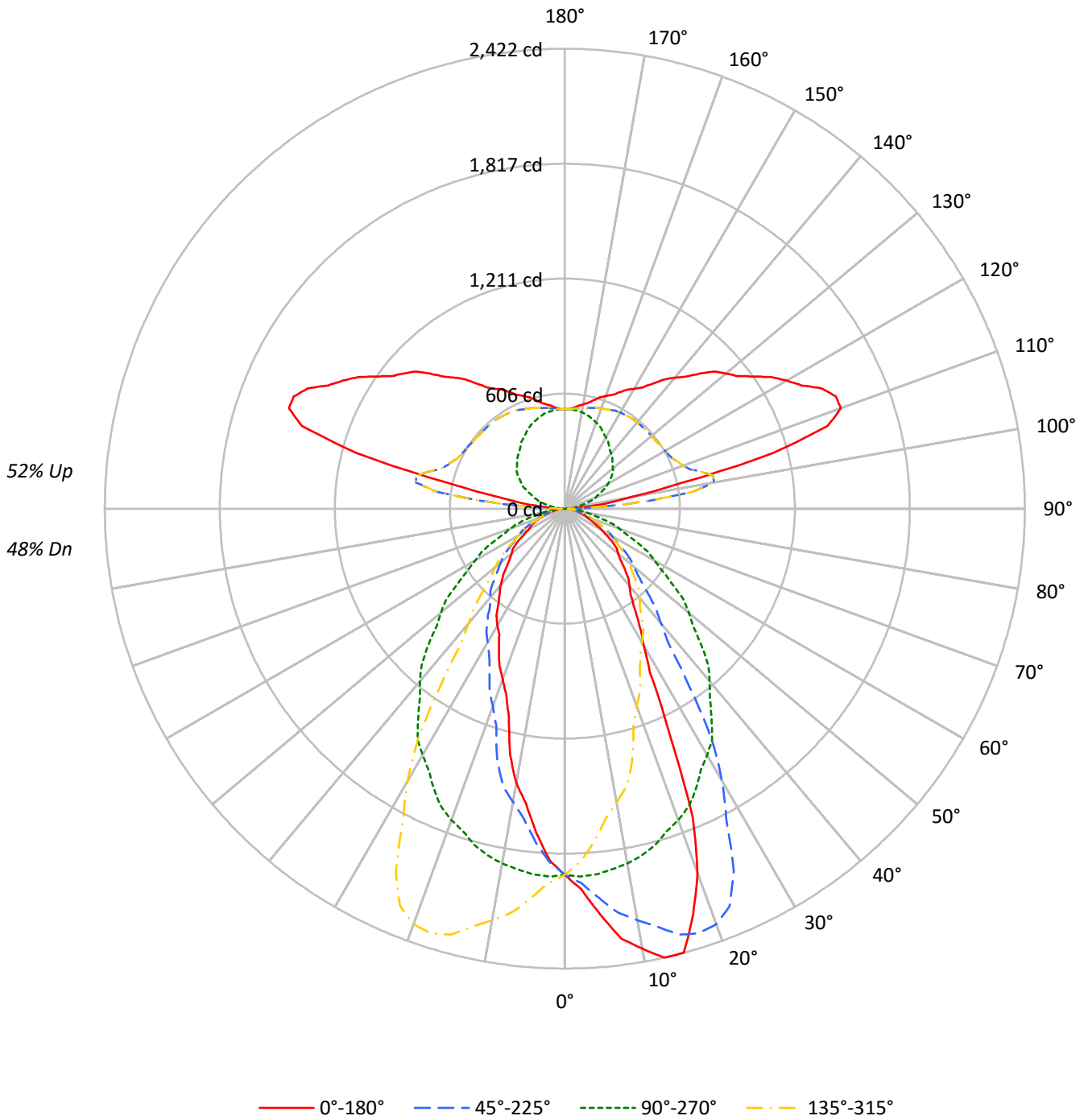
Lumens per Lamp: N/A  
Luminaire Lumens: 6984.4 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				
1	98	94	90	87	90	87	84	81	73	71	69	60	59	58	49	48	47	42				
2	90	83	77	72	83	77	72	68	65	61	58	54	52	49	44	42	41	36				
3	83	74	67	61	76	68	62	57	58	54	50	49	45	43	40	38	36	32				
4	76	66	58	53	70	61	55	49	52	47	43	44	40	37	36	34	32	28				
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25				
6	65	53	46	40	60	50	43	38	43	38	34	36	32	29	30	27	25	22				
7	60	48	41	36	55	45	38	34	39	34	30	33	29	26	28	25	23	20				
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18				
9	52	41	33	29	48	38	32	27	33	28	24	28	24	22	24	21	19	17				
10	49	37	30	26	45	35	29	25	31	26	22	26	23	20	22	20	17	16				

**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	2.6
10°-20°	509.4	7.3
20°-30°	656.4	9.4
30°-40°	623.8	8.9
40°-50°	534.4	7.7
50°-60°	406.9	5.8
60°-70°	257.2	3.7
70°-80°	128.5	1.8
80°-90°	38.1	0.5
90°-100°	209.6	3.0
100°-110°	711.1	10.2
110°-120°	755.5	10.8
120°-130°	621.9	8.9
130°-140°	499.4	7.2
140°-150°	377.4	5.4
150°-160°	265.2	3.8
160°-170°	156.1	2.2
170°-180°	50.8	0.7
0°-30°	1348.5	19.3
0°-40°	1972.3	28.2
0°-60°	2913.6	41.7
0°-90°	3337.4	47.8
90°-120°	1676.1	24.0
90°-150°	3174.8	45.5
90°-180°	3647.0	52.2
0°-180°	6984.4	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°	33	1	33	1	33	19
95°	115	35	115	35	115	149
105°	1136	123	1136	123	1136	1099
115°	1495	217	1495	217	1495	1464
125°	1212	302	1212	302	1212	1096
135°	1005	355	1005	355	1005	781
145°	802	405	802	405	802	510
155°	674	461	674	461	674	315
165°	592	502	592	502	592	169
175°	533	523	533	523	533	52
180°	524	524	524	524	524	



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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°	15.2	15.8	15.8	15.8	15.8	15.6	15.1	16.1	15.8	16.5	15.8
90°	33.2	33.2	33.2	33.2	33.2	32.2	30.2	32.2	33.2	34.2	33.2
92.5°	55.8	57.5	56.7	59.9	60.7	67.0	75.4	87.9	110.7	131.0	129.2
95°	114.9	113.9	116.9	125.0	138.0	160.3	202.6	264.1	345.7	395.1	349.7
97.5°	226.2	234.6	249.3	274.2	322.3	395.1	504.1	616.2	707.5	674.5	508.0
100°	360.8	379.0	408.2	451.5	535.2	657.1	795.2	920.2	941.4	796.2	548.3
102.5°	635.0	659.5	696.0	770.0	860.9	990.2	1091.2	1119.3	1028.4	800.2	533.0
105°	1135.9	1149.9	1193.4	1255.8	1318.3	1351.6	1338.5	1224.6	1014.9	746.8	502.9
107.5°	1451.0	1469.7	1478.3	1481.8	1473.9	1425.1	1320.3	1148.8	926.5	689.6	488.0
110°	1546.1	1547.1	1538.0	1518.8	1475.5	1392.9	1263.8	1083.5	870.8	662.2	484.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1544.5	1539.0	1521.9	1489.9	1429.6	1334.8	1197.0	1023.8	832.1	644.4	485.5
