

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: P332431-940

Luminaire Tested: **S123RDIW-S775D460U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332431-940
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-S775D460U940-4F0-1E-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: 4142.2 lumens
Efficiency: N/A
Efficacy: 109.9 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

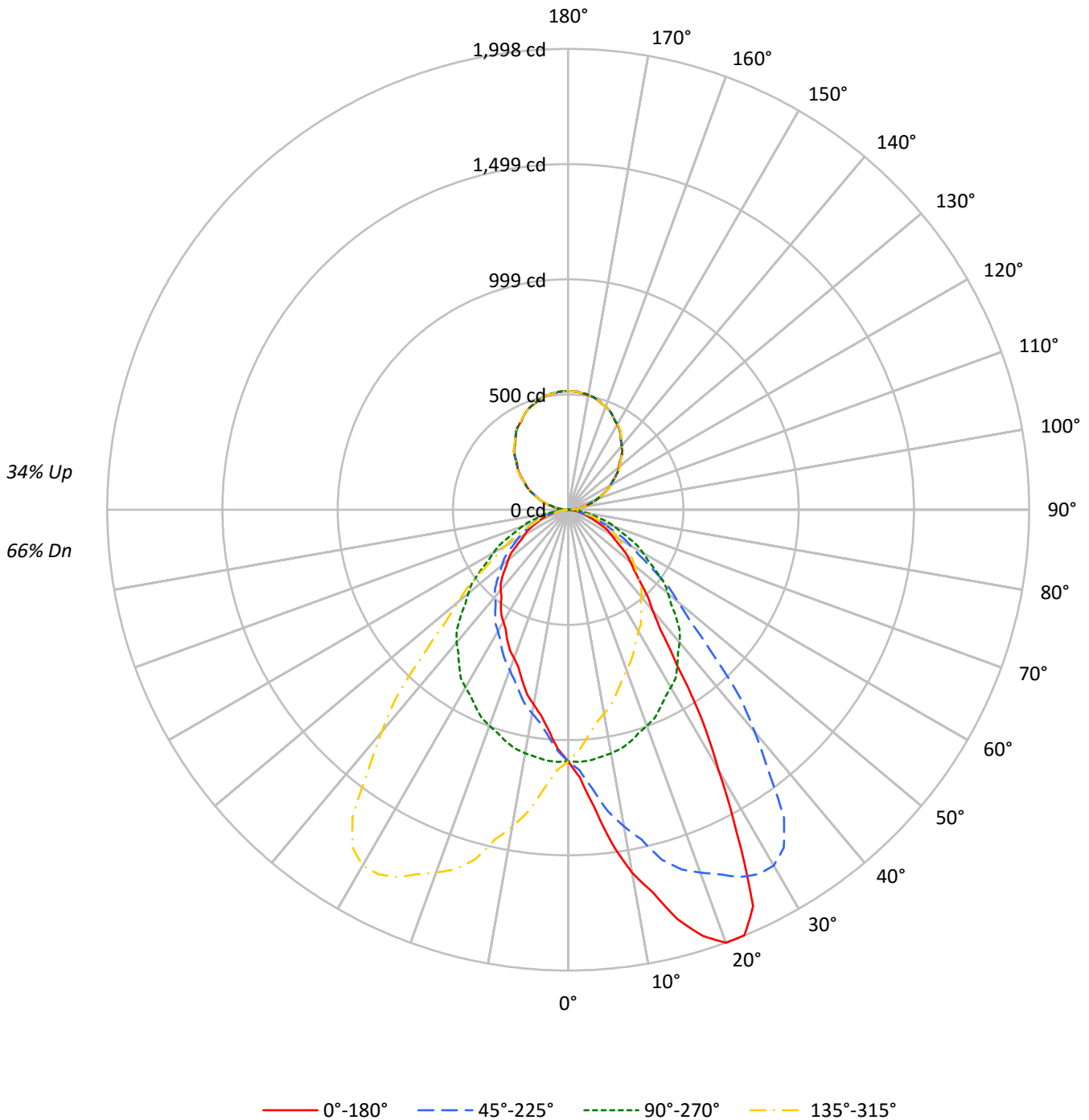
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	11739	11739	11739	11739
5°	13993	11788	10381	11788
10°	17472	11721	9379	11721
15°	20508	11602	8553	11602
20°	22888	11423	7851	11423
25°	22523	11233	7418	11233
30°	16189	11059	6975	11059
35°	10809	10834	6687	10834
40°	7964	10561	6389	10561
45°	6680	10085	6098	10085
50°	5894	9460	5690	9460
55°	5168	8743	5134	8743
60°	4603	8060	4704	8060
65°	4042	7325	4376	7325
70°	3175	6672	3997	6672
75°	2795	5827	3647	5827
80°	2430	4947	3589	4947
85°	1964	3977	3816	3977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.6
10°-20°	335.1	8.1
20°-30°	526.4	12.7
30°-40°	549.2	13.3
40°-50°	470.0	11.3
50°-60°	358.2	8.6
60°-70°	229.6	5.5
70°-80°	110.5	2.7
80°-90°	30.8	0.7
90°-100°	33.5	0.8
100°-110°	100.3	2.4
110°-120°	170.6	4.1
120°-130°	224.4	5.4
130°-140°	252.2	6.1
140°-150°	247.9	6.0
150°-160°	208.7	5.0
160°-170°	138.9	3.4
170°-180°	48.7	1.2
0°-30°	968.7	23.4
0°-40°	1517.9	36.6
0°-60°	2346.1	56.6
0°-90°	2716.9	65.6
90°-120°	304.4	7.3
90°-150°	1029.0	24.8
90°-180°	1425.0	34.4
0°-180°	4142.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1295	1091	961	1091	1295	134
15°	1840	1041	768	1041	1840	522
25°	1896	946	625	946	1896	815
35°	823	824	509	824	823	539
45°	439	662	401	662	439	345
55°	275	466	274	466	275	249
65°	159	288	172	288	159	156
75°	67	140	88	140	67	72
85°	16	32	31	32	16	19
90°	12	0	12	0	12	6
95°	32	24	32	24	32	32
105°	96	91	96	91	96	102
115°	172	172	172	172	172	170
125°	248	251	248	251	248	222
135°	326	326	326	326	326	250
145°	396	396	396	396	396	247
155°	452	453	452	453	452	208
165°	492	493	492	493	492	139
175°	511	513	511	513	511	49
180°	514	514	514	514	514	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1161.5	1163.1	1158.2	1157.4	1151.8	1150.3	1150.3	1142.5	1137.6	1131.3	1127.6
5°	1295.0	1302.5	1298.8	1290.4	1276.4	1273.1	1264.3	1250.3	1234.4	1214.8	1205.4
7.5°	1461.8	1472.0	1468.1	1455.1	1440.5	1428.6	1403.6	1380.3	1347.7	1319.1	1294.7
10°	1598.5	1587.8	1579.4	1566.7	1553.3	1531.2	1505.1	1469.2	1427.6	1395.0	1358.5
12.5°	1700.8	1699.1	1688.5	1675.4	1656.4	1635.5	1603.4	1559.6	1511.3	1464.1	1422.5
15°	1840.3	1843.2	1836.1	1822.6	1795.5	1758.6	1710.1	1691.8	1622.8	1571.5	1520.1
17.5°	1936.9	1936.4	1935.4	1916.6	1889.0	1862.8	1817.8	1769.9	1707.3	1635.0	1565.8
20°	1998.1	1993.5	1994.4	1973.4	1952.8	1922.5	1878.7	1809.1	1757.7	1674.2	1602.7
22.5°	1996.6	1995.7	1999.3	1992.1	1977.1	1953.9	1919.3	1860.6	1795.1	1710.7	1630.3
25°	1896.4	1892.7	1914.6	1920.7	1944.5	1948.7	1938.4	1906.2	1844.1	1757.2	1657.8
27.5°	1587.2	1585.1	1625.8	1676.8	1741.3	1791.6	1840.1	1863.6	1844.1	1781.9	1682.3
30°	1302.5	1346.4	1367.0	1440.7	1522.9	1621.0	1706.8	1788.5	1808.6	1781.5	1699.8
32.5°	1081.5	1119.7	1136.8	1200.2	1276.8	1391.6	1520.5	1636.1	1717.9	1738.6	1689.3
35°	822.6	823.0	862.3	890.3	961.3	1079.3	1204.5	1359.5	1513.5	1630.2	1642.4
37.5°	656.4	658.7	682.4	710.3	763.6	826.1	936.2	1065.1	1243.0	1422.2	1527.2
40°	566.8	571.0	588.7	616.3	654.5	701.7	787.6	909.0	1057.4	1256.8	1419.7
42.5°	509.3	516.0	525.2	546.4	570.2	614.3	683.8	777.5	912.5	1101.0	1289.0
45°	438.8	442.6	449.6	459.4	480.9	511.7	558.4	621.3	733.4	885.2	1073.3
47.5°	387.1	385.1	392.5	400.5	414.7	435.8	467.1	518.5	598.4	720.1	879.8
50°	352.0	351.5	356.7	362.7	376.3	391.7	417.4	456.1	519.6	620.5	766.6
52.5°	319.1	320.9	324.6	332.2	341.9	354.4	377.4	405.3	459.9	546.9	668.7
55°	275.4	276.9	282.0	286.1	293.2	305.8	320.3	343.6	380.9	441.7	542.0
57.5°	238.4	237.8	242.7	243.8	251.7	262.0	273.2	291.3	318.4	363.5	431.1
60°	213.8	212.4	216.6	219.9	224.1	232.5	241.8	259.6	281.1	314.1	372.1
62.5°	191.5	190.7	193.9	197.1	200.5	208.2	216.1	229.7	246.6	274.6	320.6
65°	158.7	160.2	161.5	162.9	164.8	169.4	176.9	186.3	198.0	217.6	250.7
67.5°	124.8	126.2	126.6	129.5	133.5	136.4	141.0	149.3	157.4	174.0	192.8
70°	100.9	100.4	100.9	102.3	107.4	112.5	118.6	124.7	129.7	141.4	157.3
72.5°	86.7	85.8	87.0	87.3	89.8	91.2	95.1	100.8	107.4	115.3	126.7
75°	67.2	67.2	67.2	67.2	69.1	70.0	71.4	72.9	75.2	78.9	87.3
77.5°	49.7	49.8	50.4	50.9	51.3	51.8	52.7	54.0	54.9	56.9	60.5
80°	39.2	39.7	39.2	39.7	39.7	40.6	41.1	42.4	43.0	45.3	46.7
82.5°	29.5	29.2	29.5	30.0	30.0	30.9	31.0	32.0	32.1	33.3	34.8
85°	15.9	15.0	15.9	15.4	16.3	15.4	15.9	16.8	16.8	17.3	19.2
87.5°	6.2	6.9	6.1	6.4	6.4	6.7	6.6	6.6	7.2	6.8	7.0
