

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: P332434-840

Luminaire Tested: **S123RDIW-S775D755U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332434-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D755U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6128.2 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

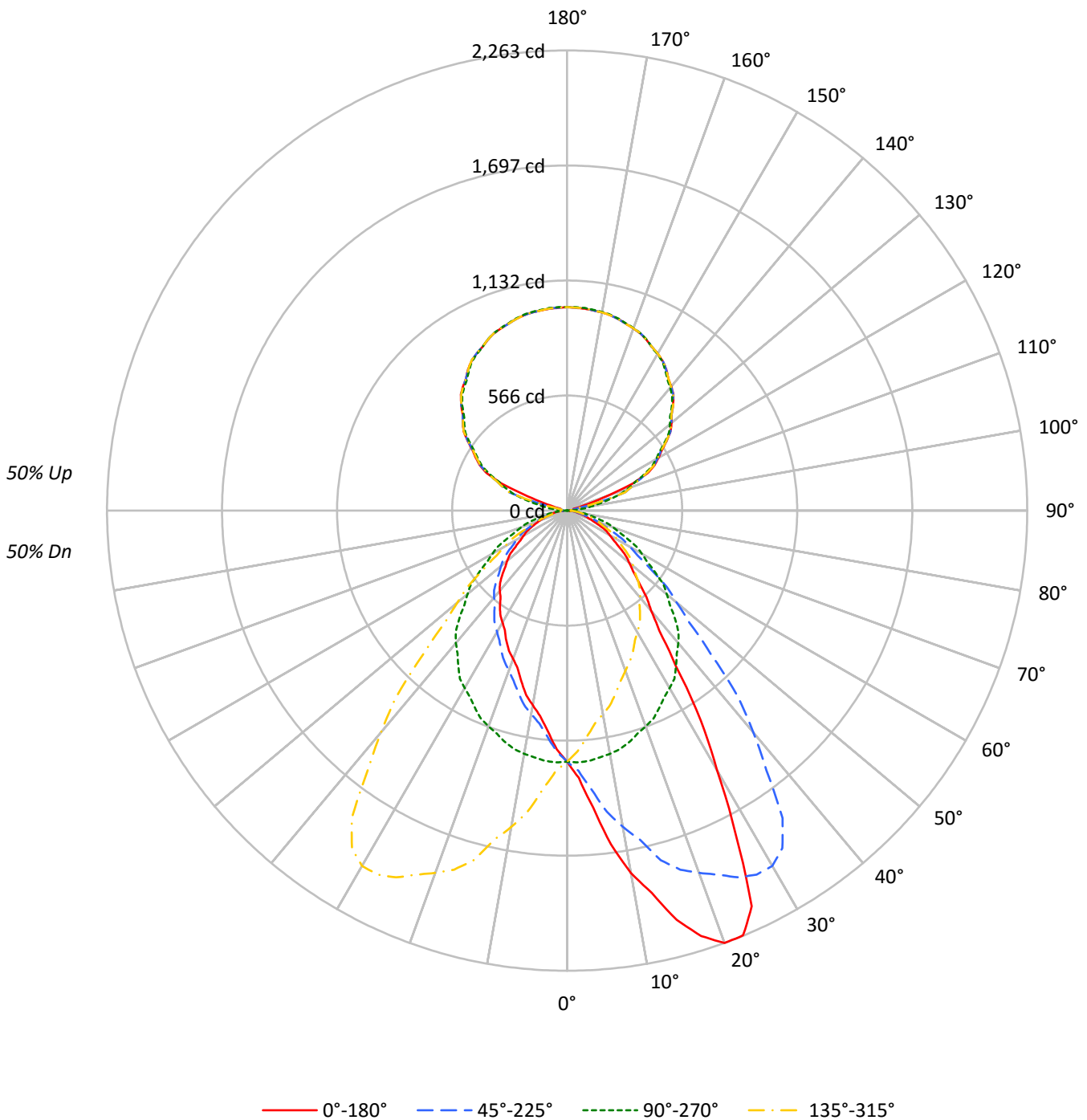
Input Watts (W): 45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	98	94	91	87	91	87	84	81	74	72	70		62	60	59		51	50	49	43
2	90	83	77	72	83	77	72	68	66	62	59		55	52	50		45	44	42	37
3	83	73	66	61	76	68	62	57	58	54	50		49	46	43		41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43		44	40	37		37	34	32	28
5	70	59	51	45	64	55	48	42	47	42	38		40	36	33		33	30	28	25
6	64	53	45	39	59	49	42	37	43	37	33		36	32	29		30	27	25	22
7	60	48	40	35	55	45	38	33	39	33	29		33	29	26		28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26		30	26	23		26	23	20	18
9	52	40	32	28	48	37	31	26	33	27	24		28	24	21		24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21		26	22	19		22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13295	13295	13295	13295
5°	15847	13351	11757	13351
10°	19787	13274	10622	13274
15°	23226	13138	9686	13138
20°	25921	12936	8891	12936
25°	25508	12722	8402	12722
30°	18334	12525	7899	12525
35°	12242	12269	7573	12269
40°	9020	11960	7235	11960
45°	7566	11420	6905	11420
50°	6677	10712	6445	10712
55°	5853	9903	5814	9903
60°	5214	9128	5326	9128
65°	4579	8295	4956	8295
70°	3594	7553	4526	7553
75°	3165	6596	4134	6596
80°	2752	5604	4060	5604
85°	2223	4508	4310	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	2.0
10°-20°	379.5	6.2
20°-30°	596.1	9.7
30°-40°	621.9	10.1
40°-50°	532.3	8.7
50°-60°	405.7	6.6
60°-70°	260.0	4.2
70°-80°	125.1	2.0
80°-90°	35.9	0.6
90°-100°	36.4	0.6
100°-110°	173.3	2.8
110°-120°	416.3	6.8
120°-130°	530.1	8.7
130°-140°	566.4	9.2
140°-150°	529.7	8.6
150°-160°	427.3	7.0
160°-170°	275.7	4.5
170°-180°	95.0	1.6
0°-30°	1097.0	17.9
0°-40°	1719.0	28.1
0°-60°	2656.9	43.4
0°-90°	3077.9	50.2
90°-120°	626.0	10.2
90°-150°	2252.2	36.8
90°-180°	3050.0	49.8
0°-180°	6128.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1235	1235	1235	1235	1235	
5°	1467	1236	1088	1236	1467	151
15°	2084	1179	869	1179	2084	591
25°	2148	1071	707	1071	2148	923
35°	932	934	576	934	932	611
45°	497	750	454	750	497	391
55°	312	528	310	528	312	282
65°	180	326	195	326	180	177
75°	76	159	99	159	76	82
85°	18	36	35	36	18	21
90°	22	1	22	1	22	11
95°	28	45	28	45	28	24
105°	33	222	33	222	33	75
115°	437	415	437	415	437	404
125°	597	586	597	586	597	534
135°	736	729	736	729	736	568
145°	849	841	849	841	849	530
155°	925	927	925	927	925	427
165°	975	977	975	977	975	275
175°	996	1000	996	1000	996	95
180°	1000	1000	1000	1000	1000	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1315.5	1317.2	1311.6	1310.8	1304.4	1302.7	1302.7	1293.8	1288.4	1281.2	1277.0
5°	1466.6	1475.1	1470.9	1461.4	1445.5	1441.8	1431.8	1415.9	1398.0	1375.7	1365.1
7.5°	1655.5	1667.1	1662.6	1647.9	1631.3	1617.9	1589.5	1563.2	1526.3	1493.9	1466.2
10°	1810.3	1798.2	1788.7	1774.3	1759.1	1734.1	1704.6	1663.9	1616.8	1579.8	1538.5
12.5°	1926.2	1924.2	1912.2	1897.4	1875.8	1852.2	1815.8	1766.3	1711.5	1658.1	1610.9
15°	2084.2	2087.4	2079.4	2064.1	2033.5	1991.7	1936.7	1916.0	1837.9	1779.7	1721.5
17.5°	2193.5	2192.9	2191.8	2170.6	2139.3	2109.6	2058.6	2004.4	1933.5	1851.6	1773.2
20°	2262.9	2257.7	2258.7	2234.8	2211.6	2177.3	2127.6	2048.8	1990.6	1896.0	1815.0
22.5°	2261.2	2260.2	2264.2	2256.0	2239.1	2212.8	2173.6	2107.2	2033.0	1937.4	1846.3
25°	2147.7	2143.4	2168.3	2175.1	2202.1	2206.9	2195.2	2158.8	2088.4	1990.0	1877.4
27.5°	1797.5	1795.1	1841.2	1899.0	1972.1	2029.0	2084.0	2110.5	2088.4	2018.0	1905.2
30°	1475.1	1524.8	1548.1	1631.6	1724.6	1835.7	1933.0	2025.5	2048.2	2017.6	1925.0
32.5°	1224.8	1268.1	1287.5	1359.2	1445.9	1576.0	1721.9	1852.9	1945.5	1968.9	1913.2
35°	931.6	932.1	976.5	1008.2	1088.6	1222.3	1364.1	1539.6	1714.0	1846.2	1860.0
37.5°	743.4	746.0	772.8	804.5	864.7	935.5	1060.3	1206.2	1407.8	1610.6	1729.6
40°	641.9	646.6	666.7	697.9	741.2	794.7	891.9	1029.5	1197.5	1423.3	1607.8
42.5°	576.7	584.4	594.8	618.8	645.7	695.7	774.4	880.5	1033.4	1246.9	1459.8
45°	497.0	501.2	509.2	520.3	544.6	579.5	632.4	703.7	830.6	1002.5	1215.5
47.5°	438.4	436.2	444.5	453.5	469.7	493.5	529.0	587.2	677.7	815.6	996.3
50°	398.7	398.1	403.9	410.8	426.2	443.6	472.7	516.5	588.4	702.7	868.2
52.5°	361.4	363.5	367.6	376.2	387.2	401.3	427.4	459.0	520.8	619.4	757.3
55°	311.9	313.6	319.3	324.1	332.0	346.3	362.7	389.1	431.4	500.2	613.8
57.5°	270.0	269.3	274.9	276.1	285.1	296.7	309.4	329.9	360.6	411.6	488.2
60°	242.2	240.5	245.3	249.0	253.8	263.3	273.9	294.0	318.3	355.8	421.4
62.5°	216.8	216.0	219.5	223.2	227.1	235.8	244.7	260.1	279.3	311.0	363.0
65°	179.8	181.4	182.9	184.5	186.6	191.9	200.4	211.0	224.2	246.4	283.9