115°	1494.7	1485.6	1459.4	1413.0	1341.5	1237.7	1105.6	950.4	784.2	624.9	489.8
117.5°	1405.7	1398.2	1370.5	1321.5	1248.6	1151.1	1031.5	895.1	753.9	615.4	497.1
120°	1348.6	1338.5	1309.2	1261.8	1191.3	1099.5	992.8	867.8	737.8	609.8	501.9
122.5°	1288.9	1280.4	1254.4	1207.8	1144.6	1061.7	960.5	846.0	724.1	606.5	507.6
125°	1212.4	1204.4	1179.2	1140.9	1082.5	1006.8	918.2	814.4	704.5	600.7	516.0
127.5°	1145.6	1139.1	1117.3	1081.5	1030.5	960.7	877.1	783.2	686.4	597.2	524.7
130°	1107.6	1099.5	1079.4	1045.2	995.8	929.3	849.6	763.0	674.3	595.6	531.2
132.5°	1068.1	1060.9	1042.4	1008.0	959.5	897.0	823.8	743.6	664.6	594.8	537.6
135°	1004.8	1000.8	982.7	949.4	906.1	849.6	783.2	716.6	651.1	593.6	545.2
137.5°	942.8	936.8	920.8	892.2	852.6	803.4	750.6	695.0	641.6	593.4	552.1
140°	900.0	894.0	878.9	852.6	820.4	776.1	729.7	681.4	636.0	592.6	555.3
142.5°	857.3	856.1	842.6	818.8	788.2	751.0	711.1	670.0	630.4	592.6	557.7
145°	802.2	799.2	789.2	772.0	747.8	718.6	687.4	654.1	622.9	590.6	560.4
147.5°	756.1	754.3	747.4	733.8	713.8	692.4	668.0	641.8	615.2	587.0	561.2
150°	728.7	727.7	721.6	709.5	694.4	676.3	655.1	633.0	608.7	584.6	560.4
152.5°	705.3	705.1	700.6	690.1	678.3	662.6	644.6	624.1	603.1	580.6	558.8
155°	674.3	676.3	672.3	665.2	654.1	643.0	627.9	611.8	592.6	573.5	556.3
157.5°	647.8	647.8	646.0	640.2	632.4	623.7	611.0	597.4	582.8	566.2	551.7
160°	631.0	631.0	630.0	624.9	617.8	610.8	599.7	588.5	575.5	561.4	549.3
162.5°	614.8	615.6	614.6	611.2	604.1	598.6	589.2	579.8	569.1	557.3	546.8
165°	591.6	592.6	592.6	588.5	584.6	580.6	573.5	566.4	558.4	549.3	542.2
167.5°	570.3	571.5	571.7	569.5	567.6	564.0	559.2	553.7	547.9	542.2	537.6
170°	557.3	559.4	560.4	557.3	556.3	554.3	550.3	547.2	542.2	538.2	535.2
172.5°	546.8	548.1	549.1	547.6	546.6	545.4	542.2	540.0	536.6	533.4	532.0
175°	533.2	535.2	536.2	535.2	535.2	534.2	533.2	532.2	529.2	528.2	527.1
177.5°	524.9	526.5	527.4	527.4	527.4	527.4	526.5	526.5	524.9	524.1	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



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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°	14.5	13.6	12.6	11.5	11.7	11.8	13.6	15.8	14.2	13.4	12.7
90°	27.2	20.2	15.1	12.1	10.1	8.1	4.0	1.0	4.0	8.1	10.1
92.5°	100.6	68.6	45.7	36.3	29.4	25.0	17.8	12.3	17.8	25.0	29.4
95°	232.8	145.1	98.8	74.6	58.5	49.4	39.3	35.2	39.3	49.4	58.5
97.5°	313.7	191.5	133.2	105.8	87.3	73.6	62.9	57.5	62.9	73.6	87.3
100°	330.6	207.6	154.2	126.0	105.8	89.7	80.6	77.6	80.6	89.7	105.8
102.5°	331.4	222.2	172.8	144.5	123.6	107.4	98.4	96.1	98.4	107.4	123.6
105°	336.6	246.9	199.5	171.4	149.2	134.0	127.0	123.0	127.0	134.0	149.2
107.5°	350.5	272.4	226.4	197.9	176.0	162.1	155.2	152.0	155.2	162.1	176.0