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4	10.1	9.7	8.6
92.5°	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1	15.8	15.5	14.9
95°	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6	30.2	29.9	29.2
97.5°	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6	47.2	46.8	46.3
100°	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9	59.7	59.4	58.9
102.5°	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2	73.9	73.7	73.0
105°	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3	95.3	95.3	94.5
107.5°	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3	118.1	117.8	117.4
110°	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7	133.3	133.0	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0	148.6	148.1	148.1
115°	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4	172.3	172.2	172.4
117.5°	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9	195.9	195.9	196.2
120°	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6	211.7	211.8	212.2
122.5°	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5	227.7	227.9	228.2
125°	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0	251.4	251.7	251.9
127.5°	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4	274.8	275.4	275.5
130°	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8	290.2	290.5	290.8
132.5°	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9	305.3	305.8	305.9
135°	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4	327.8	328.1	328.2
137.5°	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5	349.8	350.2	350.0
140°	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9	364.0	364.1	364.0
142.5°	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5	377.6	377.6	377.6
145°	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4	397.5	397.6	397.3
147.5°	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9	427.9	427.9	427.8
152.5°	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5	438.5	438.3	438.2
155°	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1	453.8	453.4	453.3
157.5°	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5	467.1	466.7	466.6
160°	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7	475.3	474.8	474.8
162.5°	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5	483.0	482.6	482.5
165°	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3	492.8	492.2	492.2
167.5°	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2	500.7	500.1	500.1
170°	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6	505.0	504.4	504.4
172.5°	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0	508.5	507.8	507.8
175°	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6	512.1	511.6	511.6
177.5°	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3	513.9	513.4	513.4
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1126.1	1124.9	1119.7	1113.7	1105.9	1100.6	1096.5	1094.3	1087.6	1079.3	1073.8
5°	1195.6	1181.6	1166.7	1148.4	1131.7	1114.4	1103.7	1091.0	1075.7	1058.4	1046.2
7.5°	1270.2	1242.7	1213.1	1182.6	1152.4	1125.3	1101.4	1080.9	1056.4	1031.6	1014.3
10°	1327.3	1287.1	1245.5	1203.1	1164.3	1127.9	1099.9	1072.4	1042.9	1014.5	993.0
12.5°	1379.2	1326.3	1278.4	1226.3	1176.7	1133.2	1092.8	1060.4	1025.0	994.7	970.2
15°	1444.9	1390.8	1332.8	1253.5	1187.7	1132.6	1083.6	1041.1	998.2	960.8	937.0
17.5°	1506.4	1424.9	1347.1	1280.9	1195.3	1126.5	1066.7	1015.8	968.8	929.2	899.8
20°	1531.8	1452.9	1368.3	1283.9	1199.8	1122.8	1053.2	997.2	948.2	903.4	876.3
22.5°	1547.0	1457.7	1368.7	1277.9	1188.7	1108.6	1039.8	978.1	925.1	882.4	849.0
25°	1564.9	1458.5	1360.4	1270.8	1179.7	1092.9	1011.2	945.8	888.4	843.1	807.6
27.5°	1576.6	1451.4	1335.6	1235.9	1143.6	1057.1	982.2	913.0	854.7	806.8	768.7
30°	1578.9	1445.8	1316.5	1208.7	1114.8	1035.5	956.1	889.8	828.2	777.3	741.8
32.5°	1581.9	1432.0	1290.8	1176.2	1080.1	1001.5	929.6	866.3	803.2	753.0	716.8
35°	1569.6	1424.4	1251.6	1120.0	1023.8	947.7	882.8	824.5	762.4	713.8	676.9
37.5°	1516.5	1394.0	1211.1	1056.7	956.1	885.6	832.8	781.9	725.0	672.5	637.8
40°	1463.1	1364.1	1179.7	1018.2	913.2	840.8	793.2	751.6	696.5	647.6	610.2
42.5°	1383.6	1323.5	1149.9	977.9	864.6	794.9	754.7	715.8	667.4	617.7	582.6
45°	1237.6	1245.5	1088.7	913.6	797.4	727.4	689.6	662.5	619.6	578.5	542.5
47.5°	1054.6	1128.8	1016.9	845.2	726.5	660.8	627.8	604.1	575.2	534.8	502.0
50°	935.1	1041.1	959.4	799.2	682.1	616.7	584.1	564.9	539.7	507.9	476.6
52.5°	824.9	938.8	889.9	748.1	633.9	574.2	542.2	526.5	506.4	476.5	448.3
55°	672.7	788.1	776.9	670.8	561.6	507.9	483.7	465.9	452.4	430.0	407.6
57.5°	544.2	653.5	659.3	585.0	497.9	444.9	424.0	410.6	401.8	384.9	364.2
60°	463.2	563.5	583.1	527.1	452.4	405.7	385.1	374.4	367.4	353.9	338.0
62.5°	395.9	481.3	503.5	463.2	408.7	365.0	348.9	338.6	333.8	322.1	308.1
