

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: P332431-930

Luminaire Tested: **S123RDIW-S775D460U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332431-930
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-S775D460U930-4F0-1E-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: 3787.2 lumens
Efficiency: N/A
Efficacy: 100.5 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

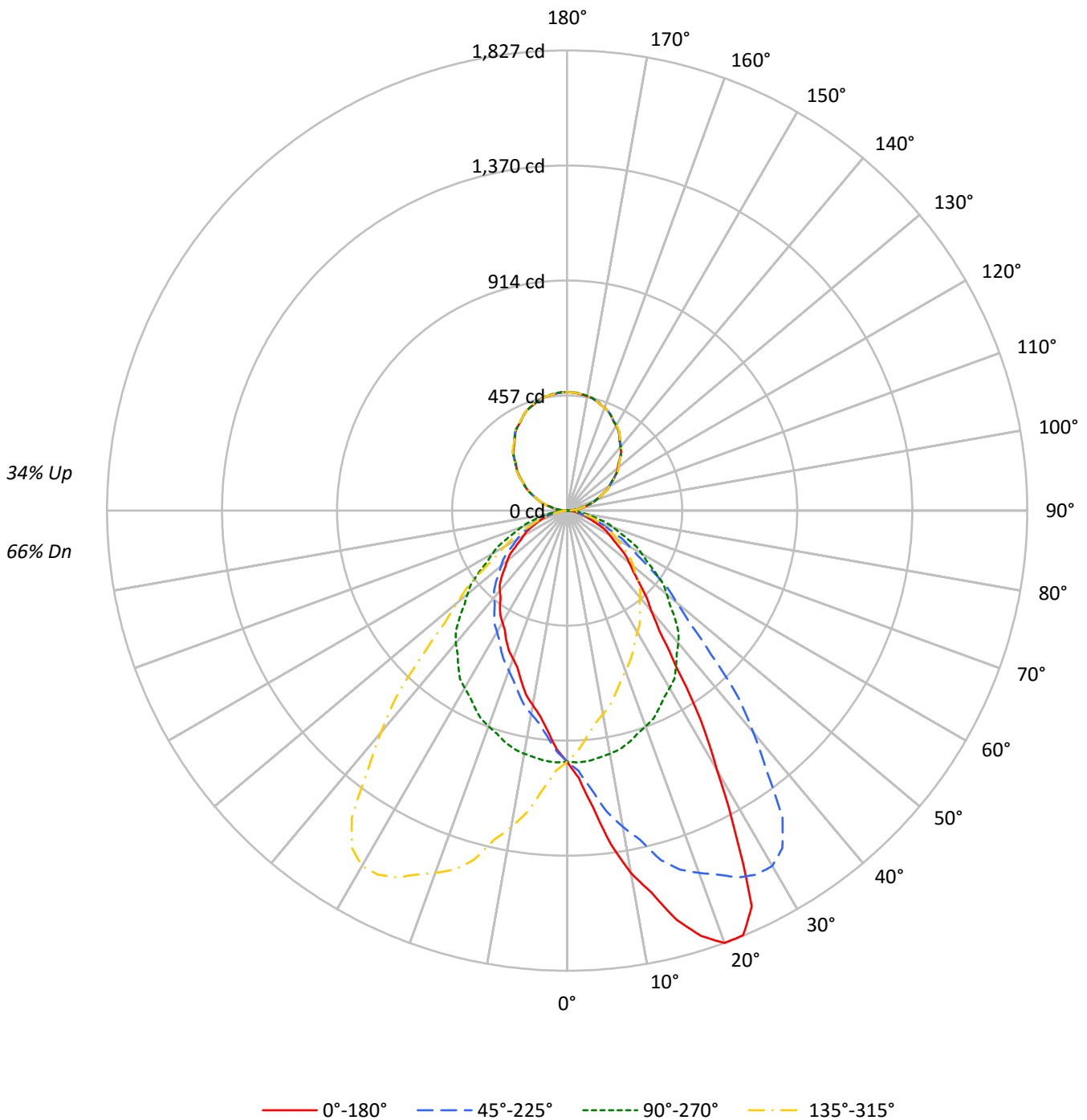
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10733	10733	10733	10733
5°	12794	10778	9492	10778
10°	15974	10717	8576	10717
15°	18750	10608	7819	10608
20°	20927	10443	7178	10443
25°	20593	10271	6783	10271
30°	14802	10112	6377	10112
35°	9883	9905	6114	9905
40°	7281	9656	5841	9656
45°	6107	9220	5574	9220
50°	5390	8649	5203	8649
55°	4725	7994	4693	7994
60°	4209	7369	4299	7369
65°	3696	6696	4001	6696
70°	2902	6099	3654	6099
75°	2558	5327	3335	5327
80°	2225	4525	3279	4525
85°	1791	3631	3483	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	2.6
10°-20°	306.3	8.1
20°-30°	481.3	12.7
30°-40°	502.1	13.3
40°-50°	429.7	11.3
50°-60°	327.5	8.6
60°-70°	209.9	5.5
70°-80°	101.0	2.7
80°-90°	28.1	0.7
90°-100°	30.6	0.8
100°-110°	91.7	2.4
110°-120°	156.0	4.1
120°-130°	205.2	5.4
130°-140°	230.6	6.1
140°-150°	226.7	6.0
150°-160°	190.8	5.0
160°-170°	127.0	3.4
170°-180°	44.5	1.2
0°-30°	885.7	23.4
0°-40°	1387.8	36.6
0°-60°	2145.0	56.6
0°-90°	2484.1	65.6
90°-120°	278.3	7.3
90°-150°	940.8	24.8
90°-180°	1303.0	34.4
0°-180°	3787.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	997	997	997	997	997	
5°	1184	998	878	998	1184	122
15°	1683	952	702	952	1683	477
25°	1734	865	571	865	1734	745
35°	752	754	465	754	752	493
45°	401	606	366	606	401	315
55°	252	426	250	426	252	228
65°	145	263	157	263	145	143
75°	62	128	80	128	62	66
85°	14	29	28	29	14	17
90°	11	0	11	0	11	6
95°	29	22	29	22	29	30
105°	88	83	88	83	88	93
115°	157	157	157	157	157	156
125°	227	230	227	230	227	203
135°	298	298	298	298	298	229
145°	362	362	362	362	362	226
155°	413	414	413	414	413	190
165°	450	451	450	451	450	127
175°	467	469	467	469	467	44
180°	470	470	470	470	470	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1062.0	1063.4	1058.9	1058.3	1053.1	1051.7	1051.7	1044.6	1040.2	1034.4	1030.9