110°	361.8	289.2	244.9	215.7	194.5	181.4	175.4	171.4	175.4	181.4	194.5





TEST NUMBER: P331725-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	374.0	305.4	262.7	232.6	212.3	200.0	193.1	189.0	193.1	200.0	212.3
115°	392.0	330.6	287.2	260.0	239.8	227.8	221.8	216.7	221.8	227.8	239.8
117.5°	411.4	353.8	313.7	285.4	266.1	255.4	249.3	245.3	249.3	255.4	266.1
120°	424.3	369.9	330.6	302.4	282.2	273.2	267.1	263.1	267.1	273.2	282.2
122.5°	435.6	385.2	348.3	319.3	299.1	289.2	283.2	280.0	283.2	289.2	299.1
125°	453.5	408.2	371.9	343.7	323.6	311.4	305.4	302.4	305.4	311.4	323.6
127.5°	470.3	429.6	394.3	365.3	345.9	332.5	324.2	320.1	324.2	332.5	345.9
130°	480.8	442.4	407.2	379.0	358.8	344.7	334.6	330.6	334.6	344.7	358.8
132.5°	491.2	453.7	420.1	391.8	370.9	356.0	345.1	340.2	345.1	356.0	370.9
135°	504.9	469.7	437.4	409.2	386.0	370.9	358.8	354.8	358.8	370.9	386.0
137.5°	515.4	482.6	450.7	424.5	401.5	385.4	373.3	368.5	373.3	385.4	401.5
140°	521.1	489.8	459.6	433.4	411.2	395.1	383.0	379.0	383.0	395.1	411.2
142.5°	525.9	495.4	466.1	441.4	420.1	403.9	392.6	389.4	392.6	403.9	420.1
145°	532.2	503.9	476.8	454.5	434.4	419.3	409.2	405.2	409.2	419.3	434.4
147.5°	535.6	510.8	485.2	465.4	448.7	434.7	425.2	422.1	425.2	434.7	448.7
150°	537.1	514.0	490.8	472.7	457.6	444.4	436.4	433.4	436.4	444.4	457.6
152.5°	538.0	517.3	496.4	480.0	465.6	454.1	446.1	444.6	446.1	454.1	465.6
155°	539.2	522.1	504.9	489.8	478.8	467.7	461.6	460.6	461.6	467.7	478.8
157.5°	539.2	525.5	511.0	498.3	489.4	479.8	474.9	473.9	474.9	479.8	489.4
160°	539.2	527.1	515.0	503.9	495.8	487.8	483.8	482.8	483.8	487.8	495.8
162.5°	538.4	528.0	517.5	508.8	501.5	495.0	491.0	491.6	491.0	495.0	501.5
165°	536.2	529.2	520.1	514.0	509.0	502.9	500.9	501.9	500.9	502.9	509.0
167.5°	534.8	529.0	522.3	518.5	514.8	511.0	509.2	510.4	509.2	511.0	514.8
170°	533.2	528.2	523.1	520.1	518.1	515.0	514.0	516.0	514.0	515.0	518.1
172.5°	530.8	527.4	523.9	521.7	520.5	517.5	518.1	519.3	518.1	517.5	520.5
175°	528.2	526.1	524.1	523.1	523.1	521.1	522.1	523.1	522.1	521.1	523.1
177.5°	526.5	524.9	524.1	524.1	524.1	522.5	523.3	524.9	523.3	522.5	524.1
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331725-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A4

**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°	12.6	12.6	12.6	14.0	15.2	14.8	14.6	13.9	13.5	13.9	13.6
90°	12.1	15.1	20.2	27.2	33.2	34.2	33.2	32.2	30.2	32.2	33.2
92.5°	36.3	45.7	68.6	100.6	129.2	131.0	110.7	87.9	75.4	67.0	60.7
95°	74.6	98.8	145.1	232.8	349.7	395.1	345.7	264.1	202.6	160.3	138.0
97.5°	105.8	133.2	191.5	313.7	508.0	674.5	707.5	616.2	504.1	395.1	322.3
