

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: P332430-935

Luminaire Tested: **S123RDIW-S775D460U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332430-935
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-S775D460U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.1 lumens
Efficiency: N/A
Efficacy: 111.7 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: Semi-Direct

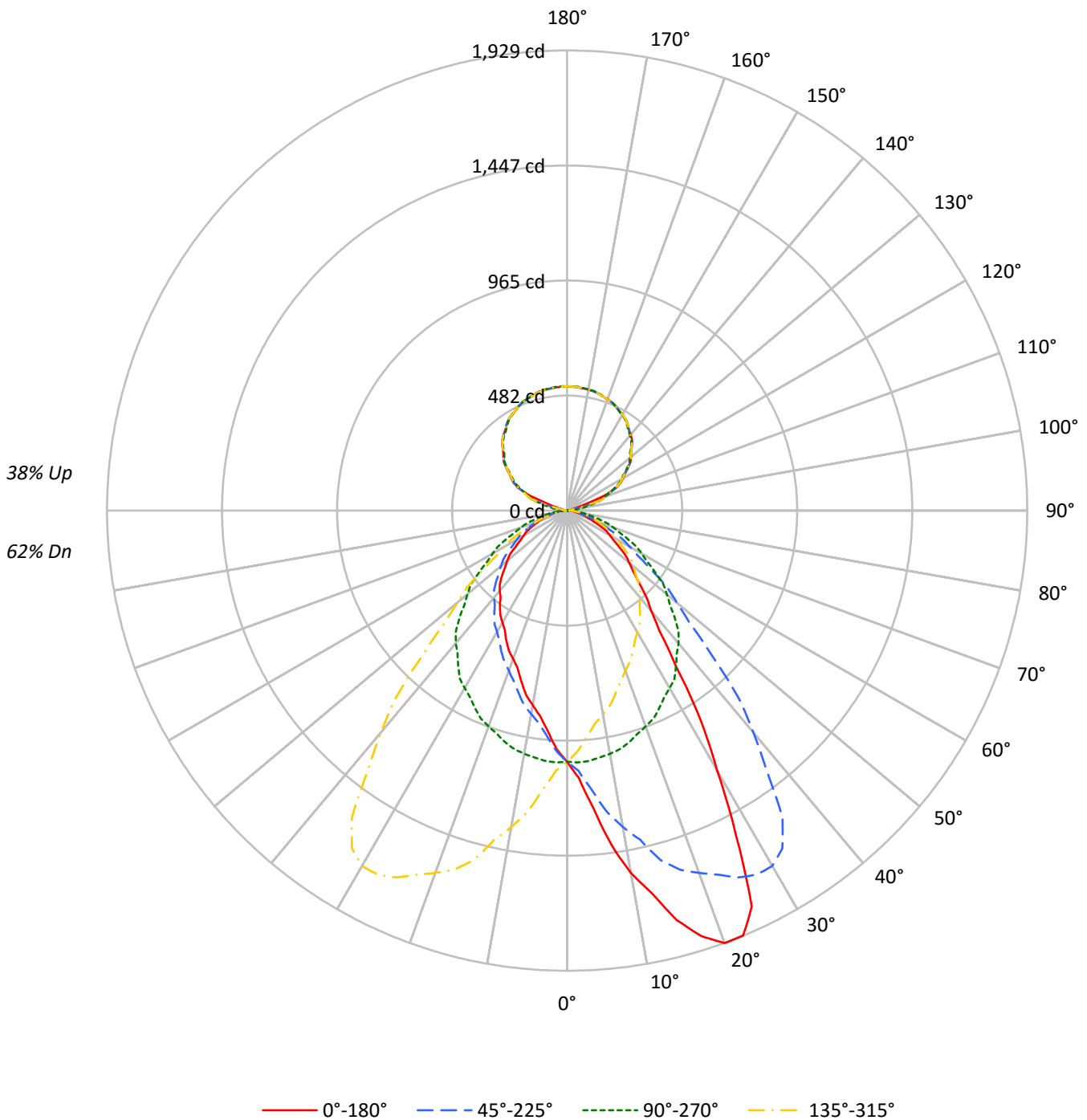
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																			
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54																			
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46																			
3	85	76	69	63	80	72	65	60	63	59	55	56	52	49	49	46	44	40																			
4	78	68	60	54	73	64	57	52	57	51	47	50	46	43	44	41	38	35																			
5	72	61	53	47	68	58	50	45	51	46	41	45	41	37	40	37	34	31																			
6	67	55	47	41	63	52	45	40	46	41	36	41	37	33	37	33	30	27																			
7	62	50	42	36	58	47	40	35	42	37	32	38	33	30	34	30	27	25																			
8	58	45	38	33	54	43	36	31	39	33	29	35	30	27	31	27	24	22																			
9	54	42	34	29	51	40	33	28	36	30	26	32	27	24	29	25	22	20																			
10	50	38	31	26	47	37	30	26	33	28	24	30	25	22	27	23	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11334	11334	11334	11334
5°	13511	11382	10024	11382
10°	16869	11317	9055	11317
15°	19801	11202	8259	11202
20°	22100	11030	7581	11030
25°	21747	10847	7163	10847
30°	15632	10679	6734	10679
35°	10437	10461	6457	10461
40°	7690	10197	6169	10197
45°	6450	9736	5888	9736
50°	5692	9133	5494	9133
55°	4992	8443	4958	8443
60°	4445	7782	4540	7782
65°	3904	7073	4225	7073
70°	3065	6442	3858	6442
75°	2699	5627	3523	5627
80°	2349	4779	3465	4779
85°	1890	3841	3680	3841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.5
10°-20°	323.5	7.7
20°-30°	508.3	12.1
30°-40°	530.3	12.6
40°-50°	453.8	10.8
50°-60°	345.9	8.2
60°-70°	221.7	5.3
70°-80°	106.6	2.5
80°-90°	29.7	0.7
90°-100°	18.9	0.4
100°-110°	90.2	2.1
110°-120°	216.7	5.1
120°-130°	276.0	6.6
130°-140°	294.8	7.0
140°-150°	275.7	6.5
150°-160°	222.4	5.3
160°-170°	143.5	3.4
170°-180°	49.5	1.2
0°-30°	935.3	22.2
0°-40°	1465.6	34.8
0°-60°	2265.3	53.8
0°-90°	2623.3	62.3
90°-120°	325.9	7.7
90°-150°	1172.4	27.8
90°-180°	1588.0	37.7
0°-180°	4211.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1053	1053	1053	1053	1053	
5°	1250	1053	928	1053	1250	129
15°	1777	1005	741	1005	1777	504
25°	1831	913	603	913	1831	787
35°	794	796	491	796	794	521
45°	424	640	387	640	424	333
55°	266	450	264	450	266	240
65°	153	278	166	278	153	151
75°	65	135	85	135	65	70
85°	15	31	30	31	15	18
90°	12	0	12	0	12	6
95°	15	24	15	24	15	12
105°	17	115	17	115	17	39
115°	228	216	228	216	228	210
125°	311	305	311	305	311	278
135°	383	379	383	379	383	296
145°	442	438	442	438	442	276
155°	482	482	482	482	482	222
165°	508	509	508	509	508	143
175°	519	521	519	521	519	49
180°	521	521	521	521	521	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1121.5	1123.0	1118.3	1117.6	1112.2	1110.7	1110.7	1103.1	1098.5	1092.4	1088.7
5°	1250.4	1257.7	1254.0	1246.0	1232.4	1229.2	1220.7	1207.2	1191.9	1172.9	1163.9
7.5°	1411.4	1421.3	1417.6	1405.0	1390.9	1379.4	1355.2	1332.7	1301.3	1273.7	1250.1
10°	1543.4	1533.1	1525.0	1512.8	1499.8	1478.5	1453.3	1418.6	1378.5	1346.9	1311.7
12.5°	1642.3	1640.5	1630.3	1617.7	1599.3	1579.2	1548.2	1505.9	1459.2	1413.7	1373.5
15°	1776.9	1779.7	1772.9	1759.8	1733.7	1698.1	1651.2	1633.6	1566.9	1517.3	1467.7
17.5°	1870.2	1869.7	1868.7	1850.6	1823.9	1798.6	1755.1	1708.9	1648.5	1578.6	1511.8
20°	1929.3	1924.9	1925.7	1905.4	1885.6	1856.3	1814.0	1746.8	1697.2	1616.5	1547.5
22.5°	1927.9	1927.0	1930.4	1923.5	1909.0	1886.6	1853.2	1796.6	1733.3	1651.8	1574.2
25°	1831.1	1827.5	1848.7	1854.5	1877.5	1881.5	1871.6	1840.6	1780.5	1696.7	1600.7
27.5°	1532.5	1530.5	1569.8	1619.0	1681.4	1729.9	1776.8	1799.4	1780.5	1720.5	1624.4
30°	1257.7	1300.0	1319.9	1391.1	1470.4	1565.1	1648.0	1726.9	1746.3	1720.2	1641.2
32.5°	1044.2	1081.2	1097.7	1158.8	1232.8	1343.7	1468.1	1579.8	1658.7	1678.7	1631.2
35°	794.3	794.7	832.6	859.6	928.2	1042.2	1163.0	1312.7	1461.4	1574.1	1585.8
37.5°	633.8	636.0	658.9	685.9	737.3	797.6	904.0	1028.4	1200.2	1373.2	1474.6
40°	547.3	551.3	568.4	595.0	632.0	677.5	760.4	877.7	1021.0	1213.5	1370.8
42.5°	491.7	498.3	507.1	527.6	550.5	593.1	660.2	750.7	881.1	1063.1	1244.6
45°	423.7	427.3	434.1	443.6	464.3	494.0	539.2	599.9	708.2	854.7	1036.3
47.5°	373.8	371.9	379.0	386.7	400.5	420.8	451.0	500.7	577.8	695.3	849.5
50°	339.9	339.4	344.4	350.3	363.3	378.2	403.0	440.4	501.7	599.1	740.2
52.5°	308.2	309.9	313.4	320.7	330.1	342.2	364.4	391.3	444.0	528.1	645.7
55°	266.0	267.3	272.2	276.3	283.1	295.2	309.3	331.7	367.8	426.5	523.3
57.5°	230.2	229.6	234.4	235.4	243.1	253.0	263.8	281.3	307.5	350.9	416.2
60°	206.5	205.1	209.1	212.3	216.4	224.5	233.5	250.6	271.4	303.3	359.3