67.5°	141.3	142.9	143.4	146.6	151.2	154.5	159.7	169.1	178.2	197.0	218.3
70°	114.2	113.7	114.2	115.8	121.6	127.4	134.3	141.2	146.9	160.2	178.1
72.5°	98.2	97.1	98.6	98.9	101.7	103.3	107.7	114.1	121.6	130.6	143.5
75°	76.1	76.1	76.1	76.1	78.3	79.3	80.9	82.5	85.1	89.4	98.9
77.5°	56.2	56.4	57.1	57.7	58.1	58.7	59.7	61.2	62.2	64.4	68.6
80°	44.4	44.9	44.4	44.9	44.9	45.9	46.6	48.1	48.7	51.3	52.9
82.5°	33.4	33.1	33.4	33.9	33.9	35.0	35.1	36.3	36.4	37.8	39.4
85°	18.0	17.0	18.0	17.5	18.5	17.5	18.0	19.0	19.0	19.6	21.7
87.5°	8.7	9.5	8.6	8.9	8.9	9.2	9.1	8.9	9.6	9.1	9.1
90°	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2	18.5	17.9	15.7
92.5°	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1	20.1	19.0	17.4
95°	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3	24.2	23.0	21.2
97.5°	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6	25.2	23.9	35.9
100°	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2	25.9	24.5	50.3
102.5°	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7	44.8	48.9	77.1
105°	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3	133.5	162.8	177.6
107.5°	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4	276.8	298.3	296.0
110°	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3	329.7	335.2	333.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8	372.7	372.6	370.8
115°	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9	428.2	426.6	425.1
117.5°	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5	480.2	478.9	478.1
120°	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4	514.1	512.7	512.3
122.5°	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5	547.5	546.6	546.0
125°	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1	594.8	594.5	593.8
127.5°	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0	641.4	640.9	640.1
130°	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1	669.4	668.8	668.1
132.5°	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9	696.2	695.6	695.0
135°	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4	736.9	736.4	735.8
137.5°	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6	772.7	771.9	771.6
140°	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5	795.8	795.2	794.7
142.5°	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2	817.7	817.2	816.7
145°	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6	848.2	847.9	847.6
147.5°	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8	875.5	875.0	874.7
150°	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4	892.1	891.7	891.4
152.5°	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2	906.6	906.1	905.8
155°	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6	926.8	925.9	925.7
157.5°	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3	944.3	943.3	943.5
160°	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4	954.4	953.4	953.6
162.5°	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6	963.5	962.3	962.5
165°	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8	975.5	974.2	974.4
167.5°	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3	985.0	983.7	983.7
170°	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7	990.4	989.1	989.1
172.5°	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3	994.0	992.7	992.5
175°	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6	998.5	997.2	997.1
177.5°	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2	1000.1	999.1	999.0
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1275.3	1273.9	1268.1	1261.3	1252.4	1246.5	1241.8	1239.3	1231.7	1222.3	1216.1
5°	1354.0	1338.2	1321.3	1300.6	1281.6	1262.0	1249.9	1235.6	1218.2	1198.6	1184.9
7.5°	1438.5	1407.3	1373.8	1339.3	1305.0	1274.4	1247.4	1224.2	1196.4	1168.3	1148.7
10°	1503.2	1457.6	1410.6	1362.5	1318.6	1277.4	1245.7	1214.5	1181.1	1148.9	1124.6
12.5°	1562.0	1502.1	1447.8	1388.8	1332.6	1283.3	1237.6	1200.9	1160.8	1126.5	1098.7
15°	1636.4	1575.1	1509.4	1419.6	1345.0	1282.6	1227.2	1179.0	1130.4	1088.1	1061.2
17.5°	1706.0	1613.7	1525.6	1450.6	1353.7	1275.8	1208.0	1150.4	1097.1	1052.3	1019.1
20°	1734.7	1645.4	1549.6	1454.0	1358.8	1271.5	1192.8	1129.3	1073.8	1023.1	992.4
22.5°	1752.0	1650.8	1550.0	1447.2	1346.2	1255.5	1177.6	1107.7	1047.6	999.4	961.5
25°	1772.2	1651.7	1540.7	1439.2	1336.1	1237.7	1145.2	1071.2	1006.1	954.8	914.6
27.5°	1785.5	1643.8	1512.6	1399.7	1295.2	1197.2	1112.4	1034.0	968.0	913.7	870.6
30°	1788.1	1637.4	1491.0	1368.9	1262.5	1172.7	1082.8	1007.7	938.0	880.3	840.1
32.5°	1791.5	1621.7	1461.8	1332.0	1223.2	1134.2	1052.8	981.1	909.6	852.8	811.8
35°	1777.6	1613.2	1417.4	1268.4	1159.4	1073.3	999.8	933.7	863.4	808.4	766.6
37.5°	1717.5	1578.7	1371.6	1196.7	1082.8	1003.0	943.1	885.4	821.0	761.6	722.4
40°	1657.0	1544.9	1336.1	1153.2	1034.2	952.2	898.3	851.2	788.8	733.4	691.1
42.5°	1566.9	1498.8	1302.2	1107.4	979.2	900.2	854.7	810.6	755.9	699.5	659.7
45°	1401.6	1410.6	1232.9	1034.7	903.0	823.7	780.9	750.2	701.7	655.1	614.4
