

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: P331761-940

Luminaire Tested: **SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331761-940  
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-C1005D1080U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

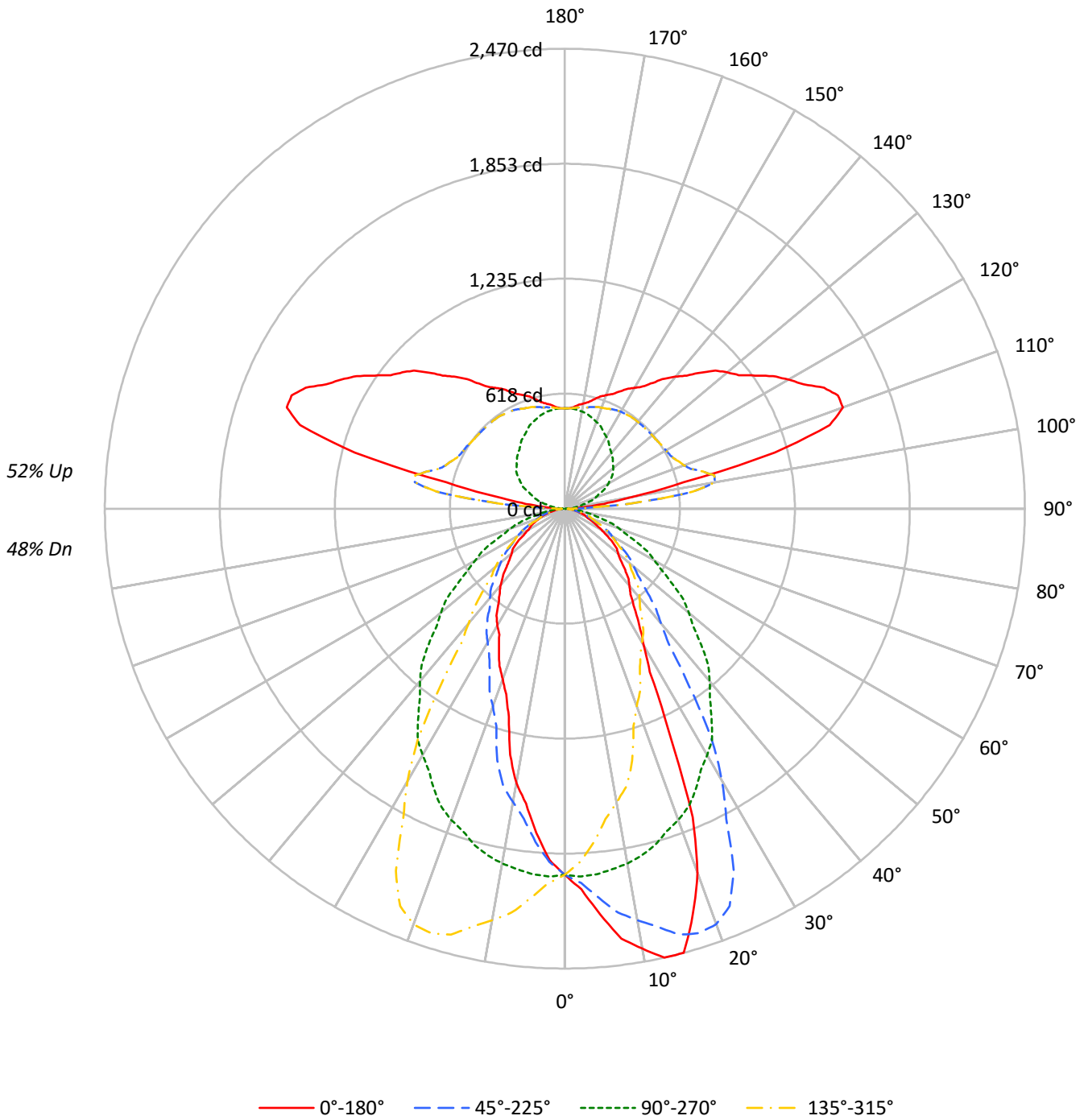
Lumens per Lamp: N/A  
Luminaire Lumens: 7151.9 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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	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	57	49	48	47	42
2	90	83	77	72	82	77	72	68	65	61	58	54	51	49	44	42	41	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	43	40	37	36	31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	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	37	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	22	20	22	19	17	15

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

	0°	90°	180°	270°
0°	31752	31752	31752	31752
5°	35462	31951	28329	31951
10°	39346	31727	24556	31727
15°	41279	31263	19348	31263
20°	35787	30574	16744	30574
25°	23469	29630	14949	29630
30°	15797	28486	13530	28486
35°	12796	27045	12203	27045
40°	11377	25478	11291	25478
45°	10298	23640	10079	23640
50°	9372	21815	9339	21815
55°	8811	19792	8695	19792
60°	7369	17938	7282	17938
65°	6212	16290	7049	16290
70°	5740	14549	6647	14549
75°	5371	12664	6138	12664
80°	4956	10423	5467	10423
85°	4557	8225	4798	8225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	2.6
10°-20°	519.5	7.3
20°-30°	669.4	9.4
30°-40°	636.1	8.9
40°-50°	544.9	7.6
50°-60°	415.0	5.8
60°-70°	262.3	3.7
70°-80°	131.0	1.8
80°-90°	38.9	0.5
90°-100°	215.4	3.0
100°-110°	730.9	10.2
110°-120°	776.4	10.9
120°-130°	639.2	8.9
130°-140°	513.3	7.2
140°-150°	387.9	5.4
150°-160°	272.6	3.8
160°-170°	160.5	2.2
170°-180°	52.2	0.7
0°-30°	1375.3	19.2
0°-40°	2011.4	28.1
0°-60°	2971.3	41.5
0°-90°	3403.6	47.6
90°-120°	1722.7	24.1
90°-150°	3263.0	45.6
90°-180°	3748.0	52.4
0°-180°	7151.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2188	1971	1748	1971	2188	216
15°	2470	1870	1158	1870	2470	666
25°	1317	1663	839	1663	1317	625
35°	649	1372	619	1372	649	415
45°	451	1035	441	1035	451	349
55°	313	703	309	703	313	275
65°	163	426	184	426	163	166
75°	86	203	98	203	86	91
85°	25	44	26	44	25	27
90°	34	1	34	1	34	19
95°	118	36	118	36	118	154
105°	1167	126	1167	126	1167	1130
115°	1536	223	1536	223	1536	1504
125°	1246	311	1246	311	1246	1126
135°	1033	365	1033	365	1033	802
145°	825	416	825	416	825	524
155°	693	473	693	473	693	323
165°	608	516	608	516	608	174
175°	548	538	548	538	548	53
180°	539	539	539	539	539	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2046.4	2048.1	2049.7	2045.9	2045.9	2042.6	2035.5	2030.0	2014.7	2012.5	2012.5
5°	2188.0	2186.7	2189.3	2180.5	2168.2	2165.4	2152.5	2135.4	2117.6	2097.8	2093.7
7.5°	2328.8	2326.7	2321.2	2319.8	2310.3	2289.6	2268.8	2246.5	2217.0	2188.2	2173.6
10°	2399.9	2422.4	2408.7	2384.8	2389.6	2357.5	2340.4	2311.0	2286.4	2243.4	2233.8
12.5°	2469.8	2478.7	2474.3	2460.8	2454.6	2432.3	2409.2	2383.7	2338.3	2299.6	2266.0
15°	2469.5	2482.5	2485.9	2481.8	2485.3	2483.9	2471.6	2450.4	2410.7	2368.4	2331.5
17.5°	2287.2	2296.2	2318.6	2333.8	2353.0	2393.4	2413.3	2421.2	2415.3	2391.1	2365.1
20°	2082.8	2067.7	2130.6	2162.8	2190.0	2258.3	2317.1	2339.7	2375.9	2375.3	2368.4
22.5°	1793.1	1796.6	1856.2	1894.4	1974.2	2042.5	2109.4	2194.3	2264.4	2310.7	2337.8
25°	1317.4	1343.5	1402.8	1454.8	1543.6	1670.7	1786.2	1920.1	2046.6	2146.3	2241.3
27.5°	989.4	991.4	1038.5	1086.5	1139.2	1243.4	1388.8	1548.7	1728.9	1877.7	2048.7
30°	847.3	843.2	863.0	892.4	937.5	1018.2	1127.5	1284.7	1464.4	1688.5	1888.0
32.5°	746.7	747.0	761.9	783.6	821.1	875.5	950.4	1078.0	1247.9	1468.2	1702.2
35°	649.2	648.5	659.4	675.1	690.8	725.7	776.9	843.9	960.7	1166.4	1405.6
37.5°	579.2	582.2	587.5	597.4	614.7	634.1	664.9	709.8	793.1	914.7	1115.7
40°	539.8	541.2	548.7	556.9	567.1	582.2	607.4	643.7	704.5	801.6	948.4
42.5°	503.7	505.2	510.4	518.1	526.2	541.2	562.1	593.4	642.7	718.5	839.6
45°	451.0	451.0	455.8	459.2	468.1	481.7	498.8	524.8	558.9	615.0	695.6
47.5°	401.5	401.6	404.8	410.7	416.3	427.0	443.7	464.9	489.8	533.2	602.0
50°	373.1	373.8	375.9	380.6	384.1	393.6	406.6	425.0	451.0	484.5	541.9
52.5°	350.2	349.7	352.3	354.4	356.7	363.6	373.3	389.5	412.7	441.8	489.4
55°	313.0	310.2	314.3	317.7	319.8	322.5	328.0	338.2	358.0	382.6	418.2
57.5°	266.5	265.4	268.3	271.4	277.9	285.3	289.9	296.4	306.7	324.3	359.5
60°	228.2	228.2	234.3	236.4	244.0	253.5	263.1	268.6	278.8	290.4	316.4
62.5°	194.3	194.9	197.8	199.8	204.0	215.8	229.2	241.2	250.9	262.0	279.2
65°	162.6	164.0	164.0	165.3	168.1	170.9	176.3	185.8	203.0	218.6	231.7
67.5°	138.0	138.5	138.8	140.2	140.9	143.9	146.1	150.3	154.3	169.2	185.3
70°	121.6	123.7	123.0	124.4	125.0	126.4	129.1	131.2	137.3	140.8	150.3
72.5°	106.3	107.8	107.7	108.5	110.3	110.6	112.7	114.8	118.8	121.6	126.8
75°	86.1	85.4	86.1	87.5	88.2	88.8	88.8	91.6	93.6	96.3	99.8