100°	126.0	154.2	207.6	330.6	548.3	796.2	941.4	920.2	795.2	657.1	535.2
102.5°	144.5	172.8	222.2	331.4	533.0	800.2	1028.4	1119.3	1091.2	990.2	860.9
105°	171.4	199.5	246.9	336.6	502.9	746.8	1014.9	1224.6	1338.5	1351.6	1318.3
107.5°	197.9	226.4	272.4	350.5	488.0	689.6	926.5	1148.8	1320.3	1425.1	1473.9
110°	215.7	244.9	289.2	361.8	484.8	662.2	870.8	1083.5	1263.8	1392.9	1475.5



TEST NUMBER: P331725-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	232.6	262.7	305.4	374.0	485.5	644.4	832.1	1023.8	1197.0	1334.8	1429.6
115°	260.0	287.2	330.6	392.0	489.8	624.9	784.2	950.4	1105.6	1237.7	1341.5
117.5°	285.4	313.7	353.8	411.4	497.1	615.4	753.9	895.1	1031.5	1151.1	1248.6
120°	302.4	330.6	369.9	424.3	501.9	609.8	737.8	867.8	992.8	1099.5	1191.3
122.5°	319.3	348.3	385.2	435.6	507.6	606.5	724.1	846.0	960.5	1061.7	1144.6
125°	343.7	371.9	408.2	453.5	516.0	600.7	704.5	814.4	918.2	1006.8	1082.5
127.5°	365.3	394.3	429.6	470.3	524.7	597.2	686.4	783.2	877.1	960.7	1030.5
130°	379.0	407.2	442.4	480.8	531.2	595.6	674.3	763.0	849.6	929.3	995.8
132.5°	391.8	420.1	453.7	491.2	537.6	594.8	664.6	743.6	823.8	897.0	959.5
135°	409.2	437.4	469.7	504.9	545.2	593.6	651.1	716.6	783.2	849.6	906.1
137.5°	424.5	450.7	482.6	515.4	552.1	593.4	641.6	695.0	750.6	803.4	852.6
140°	433.4	459.6	489.8	521.1	555.3	592.6	636.0	681.4	729.7	776.1	820.4
142.5°	441.4	466.1	495.4	525.9	557.7	592.6	630.4	670.0	711.1	751.0	788.2
145°	454.5	476.8	503.9	532.2	560.4	590.6	622.9	654.1	687.4	718.6	747.8
147.5°	465.4	485.2	510.8	535.6	561.2	587.0	615.2	641.8	668.0	692.4	713.8
150°	472.7	490.8	514.0	537.1	560.4	584.6	608.7	633.0	655.1	676.3	694.4
152.5°	480.0	496.4	517.3	538.0	558.8	580.6	603.1	624.1	644.6	662.6	678.3
155°	489.8	504.9	522.1	539.2	556.3	573.5	592.6	611.8	627.9	643.0	654.1
157.5°	498.3	511.0	525.5	539.2	551.7	566.2	582.8	597.4	611.0	623.7	632.4
160°	503.9	515.0	527.1	539.2	549.3	561.4	575.5	588.5	599.7	610.8	617.8
162.5°	508.8	517.5	528.0	538.4	546.8	557.3	569.1	579.8	589.2	598.6	604.1
165°	514.0	520.1	529.2	536.2	542.2	549.3	558.4	566.4	573.5	580.6	584.6
167.5°	518.5	522.3	529.0	534.8	537.6	542.2	547.9	553.7	559.2	564.0	567.6
170°	520.1	523.1	528.2	533.2	535.2	538.2	542.2	547.2	550.3	554.3	556.3
172.5°	521.7	523.9	527.4	530.8	532.0	533.4	536.6	540.0	542.2	545.4	546.6
175°	523.1	524.1	526.1	528.2	527.1	528.2	529.2	532.2	533.2	534.2	535.2
177.5°	524.1	524.1	524.9	526.5	524.9	524.1	524.9	526.5	526.5	527.4	527.4
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331725-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A4

**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°	13.6	13.1	13.6	13.1	13.6	13.1	13.6	13.6	13.9	13.5	13.9
90°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	32.2	30.2	32.2