65°	303.0	374.0	395.4	373.0	344.6	309.5	296.5	287.6	283.4	276.9	266.5
67.5°	227.8	279.6	303.1	287.3	277.1	254.9	246.6	241.8	238.1	233.6	225.1
70°	183.0	221.3	245.6	241.4	233.0	221.3	215.3	212.0	208.2	204.5	197.0
72.5°	147.1	173.5	196.3	198.4	191.5	189.1	183.9	182.4	180.2	175.8	171.7
75°	97.6	115.7	131.6	137.7	140.5	142.9	140.5	140.1	139.6	135.9	133.5
77.5°	63.9	73.7	83.7	94.1	98.5	101.7	102.5	104.2	102.9	100.9	99.8
80°	49.0	51.4	58.3	67.2	74.2	77.0	78.9	79.8	79.4	78.9	77.0
82.5°	35.6	37.5	40.8	47.1	53.0	57.6	58.8	58.6	59.6	59.8	58.3
85°	19.2	19.6	20.5	21.5	24.7	29.9	31.3	32.2	33.2	33.2	30.3
87.5°	7.5	6.9	7.3	7.1	8.1	8.3	10.3	12.0	12.6	11.2	11.4
90°	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4	1.3	2.2	3.1
92.5°	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8	10.4	11.0	11.6
95°	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8	24.4	25.1	25.8
97.5°	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4	42.8	43.2	43.8
100°	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9	55.5	56.0	56.5
102.5°	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5	69.8	70.2	70.4
105°	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0	91.1	91.3	91.5
107.5°	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8	115.9	116.0	116.1
110°	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3	131.5	131.7	131.9



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5	147.6	147.8	147.8
115°	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7	172.0	172.3	172.5
117.5°	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2	196.4	196.5	196.7
120°	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3	211.9	212.4	212.9
122.5°	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2	227.6	228.0	228.4
125°	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4	251.6	251.9	252.2
127.5°	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7	274.2	274.8	275.4
130°	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6	289.3	290.0	290.7
132.5°	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4	304.1	304.9	305.6
135°	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1	326.6	327.2	327.7
137.5°	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1	347.6	348.0	348.5
140°	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7	362.1	362.6	363.0
142.5°	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0	375.4	375.9	376.3
145°	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7	395.8	396.0	396.2
147.5°	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8	414.0	414.4	414.6
150°	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3	426.5	426.7	426.9
152.5°	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7	436.9	437.2	437.4
155°	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
157.5°	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9	466.8	466.7	466.5
160°	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6	475.5	475.3	475.1
162.5°	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4	483.1	482.9	482.6
165°	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4	493.1	492.8	492.6
167.5°	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4	501.1	500.7	500.3
170°	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0	505.6	505.2	504.9
172.5°	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5	509.2	508.8	508.5
175°	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2	512.8	512.5	512.1
177.5°	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8	514.4	514.2	513.9
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1071.9	1067.0	1063.7	1056.2	1051.3	1046.2	1040.9	1044.3	1043.9	1043.5	1043.5
5°	1036.0	1025.2	1015.4	1002.8	994.9	985.1	977.6	976.7	978.6	972.0	968.2
7.5°	1000.3	985.6	971.7	957.8	943.1	931.3	923.9	920.4	915.7	911.7	907.5
10°	975.3	958.0	944.4	927.2	911.3	897.3	888.4	882.3	879.0	875.8	869.8
12.5°	949.5	932.6	915.3	895.8	880.7	864.4	857.8	851.0	844.7	841.1	832.8
15°	911.8	889.8	871.6	851.0	834.3	818.4	809.0	795.5	793.6	789.0	780.6
17.5°	874.0	850.2	825.0	809.9	790.9	774.4	760.1	755.5	742.2	737.2	729.9
20°	844.1	822.2	803.0	782.9	755.4	739.9	728.8	722.7	711.9	705.4	700.7
22.5°	818.3	796.0	773.8	750.5	727.7	710.4	702.2	692.8	687.0	677.8	672.7
25°	781.5	757.2	730.7	705.4	689.1	676.0	662.9	654.5	646.1	641.9	632.6
27.5°	738.8	713.4	688.5	669.4	649.3	636.4	624.6	617.1	607.0	599.9	594.8
30°	715.2	685.4	663.9	646.6	620.9	608.8	599.9	590.6	583.1	575.6	570.5
32.5°	688.0	660.7	640.3	618.9	599.2	586.0	574.5	566.3	559.9	552.9	547.7
35°	645.2	622.3	601.3	579.8	565.3	551.8	538.3	531.3	525.2	518.7	514.0
37.5°	606.5	585.1	565.2	544.8	526.9	515.9	505.0	499.6	491.4	487.1	482.2
40°	582.6	561.6	540.1	520.6	501.9	493.5	483.7	475.7	468.2	465.0	459.9
42.5°	556.5	535.5	517.4	496.2	481.0	469.6	460.5	451.8	446.2	441.5	438.5