62.5°	184.9	184.2	187.2	190.3	193.6	201.0	208.6	221.8	238.2	265.2	309.5
65°	153.3	154.6	155.9	157.3	159.1	163.6	170.8	179.9	191.1	210.1	242.0
67.5°	120.5	121.8	122.3	125.0	128.9	131.7	136.1	144.1	152.0	168.0	186.1
70°	97.4	96.9	97.4	98.8	103.7	108.7	114.5	120.4	125.3	136.6	151.9
72.5°	83.7	82.8	84.0	84.3	86.7	88.1	91.8	97.3	103.7	111.3	122.3
75°	64.9	64.9	64.9	64.9	66.7	67.6	69.0	70.3	72.6	76.2	84.3
77.5°	48.0	48.0	48.6	49.2	49.5	50.0	50.9	52.2	53.0	54.9	58.5
80°	37.9	38.3	37.9	38.3	38.3	39.2	39.7	41.0	41.5	43.7	45.1
82.5°	28.5	28.2	28.5	28.9	28.9	29.9	30.0	30.9	31.0	32.2	33.6
85°	15.3	14.5	15.3	14.9	15.8	14.9	15.3	16.2	16.2	16.7	18.5
87.5°	5.9	6.6	5.9	6.2	6.1	6.5	6.4	6.3	7.0	6.5	6.7
90°	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0	9.6	9.3	8.2
92.5°	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0	10.4	9.9	9.0
95°	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2	12.6	12.0	11.0
97.5°	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9	13.2	12.5	18.7
100°	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1	13.4	12.7	26.2
102.5°	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2	23.3	25.5	40.1
105°	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2	69.5	84.7	92.5
107.5°	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9	144.1	155.2	154.0
110°	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8	171.6	174.4	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1	194.0	194.0	193.0
115°	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8	222.9	222.1	221.3
117.5°	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6	249.9	249.3	248.9
120°	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3	267.6	266.9	266.7
122.5°	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5	285.0	284.6	284.2
125°	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8	309.6	309.4	309.1
127.5°	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2	333.9	333.6	333.2
130°	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8	348.4	348.1	347.8
132.5°	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7	362.4	362.1	361.8
135°	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8	383.6	383.3	383.0
137.5°	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7	402.3	401.8	401.7
140°	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6	414.2	413.9	413.6
142.5°	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9	425.6	425.3	425.1
145°	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7	441.5	441.3	441.2
147.5°	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9	455.7	455.6	455.4
150°	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5	464.3	464.2	464.0
152.5°	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3	471.9	471.7	471.5
155°	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8	482.4	482.0	481.9
157.5°	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1	491.5	491.0	491.1
160°	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3	496.8	496.3	496.4
162.5°	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1	501.5	500.9	501.0
165°	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5	507.8	507.1	507.2
167.5°	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5	512.8	512.1	512.1
170°	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3	515.6	514.9	514.9
172.5°	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1	517.4	516.7	516.7
175°	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3	519.7	519.1	519.0
177.5°	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2	520.6	520.0	520.0
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1087.3	1086.2	1081.2	1075.4	1067.8	1062.7	1058.8	1056.6	1050.2	1042.2	1036.8
5°	1154.4	1140.9	1126.5	1108.9	1092.7	1076.0	1065.7	1053.4	1038.6	1021.9	1010.2
7.5°	1226.4	1199.9	1171.3	1141.9	1112.7	1086.6	1063.5	1043.7	1020.0	996.1	979.4
10°	1281.6	1242.8	1202.6	1161.7	1124.2	1089.1	1062.0	1035.4	1007.0	979.6	958.8
12.5°	1331.7	1280.7	1234.4	1184.0	1136.2	1094.2	1055.2	1023.9	989.7	960.4	936.8
15°	1395.2	1342.9	1286.9	1210.3	1146.8	1093.6	1046.3	1005.2	963.8	927.7	904.7
17.5°	1454.5	1375.8	1300.7	1236.7	1154.2	1087.7	1029.9	980.9	935.4	897.2	868.8
20°	1479.0	1402.8	1321.2	1239.7	1158.5	1084.1	1016.9	962.9	915.5	872.3	846.1
22.5°	1493.7	1407.5	1321.5	1233.9	1147.7	1070.4	1004.0	944.4	893.2	852.0	819.8
25°	1511.0	1408.3	1313.5	1227.0	1139.1	1055.2	976.4	913.3	857.8	814.1	779.8
27.5°	1522.3	1401.4	1289.6	1193.3	1104.2	1020.7	948.4	881.6	825.3	779.0	742.3
30°	1524.5	1396.0	1271.2	1167.1	1076.4	999.8	923.2	859.2	799.7	750.5	716.3
32.5°	1527.4	1382.7	1246.3	1135.7	1042.9	967.0	897.6	836.5	775.5	727.1	692.2
35°	1515.5	1375.4	1208.5	1081.4	988.5	915.1	852.4	796.1	736.2	689.2	653.6
37.5°	1464.3	1346.0	1169.4	1020.3	923.2	855.1	804.1	754.9	700.0	649.4	615.9
40°	1412.7	1317.2	1139.1	983.2	881.8	811.8	765.9	725.7	672.5	625.3	589.2