92.5°	59.9	56.7	57.5	55.8	57.5	56.7	59.9	60.7	67.0	75.4	87.9
95°	125.0	116.9	113.9	114.9	113.9	116.9	125.0	138.0	160.3	202.6	264.1
97.5°	274.2	249.3	234.6	226.2	234.6	249.3	274.2	322.3	395.1	504.1	616.2
100°	451.5	408.2	379.0	360.8	379.0	408.2	451.5	535.2	657.1	795.2	920.2
102.5°	770.0	696.0	659.5	635.0	659.5	696.0	770.0	860.9	990.2	1091.2	1119.3
105°	1255.8	1193.4	1149.9	1135.9	1149.9	1193.4	1255.8	1318.3	1351.6	1338.5	1224.6
107.5°	1481.8	1478.3	1469.7	1451.0	1469.7	1478.3	1481.8	1473.9	1425.1	1320.3	1148.8
110°	1518.8	1538.0	1547.1	1546.1	1547.1	1538.0	1518.8	1475.5	1392.9	1263.8	1083.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1489.9	1521.9	1539.0	1544.5	1539.0	1521.9	1489.9	1429.6	1334.8	1197.0	1023.8
115°	1413.0	1459.4	1485.6	1494.7	1485.6	1459.4	1413.0	1341.5	1237.7	1105.6	950.4
117.5°	1321.5	1370.5	1398.2	1405.7	1398.2	1370.5	1321.5	1248.6	1151.1	1031.5	895.1
120°	1261.8	1309.2	1338.5	1348.6	1338.5	1309.2	1261.8	1191.3	1099.5	992.8	867.8
122.5°	1207.8	1254.4	1280.4	1288.9	1280.4	1254.4	1207.8	1144.6	1061.7	960.5	846.0
125°	1140.9	1179.2	1204.4	1212.4	1204.4	1179.2	1140.9	1082.5	1006.8	918.2	814.4
127.5°	1081.5	1117.3	1139.1	1145.6	1139.1	1117.3	1081.5	1030.5	960.7	877.1	783.2
130°	1045.2	1079.4	1099.5	1107.6	1099.5	1079.4	1045.2	995.8	929.3	849.6	763.0
132.5°	1008.0	1042.4	1060.9	1068.1	1060.9	1042.4	1008.0	959.5	897.0	823.8	743.6
135°	949.4	982.7	1000.8	1004.8	1000.8	982.7	949.4	906.1	849.6	783.2	716.6
137.5°	892.2	920.8	936.8	942.8	936.8	920.8	892.2	852.6	803.4	750.6	695.0
140°	852.6	878.9	894.0	900.0	894.0	878.9	852.6	820.4	776.1	729.7	681.4
142.5°	818.8	842.6	856.1	857.3	856.1	842.6	818.8	788.2	751.0	711.1	670.0
145°	772.0	789.2	799.2	802.2	799.2	789.2	772.0	747.8	718.6	687.4	654.1
147.5°	733.8	747.4	754.3	756.1	754.3	747.4	733.8	713.8	692.4	668.0	641.8
150°	709.5	721.6	727.7	728.7	727.7	721.6	709.5	694.4	676.3	655.1	633.0
152.5°	690.1	700.6	705.1	705.3	705.1	700.6	690.1	678.3	662.6	644.6	624.1
155°	665.2	672.3	676.3	674.3	676.3	672.3	665.2	654.1	643.0	627.9	611.8
157.5°	640.2	646.0	647.8	647.8	647.8	646.0	640.2	632.4	623.7	611.0	597.4
160°	624.9	630.0	631.0	631.0	631.0	630.0	624.9	617.8	610.8	599.7	588.5
162.5°	611.2	614.6	615.6	614.8	615.6	614.6	611.2	604.1	598.6	589.2	579.8
165°	588.5	592.6	592.6	591.6	592.6	592.6	588.5	584.6	580.6	573.5	566.4
167.5°	569.5	571.7	571.5	570.3	571.5	571.7	569.5	567.6	564.0	559.2	553.7
170°	557.3	560.4	559.4	557.3	559.4	560.4	557.3	556.3	554.3	550.3	547.2
172.5°	547.6	549.1	548.1	546.8	548.1	549.1	547.6	546.6	545.4	542.2	540.0
175°	535.2	536.2	535.2	533.2	535.2	536.2	535.2	535.2	534.2	533.2	532.2