45°	517.7	499.1	481.3	460.3	445.9	436.0	425.8	417.9	412.7	409.5	404.3
47.5°	480.1	461.5	443.4	425.1	411.1	399.9	389.7	384.1	377.3	373.3	369.9
50°	452.8	436.0	416.9	400.1	386.1	374.9	366.5	359.4	353.4	348.3	346.0
52.5°	427.8	409.9	393.3	377.7	362.9	350.3	342.6	335.2	330.6	324.8	322.0
55°	386.6	369.3	355.3	339.8	325.4	314.7	305.3	298.8	294.1	287.6	283.8
57.5°	347.8	332.3	315.6	302.2	287.3	278.2	270.5	261.6	255.9	250.8	247.2
60°	321.6	303.9	289.4	276.9	263.8	252.1	245.1	238.1	232.0	226.9	223.6
62.5°	294.4	278.9	265.2	251.5	239.5	229.3	221.2	215.3	210.0	206.7	203.5
65°	252.5	240.4	226.4	215.3	204.0	196.5	190.0	184.9	181.1	178.8	176.0
67.5°	214.1	202.3	190.1	179.1	171.7	165.9	161.7	157.2	155.3	152.4	150.5
70°	189.0	176.9	166.2	157.8	150.3	146.2	143.3	140.1	138.2	134.5	132.6
72.5°	161.8	153.0	145.3	138.4	132.4	128.6	125.0	121.0	118.1	113.9	112.1
75°	127.4	119.5	113.4	108.8	105.0	99.9	94.8	90.6	89.2	87.7	87.3
77.5°	94.4	89.3	85.0	81.1	76.4	72.7	71.5	70.6	70.3	69.6	69.6
80°	74.2	69.6	66.3	61.6	58.9	58.9	58.9	57.9	58.3	58.3	58.3
82.5°	55.2	50.9	49.1	47.4	46.9	47.3	47.3	47.4	47.2	47.9	47.5
85°	28.4	29.0	29.9	29.4	29.9	29.9	30.9	30.3	30.9	29.9	30.9
87.5°	11.2	12.6	13.2	13.8	14.4	14.3	14.7	14.8	15.2	15.3	15.3
90°	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4	10.8	11.1	11.4
92.5°	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1	16.4	16.7	16.8
95°	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6	30.9	31.3	31.5
97.5°	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6	48.1	48.4	48.6
100°	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9	60.2	60.5	60.7
102.5°	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2	74.5	74.7	74.8
105°	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3	95.3	95.3	95.4
107.5°	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3	118.6	118.9	119.0
110°	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7	134.0	134.4	134.5



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0	149.5	149.9	150.1
115°	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4	172.5	172.5	172.5
117.5°	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9	195.8	195.8	195.7
120°	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6	211.5	211.4	211.2
122.5°	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5	227.2	226.9	226.8
125°	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0	250.7	250.3	249.9
127.5°	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4	273.8	273.3	272.9
130°	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8	289.4	289.1	288.6
132.5°	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9	304.4	304.0	303.5
135°	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4	327.1	326.7	326.5
137.5°	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5	349.1	348.7	348.3
140°	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9	363.8	363.7	363.4
142.5°	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5	377.4	377.3	377.0
145°	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4	397.3	397.3	397.1
147.5°	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9	427.9	427.9	427.7
152.5°	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5	438.7	438.9	438.7
155°	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1	454.5	454.9	454.7
157.5°	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5	467.9	468.2	468.1
160°	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7	476.2	476.6	476.6
162.5°	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5	483.9	484.4	484.3
165°	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3	493.8	494.4	494.3
167.5°	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2	501.8	502.3	502.3
170°	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6	506.2	506.8	506.8
172.5°	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0	509.5	510.1	510.1
175°	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6	513.2	513.7	513.7
177.5°	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3	514.8	515.1	515.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1039.0	1038.7	1039.0	1037.5	1039.0	1038.7	1039.0	1043.5	1043.5	1043.9	1044.3
5°	966.9	966.3	965.0	960.8	965.0	966.3	966.9	968.2	972.0	978.6	976.7
7.5°	903.8	903.2	899.1	899.2	899.1	903.2	903.8	907.5	911.7	915.7	920.4
10°	866.5	866.9	861.4	858.1	861.4	866.9	866.5	869.8	875.8	879.0	882.3
12.5°	830.3	828.1	823.6	820.0	823.6	828.1	830.3	832.8	841.1	844.7	851.0
15°	782.5	777.8	766.6	767.5	766.6	777.8	782.5	780.6	789.0	793.6	795.5
17.5°	726.1	722.7	722.5	716.0	722.5	722.7	726.1	729.9	737.2	742.2	755.5
20°	693.3	691.0	691.9	685.4	691.9	691.0	693.3	700.7	705.4	711.9	722.7
22.5°	667.5	665.2	661.3	659.2	661.3	665.2	667.5	672.7	677.8	687.0	692.8