42.5°	1335.9	1277.9	1110.3	944.2	834.8	767.5	728.8	691.1	644.5	596.4	562.5
45°	1195.0	1202.6	1051.2	882.2	769.9	702.3	665.8	639.6	598.2	558.5	523.8
47.5°	1018.3	1089.9	981.9	816.1	701.5	638.0	606.1	583.3	555.3	516.4	484.7
50°	902.9	1005.2	926.3	771.7	658.6	595.5	564.0	545.4	521.1	490.4	460.2
52.5°	796.5	906.5	859.3	722.3	612.1	554.4	523.6	508.3	489.0	460.1	432.8
55°	649.5	761.0	750.1	647.7	542.3	490.4	467.0	449.9	436.8	415.2	393.6
57.5°	525.5	631.0	636.6	564.8	480.8	429.6	409.4	396.5	388.0	371.6	351.6
60°	447.2	544.1	563.0	508.9	436.8	391.8	371.9	361.5	354.7	341.7	326.4
62.5°	382.3	464.8	486.2	447.3	394.6	352.4	336.9	326.9	322.3	311.0	297.5
65°	292.6	361.1	381.8	360.2	332.7	298.9	286.3	277.7	273.6	267.3	257.4
67.5°	220.0	269.9	292.7	277.4	267.5	246.2	238.1	233.5	229.9	225.6	217.3
70°	176.7	213.7	237.1	233.1	225.0	213.7	207.8	204.7	201.0	197.4	190.2
72.5°	142.1	167.6	189.5	191.6	184.9	182.6	177.5	176.2	174.0	169.7	165.7
75°	94.2	111.8	127.1	132.9	135.7	137.9	135.7	135.3	134.7	131.2	128.9
77.5°	61.7	71.2	80.8	90.8	95.1	98.2	98.9	100.6	99.4	97.5	96.3
80°	47.4	49.6	56.3	64.9	71.6	74.4	76.2	77.1	76.6	76.2	74.4
82.5°	34.4	36.2	39.4	45.5	51.1	55.6	56.7	56.6	57.5	57.8	56.3
85°	18.5	18.9	19.8	20.8	23.8	28.8	30.2	31.1	32.0	32.0	29.3
87.5°	7.1	6.6	7.1	6.9	7.8	8.0	10.0	11.6	12.1	10.8	11.0
90°	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3	1.2	2.1	2.9
92.5°	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2	7.0	6.7	6.5
95°	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6	20.1	16.5	13.0
97.5°	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4	45.8	44.3	42.7
100°	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3	67.1	68.8	70.5
102.5°	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8	87.0	88.3	89.5
105°	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3	116.2	117.2	118.1
107.5°	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4	147.1	147.9	148.6
110°	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1	167.8	168.5	169.2



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9	187.5	188.1	188.7
115°	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2	216.7	217.2	217.7
117.5°	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6	245.3	245.9	246.5
120°	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3	263.0	263.8	264.6
122.5°	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3	280.9	281.5	282.1
125°	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8	305.5	306.2	306.9
127.5°	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6	329.3	330.0	330.7
130°	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5	344.2	344.9	345.6
132.5°	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7	358.4	359.1	359.8
135°	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4	380.0	380.5	381.0
137.5°	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0	398.7	399.3	400.0
140°	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4	411.0	411.5	412.0
142.5°	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9	422.4	422.9	423.4
145°	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9	438.5	439.1	439.7
147.5°	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0	453.4	453.7	454.2
150°	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3	462.5	462.8	463.0
152.5°	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6	470.7	470.9	471.0
155°	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3	482.2	482.0	481.9
157.5°	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
160°	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1	497.0	496.9	496.8
162.5°	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3	502.1	501.9	501.7
165°	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7	508.4	508.2	507.9
167.5°	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7	513.3	513.0	512.6
170°	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4	516.1	515.7	515.4
172.5°	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2	517.9	517.5	517.0
175°	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6	520.2	519.8	519.4
177.5°	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2	520.9	520.6	520.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1035.0	1030.3	1027.1	1019.9	1015.1	1010.1	1005.0	1008.3	1008.0	1007.5	1007.5
5°	1000.3	989.9	980.4	968.3	960.6	951.1	943.9	943.1	944.9	938.5	934.9
7.5°	965.9	951.7	938.2	924.8	910.6	899.2	892.1	888.7	884.2	880.3	876.2
10°	941.7	925.0	911.9	895.3	879.9	866.4	857.8	852.0	848.8	845.7	839.8
12.5°	916.8	900.4	883.8	865.0	850.3	834.7	828.3	821.7	815.6	812.1	804.1
15°	880.4	859.2	841.6	821.7	805.6	790.2	781.2	768.1	766.3	761.8	753.7
17.5°	843.9	820.9	796.6	782.0	763.6	747.7	733.9	729.5	716.6	711.8	704.7
20°	815.0	793.8	775.3	756.0	729.4	714.5	703.7	697.8	687.4	681.1	676.6
22.5°	790.1	768.6	747.2	724.6	702.7	686.0	678.0	668.9	663.3	654.4	649.5
25°	754.6	731.2	705.5	681.1	665.4	652.7	640.1	632.0	623.9	619.8	610.8
