

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: P332431-935

Luminaire Tested: **S123RDIW-S775D460U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332431-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
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-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.5 lumens
Efficiency: N/A
Efficacy: 106.1 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

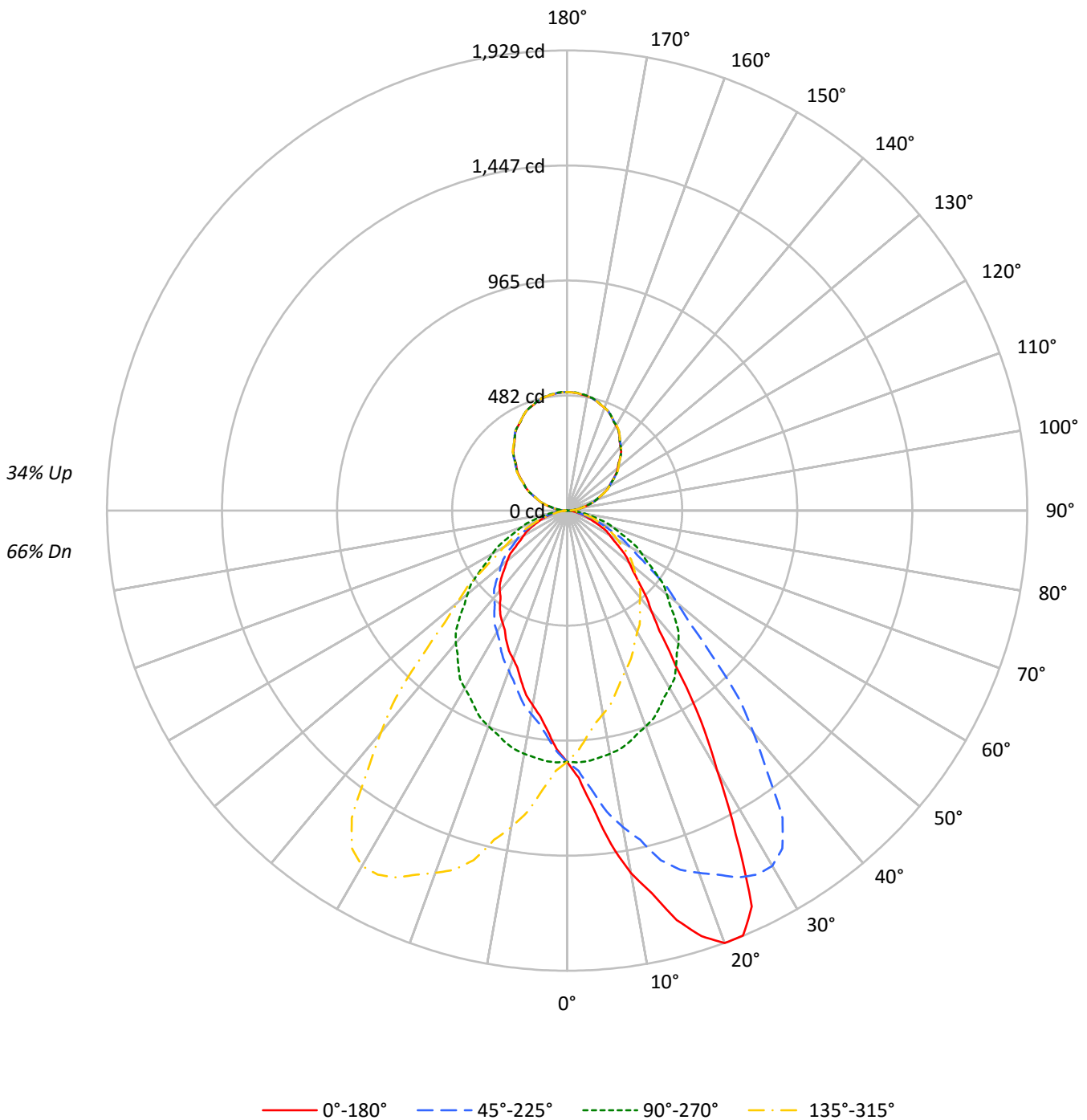
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	98	94	91	96	92	89	86	82	79	77	72	71	69	63	62	61	57				
2	94	86	81	76	88	82	76	72	73	69	65	64	61	59	57	55	53	49				
3	86	77	70	64	81	73	66	61	65	60	56	58	54	51	51	48	46	42				
4	79	68	61	55	74	65	58	53	58	53	48	52	48	44	46	43	40	37				
5	73	61	53	48	68	58	51	46	52	47	42	47	42	39	42	38	35	32				
6	67	55	47	42	63	53	45	40	48	42	37	43	38	34	38	34	31	29				
7	63	50	42	37	59	48	41	36	43	37	33	39	34	31	35	31	28	26				
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	32	28	25	23				
9	54	42	35	30	51	40	33	29	37	31	27	33	28	25	30	26	23	21				
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	28	24	21	19				