77.5°	66.4	67.1	67.0	67.1	67.2	68.5	68.3	69.6	71.6	72.9	74.6
80°	53.3	53.9	53.3	53.9	54.7	55.4	54.7	55.4	57.4	58.8	58.8
82.5°	41.3	41.4	41.8	42.0	42.1	42.3	43.2	43.3	44.9	44.6	45.1
85°	24.6	23.9	23.9	23.9	24.6	25.3	24.6	24.6	25.3	25.3	25.3
87.5°	15.6	16.1	16.1	16.1	16.1	16.0	15.5	16.5	16.1	16.9	16.1
90°	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2	34.2	35.2	34.2
92.5°	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3	113.8	134.6	132.8
95°	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4	355.3	406.1	359.4
97.5°	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3	727.2	693.2	522.1
100°	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7	967.5	818.3	563.5
102.5°	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5	1057.0	822.5	547.8
105°	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6	1043.1	767.6	516.9
107.5°	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7	952.2	708.7	501.6
110°	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6	895.0	680.6	498.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2	855.2	662.4	499.1
115°	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9	805.9	642.2	503.5
117.5°	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1	774.8	632.5	510.9
120°	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9	758.2	626.7	515.9
122.5°	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5	744.1	623.4	521.7
125°	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0	724.1	617.4	530.4
127.5°	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9	705.4	613.9	539.3
130°	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2	693.0	612.2	545.9
132.5°	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3	683.1	611.4	552.5
135°	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5	669.1	610.1	560.4
137.5°	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3	659.4	609.9	567.5
140°	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3	653.6	609.1	570.8
142.5°	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7	647.8	609.1	573.3
145°	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3	640.2	607.0	576.0
147.5°	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7	632.3	603.3	576.8
150°	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5	625.6	600.8	576.0
152.5°	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4	619.8	596.6	574.3
155°	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7	609.1	589.4	571.8
157.5°	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0	599.0	581.9	567.0
160°	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9	591.5	577.0	564.5
162.5°	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8	584.9	572.8	562.0
165°	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2	573.9	564.5	557.3
167.5°	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1	563.1	557.3	552.5
170°	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5	557.3	553.1	550.0
172.5°	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0	551.5	548.2	546.7
175°	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0	543.9	542.8	541.8
177.5°	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2	539.5	538.7	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2013.7	2009.2	2005.5	1995.6	1990.7	1979.7	1978.1	1977.5	1963.4	1949.6	1945.8
5°	2082.8	2071.8	2055.5	2036.3	2016.5	1996.0	1982.4	1971.4	1944.0	1918.1	1903.1
7.5°	2152.5	2129.0	2100.7	2064.5	2034.3	2000.4	1975.2	1952.7	1913.9	1876.7	1851.6
10°	2204.4	2166.1	2128.5	2078.7	2039.7	2001.4	1966.0	1935.2	1891.4	1842.3	1807.4
12.5°	2236.7	2194.6	2142.8	2094.0	2043.5	1994.9	1947.3	1907.8	1856.5	1805.6	1764.2
15°	2280.3	2235.2	2172.3	2102.6	2037.6	1974.2	1919.5	1870.3	1803.3	1742.5	1691.9
17.5°	2316.0	2253.9	2186.4	2105.8	2030.6	1949.8	1879.5	1816.6	1742.0	1668.7	1609.1
20°	2327.4	2265.9	2188.0	2107.4	2018.6	1923.6	1847.7	1779.4	1699.4	1619.4	1551.1
22.5°	2320.3	2272.4	2185.9	2089.4	1998.3	1899.0	1813.3	1734.0	1645.3	1563.7	1484.4
25°	2272.1	2255.7	2173.6	2068.4	1964.5	1849.1	1750.0	1663.2	1562.1	1474.6	1388.5
27.5°	2159.5	2194.9	2144.1	2032.0	1916.6	1792.8	1681.4	1582.6	1477.7	1379.2	1293.4
30°	2051.4	2132.6	2110.8	2006.9	1877.8	1756.1	1631.1	1527.9	1415.9	1314.7	1230.0
32.5°	1903.2	2037.6	2058.9	1971.9	1838.4	1704.8	1573.7	1471.1	1354.1	1247.5	1164.9
35°	1667.3	1868.2	1960.4	1905.1	1771.2	1627.0	1491.7	1372.1	1254.5	1149.3	1067.4
37.5°	1385.9	1659.6	1813.3	1817.2	1694.3	1544.4	1397.0	1278.3	1158.0	1054.6	966.0
40°	1203.4	1499.9	1700.1	1744.5	1640.7	1478.7	1329.7	1208.8	1091.3	990.2	888.3
42.5°	1039.4	1334.8	1580.9	1658.1	1575.7	1414.8	1265.2	1138.8	1024.6	928.9	824.9
45°	840.5	1098.8	1370.0	1508.1	1462.3	1313.3	1155.5	1035.3	927.9	845.3	745.5
47.5°	709.0	891.1	1153.6	1340.2	1339.4	1203.5	1048.2	933.0	833.5	756.0	675.3
50°	634.1	792.6	1014.8	1226.5	1244.3	1130.2	982.6	868.5	775.6	694.3	629.4
52.5°	566.9	697.5	897.2	1100.3	1150.8	1052.0	908.8	803.4	713.3	638.5	582.9