27.5°	713.3	688.8	664.8	646.4	627.0	614.5	603.0	595.8	586.1	579.3	574.3
30°	690.6	661.8	641.0	624.3	599.5	587.8	579.3	570.2	563.0	555.8	550.9
32.5°	664.3	637.9	618.3	597.6	578.6	565.8	554.7	546.8	540.6	533.8	528.8
35°	622.9	600.9	580.6	559.8	545.9	532.8	519.8	513.0	507.1	500.8	496.3
37.5°	585.7	565.0	545.7	526.1	508.8	498.1	487.6	482.4	474.5	470.3	465.6
40°	562.6	542.3	521.5	502.7	484.6	476.5	467.0	459.3	452.1	449.0	444.0
42.5°	537.4	517.0	499.6	479.1	464.4	453.4	444.6	436.3	430.8	426.3	423.4
45°	499.9	481.9	464.8	444.4	430.5	421.0	411.1	403.5	398.5	395.4	390.4
47.5°	463.6	445.6	428.2	410.4	396.9	386.2	376.3	370.9	364.3	360.4	357.1
50°	437.2	421.0	402.5	386.3	372.8	362.0	353.9	347.1	341.2	336.3	334.1
52.5°	413.1	395.8	379.8	364.7	350.4	338.2	330.8	323.6	319.3	313.6	310.9
55°	373.2	356.5	343.0	328.1	314.2	303.8	294.8	288.5	284.0	277.7	274.1
57.5°	335.8	320.9	304.7	291.8	277.4	268.6	261.1	252.6	247.1	242.2	238.7
60°	310.6	293.4	279.5	267.3	254.7	243.4	236.7	229.9	224.0	219.0	215.9
62.5°	284.3	269.3	256.1	242.8	231.3	221.4	213.6	207.9	202.8	199.6	196.5
65°	243.8	232.1	218.6	207.8	197.0	189.8	183.5	178.5	174.9	172.6	170.0
67.5°	206.7	195.4	183.6	172.9	165.7	160.2	156.1	151.8	150.0	147.1	145.3
70°	182.5	170.8	160.5	152.4	145.2	141.1	138.4	135.3	133.5	129.8	128.0
72.5°	156.3	147.7	140.3	133.6	127.9	124.2	120.7	116.8	114.0	109.9	108.2
75°	123.0	115.4	109.5	105.0	101.4	96.4	91.5	87.5	86.1	84.7	84.3
77.5°	91.2	86.3	82.1	78.3	73.8	70.2	69.1	68.2	67.8	67.2	67.2
80°	71.6	67.2	64.0	59.5	56.8	56.8	56.8	55.9	56.3	56.3	56.3
82.5°	53.3	49.2	47.4	45.8	45.3	45.6	45.6	45.8	45.5	46.2	45.9
85°	27.5	28.0	28.8	28.4	28.8	28.8	29.8	29.3	29.8	28.8	29.8
87.5°	10.8	12.1	12.7	13.3	13.9	13.8	14.2	14.3	14.7	14.7	14.8
90°	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0	10.3	10.7	10.9
92.5°	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0	11.5	12.1	12.4
95°	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2	13.8	14.4	14.7
97.5°	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9	14.6	15.2	15.6
100°	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1	14.8	15.5	15.9
102.5°	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2	19.0	17.0	15.9
105°	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2	39.1	23.8	16.4
107.5°	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9	121.8	110.6	99.4
110°	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8	165.9	163.1	155.6



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1	194.1	194.2	192.9
115°	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8	224.6	225.5	226.1
117.5°	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6	251.3	252.0	252.4
120°	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3	269.0	269.7	270.0
122.5°	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5	286.0	286.5	286.7
125°	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8	310.0	310.1	310.3
127.5°	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2	334.4	334.7	334.8
130°	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8	349.1	349.5	349.6
132.5°	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7	363.1	363.4	363.5
135°	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8	384.1	384.4	384.4
137.5°	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7	403.0	403.5	403.6
140°	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6	414.9	415.3	415.3
142.5°	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9	426.2	426.5	426.5
145°	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7	441.9	442.0	442.1
147.5°	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9	456.1	456.2	456.1
150°	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5	464.7	464.9	464.9
152.5°	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3	472.5	472.9	472.8
155°	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8	483.3	483.7	483.6
157.5°	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1	492.6	493.1	493.0
160°	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3	497.8	498.3	498.3
162.5°	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1	502.7	503.3	503.3
165°	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5	509.2	509.9	509.9
167.5°	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5	514.1	514.8	514.8
170°	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3	516.9	517.6	517.6
172.5°	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1	518.8	519.4	519.4
175°	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3	520.9	521.5	521.5
177.5°	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2	521.7	522.3	522.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1003.2	1002.9	1003.2	1001.8	1003.2	1002.9	1003.2	1007.5	1007.5	1008.0	1008.3
5°	933.6	933.1	931.8	927.7	931.8	933.1	933.6	934.9	938.5	944.9	943.1
7.5°	872.7	872.1	868.1	868.2	868.1	872.1	872.7	876.2	880.3	884.2	888.7