25°	629.8	626.1	622.3	624.6	622.3	626.1	629.8	632.6	641.9	646.1	654.5
27.5°	592.1	589.2	585.5	585.1	585.5	589.2	592.1	594.8	599.9	607.0	617.1
30°	568.2	565.3	563.5	561.2	563.5	565.3	568.2	570.5	575.6	583.1	590.6
32.5°	543.9	543.3	539.9	539.5	539.9	543.3	543.9	547.7	552.9	559.9	566.3
35°	512.1	509.3	508.4	508.9	508.4	509.3	512.1	514.0	518.7	525.2	531.3
37.5°	482.0	478.2	476.5	474.9	476.5	478.2	482.0	482.2	487.1	491.4	499.6
40°	460.3	456.6	455.7	454.7	455.7	456.6	460.3	459.9	465.0	468.2	475.7
42.5°	436.0	434.5	434.0	432.3	434.0	434.5	436.0	438.5	441.5	446.2	451.8
45°	402.9	402.4	399.7	400.6	399.7	402.4	402.9	404.3	409.5	412.7	417.9
47.5°	368.0	366.0	364.0	365.2	364.0	366.0	368.0	369.9	373.3	377.3	384.1
50°	344.1	343.1	338.9	339.8	338.9	343.1	344.1	346.0	348.3	353.4	359.4
52.5°	320.2	316.6	315.0	314.5	315.0	316.6	320.2	322.0	324.8	330.6	335.2
55°	280.6	276.3	274.5	273.6	274.5	276.3	280.6	283.8	287.6	294.1	298.8
57.5°	241.7	240.6	239.2	240.1	239.2	240.6	241.7	247.2	250.8	255.9	261.6
60°	218.9	218.9	218.9	218.5	218.9	218.9	218.9	223.6	226.9	232.0	238.1
62.5°	201.4	200.3	199.9	200.5	199.9	200.3	201.4	203.5	206.7	210.0	215.3
65°	174.6	174.2	172.3	171.8	172.3	174.2	174.6	176.0	178.8	181.1	184.9
67.5°	149.3	147.6	147.0	146.4	147.0	147.6	149.3	150.5	152.4	155.3	157.2
70°	130.3	129.3	126.5	127.0	126.5	129.3	130.3	132.6	134.5	138.2	140.1
72.5°	109.7	108.8	108.3	107.5	108.3	108.8	109.7	112.1	113.9	118.1	121.0
75°	86.9	86.4	85.9	87.7	85.9	86.4	86.9	87.3	87.7	89.2	90.6
77.5°	69.6	69.6	69.8	69.1	69.8	69.6	69.6	69.6	69.6	70.3	70.6
80°	58.3	58.3	57.9	57.9	57.9	58.3	58.3	58.3	58.3	58.3	57.9
82.5°	46.8	47.2	47.4	46.7	47.4	47.2	46.8	47.5	47.9	47.2	47.4
85°	30.9	30.3	31.3	30.9	31.3	30.3	30.9	30.9	29.9	30.9	30.3
87.5°	16.1	15.4	15.4	15.9	15.4	15.4	16.1	15.3	15.3	15.2	14.8
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4
92.5°	16.7	16.5	16.4	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1
95°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6
97.5°	48.6	48.6	48.5	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6
100°	60.9	61.1	61.3	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9
102.5°	74.8	74.7	74.7	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2
105°	95.7	95.9	96.0	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3
107.5°	118.9	118.8	118.7	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3
110°	134.3	134.1	133.9	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	150.0	150.0	150.0	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0
115°	172.5	172.4	172.3	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4
117.5°	195.5	195.2	194.9	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9
120°	211.1	210.9	210.7	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6
122.5°	226.5	226.2	226.0	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5
125°	249.6	249.2	248.9	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0
127.5°	272.5	272.1	271.6	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4
130°	288.0	287.4	286.8	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8
132.5°	303.1	302.6	302.1	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9
135°	326.3	326.1	325.9	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4
137.5°	347.9	347.7	347.3	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5
140°	362.7	362.1	361.5	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9
142.5°	376.6	376.0	375.6	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5
145°	396.7	396.4	396.0	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4
147.5°	415.5	414.9	414.4	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3
150°	427.1	426.6	426.1	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9
152.5°	438.3	437.7	437.3	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5
155°	454.1	453.4	452.8	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1
157.5°	467.7	467.2	466.6	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5
160°	476.3	475.9	475.5	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7
162.5°	483.8	483.1	482.6	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5
165°	493.7	493.0	492.4	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3
167.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2
170°	506.2	505.6	505.0	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6
172.5°	509.4	508.8	508.2	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0
175°	513.1	512.5	511.8	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6
177.5°	514.6	514.2	513.6	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1040.9	1046.2	1051.3	1056.2	1063.7	1067.0	1071.9	1073.8	1079.3	1087.6	1094.3
5°	977.6	985.1	994.9	1002.8	1015.4	1025.2	1036.0	1046.2	1058.4	1075.7	1091.0