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	2.6
10°-20°	323.5	8.1
20°-30°	508.3	12.7
30°-40°	530.3	13.3
40°-50°	453.8	11.3
50°-60°	345.9	8.6
60°-70°	221.7	5.5
70°-80°	106.6	2.7
80°-90°	29.7	0.7
90°-100°	32.4	0.8
100°-110°	96.8	2.4
110°-120°	164.7	4.1
120°-130°	216.7	5.4
130°-140°	243.5	6.1
140°-150°	239.4	6.0
150°-160°	201.5	5.0
160°-170°	134.2	3.4
170°-180°	47.0	1.2
0°-30°	935.3	23.4
0°-40°	1465.6	36.6
0°-60°	2265.3	56.6
0°-90°	2623.3	65.6
90°-120°	293.9	7.3
90°-150°	993.5	24.8
90°-180°	1376.0	34.4
0°-180°	3999.5	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°	30	23	30	23	30	31
105°	93	88	93	88	93	99
115°	166	166	166	166	166	165
125°	240	243	240	243	240	215
135°	314	315	314	315	314	242
145°	382	382	382	382	382	238
155°	437	437	437	437	437	201
165°	475	476	475	476	475	134
175°	494	496	494	496	494	47
180°	497	497	497	497	497	



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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	6.2	6.5	6.4	6.4	7.0	6.5	6.7
90°	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1	9.7	9.4	8.3
92.5°	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5	15.2	15.0	14.4
95°	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5	29.2	28.8	28.2
97.5°	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0	45.5	45.2	44.7
100°	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9	57.6	57.3	56.9
102.5°	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6	71.4	71.1	70.5
105°	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0	92.0	92.0	91.3
107.5°	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3	114.0	113.7	113.4
110°	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1	128.7	128.4	128.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9	143.4	143.0	143.0
115°	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4	166.3	166.3	166.4
117.5°	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2	189.2	189.2	189.4
120°	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3	204.4	204.5	204.9
122.5°	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6	219.8	220.1	220.3
125°	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4	242.7	243.1	243.2
127.5°	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9	265.4	265.9	266.0
130°	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8	280.2	280.5	280.8
132.5°	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4	294.8	295.2	295.4
135°	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2	316.5	316.8	316.9
137.5°	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4	337.8	338.1	337.9
140°	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4	351.5	351.5	351.5
142.5°	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5	364.5	364.6	364.5
145°	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7	383.8	383.9	383.7
147.5°	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2	413.2	413.2	413.0
152.5°	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4	423.4	423.2	423.1
155°	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5	438.2	437.8	437.7
157.5°	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4	451.0	450.6	450.6
160°	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3	458.9	458.5	458.5
162.5°	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8	466.4	466.0	465.9
165°	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3	475.8	475.3	475.3
167.5°	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0	483.5	482.8	482.8
170°	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2	487.6	487.0	487.0
172.5°	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5	490.9	490.3	490.3
175°	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0	494.5	494.0	494.0
177.5°	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6	496.2	495.8	495.8
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