55°	479.0	580.1	731.8	921.8	998.4	928.6	801.6	703.1	630.0	567.1	519.3
57.5°	405.2	481.1	602.8	755.7	844.9	801.0	696.2	616.3	553.7	496.8	459.1
60°	358.7	420.9	524.1	651.9	750.3	719.5	630.0	555.5	502.2	453.1	417.5
62.5°	315.0	368.5	456.9	560.6	650.8	638.1	565.0	502.5	455.8	411.0	380.8
65°	253.5	292.5	361.5	442.8	515.2	521.4	468.8	426.4	384.7	349.2	322.5
67.5°	201.9	227.3	275.9	344.4	398.7	418.0	385.9	353.6	320.5	293.0	269.9
70°	170.1	190.6	226.1	281.5	331.4	351.9	333.5	308.2	279.5	256.9	237.1
72.5°	137.9	157.8	184.0	224.7	267.4	289.6	283.2	265.0	241.7	223.0	204.3
75°	103.9	110.0	127.8	155.2	188.6	207.8	212.5	203.0	184.5	170.1	159.2
77.5°	76.8	80.5	89.0	103.3	125.2	142.2	149.3	148.1	135.5	127.1	116.8
80°	61.5	63.6	67.7	73.8	90.2	107.3	112.1	112.1	103.2	99.8	89.5
82.5°	46.7	48.2	50.7	54.1	61.8	76.7	82.0	83.1	77.5	72.9	64.9
85°	26.7	25.9	27.4	29.4	30.8	34.9	43.1	44.4	43.1	37.5	35.5
87.5°	14.9	14.0	12.9	11.8	11.9	12.0	13.9	16.1	14.5	13.6	13.0
90°	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1	4.1	8.3	10.3
92.5°	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7	18.2	25.7	30.2
95°	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3	40.4	50.7	60.1
97.5°	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0	64.6	75.6	89.7
100°	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7	82.8	92.2	108.8
102.5°	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8	101.1	110.4	127.0
105°	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4	130.5	137.8	153.3
107.5°	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2	159.5	166.6	180.8
110°	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1	180.2	186.5	199.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3	198.5	205.5	218.1
115°	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7	227.9	234.1	246.6
117.5°	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2	256.3	262.5	273.5
120°	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4	274.5	280.7	290.1
122.5°	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8	291.1	297.3	307.5
125°	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8	313.9	320.1	332.5
127.5°	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0	333.1	341.9	355.5
130°	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7	343.9	354.3	368.8
132.5°	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7	354.7	365.9	381.2
135°	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6	368.8	381.2	396.7
137.5°	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7	383.7	396.1	412.7
140°	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5	393.6	406.1	422.7
142.5°	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3	403.6	415.2	431.8
145°	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4	420.5	431.0	446.5
147.5°	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8	436.9	446.8	461.2
150°	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4	448.5	456.8	470.3
152.5°	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0	458.5	466.7	478.6
155°	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4	474.4	480.6	492.0
157.5°	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1	488.1	493.1	503.0
160°	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1	497.2	501.3	509.6
162.5°	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3	504.7	508.8	515.4
165°	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9	514.9	516.9	523.1
167.5°	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6	523.3	525.2	529.1
170°	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4	528.3	529.3	532.4
172.5°	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7	532.4	531.8	534.9
175°	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6	536.5	535.6	537.6
177.5°	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5	537.8	537.0	538.7
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331761-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1938.8	1934.9	1927.8	1916.8	1910.3	1898.8	1891.1	1895.5	1896.7	1895.5	1894.4
5°	1886.7	1872.3	1852.5	1833.4	1815.6	1796.4	1785.6	1780.7	1771.2	1765.7	1763.0
7.5°	1823.6	1798.9	1770.9	1737.6	1709.2	1679.6	1664.5	1656.9	1637.4	1626.7	1617.4
10°	1776.6	1737.7	1709.7	1666.0	1639.3	1600.4	1573.7	1574.4	1547.7	1532.7	1521.8
12.5°	1724.7	1681.9	1635.3	1596.0	1559.0	1527.7	1495.5	1482.6	1454.3	1439.8	1410.2
15°	1638.6	1588.8	1539.5	1486.2	1448.7	1400.2	1353.7	1297.0	1251.2	1211.6	1200.6
17.5°	1544.6	1482.8	1433.5	1370.9	1306.5	1224.9	1171.1	1138.2	1110.5	1089.7	1074.1
20°	1480.1	1417.2	1364.6	1270.3	1183.5	1128.2	1088.5	1063.3	1034.6	1012.0	999.7
22.5°	1412.3	1346.7	1275.0	1169.7	1102.1	1057.7	1022.3	993.3	973.8	956.3	945.0
25°	1316.1	1244.3	1126.1	1053.6	999.0	952.5	927.9	910.2	889.7	865.8	854.9
27.5°	1214.4	1100.3	1015.4	961.5	909.4	879.1	857.0	830.5	812.2	801.4	790.1
30°	1138.4	1024.3	958.1	899.3	862.4	828.8	802.9	787.9	770.1	751.6	744.1
32.5°	1053.6	962.5	899.0	850.1	812.6	784.1	763.6	739.2	726.4	715.1	699.3