7.5°	923.9	931.3	943.1	957.8	971.7	985.6	1000.3	1014.3	1031.6	1056.4	1080.9
10°	888.4	897.3	911.3	927.2	944.4	958.0	975.3	993.0	1014.5	1042.9	1072.4
12.5°	857.8	864.4	880.7	895.8	915.3	932.6	949.5	970.2	994.7	1025.0	1060.4
15°	809.0	818.4	834.3	851.0	871.6	889.8	911.8	937.0	960.8	998.2	1041.1
17.5°	760.1	774.4	790.9	809.9	825.0	850.2	874.0	899.8	929.2	968.8	1015.8
20°	728.8	739.9	755.4	782.9	803.0	822.2	844.1	876.3	903.4	948.2	997.2
22.5°	702.2	710.4	727.7	750.5	773.8	796.0	818.3	849.0	882.4	925.1	978.1
25°	662.9	676.0	689.1	705.4	730.7	757.2	781.5	807.6	843.1	888.4	945.8
27.5°	624.6	636.4	649.3	669.4	688.5	713.4	738.8	768.7	806.8	854.7	913.0
30°	599.9	608.8	620.9	646.6	663.9	685.4	715.2	741.8	777.3	828.2	889.8
32.5°	574.5	586.0	599.2	618.9	640.3	660.7	688.0	716.8	753.0	803.2	866.3
35°	538.3	551.8	565.3	579.8	601.3	622.3	645.2	676.9	713.8	762.4	824.5
37.5°	505.0	515.9	526.9	544.8	565.2	585.1	606.5	637.8	672.5	725.0	781.9
40°	483.7	493.5	501.9	520.6	540.1	561.6	582.6	610.2	647.6	696.5	751.6
42.5°	460.5	469.6	481.0	496.2	517.4	535.5	556.5	582.6	617.7	667.4	715.8
45°	425.8	436.0	445.9	460.3	481.3	499.1	517.7	542.5	578.5	619.6	662.5
47.5°	389.7	399.9	411.1	425.1	443.4	461.5	480.1	502.0	534.8	575.2	604.1
50°	366.5	374.9	386.1	400.1	416.9	436.0	452.8	476.6	507.9	539.7	564.9
52.5°	342.6	350.3	362.9	377.7	393.3	409.9	427.8	448.3	476.5	506.4	526.5
55°	305.3	314.7	325.4	339.8	355.3	369.3	386.6	407.6	430.0	452.4	465.9
57.5°	270.5	278.2	287.3	302.2	315.6	332.3	347.8	364.2	384.9	401.8	410.6
60°	245.1	252.1	263.8	276.9	289.4	303.9	321.6	338.0	353.9	367.4	374.4
62.5°	221.2	229.3	239.5	251.5	265.2	278.9	294.4	308.1	322.1	333.8	338.6
65°	190.0	196.5	204.0	215.3	226.4	240.4	252.5	266.5	276.9	283.4	287.6
67.5°	161.7	165.9	171.7	179.1	190.1	202.3	214.1	225.1	233.6	238.1	241.8
70°	143.3	146.2	150.3	157.8	166.2	176.9	189.0	197.0	204.5	208.2	212.0
72.5°	125.0	128.6	132.4	138.4	145.3	153.0	161.8	171.7	175.8	180.2	182.4
75°	94.8	99.9	105.0	108.8	113.4	119.5	127.4	133.5	135.9	139.6	140.1
77.5°	71.5	72.7	76.4	81.1	85.0	89.3	94.4	99.8	100.9	102.9	104.2
80°	58.9	58.9	58.9	61.6	66.3	69.6	74.2	77.0	78.9	79.4	79.8
82.5°	47.3	47.3	46.9	47.4	49.1	50.9	55.2	58.3	59.8	59.6	58.6
85°	30.9	29.9	29.9	29.4	29.9	29.0	28.4	30.3	33.2	33.2	32.2
87.5°	14.7	14.3	14.4	13.8	13.2	12.6	11.2	11.4	11.2	12.6	12.0
90°	10.1	9.7	8.6	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4
92.5°	15.8	15.5	14.9	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8
95°	30.2	29.9	29.2	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8
97.5°	47.2	46.8	46.3	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4
100°	59.7	59.4	58.9	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9
102.5°	73.9	73.7	73.0	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5
105°	95.3	95.3	94.5	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0
107.5°	118.1	117.8	117.4	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8
110°	133.3	133.0	132.8	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.1	148.1	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5
115°	172.3	172.2	172.4	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7
117.5°	195.9	195.9	196.2	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2
120°	211.7	211.8	212.2	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3
122.5°	227.7	227.9	228.2	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2
125°	251.4	251.7	251.9	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4
127.5°	274.8	275.4	275.5	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7
130°	290.2	290.5	290.8	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6
132.5°	305.3	305.8	305.9	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4
135°	327.8	328.1	328.2	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1
137.5°	349.8	350.2	350.0	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1
140°	364.0	364.1	364.0	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7
142.5°	377.6	377.6	377.6	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0
145°	397.5	397.6	397.3	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7
147.5°	416.3	416.3	416.1	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8
150°	427.9	427.9	427.8	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3
152.5°	438.5	438.3	438.2	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7
155°	453.8	453.4	453.3	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0
157.5°	467.1	466.7	466.6	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9
160°	475.3	474.8	474.8	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6
162.5°	483.0	482.6	482.5	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4
165°	492.8	492.2	492.2	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4