5°	1184.1	1190.9	1187.5	1179.8	1167.0	1164.0	1155.9	1143.1	1128.6	1110.7	1102.1
7.5°	1336.5	1345.9	1342.3	1330.4	1317.0	1306.2	1283.3	1262.0	1232.2	1206.1	1183.7
10°	1461.5	1451.7	1444.1	1432.5	1420.2	1400.0	1376.1	1343.3	1305.3	1275.5	1242.1
12.5°	1555.1	1553.5	1543.8	1531.9	1514.4	1495.3	1466.0	1426.0	1381.8	1338.6	1300.6
15°	1682.6	1685.2	1678.8	1666.4	1641.7	1607.9	1563.6	1546.9	1483.8	1436.8	1389.8
17.5°	1770.9	1770.4	1769.5	1752.4	1727.1	1703.2	1662.0	1618.2	1561.0	1494.9	1431.6
20°	1826.9	1822.7	1823.5	1804.3	1785.5	1757.8	1717.7	1654.1	1607.1	1530.7	1465.3
22.5°	1825.5	1824.7	1828.0	1821.4	1807.7	1786.5	1754.9	1701.2	1641.3	1564.2	1490.6
25°	1733.9	1730.5	1750.5	1756.1	1777.8	1781.7	1772.3	1742.9	1686.0	1606.6	1515.7
27.5°	1451.2	1449.3	1486.5	1533.1	1592.1	1638.1	1682.5	1703.9	1686.0	1629.2	1538.1
30°	1190.9	1231.0	1249.9	1317.3	1392.4	1482.1	1560.6	1635.2	1653.6	1628.9	1554.1
32.5°	988.8	1023.8	1039.4	1097.3	1167.3	1272.4	1390.2	1495.9	1570.7	1589.6	1544.6
35°	752.1	752.5	788.4	814.0	878.9	986.8	1101.3	1243.0	1383.8	1490.5	1501.6
37.5°	600.1	602.3	623.9	649.5	698.1	755.3	856.0	973.8	1136.5	1300.3	1396.4
40°	518.2	522.0	538.3	563.5	598.4	641.6	720.1	831.1	966.8	1149.1	1298.0
42.5°	465.6	471.8	480.2	499.6	521.3	561.7	625.2	710.9	834.3	1006.7	1178.5
45°	401.2	404.6	411.1	420.0	439.7	467.8	510.5	568.1	670.6	809.3	981.3
47.5°	353.9	352.1	358.9	366.2	379.2	398.4	427.1	474.1	547.1	658.4	804.4
50°	321.9	321.4	326.1	331.7	344.1	358.2	381.6	417.0	475.1	567.3	700.9
52.5°	291.8	293.4	296.8	303.7	312.6	324.0	345.0	370.6	420.4	500.0	611.4
55°	251.8	253.2	257.8	261.6	268.1	279.6	292.9	314.1	348.3	403.8	495.5
57.5°	218.0	217.4	221.9	222.9	230.2	239.5	249.8	266.4	291.1	332.3	394.1
60°	195.5	194.2	198.0	201.1	204.9	212.5	221.1	237.3	257.0	287.2	340.2
62.5°	175.0	174.4	177.2	180.2	183.4	190.4	197.5	210.0	225.5	251.1	293.1
65°	145.1	146.4	147.7	149.0	150.7	154.9	161.8	170.3	181.0	198.9	229.2
67.5°	114.1	115.4	115.8	118.4	122.1	124.7	128.9	136.5	143.9	159.1	176.3
70°	92.2	91.8	92.2	93.5	98.2	102.9	108.4	114.0	118.6	129.3	143.8
72.5°	79.2	78.4	79.6	79.8	82.1	83.4	86.9	92.1	98.2	105.4	115.9
75°	61.5	61.5	61.5	61.5	63.2	64.0	65.3	66.6	68.7	72.2	79.8
77.5°	45.4	45.5	46.1	46.6	46.9	47.4	48.2	49.4	50.2	52.0	55.4