10°	836.6	837.1	831.7	828.5	831.7	837.1	836.6	839.8	845.7	848.8	852.0
12.5°	801.7	799.6	795.2	791.8	795.2	799.6	801.7	804.1	812.1	815.6	821.7
15°	755.5	751.0	740.2	741.1	740.2	751.0	755.5	753.7	761.8	766.3	768.1
17.5°	701.1	697.8	697.6	691.3	697.6	697.8	701.1	704.7	711.8	716.6	729.5
20°	669.4	667.2	668.0	661.8	668.0	667.2	669.4	676.6	681.1	687.4	697.8
22.5°	644.5	642.3	638.5	636.5	638.5	642.3	644.5	649.5	654.4	663.3	668.9
25°	608.1	604.5	600.9	603.1	600.9	604.5	608.1	610.8	619.8	623.9	632.0
27.5°	571.7	568.9	565.3	564.9	565.3	568.9	571.7	574.3	579.3	586.1	595.8
30°	548.6	545.9	544.1	541.8	544.1	545.9	548.6	550.9	555.8	563.0	570.2
32.5°	525.1	524.6	521.3	520.9	521.3	524.6	525.1	528.8	533.8	540.6	546.8
35°	494.5	491.8	490.9	491.4	490.9	491.8	494.5	496.3	500.8	507.1	513.0
37.5°	465.4	461.8	460.1	458.6	460.1	461.8	465.4	465.6	470.3	474.5	482.4
40°	444.4	440.8	440.0	439.0	440.0	440.8	444.4	444.0	449.0	452.1	459.3
42.5°	421.0	419.6	419.0	417.4	419.0	419.6	421.0	423.4	426.3	430.8	436.3
45°	389.0	388.6	385.9	386.8	385.9	388.6	389.0	390.4	395.4	398.5	403.5
47.5°	355.3	353.4	351.5	352.7	351.5	353.4	355.3	357.1	360.4	364.3	370.9
50°	332.3	331.3	327.3	328.1	327.3	331.3	332.3	334.1	336.3	341.2	347.1
52.5°	309.2	305.7	304.2	303.7	304.2	305.7	309.2	310.9	313.6	319.3	323.6
55°	271.0	266.8	265.0	264.2	265.0	266.8	271.0	274.1	277.7	284.0	288.5
57.5°	233.4	232.3	230.9	231.9	230.9	232.3	233.4	238.7	242.2	247.1	252.6
60°	211.4	211.4	211.4	210.9	211.4	211.4	211.4	215.9	219.0	224.0	229.9
62.5°	194.5	193.4	193.0	193.6	193.0	193.4	194.5	196.5	199.6	202.8	207.9
65°	168.6	168.2	166.3	165.9	166.3	168.2	168.6	170.0	172.6	174.9	178.5
67.5°	144.1	142.5	142.0	141.4	142.0	142.5	144.1	145.3	147.1	150.0	151.8
70°	125.8	124.8	122.2	122.6	122.2	124.8	125.8	128.0	129.8	133.5	135.3
72.5°	105.9	105.0	104.5	103.8	104.5	105.0	105.9	108.2	109.9	114.0	116.8
75°	83.9	83.4	82.9	84.7	82.9	83.4	83.9	84.3	84.7	86.1	87.5
77.5°	67.2	67.2	67.4	66.7	67.4	67.2	67.2	67.2	67.2	67.8	68.2
80°	56.3	56.3	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.3	55.9
82.5°	45.2	45.5	45.8	45.1	45.8	45.5	45.2	45.9	46.2	45.5	45.8
85°	29.8	29.3	30.2	29.8	30.2	29.3	29.8	29.8	28.8	29.8	29.3
87.5°	15.6	14.9	14.9	15.3	14.9	14.9	15.6	14.8	14.7	14.7	14.3
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0
92.5°	12.6	12.7	12.7	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0
95°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2
97.5°	15.7	15.8	15.8	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9
100°	16.0	16.1	16.2	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1
102.5°	16.1	16.3	16.4	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2
105°	16.5	16.7	16.9	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2
107.5°	87.8	76.4	64.9	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9
110°	143.3	131.0	118.6	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	190.3	187.7	185.1	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1
115°	226.4	226.8	227.1	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8
117.5°	252.4	252.5	252.6	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6
120°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3
122.5°	286.8	286.9	287.0	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5
125°	310.5	310.6	310.8	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8
127.5°	334.6	334.4	334.2	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2
130°	349.4	349.2	349.0	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8
132.5°	363.3	363.0	362.7	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7
135°	384.1	383.8	383.6	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8
137.5°	403.5	403.3	403.1	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7
140°	415.2	415.0	414.8	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6
142.5°	426.2	426.0	425.8	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9
145°	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7
147.5°	455.7	455.3	455.0	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9
150°	464.6	464.3	464.1	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5
152.5°	472.4	472.0	471.7	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3
155°	483.1	482.6	482.1	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8
157.5°	492.3	491.7	491.0	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1
160°	497.7	497.1	496.5	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3
162.5°	502.7	502.2	501.7	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1
165°	509.3	508.8	508.2	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5
167.5°	514.1	513.5	512.8	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5
170°	516.9	516.3	515.6	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3
172.5°	518.7	517.9	517.2	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1