47.5°	1194.4	1278.4	1151.7	957.2	822.7	748.3	710.9	684.2	651.4	605.7	568.6
50°	1059.0	1179.0	1086.5	905.1	772.4	698.4	661.5	639.7	611.2	575.2	539.8
52.5°	934.2	1063.2	1007.8	847.2	717.9	650.3	614.1	596.2	573.5	539.7	507.7
55°	761.8	892.5	879.8	759.7	636.0	575.2	547.8	527.7	512.3	487.0	461.6
57.5°	616.3	740.1	746.7	662.5	563.9	503.8	480.2	465.0	455.0	435.9	412.4
60°	524.5	638.1	660.4	596.9	512.3	459.5	436.2	424.0	416.1	400.8	382.8
62.5°	448.4	545.1	570.3	524.6	462.8	413.3	395.2	383.4	378.0	364.8	348.9
65°	343.2	423.5	447.8	422.4	390.2	350.5	335.8	325.7	320.9	313.6	301.8
67.5°	258.0	316.6	343.3	325.4	313.8	288.7	279.2	273.9	269.6	264.6	254.9
70°	207.2	250.6	278.1	273.4	263.9	250.6	243.8	240.0	235.8	231.6	223.1
72.5°	166.6	196.5	222.3	224.7	216.9	214.2	208.2	206.6	204.1	199.0	194.4
75°	110.5	131.1	149.1	155.9	159.2	161.8	159.2	158.6	158.0	153.9	151.2
77.5°	72.4	83.5	94.8	106.5	111.6	115.1	116.0	118.0	116.5	114.3	113.0
80°	55.5	58.2	66.0	76.1	84.0	87.3	89.4	90.4	89.9	89.4	87.3
82.5°	40.3	42.5	46.3	53.3	60.0	65.2	66.6	66.3	67.5	67.8	66.0
85°	21.7	22.2	23.2	24.3	28.0	33.8	35.4	36.5	37.6	37.6	34.3
87.5°	9.5	8.6	9.1	8.7	9.6	9.7	11.9	13.7	14.4	13.0	13.4
90°	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8	13.3	12.9	12.4
95°	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3	38.6	31.8	25.0
97.5°	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1	88.1	85.0	82.0
100°	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6	128.9	132.2	135.5
102.5°	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8	167.2	169.6	172.0
105°	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5	223.3	225.1	226.9
107.5°	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1	282.7	284.1	285.6
110°	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0	322.3	323.7	325.0



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1	360.2	361.4	362.6
115°	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4	416.4	417.4	418.4
117.5°	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0	471.2	472.4	473.6
120°	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8	505.3	506.9	508.3
122.5°	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4	539.6	540.8	542.0
125°	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6	586.9	588.2	589.6
127.5°	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4	632.7	634.0	635.3
130°	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8	661.3	662.6	663.9
132.5°	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2	688.5	689.8	691.2
135°	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0	730.0	730.9	732.0
137.5°	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7	765.9	767.2	768.4
140°	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4	789.4	790.4	791.4
142.5°	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4	811.4	812.4	813.4
145°	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2	842.3	843.5	844.7
147.5°	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2	870.9	871.7	872.4
150°	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1	888.5	889.0	889.5
152.5°	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0	904.3	904.5	904.7
155°	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7	926.3	926.0	925.6
157.5°	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2	944.2	944.1	944.1
160°	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9	954.7	954.6	954.4
162.5°	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0	964.6	964.1	963.7
165°	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2	976.7	976.2	975.7
167.5°	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7	986.0	985.4	984.7
170°	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1	991.4	990.8	990.1
172.5°	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6	994.8	994.0	993.3
175°	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3	999.4	998.6	997.7
177.5°	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4	1000.8	1000.1	999.5
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1214.0	1208.4	1204.7	1196.2	1190.6	1184.8	1178.8	1182.7	1182.2	1181.7	1181.7
5°	1173.3	1161.0	1149.9	1135.7	1126.7	1115.6	1107.1	1106.1	1108.2	1100.8	1096.5
7.5°	1132.9	1116.2	1100.4	1084.7	1068.0	1054.7	1046.3	1042.4	1037.0	1032.5	1027.7
10°	1104.5	1084.9	1069.5	1050.1	1032.1	1016.2	1006.1	999.3	995.5	991.9	985.0
12.5°	1075.3	1056.1	1036.6	1014.5	997.3	979.0	971.5	963.7	956.6	952.5	943.1
15°	1032.6	1007.7	987.1	963.8	944.8	926.9	916.3	900.9	898.8	893.5	884.0
17.5°	989.8	962.8	934.3	917.2	895.6	877.0	860.8	855.7	840.5	834.9	826.6
20°	955.9	931.1	909.4	886.7	855.5	838.0	825.4	818.5	806.3	798.9	793.6
22.5°	926.8	901.5	876.4	849.9	824.2	804.6	795.3	784.6	778.0	767.6	761.8
25°	885.0	857.6	827.5	798.9	780.4	765.6	750.7	741.2	731.7	727.0	716.4
27.5°	836.7	807.9	779.7	758.1	735.4	720.7	707.3	698.8	687.4	679.4	673.6