80°	35.9	36.3	35.9	36.3	36.3	37.1	37.6	38.8	39.3	41.4	42.7
82.5°	27.0	26.7	27.0	27.4	27.4	28.3	28.4	29.3	29.4	30.5	31.8
85°	14.5	13.7	14.5	14.1	14.9	14.1	14.5	15.3	15.3	15.8	17.5
87.5°	5.6	6.3	5.5	5.9	5.9	6.1	6.0	6.0	6.6	6.2	6.4
90°	11.1	10.9	10.8	10.6	10.4	10.2	9.9	9.5	9.2	8.9	7.8
92.5°	14.9	15.0	15.1	15.2	15.3	15.2	15.0	14.7	14.4	14.2	13.6
95°	28.8	28.8	28.8	28.8	28.8	28.6	28.3	28.0	27.6	27.3	26.7
97.5°	44.4	44.4	44.4	44.4	44.4	44.3	43.9	43.5	43.1	42.8	42.3
100°	56.2	56.0	55.8	55.7	55.5	55.3	55.0	54.8	54.5	54.3	53.9
102.5°	68.2	68.3	68.3	68.4	68.4	68.3	68.1	67.8	67.6	67.3	66.8
105°	88.0	87.8	87.6	87.5	87.2	87.2	87.2	87.2	87.2	87.2	86.4
107.5°	108.4	108.5	108.6	108.7	108.8	108.7	108.4	108.2	107.9	107.7	107.4
110°	122.3	122.5	122.6	122.8	122.9	122.9	122.5	122.2	121.9	121.6	121.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.1	137.1	137.1	137.1	137.2	137.1	136.6	136.2	135.8	135.4	135.4
115°	157.4	157.5	157.6	157.7	157.8	157.8	157.7	157.6	157.5	157.4	157.6
117.5°	178.0	178.2	178.5	178.7	179.0	179.0	179.0	179.1	179.1	179.1	179.4
120°	192.5	192.7	192.8	193.0	193.1	193.3	193.4	193.5	193.6	193.6	194.0
122.5°	206.4	206.6	206.8	207.1	207.3	207.5	207.7	208.0	208.1	208.4	208.6
125°	227.2	227.6	227.9	228.2	228.5	228.9	229.2	229.5	229.8	230.2	230.3
127.5°	248.0	248.3	248.7	249.2	249.5	249.9	250.4	250.9	251.3	251.8	251.9
130°	261.5	262.2	262.8	263.3	263.9	264.3	264.6	265.0	265.3	265.6	265.9
132.5°	275.7	276.2	276.6	277.1	277.5	277.9	278.3	278.8	279.2	279.6	279.7
135°	297.8	298.0	298.2	298.3	298.5	298.7	299.1	299.4	299.7	300.0	300.1
137.5°	317.2	317.6	317.9	318.1	318.5	318.8	319.2	319.5	319.8	320.2	320.0
140°	330.0	330.5	331.1	331.7	332.2	332.6	332.6	332.7	332.8	332.9	332.8
142.5°	342.9	343.4	343.8	344.3	344.7	345.0	345.0	345.1	345.2	345.3	345.2
145°	361.7	362.1	362.4	362.7	363.1	363.2	363.3	363.4	363.5	363.5	363.3
147.5°	378.4	378.9	379.4	379.9	380.4	380.7	380.7	380.7	380.7	380.7	380.4
150°	389.1	389.6	390.0	390.5	391.0	391.3	391.3	391.3	391.3	391.3	391.1
152.5°	399.4	399.8	400.2	400.7	401.1	401.3	401.1	401.0	400.9	400.7	400.6
155°	413.4	414.0	414.6	415.2	415.7	415.9	415.6	415.2	414.9	414.6	414.5
157.5°	426.2	426.6	427.1	427.6	428.0	428.1	427.8	427.5	427.1	426.7	426.6
160°	434.5	434.8	435.1	435.5	435.8	435.8	435.4	435.0	434.6	434.1	434.1