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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°	7.2	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	3.9	3.0	2.2	1.3	0.4	1.3	2.2	3.0
92.5°	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5	10.1	10.6	11.2
95°	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0	23.6	24.2	24.9
97.5°	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9	41.3	41.8	42.3
100°	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0	53.6	54.1	54.6
102.5°	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1	67.4	67.8	68.0
105°	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8	88.0	88.2	88.3
107.5°	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8	111.9	112.0	112.1
110°	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8	127.0	127.2	127.3



TEST NUMBER: P332431-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4	142.5	142.7	142.8
115°	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8	166.1	166.3	166.6
117.5°	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4	189.6	189.8	189.9
120°	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1	204.6	205.1	205.6
122.5°	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4	219.7	220.2	220.5
125°	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7	243.0	243.2	243.5
127.5°	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2	264.8	265.4	265.9
130°	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6	279.3	280.0	280.7
132.5°	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9	293.6	294.4	295.1
135°	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9	315.4	315.9	316.4
137.5°	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2	335.6	336.0	336.5
140°	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2	349.7	350.1	350.5
142.5°	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1	362.5	362.9	363.3
145°	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0	382.2	382.4	382.5
147.5°	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5	399.8	400.1	400.4
150°	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6	411.8	412.0	412.2
152.5°	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6	421.9	422.1	422.3
155°	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4	437.4	437.4	437.4
157.5°	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8	450.7	450.6	450.5
160°	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3	459.1	458.9	458.7
162.5°	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7	466.5	466.2	466.0
165°	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4	476.1	475.9	475.6
167.5°	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1	483.8	483.5	483.1
170°	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5	488.2	487.8	487.5
172.5°	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0	491.6	491.3	490.9
175°	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5	495.2	494.8	494.5
177.5°	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1	496.7	496.5	496.2
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332431-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A1

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	14.8	14.8
90°	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1	10.4	10.8	11.0
92.5°	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5	15.8	16.1	16.2
95°	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5	29.9	30.2	30.4
97.5°	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0	46.4	46.8	46.9
100°	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9	58.1	58.4	58.6
102.5°	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6	71.9	72.2	72.2
105°	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0	92.0	92.0	92.1
107.5°	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3	114.5	114.8	114.9
110°	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1	129.4	129.8	129.8



TEST NUMBER: P332431-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9	144.3	144.7	144.9
115°	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4	166.5	166.6	166.6
117.5°	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2	189.1	189.1	189.0
120°	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3	204.2	204.1	204.0
122.5°	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6	219.4	219.1	219.0
125°	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4	242.0	241.7	241.3
127.5°	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9	264.4	263.9	263.5
130°	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8	279.5	279.1	278.7
132.5°	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4	293.9	293.5	293.1
135°	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2	315.8	315.5	315.2
137.5°	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4	337.1	336.7	336.3
140°	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4	351.3	351.2	350.9
142.5°	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5	364.4	364.3	364.0
145°	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7	383.7	383.6	383.4
147.5°	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2	413.2	413.2	412.9
152.5°	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4	423.6	423.8	423.6
155°	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5	438.9	439.2	439.0
157.5°	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4	451.8	452.1	452.0
160°	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3	459.8	460.2	460.2
162.5°	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8	467.3	467.7	467.6
165°	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3	476.8	477.3	477.3
167.5°	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0	484.5	485.0	485.0
170°	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2	488.8	489.4	489.4
172.5°	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5	492.0	492.5	492.5
175°	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0	495.5	496.0	496.0
177.5°	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6	497.1	497.4	497.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332431-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A1

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	14.8	14.7	14.3
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1
92.5°	16.1	15.9	15.8	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5
95°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5
97.5°	46.9	46.9	46.8	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0
100°	58.8	59.0	59.2	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9
102.5°	72.2	72.2	72.2	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6
105°	92.4	92.6	92.7	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0
107.5°	114.8	114.7	114.6	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3
110°	129.7	129.5	129.3	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1