177.5°	527.4	527.4	526.5	524.9	526.5	527.4	527.4	527.4	527.4	526.5	526.5
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331725-840

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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°	14.6	14.8	15.2	14.0	12.6	12.6	12.6	12.7	13.4	14.2	15.8
90°	33.2	34.2	33.2	27.2	20.2	15.1	12.1	10.1	8.1	4.0	1.0
92.5°	110.7	131.0	129.2	100.6	68.6	45.7	36.3	29.4	25.0	17.8	12.3
95°	345.7	395.1	349.7	232.8	145.1	98.8	74.6	58.5	49.4	39.3	35.2
97.5°	707.5	674.5	508.0	313.7	191.5	133.2	105.8	87.3	73.6	62.9	57.5
100°	941.4	796.2	548.3	330.6	207.6	154.2	126.0	105.8	89.7	80.6	77.6
102.5°	1028.4	800.2	533.0	331.4	222.2	172.8	144.5	123.6	107.4	98.4	96.1
105°	1014.9	746.8	502.9	336.6	246.9	199.5	171.4	149.2	134.0	127.0	123.0
107.5°	926.5	689.6	488.0	350.5	272.4	226.4	197.9	176.0	162.1	155.2	152.0
110°	870.8	662.2	484.8	361.8	289.2	244.9	215.7	194.5	181.4	175.4	171.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	832.1	644.4	485.5	374.0	305.4	262.7	232.6	212.3	200.0	193.1	189.0
115°	784.2	624.9	489.8	392.0	330.6	287.2	260.0	239.8	227.8	221.8	216.7
117.5°	753.9	615.4	497.1	411.4	353.8	313.7	285.4	266.1	255.4	249.3	245.3
120°	737.8	609.8	501.9	424.3	369.9	330.6	302.4	282.2	273.2	267.1	263.1
122.5°	724.1	606.5	507.6	435.6	385.2	348.3	319.3	299.1	289.2	283.2	280.0
125°	704.5	600.7	516.0	453.5	408.2	371.9	343.7	323.6	311.4	305.4	302.4
127.5°	686.4	597.2	524.7	470.3	429.6	394.3	365.3	345.9	332.5	324.2	320.1
130°	674.3	595.6	531.2	480.8	442.4	407.2	379.0	358.8	344.7	334.6	330.6
132.5°	664.6	594.8	537.6	491.2	453.7	420.1	391.8	370.9	356.0	345.1	340.2
135°	651.1	593.6	545.2	504.9	469.7	437.4	409.2	386.0	370.9	358.8	354.8
137.5°	641.6	593.4	552.1	515.4	482.6	450.7	424.5	401.5	385.4	373.3	368.5
140°	636.0	592.6	555.3	521.1	489.8	459.6	433.4	411.2	395.1	383.0	379.0
142.5°	630.4	592.6	557.7	525.9	495.4	466.1	441.4	420.1	403.9	392.6	389.4
145°	622.9	590.6	560.4	532.2	503.9	476.8	454.5	434.4	419.3	409.2	405.2
147.5°	615.2	587.0	561.2	535.6	510.8	485.2	465.4	448.7	434.7	425.2	422.1
150°	608.7	584.6	560.4	537.1	514.0	490.8	472.7	457.6	444.4	436.4	433.4
152.5°	603.1	580.6	558.8	538.0	517.3	496.4	480.0	465.6	454.1	446.1	444.6
155°	592.6	573.5	556.3	539.2	522.1	504.9	489.8	478.8	467.7	461.6	460.6
157.5°	582.8	566.2	551.7	539.2	525.5	511.0	498.3	489.4	479.8	474.9	473.9
160°	575.5	561.4	549.3	539.2	527.1	515.0	503.9	495.8	487.8	483.8	482.8
162.5°	569.1	557.3	546.8	538.4	528.0	517.5	508.8	501.5	495.0	491.0	491.6
165°	558.4	549.3	542.2	536.2	529.2	520.1	514.0	509.0	502.9	500.9	501.9
167.5°	547.9	542.2	537.6	534.8	529.0	522.3	518.5	514.8	511.0	509.2	510.4