35°	948.4	879.4	821.4	781.8	746.2	723.0	699.0	684.7	661.5	651.9	645.8
37.5°	859.3	799.5	756.2	714.3	686.2	660.5	645.9	623.0	613.0	599.7	586.7
40°	809.0	750.3	708.6	674.4	643.0	623.8	605.4	587.0	571.9	565.8	550.1
42.5°	757.7	709.8	668.2	630.7	609.7	589.4	566.1	552.5	537.0	527.0	517.3
45°	686.7	644.4	608.9	578.1	554.8	533.7	518.6	496.1	487.2	467.4	459.2
47.5°	624.5	585.1	551.2	521.9	499.3	485.4	463.4	445.8	431.6	419.5	408.9
50°	580.1	547.3	514.5	488.6	468.1	448.3	425.7	416.8	394.9	388.8	382.6
52.5°	539.7	508.5	478.5	453.1	432.6	413.3	393.4	381.8	367.1	361.0	356.4
55°	483.1	453.1	424.4	401.8	381.3	361.5	349.2	334.8	328.0	323.2	317.7
57.5°	426.2	399.2	377.2	354.4	333.8	318.0	303.8	295.2	288.1	281.8	275.3
60°	390.2	364.2	344.4	323.2	302.0	289.0	278.1	267.9	259.7	250.1	247.4
62.5°	351.9	329.2	311.0	290.4	272.0	260.1	249.7	240.0	230.2	216.2	212.4
65°	299.3	281.5	262.4	245.3	228.9	217.3	202.2	191.4	187.3	185.8	185.2
67.5°	251.7	235.0	218.6	201.0	186.1	175.3	167.7	166.0	163.2	162.4	160.4
70°	220.1	204.3	187.9	171.5	157.2	155.2	152.4	149.6	146.2	144.9	143.5
72.5°	191.6	175.3	158.9	145.8	139.6	137.1	134.4	131.6	129.3	128.0	127.1
75°	147.0	131.9	120.9	116.2	112.7	110.7	106.6	104.5	103.2	101.1	100.4
77.5°	105.8	97.3	92.3	89.3	85.7	83.5	81.1	79.1	77.7	77.2	76.2
80°	80.6	76.5	73.1	69.0	67.7	64.9	64.2	62.2	62.9	60.8	60.8
82.5°	62.6	57.4	54.6	52.6	51.3	49.0	48.4	47.4	47.5	46.0	46.0
85°	32.1	30.8	29.4	28.0	28.0	25.9	26.7	25.9	25.9	24.6	23.9
87.5°	12.8	12.9	12.9	14.4	15.6	15.2	15.1	14.3	13.9	14.3	13.9
90°	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2	31.1	33.2	34.2
92.5°	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3	77.5	68.8	62.3
95°	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4	208.2	164.7	141.9
97.5°	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3	518.2	406.1	331.3
100°	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7	817.3	675.4	550.0
102.5°	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5	1121.4	1017.6	884.8
105°	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6	1375.6	1389.1	1355.0
107.5°	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7	1357.0	1464.7	1514.8
110°	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6	1299.0	1431.6	1516.5



TEST NUMBER: P331761-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2	1230.2	1371.9	1469.3
115°	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9	1136.4	1272.0	1378.8
117.5°	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1	1060.2	1183.2	1283.3
120°	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9	1020.3	1130.2	1224.4
122.5°	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5	987.2	1091.2	1176.3
125°	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0	943.7	1034.8	1112.5
127.5°	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9	901.4	987.4	1059.1
130°	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2	873.3	955.1	1023.4
132.5°	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3	846.8	921.9	986.1
135°	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5	804.9	873.3	931.2
137.5°	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3	771.5	825.8	876.4
140°	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3	750.0	797.6	843.2
142.5°	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7	730.9	772.0	810.0
145°	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3	706.5	738.6	768.7
147.5°	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7	686.6	711.7	733.6
150°	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5	673.3	695.1	713.7
152.5°	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4	662.5	681.0	697.1
155°	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7	645.3	660.8	672.3
157.5°	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0	627.9	641.0	649.9
160°	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9	616.4	627.8	635.0
162.5°	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8	605.6	615.3	620.9
165°	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2	589.4	596.6	600.8
167.5°	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1	574.7	579.7	583.4
170°	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5	565.6	569.7	571.8
172.5°	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0	557.3	560.6	561.9
175°	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0	548.0	549.0	550.0
177.5°	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2	541.2	542.0	542.0
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331761-940

CATALOG NUMBER: SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1888.5	1889.5	1887.9	1889.0	1887.9	1889.5	1888.5	1894.4	1895.5	1896.7	1895.5
5°	1759.5	1751.3	1750.0	1747.9	1750.0	1751.3	1759.5	1763.0	1765.7	1771.2	1780.7
7.5°	1605.7	1604.5	1601.1	1596.3	1601.1	1604.5	1605.7	1617.4	1626.7	1637.4	1656.9
10°	1506.7	1503.3	1502.6	1497.8	1502.6	1503.3	1506.7	1521.8	1532.7	1547.7	1574.4
12.5°	1390.8	1368.9	1366.5	1354.6	1366.5	1368.9	1390.8	1410.2	1439.8	1454.3	1482.6