175°	520.8	520.1	519.4	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3
177.5°	521.5	520.8	520.1	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332430-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1005.0	1010.1	1015.1	1019.9	1027.1	1030.3	1035.0	1036.8	1042.2	1050.2	1056.6
5°	943.9	951.1	960.6	968.3	980.4	989.9	1000.3	1010.2	1021.9	1038.6	1053.4
7.5°	892.1	899.2	910.6	924.8	938.2	951.7	965.9	979.4	996.1	1020.0	1043.7
10°	857.8	866.4	879.9	895.3	911.9	925.0	941.7	958.8	979.6	1007.0	1035.4
12.5°	828.3	834.7	850.3	865.0	883.8	900.4	916.8	936.8	960.4	989.7	1023.9
15°	781.2	790.2	805.6	821.7	841.6	859.2	880.4	904.7	927.7	963.8	1005.2
17.5°	733.9	747.7	763.6	782.0	796.6	820.9	843.9	868.8	897.2	935.4	980.9
20°	703.7	714.5	729.4	756.0	775.3	793.8	815.0	846.1	872.3	915.5	962.9
22.5°	678.0	686.0	702.7	724.6	747.2	768.6	790.1	819.8	852.0	893.2	944.4
25°	640.1	652.7	665.4	681.1	705.5	731.2	754.6	779.8	814.1	857.8	913.3
27.5°	603.0	614.5	627.0	646.4	664.8	688.8	713.3	742.3	779.0	825.3	881.6
30°	579.3	587.8	599.5	624.3	641.0	661.8	690.6	716.3	750.5	799.7	859.2
32.5°	554.7	565.8	578.6	597.6	618.3	637.9	664.3	692.2	727.1	775.5	836.5
35°	519.8	532.8	545.9	559.8	580.6	600.9	622.9	653.6	689.2	736.2	796.1
37.5°	487.6	498.1	508.8	526.1	545.7	565.0	585.7	615.9	649.4	700.0	754.9
40°	467.0	476.5	484.6	502.7	521.5	542.3	562.6	589.2	625.3	672.5	725.7
42.5°	444.6	453.4	464.4	479.1	499.6	517.0	537.4	562.5	596.4	644.5	691.1
45°	411.1	421.0	430.5	444.4	464.8	481.9	499.9	523.8	558.5	598.2	639.6
47.5°	376.3	386.2	396.9	410.4	428.2	445.6	463.6	484.7	516.4	555.3	583.3
50°	353.9	362.0	372.8	386.3	402.5	421.0	437.2	460.2	490.4	521.1	545.4
52.5°	330.8	338.2	350.4	364.7	379.8	395.8	413.1	432.8	460.1	489.0	508.3
55°	294.8	303.8	314.2	328.1	343.0	356.5	373.2	393.6	415.2	436.8	449.9
57.5°	261.1	268.6	277.4	291.8	304.7	320.9	335.8	351.6	371.6	388.0	396.5
60°	236.7	243.4	254.7	267.3	279.5	293.4	310.6	326.4	341.7	354.7	361.5
62.5°	213.6	221.4	231.3	242.8	256.1	269.3	284.3	297.5	311.0	322.3	326.9
65°	183.5	189.8	197.0	207.8	218.6	232.1	243.8	257.4	267.3	273.6	277.7
67.5°	156.1	160.2	165.7	172.9	183.6	195.4	206.7	217.3	225.6	229.9	233.5
70°	138.4	141.1	145.2	152.4	160.5	170.8	182.5	190.2	197.4	201.0	204.7
72.5°	120.7	124.2	127.9	133.6	140.3	147.7	156.3	165.7	169.7	174.0	176.2
75°	91.5	96.4	101.4	105.0	109.5	115.4	123.0	128.9	131.2	134.7	135.3
77.5°	69.1	70.2	73.8	78.3	82.1	86.3	91.2	96.3	97.5	99.4	100.6
80°	56.8	56.8	56.8	59.5	64.0	67.2	71.6	74.4	76.2	76.6	77.1
82.5°	45.6	45.6	45.3	45.8	47.4	49.2	53.3	56.3	57.8	57.5	56.6
85°	29.8	28.8	28.8	28.4	28.8	28.0	27.5	29.3	32.0	32.0	31.1
87.5°	14.2	13.8	13.9	13.3	12.7	12.1	10.8	11.0	10.8	12.1	11.6
90°	9.6	9.3	8.2	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3
92.5°	10.4	9.9	9.0	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2
95°	12.6	12.0	11.0	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6
97.5°	13.2	12.5	18.7	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4
100°	13.4	12.7	26.2	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3
102.5°	23.3	25.5	40.1	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8
105°	69.5	84.7	92.5	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3
107.5°	144.1	155.2	154.0	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4
110°	171.6	174.4	173.5	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1



TEST NUMBER: P332430-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	194.0	194.0	193.0	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9
115°	222.9	222.1	221.3	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2
117.5°	249.9	249.3	248.9	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6
120°	267.6	266.9	266.7	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3
122.5°	285.0	284.6	284.2	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3
125°	309.6	309.4	309.1	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8
127.5°	333.9	333.6	333.2	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6
130°	348.4	348.1	347.8	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5
132.5°	362.4	362.1	361.8	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7
135°	383.6	383.3	383.0	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4
137.5°	402.3	401.8	401.7	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0
140°	414.2	413.9	413.6	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4
142.5°	425.6	425.3	425.1	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9
145°	441.5	441.3	441.2	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9
147.5°	455.7	455.6	455.4	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0
150°	464.3	464.2	464.0	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3
152.5°	471.9	471.7	471.5	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6
155°	482.4	482.0	481.9	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3