30°	810.0	776.2	751.8	732.3	703.2	689.4	679.4	668.8	660.4	651.9	646.1
32.5°	779.1	748.2	725.2	700.9	678.6	663.7	650.7	641.4	634.1	626.1	620.3
35°	730.6	704.8	681.0	656.6	640.3	624.9	609.7	601.7	594.8	587.4	582.1
37.5°	686.9	662.7	640.1	617.0	596.7	584.2	571.9	565.8	556.5	551.6	546.1
40°	659.8	636.0	611.7	589.6	568.4	558.9	547.8	538.8	530.3	526.6	520.8
42.5°	630.3	606.4	585.9	562.0	544.7	531.8	521.5	511.7	505.3	500.0	496.7
45°	586.3	565.2	545.1	521.3	504.9	493.8	482.2	473.2	467.4	463.7	457.9
47.5°	543.7	522.6	502.2	481.4	465.5	452.9	441.3	435.0	427.3	422.7	418.9
50°	512.8	493.8	472.1	453.1	437.3	424.5	415.1	407.1	400.2	394.5	391.8
52.5°	484.5	464.2	445.5	427.8	411.0	396.7	388.0	379.6	374.5	367.8	364.7
55°	437.8	418.2	402.3	384.9	368.5	356.4	345.8	338.4	333.1	325.7	321.4
57.5°	393.8	376.4	357.4	342.2	325.4	315.1	306.3	296.3	289.8	284.1	279.9
60°	364.3	344.2	327.8	313.6	298.7	285.5	277.6	269.6	262.8	256.9	253.3
62.5°	333.5	315.9	300.3	284.8	271.2	259.7	250.5	243.9	237.8	234.1	230.5
65°	286.0	272.3	256.4	243.8	231.1	222.6	215.2	209.3	205.1	202.5	199.3
67.5°	242.5	229.1	215.3	202.8	194.4	187.9	183.1	178.0	175.9	172.6	170.5
70°	214.1	200.4	188.2	178.7	170.3	165.5	162.3	158.6	156.5	152.3	150.2
72.5°	183.3	173.3	164.5	156.7	150.0	145.6	141.6	137.0	133.7	129.0	126.9
75°	144.3	135.3	128.5	123.2	119.0	113.1	107.3	102.6	101.0	99.4	98.9
77.5°	106.9	101.2	96.2	91.8	86.5	82.3	81.0	80.0	79.6	78.8	78.8
80°	84.0	78.8	75.0	69.8	66.7	66.7	66.7	65.5	66.0	66.0	66.0
82.5°	62.5	57.7	55.6	53.7	53.1	53.5	53.5	53.7	53.4	54.2	53.8
85°	32.2	32.8	33.8	33.3	33.8	33.8	34.9	34.3	34.9	33.8	34.9
87.5°	13.3	14.9	15.9	16.7	17.5	17.6	18.1	18.2	18.8	18.9	19.0
90°	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2	19.8	20.5	21.0
92.5°	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1	22.2	23.2	23.8
95°	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3	26.5	27.7	28.3
97.5°	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6	27.9	29.2	30.0
100°	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2	28.5	29.8	30.6
102.5°	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7	36.7	32.5	30.6
105°	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3	75.0	45.8	31.4
107.5°	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4	234.0	212.6	190.9
110°	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3	318.8	313.4	298.8



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8	372.9	373.0	370.5
115°	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9	431.5	433.1	434.3
117.5°	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5	482.8	484.1	484.8
120°	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4	516.7	518.1	518.7
122.5°	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5	549.4	550.4	550.9
125°	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1	595.5	595.8	596.1
127.5°	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0	642.5	643.0	643.1
130°	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1	670.8	671.5	671.7
132.5°	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9	697.5	698.2	698.3
135°	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4	737.9	738.4	738.4
137.5°	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6	774.4	775.2	775.4
140°	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5	797.1	797.8	798.0
142.5°	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2	818.7	819.2	819.3
145°	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6	848.9	849.2	849.4
147.5°	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8	876.1	876.5	876.2
150°	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4	892.7	893.0	893.0
152.5°	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2	907.8	908.4	908.3
155°	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6	928.4	929.3	929.2
157.5°	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3	946.2	947.3	947.2
160°	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4	956.4	957.4	957.4
162.5°	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6	965.7	966.8	966.8
165°	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8	978.2	979.5	979.6
167.5°	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3	987.7	989.1	989.1
170°	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7	993.1	994.4	994.4
172.5°	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3	996.6	997.9	997.8
175°	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6	1000.8	1001.9	1001.8
177.5°	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2	1002.2	1003.3	1003.1
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1176.7	1176.3	1176.7	1175.0	1176.7	1176.3	1176.7	1181.7	1181.7	1182.2	1182.7
5°	1095.0	1094.4	1092.9	1088.1	1092.9	1094.4	1095.0	1096.5	1100.8	1108.2	1106.1
7.5°	1023.6	1022.9	1018.2	1018.3	1018.2	1022.9	1023.6	1027.7	1032.5	1037.0	1042.4
10°	981.3	981.8	975.5	971.8	975.5	981.8	981.3	985.0	991.9	995.5	999.3