15°	1184.2	1180.1	1166.4	1157.5	1166.4	1180.1	1184.2	1200.6	1211.6	1251.2	1297.0
17.5°	1066.1	1052.8	1048.5	1046.6	1048.5	1052.8	1066.1	1074.1	1089.7	1110.5	1138.2
20°	990.2	977.9	975.8	974.5	975.8	977.9	990.2	999.7	1012.0	1034.6	1063.3
22.5°	937.6	924.8	919.4	915.3	919.4	924.8	937.6	945.0	956.3	973.8	993.3
25°	848.0	843.2	840.5	839.1	840.5	843.2	848.0	854.9	865.8	889.7	910.2
27.5°	777.9	767.4	765.4	761.8	765.4	767.4	777.9	790.1	801.4	812.2	830.5
30°	738.0	734.6	729.8	725.7	729.8	734.6	738.0	744.1	751.6	770.1	787.9
32.5°	691.0	688.1	683.9	682.0	683.9	688.1	691.0	699.3	715.1	726.4	739.2
35°	638.9	629.4	625.3	619.1	625.3	629.4	638.9	645.8	651.9	661.5	684.7
37.5°	583.8	578.8	573.0	575.1	573.0	578.8	583.8	586.7	599.7	613.0	623.0
40°	541.2	537.8	536.5	535.7	536.5	537.8	541.2	550.1	565.8	571.9	587.0
42.5°	507.3	497.8	494.3	494.2	494.3	497.8	507.3	517.3	527.0	537.0	552.5
45°	455.8	446.9	440.8	441.4	440.8	446.9	455.8	459.2	467.4	487.2	496.1
47.5°	403.1	402.8	399.0	400.1	399.0	402.8	403.1	408.9	419.5	431.6	445.8
50°	377.9	373.8	371.0	371.8	371.0	373.8	377.9	382.6	388.8	394.9	416.8
52.5°	353.8	350.3	348.1	351.0	348.1	350.3	353.8	356.4	361.0	367.1	381.8
55°	314.3	310.2	309.5	308.9	309.5	310.2	314.3	317.7	323.2	328.0	334.8
57.5°	270.2	267.4	263.3	261.5	263.3	267.4	270.2	275.3	281.8	288.1	295.2
60°	238.4	233.0	226.1	225.5	226.1	233.0	238.4	247.4	250.1	259.7	267.9
62.5°	209.5	208.4	207.1	206.9	207.1	208.4	209.5	212.4	216.2	230.2	240.0
65°	183.8	183.2	183.8	184.5	183.8	183.2	183.8	185.2	185.8	187.3	191.4
67.5°	160.2	158.9	157.7	158.3	157.7	158.9	160.2	160.4	162.4	163.2	166.0
70°	142.1	141.4	140.8	140.8	140.8	141.4	142.1	143.5	144.9	146.2	149.6
72.5°	124.7	124.5	123.9	123.2	123.9	124.5	124.7	127.1	128.0	129.3	131.6
75°	99.8	98.4	98.4	98.4	98.4	98.4	99.8	100.4	101.1	103.2	104.5
77.5°	76.0	75.3	74.6	74.1	74.6	75.3	76.0	76.2	77.2	77.7	79.1
80°	60.1	59.5	58.8	58.8	58.8	59.5	60.1	60.8	60.8	62.9	62.2
82.5°	45.9	45.2	45.1	44.6	45.1	45.2	45.9	46.0	46.0	47.5	47.4
85°	24.6	25.3	24.6	25.9	24.6	25.3	24.6	23.9	24.6	25.9	25.9
87.5°	13.9	13.4	13.9	13.4	13.9	13.4	13.9	13.9	14.3	13.9	14.3
90°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2
92.5°	61.5	58.2	59.0	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3
95°	128.4	120.2	117.1	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4
97.5°	281.8	256.3	241.1	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3
100°	464.0	419.5	389.5	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7
102.5°	791.4	715.4	677.9	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5
105°	1290.7	1226.5	1182.0	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6
107.5°	1523.0	1519.4	1510.5	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7
110°	1561.0	1580.7	1590.1	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6



TEST NUMBER: P331761-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1531.2	1564.1	1581.8	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2
115°	1452.3	1499.9	1526.9	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9
117.5°	1358.3	1408.5	1437.0	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1
120°	1296.9	1345.6	1375.6	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9
122.5°	1241.4	1289.2	1316.0	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5
125°	1172.6	1212.0	1237.9	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0
127.5°	1111.5	1148.3	1170.7	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9
130°	1074.2	1109.5	1130.2	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2
132.5°	1036.1	1071.3	1090.4	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3
135°	975.8	1010.0	1028.6	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5
137.5°	916.9	946.4	962.8	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3
140°	876.4	903.3	918.8	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3
142.5°	841.5	866.0	879.9	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7
145°	793.4	811.1	821.4	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3
147.5°	754.1	768.2	775.3	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7
150°	729.2	741.7	747.9	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5
152.5°	709.4	720.1	724.7	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4
155°	683.7	690.9	695.1	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7
157.5°	658.0	664.0	665.8	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0
160°	642.2	647.4	648.5	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9
162.5°	628.1	631.7	632.7	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8
165°	604.9	609.1	609.1	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2
167.5°	585.2	587.5	587.4	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1
170°	572.8	576.0	574.9	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5
172.5°	562.9	564.4	563.3	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0