162.5°	440.7	441.2	441.7	442.3	442.8	442.9	442.5	442.1	441.6	441.2	441.2
165°	449.6	450.2	450.8	451.3	451.9	452.0	451.5	451.0	450.5	450.0	450.0
167.5°	457.2	457.8	458.3	458.8	459.3	459.3	458.8	458.3	457.8	457.2	457.2
170°	461.1	461.7	462.3	462.8	463.4	463.4	462.8	462.3	461.7	461.1	461.1
172.5°	464.1	464.6	465.2	465.8	466.4	466.4	465.9	465.4	464.9	464.3	464.3
175°	467.4	468.0	468.6	469.1	469.7	469.7	469.2	468.7	468.2	467.7	467.7
177.5°	469.1	469.6	470.1	470.5	471.0	471.0	470.7	470.3	469.9	469.4	469.4
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1029.6	1028.5	1023.8	1018.3	1011.1	1006.3	1002.6	1000.5	994.4	986.8	981.8
5°	1093.2	1080.4	1066.7	1050.0	1034.7	1018.9	1009.1	997.5	983.5	967.7	956.6
7.5°	1161.3	1136.2	1109.1	1081.2	1053.6	1028.9	1007.1	988.3	965.9	943.2	927.4
10°	1213.6	1176.8	1138.8	1100.0	1064.5	1031.3	1005.7	980.5	953.6	927.6	907.9
12.5°	1261.0	1212.7	1168.9	1121.2	1075.9	1036.1	999.1	969.6	937.2	909.5	887.0
15°	1321.1	1271.6	1218.6	1146.1	1085.9	1035.5	990.8	951.9	912.6	878.5	856.7
17.5°	1377.3	1302.8	1231.7	1171.1	1092.9	1030.0	975.3	928.8	885.7	849.5	822.7
20°	1400.5	1328.4	1251.1	1173.9	1097.0	1026.5	963.0	911.7	866.9	826.0	801.2
22.5°	1414.5	1332.8	1251.4	1168.4	1086.8	1013.6	950.7	894.3	845.8	806.8	776.2
25°	1430.8	1333.5	1243.8	1161.9	1078.6	999.2	924.5	864.8	812.3	770.9	738.4
27.5°	1441.5	1327.1	1221.2	1130.0	1045.6	966.5	898.1	834.8	781.5	737.7	702.9
30°	1443.6	1321.9	1203.7	1105.1	1019.3	946.7	874.2	813.6	757.2	710.7	678.2
32.5°	1446.3	1309.3	1180.1	1075.4	987.6	915.7	849.9	792.1	734.3	688.5	655.4
35°	1435.1	1302.4	1144.4	1024.0	936.0	866.5	807.1	753.8	697.1	652.6	618.9
37.5°	1386.6	1274.6	1107.3	966.1	874.2	809.8	761.4	714.9	662.8	614.9	583.2
40°	1337.7	1247.2	1078.6	931.0	834.9	768.7	725.2	687.2	636.8	592.1	557.9
42.5°	1265.0	1210.1	1051.3	894.1	790.5	726.8	690.1	654.4	610.3	564.8	532.6
45°	1131.6	1138.8	995.4	835.4	729.0	665.0	630.5	605.7	566.5	528.9	496.0
47.5°	964.3	1032.1	929.8	772.7	664.2	604.1	574.0	552.4	525.9	489.0	459.0
50°	855.0	951.9	877.2	730.8	623.6	563.9	534.0	516.5	493.4	464.4	435.8
52.5°	754.2	858.3	813.7	684.0	579.6	525.0	495.8	481.4	463.0	435.7	409.9
55°	615.1	720.6	710.3	613.3	513.5	464.4	442.2	426.0	413.6	393.1	372.7