12.5°	940.3	937.9	932.7	928.7	932.7	937.9	940.3	943.1	952.5	956.6	963.7
15°	886.2	880.8	868.2	869.2	868.2	880.8	886.2	884.0	893.5	898.8	900.9
17.5°	822.3	818.5	818.2	810.8	818.2	818.5	822.3	826.6	834.9	840.5	855.7
20°	785.2	782.5	783.6	776.2	783.6	782.5	785.2	793.6	798.9	806.3	818.5
22.5°	756.0	753.4	748.9	746.6	748.9	753.4	756.0	761.8	767.6	778.0	784.6
25°	713.3	709.0	704.8	707.4	704.8	709.0	713.3	716.4	727.0	731.7	741.2
27.5°	670.6	667.3	663.1	662.6	663.1	667.3	670.6	673.6	679.4	687.4	698.8
30°	643.5	640.3	638.1	635.5	638.1	640.3	643.5	646.1	651.9	660.4	668.8
32.5°	615.9	615.3	611.5	611.0	611.5	615.3	615.9	620.3	626.1	634.1	641.4
35°	580.0	576.8	575.7	576.3	575.7	576.8	580.0	582.1	587.4	594.8	601.7
37.5°	545.8	541.6	539.7	537.9	539.7	541.6	545.8	546.1	551.6	556.5	565.8
40°	521.3	517.1	516.0	514.9	516.0	517.1	521.3	520.8	526.6	530.3	538.8
42.5°	493.8	492.1	491.5	489.6	491.5	492.1	493.8	496.7	500.0	505.3	511.7
45°	456.3	455.8	452.6	453.6	452.6	455.8	456.3	457.9	463.7	467.4	473.2
47.5°	416.8	414.4	412.2	413.6	412.2	414.4	416.8	418.9	422.7	427.3	435.0
50°	389.7	388.6	383.8	384.9	383.8	388.6	389.7	391.8	394.5	400.2	407.1
52.5°	362.6	358.6	356.8	356.2	356.8	358.6	362.6	364.7	367.8	374.5	379.6
55°	317.8	313.0	310.8	309.8	310.8	313.0	317.8	321.4	325.7	333.1	338.4
57.5°	273.8	272.5	270.8	272.0	270.8	272.5	273.8	279.9	284.1	289.8	296.3
60°	247.9	247.9	247.9	247.4	247.9	247.9	247.9	253.3	256.9	262.8	269.6
62.5°	228.1	226.8	226.4	227.1	226.4	226.8	228.1	230.5	234.1	237.8	243.9
65°	197.7	197.2	195.1	194.6	195.1	197.2	197.7	199.3	202.5	205.1	209.3
67.5°	169.1	167.1	166.5	165.8	166.5	167.1	169.1	170.5	172.6	175.9	178.0
70°	147.5	146.4	143.3	143.8	143.3	146.4	147.5	150.2	152.3	156.5	158.6
72.5°	124.2	123.2	122.6	121.8	122.6	123.2	124.2	126.9	129.0	133.7	137.0
75°	98.4	97.9	97.3	99.4	97.3	97.9	98.4	98.9	99.4	101.0	102.6
77.5°	78.8	78.8	79.1	78.3	79.1	78.8	78.8	78.8	78.8	79.6	80.0
80°	66.0	66.0	65.5	65.5	65.5	66.0	66.0	66.0	66.0	66.0	65.5
82.5°	53.0	53.4	53.7	52.9	53.7	53.4	53.0	53.8	54.2	53.4	53.7
85°	34.9	34.3	35.4	34.9	35.4	34.3	34.9	34.9	33.8	34.9	34.3
87.5°	19.9	19.1	19.2	19.7	19.2	19.1	19.9	19.0	18.9	18.8	18.2
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2
92.5°	24.0	24.2	24.4	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1
95°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3
97.5°	30.1	30.3	30.5	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6
100°	30.7	30.9	31.0	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2
102.5°	30.9	31.2	31.5	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7
105°	31.7	32.0	32.4	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3
107.5°	168.7	146.7	124.7	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4
110°	275.2	251.6	227.9	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.6	360.6	355.6	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8
115°	434.9	435.7	436.3	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9
117.5°	485.0	485.1	485.2	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5
120°	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4
122.5°	551.0	551.1	551.3	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5
125°	596.5	596.8	597.1	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1
127.5°	642.8	642.4	642.1	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0
130°	671.3	671.0	670.7	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1
132.5°	697.8	697.4	696.9	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9
135°	737.9	737.4	736.9	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4
137.5°	775.1	774.7	774.4	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6
140°	797.6	797.3	797.0	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5
142.5°	818.8	818.4	817.9	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2
145°	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6
147.5°	875.5	874.6	873.9	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8
150°	892.5	892.0	891.5	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4
152.5°	907.6	906.8	906.1	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2
155°	928.2	927.2	926.1	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6
157.5°	945.8	944.5	943.3	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3
160°	956.1	955.0	953.8	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4
162.5°	965.8	964.8	963.8	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6
165°	978.5	977.2	976.1	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8
167.5°	987.7	986.3	985.0	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3
170°	993.1	991.7	990.4	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7
172.5°	996.4	995.0	993.5	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3
175°	1000.5	999.2	997.8	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6