167.5°	500.7	500.1	500.1	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4
170°	505.0	504.4	504.4	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0
172.5°	508.5	507.8	507.8	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5
175°	512.1	511.6	511.6	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2
177.5°	513.9	513.4	513.4	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1096.5	1100.6	1105.9	1113.7	1119.7	1124.9	1126.1	1127.6	1131.3	1137.6	1142.5
5°	1103.7	1114.4	1131.7	1148.4	1166.7	1181.6	1195.6	1205.4	1214.8	1234.4	1250.3
7.5°	1101.4	1125.3	1152.4	1182.6	1213.1	1242.7	1270.2	1294.7	1319.1	1347.7	1380.3
10°	1099.9	1127.9	1164.3	1203.1	1245.5	1287.1	1327.3	1358.5	1395.0	1427.6	1469.2
12.5°	1092.8	1133.2	1176.7	1226.3	1278.4	1326.3	1379.2	1422.5	1464.1	1511.3	1559.6
15°	1083.6	1132.6	1187.7	1253.5	1332.8	1390.8	1444.9	1520.1	1571.5	1622.8	1691.8
17.5°	1066.7	1126.5	1195.3	1280.9	1347.1	1424.9	1506.4	1565.8	1635.0	1707.3	1769.9
20°	1053.2	1122.8	1199.8	1283.9	1368.3	1452.9	1531.8	1602.7	1674.2	1757.7	1809.1
22.5°	1039.8	1108.6	1188.7	1277.9	1368.7	1457.7	1547.0	1630.3	1710.7	1795.1	1860.6
25°	1011.2	1092.9	1179.7	1270.8	1360.4	1458.5	1564.9	1657.8	1757.2	1844.1	1906.2
27.5°	982.2	1057.1	1143.6	1235.9	1335.6	1451.4	1576.6	1682.3	1781.9	1844.1	1863.6
30°	956.1	1035.5	1114.8	1208.7	1316.5	1445.8	1578.9	1699.8	1781.5	1808.6	1788.5
32.5°	929.6	1001.5	1080.1	1176.2	1290.8	1432.0	1581.9	1689.3	1738.6	1717.9	1636.1
35°	882.8	947.7	1023.8	1120.0	1251.6	1424.4	1569.6	1642.4	1630.2	1513.5	1359.5
37.5°	832.8	885.6	956.1	1056.7	1211.1	1394.0	1516.5	1527.2	1422.2	1243.0	1065.1
40°	793.2	840.8	913.2	1018.2	1179.7	1364.1	1463.1	1419.7	1256.8	1057.4	909.0
42.5°	754.7	794.9	864.6	977.9	1149.9	1323.5	1383.6	1289.0	1101.0	912.5	777.5
45°	689.6	727.4	797.4	913.6	1088.7	1245.5	1237.6	1073.3	885.2	733.4	621.3
47.5°	627.8	660.8	726.5	845.2	1016.9	1128.8	1054.6	879.8	720.1	598.4	518.5
50°	584.1	616.7	682.1	799.2	959.4	1041.1	935.1	766.6	620.5	519.6	456.1
52.5°	542.2	574.2	633.9	748.1	889.9	938.8	824.9	668.7	546.9	459.9	405.3
55°	483.7	507.9	561.6	670.8	776.9	788.1	672.7	542.0	441.7	380.9	343.6
57.5°	424.0	444.9	497.9	585.0	659.3	653.5	544.2	431.1	363.5	318.4	291.3
60°	385.1	405.7	452.4	527.1	583.1	563.5	463.2	372.1	314.1	281.1	259.6
62.5°	348.9	365.0	408.7	463.2	503.5	481.3	395.9	320.6	274.6	246.6	229.7
65°	296.5	309.5	344.6	373.0	395.4	374.0	303.0	250.7	217.6	198.0	186.3
67.5°	246.6	254.9	277.1	287.3	303.1	279.6	227.8	192.8	174.0	157.4	149.3
70°	215.3	221.3	233.0	241.4	245.6	221.3	183.0	157.3	141.4	129.7	124.7
72.5°	183.9	189.1	191.5	198.4	196.3	173.5	147.1	126.7	115.3	107.4	100.8
75°	140.5	142.9	140.5	137.7	131.6	115.7	97.6	87.3	78.9	75.2	72.9
77.5°	102.5	101.7	98.5	94.1	83.7	73.7	63.9	60.5	56.9	54.9	54.0
80°	78.9	77.0	74.2	67.2	58.3	51.4	49.0	46.7	45.3	43.0	42.4
82.5°	58.8	57.6	53.0	47.1	40.8	37.5	35.6	34.8	33.3	32.1	32.0
85°	31.3	29.9	24.7	21.5	20.5	19.6	19.2	19.2	17.3	16.8	16.8
87.5°	10.3	8.3	8.1	7.1	7.3	6.9	7.5	7.0	6.8	7.2	6.6
90°	1.3	2.2	3.1	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4
92.5°	10.4	11.0	11.6	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1
95°	24.4	25.1	25.8	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6
97.5°	42.8	43.2	43.8	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6
100°	55.5	56.0	56.5	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9
102.5°	69.8	70.2	70.4	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2
105°	91.1	91.3	91.5	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3
107.5°	115.9	116.0	116.1	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3
110°	131.5	131.7	131.9	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7



TEST NUMBER: P332431-940

CATALOG NUMBER: S123RDIW-S775D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.6	147.8	147.8	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0
115°	172.0	172.3	172.5	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4
117.5°	196.4	196.5	196.7	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9
120°	211.9	212.4	212.9	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6
122.5°	227.6	228.0	228.4	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5
125°	251.6	251.9	252.2	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0
127.5°	274.2	274.8	275.4	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4
130°	289.3	290.0	290.7	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8
132.5°	304.1	304.9	305.6	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9
135°	326.6	327.2	327.7	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4
137.5°	347.6	348.0	348.5	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5
140°	362.1	362.6	363.0	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9