57.5°	497.6	597.5	602.8	534.8	455.3	406.8	387.7	375.4	367.4	351.9	333.0
60°	423.5	515.2	533.1	481.9	413.6	371.0	352.1	342.3	335.9	323.6	309.1
62.5°	362.0	440.1	460.4	423.5	373.7	333.7	319.0	309.6	305.2	294.5	281.7
65°	277.0	341.9	361.5	341.0	315.0	283.0	271.1	262.9	259.1	253.2	243.7
67.5°	208.3	255.6	277.1	262.7	253.3	233.1	225.4	221.1	217.7	213.6	205.8
70°	167.3	202.4	224.5	220.7	213.0	202.4	196.8	193.8	190.4	186.9	180.1
72.5°	134.5	158.7	179.4	181.4	175.1	172.9	168.1	166.8	164.8	160.7	156.9
75°	89.2	105.8	120.3	125.9	128.5	130.6	128.5	128.1	127.6	124.3	122.1
77.5°	58.5	67.4	76.6	86.0	90.1	92.9	93.7	95.2	94.1	92.3	91.2
80°	44.8	47.0	53.3	61.5	67.8	70.4	72.2	73.0	72.6	72.2	70.4
82.5°	32.5	34.3	37.3	43.0	48.4	52.7	53.7	53.6	54.5	54.7	53.3
85°	17.5	17.9	18.8	19.6	22.6	27.3	28.6	29.4	30.3	30.3	27.7
87.5°	6.8	6.3	6.7	6.5	7.4	7.6	9.5	11.0	11.5	10.3	10.4
90°	6.8	5.6	4.6	3.7	2.9	2.0	1.2	0.4	1.2	2.0	2.9
92.5°	13.0	12.4	11.7	11.2	10.6	10.0	9.5	9.0	9.5	10.0	10.6
95°	26.0	25.4	24.7	24.1	23.6	22.9	22.3	21.8	22.3	22.9	23.6
97.5°	41.8	41.3	40.8	40.4	40.0	39.5	39.1	38.7	39.1	39.5	40.0
100°	53.5	53.1	52.7	52.2	51.7	51.2	50.7	50.2	50.7	51.2	51.7
102.5°	66.2	65.7	65.1	64.7	64.4	64.2	63.8	63.5	63.8	64.2	64.4
105°	85.7	85.0	84.2	83.8	83.6	83.5	83.3	83.2	83.3	83.5	83.6
107.5°	107.0	106.8	106.5	106.3	106.2	106.1	106.0	105.9	106.0	106.1	106.2
110°	121.2	121.1	120.9	120.7	120.6	120.4	120.3	120.1	120.3	120.4	120.6



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	135.4	135.3	135.3	135.3	135.2	135.1	134.9	134.9	134.9	135.1	135.2
115°	157.8	157.9	158.1	158.0	157.8	157.5	157.3	157.0	157.3	157.5	157.8
117.5°	179.5	179.8	179.9	180.0	179.9	179.7	179.5	179.4	179.5	179.7	179.9
120°	194.4	194.9	195.3	195.2	194.7	194.2	193.7	193.2	193.7	194.2	194.7
122.5°	208.8	209.0	209.2	209.1	208.8	208.5	208.1	207.7	208.1	208.5	208.8
125°	230.5	230.6	230.8	230.8	230.6	230.3	230.1	229.8	230.1	230.3	230.6
127.5°	252.1	252.3	252.5	252.3	251.8	251.3	250.7	250.2	250.7	251.3	251.8
130°	266.1	266.4	266.6	266.4	265.8	265.1	264.5	263.8	264.5	265.1	265.8
132.5°	279.9	280.1	280.3	280.1	279.4	278.8	278.0	277.4	278.0	278.8	279.4
135°	300.2	300.3	300.4	300.1	299.6	299.1	298.6	298.2	298.6	299.1	299.6
137.5°	319.8	319.5	319.4	319.0	318.6	318.2	317.8	317.4	317.8	318.2	318.6