175°	550.0	551.1	550.0	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0
177.5°	542.0	542.0	541.2	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1891.1	1898.8	1910.3	1916.8	1927.8	1934.9	1938.8	1945.8	1949.6	1963.4	1977.5
5°	1785.6	1796.4	1815.6	1833.4	1852.5	1872.3	1886.7	1903.1	1918.1	1944.0	1971.4
7.5°	1664.5	1679.6	1709.2	1737.6	1770.9	1798.9	1823.6	1851.6	1876.7	1913.9	1952.7
10°	1573.7	1600.4	1639.3	1666.0	1709.7	1737.7	1776.6	1807.4	1842.3	1891.4	1935.2
12.5°	1495.5	1527.7	1559.0	1596.0	1635.3	1681.9	1724.7	1764.2	1805.6	1856.5	1907.8
15°	1353.7	1400.2	1448.7	1486.2	1539.5	1588.8	1638.6	1691.9	1742.5	1803.3	1870.3
17.5°	1171.1	1224.9	1306.5	1370.9	1433.5	1482.8	1544.6	1609.1	1668.7	1742.0	1816.6
20°	1088.5	1128.2	1183.5	1270.3	1364.6	1417.2	1480.1	1551.1	1619.4	1699.4	1779.4
22.5°	1022.3	1057.7	1102.1	1169.7	1275.0	1346.7	1412.3	1484.4	1563.7	1645.3	1734.0
25°	927.9	952.5	999.0	1053.6	1126.1	1244.3	1316.1	1388.5	1474.6	1562.1	1663.2
27.5°	857.0	879.1	909.4	961.5	1015.4	1100.3	1214.4	1293.4	1379.2	1477.7	1582.6
30°	802.9	828.8	862.4	899.3	958.1	1024.3	1138.4	1230.0	1314.7	1415.9	1527.9
32.5°	763.6	784.1	812.6	850.1	899.0	962.5	1053.6	1164.9	1247.5	1354.1	1471.1
35°	699.0	723.0	746.2	781.8	821.4	879.4	948.4	1067.4	1149.3	1254.5	1372.1
37.5°	645.9	660.5	686.2	714.3	756.2	799.5	859.3	966.0	1054.6	1158.0	1278.3
40°	605.4	623.8	643.0	674.4	708.6	750.3	809.0	888.3	990.2	1091.3	1208.8
42.5°	566.1	589.4	609.7	630.7	668.2	709.8	757.7	824.9	928.9	1024.6	1138.8
45°	518.6	533.7	554.8	578.1	608.9	644.4	686.7	745.5	845.3	927.9	1035.3
47.5°	463.4	485.4	499.3	521.9	551.2	585.1	624.5	675.3	756.0	833.5	933.0
50°	425.7	448.3	468.1	488.6	514.5	547.3	580.1	629.4	694.3	775.6	868.5
52.5°	393.4	413.3	432.6	453.1	478.5	508.5	539.7	582.9	638.5	713.3	803.4
55°	349.2	361.5	381.3	401.8	424.4	453.1	483.1	519.3	567.1	630.0	703.1
57.5°	303.8	318.0	333.8	354.4	377.2	399.2	426.2	459.1	496.8	553.7	616.3
60°	278.1	289.0	302.0	323.2	344.4	364.2	390.2	417.5	453.1	502.2	555.5
62.5°	249.7	260.1	272.0	290.4	311.0	329.2	351.9	380.8	411.0	455.8	502.5
65°	202.2	217.3	228.9	245.3	262.4	281.5	299.3	322.5	349.2	384.7	426.4
67.5°	167.7	175.3	186.1	201.0	218.6	235.0	251.7	269.9	293.0	320.5	353.6
70°	152.4	155.2	157.2	171.5	187.9	204.3	220.1	237.1	256.9	279.5	308.2
72.5°	134.4	137.1	139.6	145.8	158.9	175.3	191.6	204.3	223.0	241.7	265.0
75°	106.6	110.7	112.7	116.2	120.9	131.9	147.0	159.2	170.1	184.5	203.0
77.5°	81.1	83.5	85.7	89.3	92.3	97.3	105.8	116.8	127.1	135.5	148.1
80°	64.2	64.9	67.7	69.0	73.1	76.5	80.6	89.5	99.8	103.2	112.1
82.5°	48.4	49.0	51.3	52.6	54.6	57.4	62.6	64.9	72.9	77.5	83.1
85°	26.7	25.9	28.0	28.0	29.4	30.8	32.1	35.5	37.5	43.1	44.4
87.5°	15.1	15.2	15.6	14.4	12.9	12.9	12.8	13.0	13.6	14.5	16.1
90°	34.2	35.2	34.2	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1
92.5°	113.8	134.6	132.8	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7
95°	355.3	406.1	359.4	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3
97.5°	727.2	693.2	522.1	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0
100°	967.5	818.3	563.5	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7
102.5°	1057.0	822.5	547.8	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8
105°	1043.1	767.6	516.9	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4
107.5°	952.2	708.7	501.6	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2
110°	895.0	680.6	498.3	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	855.2	662.4	499.1	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3
115°	805.9	642.2	503.5	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7
117.5°	774.8	632.5	510.9	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2
120°	758.2	626.7	515.9	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4
122.5°	744.1	623.4	521.7	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8
125°	724.1	617.4	530.4	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8
127.5°	705.4	613.9	539.3	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0
130°	693.0	612.2	545.9	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7
132.5°	683.1	611.4	552.5	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7
135°	669.1	610.1	560.4	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6
137.5°	659.4	609.9	567.5	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7
140°	653.6	609.1	570.8	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5
142.5°	647.8	609.1	573.3	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3
145°	640.2	607.0	576.0	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4
147.5°	632.3	603.3	576.8	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8
150°	625.6	600.8	576.0	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4
152.5°	619.8	596.6	574.3	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0
155°	609.1	589.4	571.8	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4