177.5°	1001.8	1000.5	999.2	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332434-840

CATALOG NUMBER: S123RDIW-S775D755U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1178.8	1184.8	1190.6	1196.2	1204.7	1208.4	1214.0	1216.1	1222.3	1231.7	1239.3
5°	1107.1	1115.6	1126.7	1135.7	1149.9	1161.0	1173.3	1184.9	1198.6	1218.2	1235.6
7.5°	1046.3	1054.7	1068.0	1084.7	1100.4	1116.2	1132.9	1148.7	1168.3	1196.4	1224.2
10°	1006.1	1016.2	1032.1	1050.1	1069.5	1084.9	1104.5	1124.6	1148.9	1181.1	1214.5
12.5°	971.5	979.0	997.3	1014.5	1036.6	1056.1	1075.3	1098.7	1126.5	1160.8	1200.9
15°	916.3	926.9	944.8	963.8	987.1	1007.7	1032.6	1061.2	1088.1	1130.4	1179.0
17.5°	860.8	877.0	895.6	917.2	934.3	962.8	989.8	1019.1	1052.3	1097.1	1150.4
20°	825.4	838.0	855.5	886.7	909.4	931.1	955.9	992.4	1023.1	1073.8	1129.3
22.5°	795.3	804.6	824.2	849.9	876.4	901.5	926.8	961.5	999.4	1047.6	1107.7
25°	750.7	765.6	780.4	798.9	827.5	857.6	885.0	914.6	954.8	1006.1	1071.2
27.5°	707.3	720.7	735.4	758.1	779.7	807.9	836.7	870.6	913.7	968.0	1034.0
30°	679.4	689.4	703.2	732.3	751.8	776.2	810.0	840.1	880.3	938.0	1007.7
32.5°	650.7	663.7	678.6	700.9	725.2	748.2	779.1	811.8	852.8	909.6	981.1
35°	609.7	624.9	640.3	656.6	681.0	704.8	730.6	766.6	808.4	863.4	933.7
37.5°	571.9	584.2	596.7	617.0	640.1	662.7	686.9	722.4	761.6	821.0	885.4
40°	547.8	558.9	568.4	589.6	611.7	636.0	659.8	691.1	733.4	788.8	851.2
42.5°	521.5	531.8	544.7	562.0	585.9	606.4	630.3	659.7	699.5	755.9	810.6
45°	482.2	493.8	504.9	521.3	545.1	565.2	586.3	614.4	655.1	701.7	750.2
47.5°	441.3	452.9	465.5	481.4	502.2	522.6	543.7	568.6	605.7	651.4	684.2
50°	415.1	424.5	437.3	453.1	472.1	493.8	512.8	539.8	575.2	611.2	639.7
52.5°	388.0	396.7	411.0	427.8	445.5	464.2	484.5	507.7	539.7	573.5	596.2
55°	345.8	356.4	368.5	384.9	402.3	418.2	437.8	461.6	487.0	512.3	527.7
57.5°	306.3	315.1	325.4	342.2	357.4	376.4	393.8	412.4	435.9	455.0	465.0
60°	277.6	285.5	298.7	313.6	327.8	344.2	364.3	382.8	400.8	416.1	424.0
62.5°	250.5	259.7	271.2	284.8	300.3	315.9	333.5	348.9	364.8	378.0	383.4
65°	215.2	222.6	231.1	243.8	256.4	272.3	286.0	301.8	313.6	320.9	325.7
67.5°	183.1	187.9	194.4	202.8	215.3	229.1	242.5	254.9	264.6	269.6	273.9
70°	162.3	165.5	170.3	178.7	188.2	200.4	214.1	223.1	231.6	235.8	240.0
72.5°	141.6	145.6	150.0	156.7	164.5	173.3	183.3	194.4	199.0	204.1	206.6
75°	107.3	113.1	119.0	123.2	128.5	135.3	144.3	151.2	153.9	158.0	158.6
77.5°	81.0	82.3	86.5	91.8	96.2	101.2	106.9	113.0	114.3	116.5	118.0
80°	66.7	66.7	66.7	69.8	75.0	78.8	84.0	87.3	89.4	89.9	90.4
82.5°	53.5	53.5	53.1	53.7	55.6	57.7	62.5	66.0	67.8	67.5	66.3
85°	34.9	33.8	33.8	33.3	33.8	32.8	32.2	34.3	37.6	37.6	36.5
87.5°	18.1	17.6	17.5	16.7	15.9	14.9	13.3	13.4	13.0	14.4	13.7
90°	18.5	17.9	15.7	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7
92.5°	20.1	19.0	17.4	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8
95°	24.2	23.0	21.2	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3
97.5°	25.2	23.9	35.9	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1
100°	25.9	24.5	50.3	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6
102.5°	44.8	48.9	77.1	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8
105°	133.5	162.8	177.6	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5
107.5°	276.8	298.3	296.0	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1
110°	329.7	335.2	333.4	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.7	372.6	370.8	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1
115°	428.2	426.6	425.1	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4
117.5°	480.2	478.9	478.1	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0
120°	514.1	512.7	512.3	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8
122.5°	547.5	546.6	546.0	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4
125°	594.8	594.5	593.8	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6
127.5°	641.4	640.9	640.1	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4
130°	669.4	668.8	668.1	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8
132.5°	696.2	695.6	695.0	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2
135°	736.9	736.4	735.8	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0
137.5°	772.7	771.9	771.6	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7
140°	795.8	795.2	794.7	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4
142.5°	817.7	817.2	816.7	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4
145°	848.2	847.9	847.6	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2
147.5°	875.5	875.0	874.7	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2
150°	892.1	891.7	891.4	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1
152.5°	906.6	906.1	905.8	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0
155°	926.8	925.9	925.7	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7
157.5°	944.3	943.3	943.5	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2