157.5°	491.5	491.0	491.1	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5
160°	496.8	496.3	496.4	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1
162.5°	501.5	500.9	501.0	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3
165°	507.8	507.1	507.2	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7
167.5°	512.8	512.1	512.1	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7
170°	515.6	514.9	514.9	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4
172.5°	517.4	516.7	516.7	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2
175°	519.7	519.1	519.0	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6
177.5°	520.6	520.0	520.0	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332430-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1058.8	1062.7	1067.8	1075.4	1081.2	1086.2	1087.3	1088.7	1092.4	1098.5	1103.1
5°	1065.7	1076.0	1092.7	1108.9	1126.5	1140.9	1154.4	1163.9	1172.9	1191.9	1207.2
7.5°	1063.5	1086.6	1112.7	1141.9	1171.3	1199.9	1226.4	1250.1	1273.7	1301.3	1332.7
10°	1062.0	1089.1	1124.2	1161.7	1202.6	1242.8	1281.6	1311.7	1346.9	1378.5	1418.6
12.5°	1055.2	1094.2	1136.2	1184.0	1234.4	1280.7	1331.7	1373.5	1413.7	1459.2	1505.9
15°	1046.3	1093.6	1146.8	1210.3	1286.9	1342.9	1395.2	1467.7	1517.3	1566.9	1633.6
17.5°	1029.9	1087.7	1154.2	1236.7	1300.7	1375.8	1454.5	1511.8	1578.6	1648.5	1708.9
20°	1016.9	1084.1	1158.5	1239.7	1321.2	1402.8	1479.0	1547.5	1616.5	1697.2	1746.8
22.5°	1004.0	1070.4	1147.7	1233.9	1321.5	1407.5	1493.7	1574.2	1651.8	1733.3	1796.6
25°	976.4	1055.2	1139.1	1227.0	1313.5	1408.3	1511.0	1600.7	1696.7	1780.5	1840.6
27.5°	948.4	1020.7	1104.2	1193.3	1289.6	1401.4	1522.3	1624.4	1720.5	1780.5	1799.4
30°	923.2	999.8	1076.4	1167.1	1271.2	1396.0	1524.5	1641.2	1720.2	1746.3	1726.9
32.5°	897.6	967.0	1042.9	1135.7	1246.3	1382.7	1527.4	1631.2	1678.7	1658.7	1579.8
35°	852.4	915.1	988.5	1081.4	1208.5	1375.4	1515.5	1585.8	1574.1	1461.4	1312.7
37.5°	804.1	855.1	923.2	1020.3	1169.4	1346.0	1464.3	1474.6	1373.2	1200.2	1028.4
40°	765.9	811.8	881.8	983.2	1139.1	1317.2	1412.7	1370.8	1213.5	1021.0	877.7
42.5°	728.8	767.5	834.8	944.2	1110.3	1277.9	1335.9	1244.6	1063.1	881.1	750.7
45°	665.8	702.3	769.9	882.2	1051.2	1202.6	1195.0	1036.3	854.7	708.2	599.9
47.5°	606.1	638.0	701.5	816.1	981.9	1089.9	1018.3	849.5	695.3	577.8	500.7
50°	564.0	595.5	658.6	771.7	926.3	1005.2	902.9	740.2	599.1	501.7	440.4
52.5°	523.6	554.4	612.1	722.3	859.3	906.5	796.5	645.7	528.1	444.0	391.3
55°	467.0	490.4	542.3	647.7	750.1	761.0	649.5	523.3	426.5	367.8	331.7
57.5°	409.4	429.6	480.8	564.8	636.6	631.0	525.5	416.2	350.9	307.5	281.3
60°	371.9	391.8	436.8	508.9	563.0	544.1	447.2	359.3	303.3	271.4	250.6
62.5°	336.9	352.4	394.6	447.3	486.2	464.8	382.3	309.5	265.2	238.2	221.8
65°	286.3	298.9	332.7	360.2	381.8	361.1	292.6	242.0	210.1	191.1	179.9
67.5°	238.1	246.2	267.5	277.4	292.7	269.9	220.0	186.1	168.0	152.0	144.1
70°	207.8	213.7	225.0	233.1	237.1	213.7	176.7	151.9	136.6	125.3	120.4
72.5°	177.5	182.6	184.9	191.6	189.5	167.6	142.1	122.3	111.3	103.7	97.3
75°	135.7	137.9	135.7	132.9	127.1	111.8	94.2	84.3	76.2	72.6	70.3
77.5°	98.9	98.2	95.1	90.8	80.8	71.2	61.7	58.5	54.9	53.0	52.2
80°	76.2	74.4	71.6	64.9	56.3	49.6	47.4	45.1	43.7	41.5	41.0
82.5°	56.7	55.6	51.1	45.5	39.4	36.2	34.4	33.6	32.2	31.0	30.9
85°	30.2	28.8	23.8	20.8	19.8	18.9	18.5	18.5	16.7	16.2	16.2
87.5°	10.0	8.0	7.8	6.9	7.1	6.6	7.1	6.7	6.5	7.0	6.3
90°	1.2	2.1	2.9	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0
92.5°	7.0	6.7	6.5	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0
95°	20.1	16.5	13.0	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2
97.5°	45.8	44.3	42.7	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9
100°	67.1	68.8	70.5	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1
102.5°	87.0	88.3	89.5	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2
105°	116.2	117.2	118.1	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2
107.5°	147.1	147.9	148.6	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9
110°	167.8	168.5	169.2	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	187.5	188.1	188.7	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1
115°	216.7	217.2	217.7	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8
117.5°	245.3	245.9	246.5	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6
120°	263.0	263.8	264.6	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3
122.5°	280.9	281.5	282.1	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5
125°	305.5	306.2	306.9	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8
127.5°	329.3	330.0	330.7	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2
130°	344.2	344.9	345.6	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8
132.5°	358.4	359.1	359.8	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7
135°	380.0	380.5	381.0	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8