TEST NUMBER: P332431-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	144.8	144.8	144.8	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9
115°	166.5	166.4	166.3	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4
117.5°	188.7	188.5	188.2	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2
120°	203.8	203.6	203.5	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3
122.5°	218.7	218.4	218.2	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6
125°	241.0	240.6	240.3	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4
127.5°	263.1	262.7	262.3	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9
130°	278.1	277.5	276.9	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8
132.5°	292.7	292.1	291.7	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4
135°	315.0	314.9	314.7	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2
137.5°	336.0	335.7	335.4	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4
140°	350.3	349.7	349.0	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4
142.5°	363.6	363.1	362.7	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5
145°	383.1	382.7	382.4	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7
147.5°	401.2	400.6	400.1	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0
150°	412.4	411.9	411.4	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2
152.5°	423.2	422.7	422.2	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4
155°	438.4	437.8	437.2	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5
157.5°	451.6	451.1	450.6	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4
160°	459.9	459.5	459.2	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3
162.5°	467.1	466.5	466.0	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8
165°	476.6	476.0	475.4	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3
167.5°	484.5	484.0	483.5	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0
170°	488.8	488.2	487.6	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2
172.5°	491.9	491.3	490.7	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5
175°	495.4	494.8	494.2	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0
177.5°	496.9	496.5	495.9	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332431-935

CATALOG NUMBER: S123RDIW-S775D460U935-4F0-1E-UDD-A1

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°	9.7	9.4	8.3	7.1	5.9	4.8	3.9	3.0	2.2	1.3	0.4
92.5°	15.2	15.0	14.4	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5
95°	29.2	28.8	28.2	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0
97.5°	45.5	45.2	44.7	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9
100°	57.6	57.3	56.9	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0
102.5°	71.4	71.1	70.5	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1
105°	92.0	92.0	91.3	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8
107.5°	114.0	113.7	113.4	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8
110°	128.7	128.4	128.2	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	143.4	143.0	143.0	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4
115°	166.3	166.3	166.4	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8
117.5°	189.2	189.2	189.4	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4
120°	204.4	204.5	204.9	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1
122.5°	219.8	220.1	220.3	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4
125°	242.7	243.1	243.2	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7
127.5°	265.4	265.9	266.0	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2
130°	280.2	280.5	280.8	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6
132.5°	294.8	295.2	295.4	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9
135°	316.5	316.8	316.9	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9
137.5°	337.8	338.1	337.9	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2
140°	351.5	351.5	351.5	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2
142.5°	364.5	364.6	364.5	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1
145°	383.8	383.9	383.7	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0
147.5°	402.0	402.0	401.7	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5
150°	413.2	413.2	413.0	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6
152.5°	423.4	423.2	423.1	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6
155°	438.2	437.8	437.7	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4
157.5°	451.0	450.6	450.6	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8
160°	458.9	458.5	458.5	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3
162.5°	466.4	466.0	465.9	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7
165°	475.8	475.3	475.3	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4
167.5°	483.5	482.8	482.8	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1
170°	487.6	487.0	487.0	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5
172.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0
175°	494.5	494.0	494.0	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5
177.5°	496.2	495.8	495.8	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