160°	954.4	953.4	953.6	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9
162.5°	963.5	962.3	962.5	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0
165°	975.5	974.2	974.4	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2
167.5°	985.0	983.7	983.7	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7
170°	990.4	989.1	989.1	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1
172.5°	994.0	992.7	992.5	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6
175°	998.5	997.2	997.1	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3
177.5°	1000.1	999.1	999.0	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332434-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1241.8	1246.5	1252.4	1261.3	1268.1	1273.9	1275.3	1277.0	1281.2	1288.4	1293.8
5°	1249.9	1262.0	1281.6	1300.6	1321.3	1338.2	1354.0	1365.1	1375.7	1398.0	1415.9
7.5°	1247.4	1274.4	1305.0	1339.3	1373.8	1407.3	1438.5	1466.2	1493.9	1526.3	1563.2
10°	1245.7	1277.4	1318.6	1362.5	1410.6	1457.6	1503.2	1538.5	1579.8	1616.8	1663.9
12.5°	1237.6	1283.3	1332.6	1388.8	1447.8	1502.1	1562.0	1610.9	1658.1	1711.5	1766.3
15°	1227.2	1282.6	1345.0	1419.6	1509.4	1575.1	1636.4	1721.5	1779.7	1837.9	1916.0
17.5°	1208.0	1275.8	1353.7	1450.6	1525.6	1613.7	1706.0	1773.2	1851.6	1933.5	2004.4
20°	1192.8	1271.5	1358.8	1454.0	1549.6	1645.4	1734.7	1815.0	1896.0	1990.6	2048.8
22.5°	1177.6	1255.5	1346.2	1447.2	1550.0	1650.8	1752.0	1846.3	1937.4	2033.0	2107.2
25°	1145.2	1237.7	1336.1	1439.2	1540.7	1651.7	1772.2	1877.4	1990.0	2088.4	2158.8
27.5°	1112.4	1197.2	1295.2	1399.7	1512.6	1643.8	1785.5	1905.2	2018.0	2088.4	2110.5
30°	1082.8	1172.7	1262.5	1368.9	1491.0	1637.4	1788.1	1925.0	2017.6	2048.2	2025.5
32.5°	1052.8	1134.2	1223.2	1332.0	1461.8	1621.7	1791.5	1913.2	1968.9	1945.5	1852.9
35°	999.8	1073.3	1159.4	1268.4	1417.4	1613.2	1777.6	1860.0	1846.2	1714.0	1539.6
37.5°	943.1	1003.0	1082.8	1196.7	1371.6	1578.7	1717.5	1729.6	1610.6	1407.8	1206.2
40°	898.3	952.2	1034.2	1153.2	1336.1	1544.9	1657.0	1607.8	1423.3	1197.5	1029.5
42.5°	854.7	900.2	979.2	1107.4	1302.2	1498.8	1566.9	1459.8	1246.9	1033.4	880.5
45°	780.9	823.7	903.0	1034.7	1232.9	1410.6	1401.6	1215.5	1002.5	830.6	703.7
47.5°	710.9	748.3	822.7	957.2	1151.7	1278.4	1194.4	996.3	815.6	677.7	587.2
50°	661.5	698.4	772.4	905.1	1086.5	1179.0	1059.0	868.2	702.7	588.4	516.5
52.5°	614.1	650.3	717.9	847.2	1007.8	1063.2	934.2	757.3	619.4	520.8	459.0
55°	547.8	575.2	636.0	759.7	879.8	892.5	761.8	613.8	500.2	431.4	389.1
57.5°	480.2	503.8	563.9	662.5	746.7	740.1	616.3	488.2	411.6	360.6	329.9
60°	436.2	459.5	512.3	596.9	660.4	638.1	524.5	421.4	355.8	318.3	294.0
62.5°	395.2	413.3	462.8	524.6	570.3	545.1	448.4	363.0	311.0	279.3	260.1
65°	335.8	350.5	390.2	422.4	447.8	423.5	343.2	283.9	246.4	224.2	211.0
67.5°	279.2	288.7	313.8	325.4	343.3	316.6	258.0	218.3	197.0	178.2	169.1
70°	243.8	250.6	263.9	273.4	278.1	250.6	207.2	178.1	160.2	146.9	141.2
72.5°	208.2	214.2	216.9	224.7	222.3	196.5	166.6	143.5	130.6	121.6	114.1
75°	159.2	161.8	159.2	155.9	149.1	131.1	110.5	98.9	89.4	85.1	82.5
77.5°	116.0	115.1	111.6	106.5	94.8	83.5	72.4	68.6	64.4	62.2	61.2
80°	89.4	87.3	84.0	76.1	66.0	58.2	55.5	52.9	51.3	48.7	48.1
82.5°	66.6	65.2	60.0	53.3	46.3	42.5	40.3	39.4	37.8	36.4	36.3
85°	35.4	33.8	28.0	24.3	23.2	22.2	21.7	21.7	19.6	19.0	19.0
87.5°	11.9	9.7	9.6	8.7	9.1	8.6	9.5	9.1	9.1	9.6	8.9
90°	2.4	4.0	5.7	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2
92.5°	13.3	12.9	12.4	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1
95°	38.6	31.8	25.0	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3
97.5°	88.1	85.0	82.0	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6
100°	128.9	132.2	135.5	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2
102.5°	167.2	169.6	172.0	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7
105°	223.3	225.1	226.9	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3
107.5°	282.7	284.1	285.6	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4
110°	322.3	323.7	325.0	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	360.2	361.4	362.6	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8
115°	416.4	417.4	418.4	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9
117.5°	471.2	472.4	473.6	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5
120°	505.3	506.9	508.3	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4
122.5°	539.6	540.8	542.0	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5
125°	586.9	588.2	589.6	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1
127.5°	632.7	634.0	635.3	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0
130°	661.3	662.6	663.9	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1
132.5°	688.5	689.8	691.2	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9
135°	730.0	730.9	732.0	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4