142.5°	375.4	375.9	376.3	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5
145°	395.8	396.0	396.2	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4
147.5°	414.0	414.4	414.6	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3
150°	426.5	426.7	426.9	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9
152.5°	436.9	437.2	437.4	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5
155°	453.0	453.0	453.0	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1
157.5°	466.8	466.7	466.5	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5
160°	475.5	475.3	475.1	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7
162.5°	483.1	482.9	482.6	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5
165°	493.1	492.8	492.6	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3
167.5°	501.1	500.7	500.3	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2
170°	505.6	505.2	504.9	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6
172.5°	509.2	508.8	508.5	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0
175°	512.8	512.5	512.1	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6
177.5°	514.4	514.2	513.9	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1150.3	1150.3	1151.8	1157.4	1158.2	1163.1	1161.5
5°	1264.3	1273.1	1276.4	1290.4	1298.8	1302.5	1295.0
7.5°	1403.6	1428.6	1440.5	1455.1	1468.1	1472.0	1461.8
10°	1505.1	1531.2	1553.3	1566.7	1579.4	1587.8	1598.5
12.5°	1603.4	1635.5	1656.4	1675.4	1688.5	1699.1	1700.8
15°	1710.1	1758.6	1795.5	1822.6	1836.1	1843.2	1840.3
17.5°	1817.8	1862.8	1889.0	1916.6	1935.4	1936.4	1936.9
20°	1878.7	1922.5	1952.8	1973.4	1994.4	1993.5	1998.1
22.5°	1919.3	1953.9	1977.1	1992.1	1999.3	1995.7	1996.6
25°	1938.4	1948.7	1944.5	1920.7	1914.6	1892.7	1896.4
27.5°	1840.1	1791.6	1741.3	1676.8	1625.8	1585.1	1587.2
30°	1706.8	1621.0	1522.9	1440.7	1367.0	1346.4	1302.5
32.5°	1520.5	1391.6	1276.8	1200.2	1136.8	1119.7	1081.5
35°	1204.5	1079.3	961.3	890.3	862.3	823.0	822.6
37.5°	936.2	826.1	763.6	710.3	682.4	658.7	656.4
40°	787.6	701.7	654.5	616.3	588.7	571.0	566.8
42.5°	683.8	614.3	570.2	546.4	525.2	516.0	509.3
45°	558.4	511.7	480.9	459.4	449.6	442.6	438.8
47.5°	467.1	435.8	414.7	400.5	392.5	385.1	387.1
50°	417.4	391.7	376.3	362.7	356.7	351.5	352.0
52.5°	377.4	354.4	341.9	332.2	324.6	320.9	319.1
55°	320.3	305.8	293.2	286.1	282.0	276.9	275.4
57.5°	273.2	262.0	251.7	243.8	242.7	237.8	238.4
60°	241.8	232.5	224.1	219.9	216.6	212.4	213.8
62.5°	216.1	208.2	200.5	197.1	193.9	190.7	191.5
65°	176.9	169.4	164.8	162.9	161.5	160.2	158.7
67.5°	141.0	136.4	133.5	129.5	126.6	126.2	124.8
70°	118.6	112.5	107.4	102.3	100.9	100.4	100.9
72.5°	95.1	91.2	89.8	87.3	87.0	85.8	86.7
75°	71.4	70.0	69.1	67.2	67.2	67.2	67.2
77.5°	52.7	51.8	51.3	50.9	50.4	49.8	49.7
80°	41.1	40.6	39.7	39.7	39.2	39.7	39.2
82.5°	31.0	30.9	30.0	30.0	29.5	29.2	29.5
85°	15.9	15.4	16.3	15.4	15.9	15.0	15.9
87.5°	6.6	6.7	6.4	6.4	6.1	6.9	6.2
90°	10.8	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	16.4	16.7	16.8	16.7	16.5	16.4	16.3
95°	30.9	31.3	31.5	31.5	31.5	31.5	31.5
97.5°	48.1	48.4	48.6	48.6	48.6	48.5	48.5
100°	60.2	60.5	60.7	60.9	61.1	61.3	61.4
102.5°	74.5	74.7	74.8	74.8	74.7	74.7	74.6
105°	95.3	95.3	95.4	95.7	95.9	96.0	96.2
107.5°	118.6	118.9	119.0	118.9	118.8	118.7	118.6
110°	134.0	134.4	134.5	134.3	134.1	133.9	133.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	149.5	149.9	150.1	150.0	150.0	150.0	149.9
115°	172.5	172.5	172.5	172.5	172.4	172.3	172.2
117.5°	195.8	195.8	195.7	195.5	195.2	194.9	194.7
120°	211.5	211.4	211.2	211.1	210.9	210.7	210.5
122.5°	227.2	226.9	226.8	226.5	226.2	226.0	225.7
125°	250.7	250.3	249.9	249.6	249.2	248.9	248.5
127.5°	273.8	273.3	272.9	272.5	272.1	271.6	271.3
130°	289.4	289.1	288.6	288.0	287.4	286.8	286.1
132.5°	304.4	304.0	303.5	303.1	302.6	302.1	301.6
135°	327.1	326.7	326.5	326.3	326.1	325.9	325.7
137.5°	349.1	348.7	348.3	347.9	347.7	347.3	347.0
140°	363.8	363.7	363.4	362.7	362.1	361.5	360.9
142.5°	377.4	377.3	377.0	376.6	376.0	375.6	375.1
145°	397.3	397.3	397.1	396.7	396.4	396.0	395.7
147.5°	416.3	416.3	416.1	415.5	414.9	414.4	413.8
150°	427.9	427.9	427.7	427.1	426.6	426.1	425.5
152.5°	438.7	438.9	438.7	438.3	437.7	437.3	436.8
155°	454.5	454.9	454.7	454.1	453.4	452.8	452.2
157.5°	467.9	468.2	468.1	467.7	467.2	466.6	466.2
160°	476.2	476.6	476.6	476.3	475.9	475.5	475.2
162.5°	483.9	484.4	484.3	483.8	483.1	482.6	482.0
165°	493.8	494.4	494.3	493.7	493.0	492.4	491.8
167.5°	501.8	502.3	502.3	501.8	501.2	500.7	500.1
170°	506.2	506.8	506.8	506.2	505.6	505.0	504.4
172.5°	509.5	510.1	510.1	509.4	508.8	508.2	507.6
175°	513.2	513.7	513.7	513.1	512.5	511.8	511.2
177.5°	514.8	515.1	515.1	514.6	514.2	513.6	513.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4

(END OF REPORT)