137.5°	398.7	399.3	400.0	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7
140°	411.0	411.5	412.0	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6
142.5°	422.4	422.9	423.4	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9
145°	438.5	439.1	439.7	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7
147.5°	453.4	453.7	454.2	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9
150°	462.5	462.8	463.0	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5
152.5°	470.7	470.9	471.0	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3
155°	482.2	482.0	481.9	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8
157.5°	491.5	491.5	491.5	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1
160°	497.0	496.9	496.8	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3
162.5°	502.1	501.9	501.7	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1
165°	508.4	508.2	507.9	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5
167.5°	513.3	513.0	512.6	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5
170°	516.1	515.7	515.4	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3
172.5°	517.9	517.5	517.0	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1
175°	520.2	519.8	519.4	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3
177.5°	520.9	520.6	520.2	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1110.7	1110.7	1112.2	1117.6	1118.3	1123.0	1121.5
5°	1220.7	1229.2	1232.4	1246.0	1254.0	1257.7	1250.4
7.5°	1355.2	1379.4	1390.9	1405.0	1417.6	1421.3	1411.4
10°	1453.3	1478.5	1499.8	1512.8	1525.0	1533.1	1543.4
12.5°	1548.2	1579.2	1599.3	1617.7	1630.3	1640.5	1642.3
15°	1651.2	1698.1	1733.7	1759.8	1772.9	1779.7	1776.9
17.5°	1755.1	1798.6	1823.9	1850.6	1868.7	1869.7	1870.2
20°	1814.0	1856.3	1885.6	1905.4	1925.7	1924.9	1929.3
22.5°	1853.2	1886.6	1909.0	1923.5	1930.4	1927.0	1927.9
25°	1871.6	1881.5	1877.5	1854.5	1848.7	1827.5	1831.1
27.5°	1776.8	1729.9	1681.4	1619.0	1569.8	1530.5	1532.5
30°	1648.0	1565.1	1470.4	1391.1	1319.9	1300.0	1257.7
32.5°	1468.1	1343.7	1232.8	1158.8	1097.7	1081.2	1044.2
35°	1163.0	1042.2	928.2	859.6	832.6	794.7	794.3
37.5°	904.0	797.6	737.3	685.9	658.9	636.0	633.8
40°	760.4	677.5	632.0	595.0	568.4	551.3	547.3
42.5°	660.2	593.1	550.5	527.6	507.1	498.3	491.7
45°	539.2	494.0	464.3	443.6	434.1	427.3	423.7
47.5°	451.0	420.8	400.5	386.7	379.0	371.9	373.8
50°	403.0	378.2	363.3	350.3	344.4	339.4	339.9
52.5°	364.4	342.2	330.1	320.7	313.4	309.9	308.2
55°	309.3	295.2	283.1	276.3	272.2	267.3	266.0
57.5°	263.8	253.0	243.1	235.4	234.4	229.6	230.2
60°	233.5	224.5	216.4	212.3	209.1	205.1	206.5
62.5°	208.6	201.0	193.6	190.3	187.2	184.2	184.9
65°	170.8	163.6	159.1	157.3	155.9	154.6	153.3
67.5°	136.1	131.7	128.9	125.0	122.3	121.8	120.5
70°	114.5	108.7	103.7	98.8	97.4	96.9	97.4
72.5°	91.8	88.1	86.7	84.3	84.0	82.8	83.7
75°	69.0	67.6	66.7	64.9	64.9	64.9	64.9
77.5°	50.9	50.0	49.5	49.2	48.6	48.0	48.0
80°	39.7	39.2	38.3	38.3	37.9	38.3	37.9
82.5°	30.0	29.9	28.9	28.9	28.5	28.2	28.5
85°	15.3	14.9	15.8	14.9	15.3	14.5	15.3
87.5°	6.4	6.5	6.1	6.2	5.9	6.6	5.9
90°	10.3	10.7	10.9	11.1	11.3	11.5	11.6
92.5°	11.5	12.1	12.4	12.6	12.7	12.7	12.8
95°	13.8	14.4	14.7	14.7	14.7	14.7	14.7
97.5°	14.6	15.2	15.6	15.7	15.8	15.8	15.9
100°	14.8	15.5	15.9	16.0	16.1	16.2	16.3
102.5°	19.0	17.0	15.9	16.1	16.3	16.4	16.5
105°	39.1	23.8	16.4	16.5	16.7	16.9	17.0
107.5°	121.8	110.6	99.4	87.8	76.4	64.9	53.5
110°	165.9	163.1	155.6	143.3	131.0	118.6	106.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	194.1	194.2	192.9	190.3	187.7	185.1	182.5
115°	224.6	225.5	226.1	226.4	226.8	227.1	227.5
117.5°	251.3	252.0	252.4	252.4	252.5	252.6	252.7
120°	269.0	269.7	270.0	270.0	270.0	270.0	270.0
122.5°	286.0	286.5	286.7	286.8	286.9	287.0	287.1
125°	310.0	310.1	310.3	310.5	310.6	310.8	311.0
127.5°	334.4	334.7	334.8	334.6	334.4	334.2	334.1
130°	349.1	349.5	349.6	349.4	349.2	349.0	348.9
132.5°	363.1	363.4	363.5	363.3	363.0	362.7	362.6
135°	384.1	384.4	384.4	384.1	383.8	383.6	383.3
137.5°	403.0	403.5	403.6	403.5	403.3	403.1	402.9
140°	414.9	415.3	415.3	415.2	415.0	414.8	414.7
142.5°	426.2	426.5	426.5	426.2	426.0	425.8	425.5
145°	441.9	442.0	442.1	442.1	442.1	442.1	442.1
147.5°	456.1	456.2	456.1	455.7	455.3	455.0	454.5
150°	464.7	464.9	464.9	464.6	464.3	464.1	463.8
152.5°	472.5	472.9	472.8	472.4	472.0	471.7	471.2
155°	483.3	483.7	483.6	483.1	482.6	482.1	481.6
157.5°	492.6	493.1	493.0	492.3	491.7	491.0	490.3
160°	497.8	498.3	498.3	497.7	497.1	496.5	495.9
162.5°	502.7	503.3	503.3	502.7	502.2	501.7	501.2
165°	509.2	509.9	509.9	509.3	508.8	508.2	507.6
167.5°	514.1	514.8	514.8	514.1	513.5	512.8	512.1
170°	516.9	517.6	517.6	516.9	516.3	515.6	514.9
172.5°	518.8	519.4	519.4	518.7	517.9	517.2	516.4
175°	520.9	521.5	521.5	520.8	520.1	519.4	518.8
177.5°	521.7	522.3	522.2	521.5	520.8	520.1	519.4
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6

(END OF REPORT)