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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	7.2	6.7	6.5	7.0	6.4
90°	1.3	2.2	3.0	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1
92.5°	10.1	10.6	11.2	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5
95°	23.6	24.2	24.9	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5
97.5°	41.3	41.8	42.3	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0
100°	53.6	54.1	54.6	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9
102.5°	67.4	67.8	68.0	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6
105°	88.0	88.2	88.3	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0
107.5°	111.9	112.0	112.1	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3
110°	127.0	127.2	127.3	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.5	142.7	142.8	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9
115°	166.1	166.3	166.6	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4
117.5°	189.6	189.8	189.9	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2
120°	204.6	205.1	205.6	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3
122.5°	219.7	220.2	220.5	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6
125°	243.0	243.2	243.5	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4
127.5°	264.8	265.4	265.9	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9
130°	279.3	280.0	280.7	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8
132.5°	293.6	294.4	295.1	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4
135°	315.4	315.9	316.4	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2
137.5°	335.6	336.0	336.5	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4
140°	349.7	350.1	350.5	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4
142.5°	362.5	362.9	363.3	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5
145°	382.2	382.4	382.5	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7
147.5°	399.8	400.1	400.4	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0
150°	411.8	412.0	412.2	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2
152.5°	421.9	422.1	422.3	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4
155°	437.4	437.4	437.4	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5
157.5°	450.7	450.6	450.5	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4
160°	459.1	458.9	458.7	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3
162.5°	466.5	466.2	466.0	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8
165°	476.1	475.9	475.6	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3
167.5°	483.8	483.5	483.1	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0
170°	488.2	487.8	487.5	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2
172.5°	491.6	491.3	490.9	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5
175°	495.2	494.8	494.5	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0
177.5°	496.7	496.5	496.2	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



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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	6.2	6.2	5.9	6.6	5.9
90°	10.4	10.8	11.0	11.2	11.4	11.5	11.7
92.5°	15.8	16.1	16.2	16.1	15.9	15.8	15.8
95°	29.9	30.2	30.4	30.4	30.4	30.4	30.4
97.5°	46.4	46.8	46.9	46.9	46.9	46.8	46.8
100°	58.1	58.4	58.6	58.8	59.0	59.2	59.3
102.5°	71.9	72.2	72.2	72.2	72.2	72.2	72.1
105°	92.0	92.0	92.1	92.4	92.6	92.7	92.9
107.5°	114.5	114.8	114.9	114.8	114.7	114.6	114.5
110°	129.4	129.8	129.8	129.7	129.5	129.3	129.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	144.3	144.7	144.9	144.8	144.8	144.8	144.7
115°	166.5	166.6	166.6	166.5	166.4	166.3	166.3
117.5°	189.1	189.1	189.0	188.7	188.5	188.2	188.0
120°	204.2	204.1	204.0	203.8	203.6	203.5	203.3
122.5°	219.4	219.1	219.0	218.7	218.4	218.2	217.9
125°	242.0	241.7	241.3	241.0	240.6	240.3	240.0
127.5°	264.4	263.9	263.5	263.1	262.7	262.3	261.9
130°	279.5	279.1	278.7	278.1	277.5	276.9	276.2
132.5°	293.9	293.5	293.1	292.7	292.1	291.7	291.2
135°	315.8	315.5	315.2	315.0	314.9	314.7	314.5
137.5°	337.1	336.7	336.3	336.0	335.7	335.4	335.0
140°	351.3	351.2	350.9	350.3	349.7	349.0	348.4
142.5°	364.4	364.3	364.0	363.6	363.1	362.7	362.1
145°	383.7	383.6	383.4	383.1	382.7	382.4	382.0
147.5°	402.0	402.0	401.7	401.2	400.6	400.1	399.6
150°	413.2	413.2	412.9	412.4	411.9	411.4	410.9
152.5°	423.6	423.8	423.6	423.2	422.7	422.2	421.8
155°	438.9	439.2	439.0	438.4	437.8	437.2	436.6
157.5°	451.8	452.1	452.0	451.6	451.1	450.6	450.1
160°	459.8	460.2	460.2	459.9	459.5	459.2	458.8
162.5°	467.3	467.7	467.6	467.1	466.5	466.0	465.4
165°	476.8	477.3	477.3	476.6	476.0	475.4	474.8
167.5°	484.5	485.0	485.0	484.5	484.0	483.5	482.8
170°	488.8	489.4	489.4	488.8	488.2	487.6	487.0
172.5°	492.0	492.5	492.5	491.9	491.3	490.7	490.1
175°	495.5	496.0	496.0	495.4	494.8	494.2	493.6
177.5°	497.1	497.4	497.4	496.9	496.5	495.9	495.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7

(END OF REPORT)