170°	542.2	538.2	535.2	533.2	528.2	523.1	520.1	518.1	515.0	514.0	516.0
172.5°	536.6	533.4	532.0	530.8	527.4	523.9	521.7	520.5	517.5	518.1	519.3
175°	529.2	528.2	527.1	528.2	526.1	524.1	523.1	523.1	521.1	522.1	523.1
177.5°	524.9	524.1	524.9	526.5	524.9	524.1	524.1	524.1	522.5	523.3	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



TEST NUMBER: P331725-840

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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°	13.6	11.8	11.7	11.5	12.6	13.6	14.5	15.8	16.5	15.8	16.1
90°	4.0	8.1	10.1	12.1	15.1	20.2	27.2	33.2	34.2	33.2	32.2
92.5°	17.8	25.0	29.4	36.3	45.7	68.6	100.6	129.2	131.0	110.7	87.9
95°	39.3	49.4	58.5	74.6	98.8	145.1	232.8	349.7	395.1	345.7	264.1
97.5°	62.9	73.6	87.3	105.8	133.2	191.5	313.7	508.0	674.5	707.5	616.2
100°	80.6	89.7	105.8	126.0	154.2	207.6	330.6	548.3	796.2	941.4	920.2
102.5°	98.4	107.4	123.6	144.5	172.8	222.2	331.4	533.0	800.2	1028.4	1119.3
105°	127.0	134.0	149.2	171.4	199.5	246.9	336.6	502.9	746.8	1014.9	1224.6
107.5°	155.2	162.1	176.0	197.9	226.4	272.4	350.5	488.0	689.6	926.5	1148.8
110°	175.4	181.4	194.5	215.7	244.9	289.2	361.8	484.8	662.2	870.8	1083.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	193.1	200.0	212.3	232.6	262.7	305.4	374.0	485.5	644.4	832.1	1023.8
115°	221.8	227.8	239.8	260.0	287.2	330.6	392.0	489.8	624.9	784.2	950.4
117.5°	249.3	255.4	266.1	285.4	313.7	353.8	411.4	497.1	615.4	753.9	895.1
120°	267.1	273.2	282.2	302.4	330.6	369.9	424.3	501.9	609.8	737.8	867.8
122.5°	283.2	289.2	299.1	319.3	348.3	385.2	435.6	507.6	606.5	724.1	846.0
125°	305.4	311.4	323.6	343.7	371.9	408.2	453.5	516.0	600.7	704.5	814.4
127.5°	324.2	332.5	345.9	365.3	394.3	429.6	470.3	524.7	597.2	686.4	783.2
130°	334.6	344.7	358.8	379.0	407.2	442.4	480.8	531.2	595.6	674.3	763.0
132.5°	345.1	356.0	370.9	391.8	420.1	453.7	491.2	537.6	594.8	664.6	743.6
135°	358.8	370.9	386.0	409.2	437.4	469.7	504.9	545.2	593.6	651.1	716.6
137.5°	373.3	385.4	401.5	424.5	450.7	482.6	515.4	552.1	593.4	641.6	695.0
140°	383.0	395.1	411.2	433.4	459.6	489.8	521.1	555.3	592.6	636.0	681.4
142.5°	392.6	403.9	420.1	441.4	466.1	495.4	525.9	557.7	592.6	630.4	670.0
145°	409.2	419.3	434.4	454.5	476.8	503.9	532.2	560.4	590.6	622.9	654.1
147.5°	425.2	434.7	448.7	465.4	485.2	510.8	535.6	561.2	587.0	615.2	641.8
150°	436.4	444.4	457.6	472.7	490.8	514.0	537.1	560.4	584.6	608.7	633.0
152.5°	446.1	454.1	465.6	480.0	496.4	517.3	538.0	558.8	580.6	603.1	624.1
155°	461.6	467.7	478.8	489.8	504.9	522.1	539.2	556.3	573.5	592.6	611.8
157.5°	474.9	479.8	489.4	498.3	511.0	525.5	539.2	551.7	566.2	582.8	597.4
160°	483.8	487.8	495.8	503.9	515.0	527.1	539.2	549.3	561.4	575.5	588.5