137.5°	765.9	767.2	768.4	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6
140°	789.4	790.4	791.4	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5
142.5°	811.4	812.4	813.4	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2
145°	842.3	843.5	844.7	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6
147.5°	870.9	871.7	872.4	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8
150°	888.5	889.0	889.5	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4
152.5°	904.3	904.5	904.7	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2
155°	926.3	926.0	925.6	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6
157.5°	944.2	944.1	944.1	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3
160°	954.7	954.6	954.4	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4
162.5°	964.6	964.1	963.7	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6
165°	976.7	976.2	975.7	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8
167.5°	986.0	985.4	984.7	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3
170°	991.4	990.8	990.1	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7
172.5°	994.8	994.0	993.3	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3
175°	999.4	998.6	997.7	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6
177.5°	1000.8	1000.1	999.5	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1302.7	1302.7	1304.4	1310.8	1311.6	1317.2	1315.5
5°	1431.8	1441.8	1445.5	1461.4	1470.9	1475.1	1466.6
7.5°	1589.5	1617.9	1631.3	1647.9	1662.6	1667.1	1655.5
10°	1704.6	1734.1	1759.1	1774.3	1788.7	1798.2	1810.3
12.5°	1815.8	1852.2	1875.8	1897.4	1912.2	1924.2	1926.2
15°	1936.7	1991.7	2033.5	2064.1	2079.4	2087.4	2084.2
17.5°	2058.6	2109.6	2139.3	2170.6	2191.8	2192.9	2193.5
20°	2127.6	2177.3	2211.6	2234.8	2258.7	2257.7	2262.9
22.5°	2173.6	2212.8	2239.1	2256.0	2264.2	2260.2	2261.2
25°	2195.2	2206.9	2202.1	2175.1	2168.3	2143.4	2147.7
27.5°	2084.0	2029.0	1972.1	1899.0	1841.2	1795.1	1797.5
30°	1933.0	1835.7	1724.6	1631.6	1548.1	1524.8	1475.1
32.5°	1721.9	1576.0	1445.9	1359.2	1287.5	1268.1	1224.8
35°	1364.1	1222.3	1088.6	1008.2	976.5	932.1	931.6
37.5°	1060.3	935.5	864.7	804.5	772.8	746.0	743.4
40°	891.9	794.7	741.2	697.9	666.7	646.6	641.9
42.5°	774.4	695.7	645.7	618.8	594.8	584.4	576.7
45°	632.4	579.5	544.6	520.3	509.2	501.2	497.0
47.5°	529.0	493.5	469.7	453.5	444.5	436.2	438.4
50°	472.7	443.6	426.2	410.8	403.9	398.1	398.7
52.5°	427.4	401.3	387.2	376.2	367.6	363.5	361.4
55°	362.7	346.3	332.0	324.1	319.3	313.6	311.9
57.5°	309.4	296.7	285.1	276.1	274.9	269.3	270.0
60°	273.9	263.3	253.8	249.0	245.3	240.5	242.2
62.5°	244.7	235.8	227.1	223.2	219.5	216.0	216.8
65°	200.4	191.9	186.6	184.5	182.9	181.4	179.8
67.5°	159.7	154.5	151.2	146.6	143.4	142.9	141.3
70°	134.3	127.4	121.6	115.8	114.2	113.7	114.2
72.5°	107.7	103.3	101.7	98.9	98.6	97.1	98.2
75°	80.9	79.3	78.3	76.1	76.1	76.1	76.1
77.5°	59.7	58.7	58.1	57.7	57.1	56.4	56.2
80°	46.6	45.9	44.9	44.9	44.4	44.9	44.4
82.5°	35.1	35.0	33.9	33.9	33.4	33.1	33.4
85°	18.0	17.5	18.5	17.5	18.0	17.0	18.0
87.5°	9.1	9.2	8.9	8.9	8.6	9.5	8.7
90°	19.8	20.5	21.0	21.3	21.6	21.9	22.3
92.5°	22.2	23.2	23.8	24.0	24.2	24.4	24.6
95°	26.5	27.7	28.3	28.3	28.3	28.3	28.3
97.5°	27.9	29.2	30.0	30.1	30.3	30.5	30.6
100°	28.5	29.8	30.6	30.7	30.9	31.0	31.2
102.5°	36.7	32.5	30.6	30.9	31.2	31.5	31.8
105°	75.0	45.8	31.4	31.7	32.0	32.4	32.7
107.5°	234.0	212.6	190.9	168.7	146.7	124.7	102.7
110°	318.8	313.4	298.8	275.2	251.6	227.9	204.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.9	373.0	370.5	365.6	360.6	355.6	350.6
115°	431.5	433.1	434.3	434.9	435.7	436.3	437.0
117.5°	482.8	484.1	484.8	485.0	485.1	485.2	485.4
120°	516.7	518.1	518.7	518.7	518.7	518.7	518.7
122.5°	549.4	550.4	550.9	551.0	551.1	551.3	551.4
125°	595.5	595.8	596.1	596.5	596.8	597.1	597.4
127.5°	642.5	643.0	643.1	642.8	642.4	642.1	641.8
130°	670.8	671.5	671.7	671.3	671.0	670.7	670.2
132.5°	697.5	698.2	698.3	697.8	697.4	696.9	696.4
135°	737.9	738.4	738.4	737.9	737.4	736.9	736.4
137.5°	774.4	775.2	775.4	775.1	774.7	774.4	774.1
140°	797.1	797.8	798.0	797.6	797.3	797.0	796.6
142.5°	818.7	819.2	819.3	818.8	818.4	817.9	817.4
145°	848.9	849.2	849.4	849.4	849.4	849.4	849.4
147.5°	876.1	876.5	876.2	875.5	874.6	873.9	873.1
150°	892.7	893.0	893.0	892.5	892.0	891.5	891.0
152.5°	907.8	908.4	908.3	907.6	906.8	906.1	905.2
155°	928.4	929.3	929.2	928.2	927.2	926.1	925.1
157.5°	946.2	947.3	947.2	945.8	944.5	943.3	942.0
160°	956.4	957.4	957.4	956.1	955.0	953.8	952.7
162.5°	965.7	966.8	966.8	965.8	964.8	963.8	962.8
165°	978.2	979.5	979.6	978.5	977.2	976.1	974.9
167.5°	987.7	989.1	989.1	987.7	986.3	985.0	983.7
170°	993.1	994.4	994.4	993.1	991.7	990.4	989.1
172.5°	996.6	997.9	997.8	996.4	995.0	993.5	992.1
175°	1000.8	1001.9	1001.8	1000.5	999.2	997.8	996.5
177.5°	1002.2	1003.3	1003.1	1001.8	1000.5	999.2	997.8
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3

(END OF REPORT)