157.5°	599.0	581.9	567.0	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1
160°	591.5	577.0	564.5	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1
162.5°	584.9	572.8	562.0	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3
165°	573.9	564.5	557.3	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9
167.5°	563.1	557.3	552.5	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6
170°	557.3	553.1	550.0	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4
172.5°	551.5	548.2	546.7	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7
175°	543.9	542.8	541.8	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6
177.5°	539.5	538.7	539.5	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331761-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1978.1	1979.7	1990.7	1995.6	2005.5	2009.2	2013.7	2012.5	2012.5	2014.7	2030.0
5°	1982.4	1996.0	2016.5	2036.3	2055.5	2071.8	2082.8	2093.7	2097.8	2117.6	2135.4
7.5°	1975.2	2000.4	2034.3	2064.5	2100.7	2129.0	2152.5	2173.6	2188.2	2217.0	2246.5
10°	1966.0	2001.4	2039.7	2078.7	2128.5	2166.1	2204.4	2233.8	2243.4	2286.4	2311.0
12.5°	1947.3	1994.9	2043.5	2094.0	2142.8	2194.6	2236.7	2266.0	2299.6	2338.3	2383.7
15°	1919.5	1974.2	2037.6	2102.6	2172.3	2235.2	2280.3	2331.5	2368.4	2410.7	2450.4
17.5°	1879.5	1949.8	2030.6	2105.8	2186.4	2253.9	2316.0	2365.1	2391.1	2415.3	2421.2
20°	1847.7	1923.6	2018.6	2107.4	2188.0	2265.9	2327.4	2368.4	2375.3	2375.9	2339.7
22.5°	1813.3	1899.0	1998.3	2089.4	2185.9	2272.4	2320.3	2337.8	2310.7	2264.4	2194.3
25°	1750.0	1849.1	1964.5	2068.4	2173.6	2255.7	2272.1	2241.3	2146.3	2046.6	1920.1
27.5°	1681.4	1792.8	1916.6	2032.0	2144.1	2194.9	2159.5	2048.7	1877.7	1728.9	1548.7
30°	1631.1	1756.1	1877.8	2006.9	2110.8	2132.6	2051.4	1888.0	1688.5	1464.4	1284.7
32.5°	1573.7	1704.8	1838.4	1971.9	2058.9	2037.6	1903.2	1702.2	1468.2	1247.9	1078.0
35°	1491.7	1627.0	1771.2	1905.1	1960.4	1868.2	1667.3	1405.6	1166.4	960.7	843.9
37.5°	1397.0	1544.4	1694.3	1817.2	1813.3	1659.6	1385.9	1115.7	914.7	793.1	709.8
40°	1329.7	1478.7	1640.7	1744.5	1700.1	1499.9	1203.4	948.4	801.6	704.5	643.7
42.5°	1265.2	1414.8	1575.7	1658.1	1580.9	1334.8	1039.4	839.6	718.5	642.7	593.4
45°	1155.5	1313.3	1462.3	1508.1	1370.0	1098.8	840.5	695.6	615.0	558.9	524.8
47.5°	1048.2	1203.5	1339.4	1340.2	1153.6	891.1	709.0	602.0	533.2	489.8	464.9
50°	982.6	1130.2	1244.3	1226.5	1014.8	792.6	634.1	541.9	484.5	451.0	425.0
52.5°	908.8	1052.0	1150.8	1100.3	897.2	697.5	566.9	489.4	441.8	412.7	389.5
55°	801.6	928.6	998.4	921.8	731.8	580.1	479.0	418.2	382.6	358.0	338.2
57.5°	696.2	801.0	844.9	755.7	602.8	481.1	405.2	359.5	324.3	306.7	296.4
60°	630.0	719.5	750.3	651.9	524.1	420.9	358.7	316.4	290.4	278.8	268.6
62.5°	565.0	638.1	650.8	560.6	456.9	368.5	315.0	279.2	262.0	250.9	241.2
65°	468.8	521.4	515.2	442.8	361.5	292.5	253.5	231.7	218.6	203.0	185.8
67.5°	385.9	418.0	398.7	344.4	275.9	227.3	201.9	185.3	169.2	154.3	150.3
70°	333.5	351.9	331.4	281.5	226.1	190.6	170.1	150.3	140.8	137.3	131.2
72.5°	283.2	289.6	267.4	224.7	184.0	157.8	137.9	126.8	121.6	118.8	114.8
75°	212.5	207.8	188.6	155.2	127.8	110.0	103.9	99.8	96.3	93.6	91.6
77.5°	149.3	142.2	125.2	103.3	89.0	80.5	76.8	74.6	72.9	71.6	69.6
80°	112.1	107.3	90.2	73.8	67.7	63.6	61.5	58.8	58.8	57.4	55.4
82.5°	82.0	76.7	61.8	54.1	50.7	48.2	46.7	45.1	44.6	44.9	43.3
85°	43.1	34.9	30.8	29.4	27.4	25.9	26.7	25.3	25.3	25.3	24.6
87.5°	13.9	12.0	11.9	11.8	12.9	14.0	14.9	16.1	16.9	16.1	16.5
90°	4.1	8.3	10.3	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2
92.5°	18.2	25.7	30.2	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3
95°	40.4	50.7	60.1	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4
97.5°	64.6	75.6	89.7	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3
100°	82.8	92.2	108.8	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7
102.5°	101.1	110.4	127.0	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5
105°	130.5	137.8	153.3	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6
107.5°	159.5	166.6	180.8	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7
110°	180.2	186.5	199.9	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	205.5	218.1	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2
115°	227.9	234.1	246.6	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9
117.5°	256.3	262.5	273.5	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1
120°	274.5	280.7	290.1	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9
122.5°	291.1	297.3	307.5	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5
125°	313.9	320.1	332.5	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0
127.5°	333.1	341.9	355.5	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9
130°	343.9	354.3	368.8	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2
132.5°	354.7	365.9	381.2	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3
135°	368.8	381.2	396.7	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5