162.5°	491.0	495.0	501.5	508.8	517.5	528.0	538.4	546.8	557.3	569.1	579.8
165°	500.9	502.9	509.0	514.0	520.1	529.2	536.2	542.2	549.3	558.4	566.4
167.5°	509.2	511.0	514.8	518.5	522.3	529.0	534.8	537.6	542.2	547.9	553.7
170°	514.0	515.0	518.1	520.1	523.1	528.2	533.2	535.2	538.2	542.2	547.2
172.5°	518.1	517.5	520.5	521.7	523.9	527.4	530.8	532.0	533.4	536.6	540.0
175°	522.1	521.1	523.1	523.1	524.1	526.1	528.2	527.1	528.2	529.2	532.2
177.5°	523.3	522.5	524.1	524.1	524.1	524.9	526.5	524.9	524.1	524.9	526.5
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1



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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°	15.1	15.6	15.8	15.8	15.8	15.8	15.2
90°	30.2	32.2	33.2	33.2	33.2	33.2	33.2
92.5°	75.4	67.0	60.7	59.9	56.7	57.5	55.8
95°	202.6	160.3	138.0	125.0	116.9	113.9	114.9
97.5°	504.1	395.1	322.3	274.2	249.3	234.6	226.2
100°	795.2	657.1	535.2	451.5	408.2	379.0	360.8
102.5°	1091.2	990.2	860.9	770.0	696.0	659.5	635.0
105°	1338.5	1351.6	1318.3	1255.8	1193.4	1149.9	1135.9
107.5°	1320.3	1425.1	1473.9	1481.8	1478.3	1469.7	1451.0
110°	1263.8	1392.9	1475.5	1518.8	1538.0	1547.1	1546.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1197.0	1334.8	1429.6	1489.9	1521.9	1539.0	1544.5
115°	1105.6	1237.7	1341.5	1413.0	1459.4	1485.6	1494.7
117.5°	1031.5	1151.1	1248.6	1321.5	1370.5	1398.2	1405.7
120°	992.8	1099.5	1191.3	1261.8	1309.2	1338.5	1348.6
122.5°	960.5	1061.7	1144.6	1207.8	1254.4	1280.4	1288.9
125°	918.2	1006.8	1082.5	1140.9	1179.2	1204.4	1212.4
127.5°	877.1	960.7	1030.5	1081.5	1117.3	1139.1	1145.6
130°	849.6	929.3	995.8	1045.2	1079.4	1099.5	1107.6
132.5°	823.8	897.0	959.5	1008.0	1042.4	1060.9	1068.1
135°	783.2	849.6	906.1	949.4	982.7	1000.8	1004.8
137.5°	750.6	803.4	852.6	892.2	920.8	936.8	942.8
140°	729.7	776.1	820.4	852.6	878.9	894.0	900.0
142.5°	711.1	751.0	788.2	818.8	842.6	856.1	857.3
145°	687.4	718.6	747.8	772.0	789.2	799.2	802.2
147.5°	668.0	692.4	713.8	733.8	747.4	754.3	756.1
150°	655.1	676.3	694.4	709.5	721.6	727.7	728.7
152.5°	644.6	662.6	678.3	690.1	700.6	705.1	705.3
155°	627.9	643.0	654.1	665.2	672.3	676.3	674.3
157.5°	611.0	623.7	632.4	640.2	646.0	647.8	647.8
160°	599.7	610.8	617.8	624.9	630.0	631.0	631.0
162.5°	589.2	598.6	604.1	611.2	614.6	615.6	614.8
165°	573.5	580.6	584.6	588.5	592.6	592.6	591.6
167.5°	559.2	564.0	567.6	569.5	571.7	571.5	570.3
170°	550.3	554.3	556.3	557.3	560.4	559.4	557.3
172.5°	542.2	545.4	546.6	547.6	549.1	548.1	546.8
175°	533.2	534.2	535.2	535.2	536.2	535.2	533.2
177.5°	526.5	527.4	527.4	527.4	527.4	526.5	524.9
180°	524.1	524.1	524.1	524.1	524.1	524.1	524.1

(END OF REPORT)