137.5°	383.7	396.1	412.7	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3
140°	393.6	406.1	422.7	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3
142.5°	403.6	415.2	431.8	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7
145°	420.5	431.0	446.5	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3
147.5°	436.9	446.8	461.2	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7
150°	448.5	456.8	470.3	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5
152.5°	458.5	466.7	478.6	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4
155°	474.4	480.6	492.0	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7
157.5°	488.1	493.1	503.0	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0
160°	497.2	501.3	509.6	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9
162.5°	504.7	508.8	515.4	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8
165°	514.9	516.9	523.1	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2
167.5°	523.3	525.2	529.1	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1
170°	528.3	529.3	532.4	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5
172.5°	532.4	531.8	534.9	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0
175°	536.5	535.6	537.6	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0
177.5°	537.8	537.0	538.7	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2035.5	2042.6	2045.9	2045.9	2049.7	2048.1	2046.4
5°	2152.5	2165.4	2168.2	2180.5	2189.3	2186.7	2188.0
7.5°	2268.8	2289.6	2310.3	2319.8	2321.2	2326.7	2328.8
10°	2340.4	2357.5	2389.6	2384.8	2408.7	2422.4	2399.9
12.5°	2409.2	2432.3	2454.6	2460.8	2474.3	2478.7	2469.8
15°	2471.6	2483.9	2485.3	2481.8	2485.9	2482.5	2469.5
17.5°	2413.3	2393.4	2353.0	2333.8	2318.6	2296.2	2287.2
20°	2317.1	2258.3	2190.0	2162.8	2130.6	2067.7	2082.8
22.5°	2109.4	2042.5	1974.2	1894.4	1856.2	1796.6	1793.1
25°	1786.2	1670.7	1543.6	1454.8	1402.8	1343.5	1317.4
27.5°	1388.8	1243.4	1139.2	1086.5	1038.5	991.4	989.4
30°	1127.5	1018.2	937.5	892.4	863.0	843.2	847.3
32.5°	950.4	875.5	821.1	783.6	761.9	747.0	746.7
35°	776.9	725.7	690.8	675.1	659.4	648.5	649.2
37.5°	664.9	634.1	614.7	597.4	587.5	582.2	579.2
40°	607.4	582.2	567.1	556.9	548.7	541.2	539.8
42.5°	562.1	541.2	526.2	518.1	510.4	505.2	503.7
45°	498.8	481.7	468.1	459.2	455.8	451.0	451.0
47.5°	443.7	427.0	416.3	410.7	404.8	401.6	401.5
50°	406.6	393.6	384.1	380.6	375.9	373.8	373.1
52.5°	373.3	363.6	356.7	354.4	352.3	349.7	350.2
55°	328.0	322.5	319.8	317.7	314.3	310.2	313.0
57.5°	289.9	285.3	277.9	271.4	268.3	265.4	266.5
60°	263.1	253.5	244.0	236.4	234.3	228.2	228.2
62.5°	229.2	215.8	204.0	199.8	197.8	194.9	194.3
65°	176.3	170.9	168.1	165.3	164.0	164.0	162.6
67.5°	146.1	143.9	140.9	140.2	138.8	138.5	138.0
70°	129.1	126.4	125.0	124.4	123.0	123.7	121.6
72.5°	112.7	110.6	110.3	108.5	107.7	107.8	106.3
75°	88.8	88.8	88.2	87.5	86.1	85.4	86.1
77.5°	68.3	68.5	67.2	67.1	67.0	67.1	66.4
80°	54.7	55.4	54.7	53.9	53.3	53.9	53.3
82.5°	43.2	42.3	42.1	42.0	41.8	41.4	41.3
85°	24.6	25.3	24.6	23.9	23.9	23.9	24.6
87.5°	15.5	16.0	16.1	16.1	16.1	16.1	15.6
90°	31.1	33.2	34.2	34.2	34.2	34.2	34.2
92.5°	77.5	68.8	62.3	61.5	58.2	59.0	57.4
95°	208.2	164.7	141.9	128.4	120.2	117.1	118.1
97.5°	518.2	406.1	331.3	281.8	256.3	241.1	232.5
100°	817.3	675.4	550.0	464.0	419.5	389.5	370.9
102.5°	1121.4	1017.6	884.8	791.4	715.4	677.9	652.6
105°	1375.6	1389.1	1355.0	1290.7	1226.5	1182.0	1167.4
107.5°	1357.0	1464.7	1514.8	1523.0	1519.4	1510.5	1491.2
110°	1299.0	1431.6	1516.5	1561.0	1580.7	1590.1	1589.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1230.2	1371.9	1469.3	1531.2	1564.1	1581.8	1587.3
115°	1136.4	1272.0	1378.8	1452.3	1499.9	1526.9	1536.2
117.5°	1060.2	1183.2	1283.3	1358.3	1408.5	1437.0	1444.8
120°	1020.3	1130.2	1224.4	1296.9	1345.6	1375.6	1386.0
122.5°	987.2	1091.2	1176.3	1241.4	1289.2	1316.0	1324.6
125°	943.7	1034.8	1112.5	1172.6	1212.0	1237.9	1246.2
127.5°	901.4	987.4	1059.1	1111.5	1148.3	1170.7	1177.4
130°	873.3	955.1	1023.4	1074.2	1109.5	1130.2	1138.4
132.5°	846.8	921.9	986.1	1036.1	1071.3	1090.4	1097.8
135°	804.9	873.3	931.2	975.8	1010.0	1028.6	1032.8
137.5°	771.5	825.8	876.4	916.9	946.4	962.8	968.9
140°	750.0	797.6	843.2	876.4	903.3	918.8	925.1
142.5°	730.9	772.0	810.0	841.5	866.0	879.9	881.1
145°	706.5	738.6	768.7	793.4	811.1	821.4	824.6
147.5°	686.6	711.7	733.6	754.1	768.2	775.3	777.1
150°	673.3	695.1	713.7	729.2	741.7	747.9	748.9
152.5°	662.5	681.0	697.1	709.4	720.1	724.7	724.9
155°	645.3	660.8	672.3	683.7	690.9	695.1	693.0
157.5°	627.9	641.0	649.9	658.0	664.0	665.8	665.8
160°	616.4	627.8	635.0	642.2	647.4	648.5	648.5
162.5°	605.6	615.3	620.9	628.1	631.7	632.7	631.9
165°	589.4	596.6	600.8	604.9	609.1	609.1	608.1
167.5°	574.7	579.7	583.4	585.2	587.5	587.4	586.1
170°	565.6	569.7	571.8	572.8	576.0	574.9	572.8
172.5°	557.3	560.6	561.9	562.9	564.4	563.3	562.0
175°	548.0	549.0	550.0	550.0	551.1	550.0	548.0
177.5°	541.2	542.0	542.0	542.0	542.0	541.2	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7

(END OF REPORT)