140°	332.7	332.6	332.6	332.3	331.9	331.5	331.1	330.7	331.1	331.5	331.9
142.5°	345.0	344.9	344.7	344.5	344.1	343.6	343.2	342.8	343.2	343.6	344.1
145°	363.1	362.8	362.6	362.4	362.2	362.1	361.9	361.7	361.9	362.1	362.2
147.5°	380.2	379.9	379.7	379.4	379.1	378.9	378.5	378.3	378.5	378.9	379.1
150°	390.9	390.8	390.6	390.4	390.3	390.1	390.0	389.8	390.0	390.1	390.3
152.5°	400.6	400.4	400.3	400.1	399.9	399.7	399.5	399.3	399.5	399.7	399.9
155°	414.4	414.3	414.3	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2
157.5°	426.6	426.6	426.5	426.5	426.6	426.7	426.8	426.9	426.8	426.7	426.6
160°	434.1	434.1	434.1	434.2	434.4	434.6	434.7	434.9	434.7	434.6	434.4
162.5°	441.1	441.0	441.0	441.1	441.2	441.5	441.7	442.0	441.7	441.5	441.2
165°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.1	450.9	450.6	450.4
167.5°	457.1	457.1	457.0	457.1	457.5	457.8	458.1	458.4	458.1	457.8	457.5
170°	461.1	461.1	461.1	461.3	461.6	461.9	462.3	462.6	462.3	461.9	461.6
172.5°	464.3	464.3	464.3	464.5	464.9	465.2	465.5	465.9	465.5	465.2	464.9
175°	467.7	467.7	467.7	467.9	468.2	468.6	468.9	469.2	468.9	468.6	468.2
177.5°	469.4	469.4	469.4	469.6	469.9	470.1	470.3	470.7	470.3	470.1	469.9
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	980.1	975.6	972.6	965.7	961.2	956.5	951.7	954.8	954.5	954.1	954.1
5°	947.2	937.3	928.4	916.9	909.6	900.7	893.8	893.0	894.7	888.7	885.3
7.5°	914.6	901.2	888.4	875.7	862.3	851.5	844.7	841.6	837.2	833.6	829.7
10°	891.7	875.9	863.5	847.7	833.2	820.4	812.3	806.7	803.7	800.8	795.2
12.5°	868.1	852.6	836.9	819.0	805.2	790.4	784.3	778.0	772.3	769.0	761.4
15°	833.6	813.6	797.0	778.1	762.8	748.3	739.7	727.3	725.6	721.4	713.7
17.5°	799.1	777.3	754.3	740.5	723.1	708.0	695.0	690.8	678.6	674.0	667.3
20°	771.8	751.7	734.2	715.8	690.6	676.5	666.3	660.8	650.9	645.0	640.7
22.5°	748.2	727.8	707.5	686.2	665.4	649.5	642.0	633.4	628.1	619.7	615.1
25°	714.5	692.4	668.1	645.0	630.1	618.1	606.1	598.4	590.8	586.9	578.4
27.5°	675.5	652.2	629.5	612.0	593.7	581.9	571.0	564.2	555.0	548.5	543.8
30°	654.0	626.6	607.0	591.2	567.7	556.6	548.5	540.0	533.1	526.3	521.6
32.5°	629.0	604.1	585.5	565.9	547.9	535.8	525.3	517.8	511.9	505.5	500.8
35°	589.9	569.0	549.8	530.1	516.9	504.5	492.2	485.8	480.2	474.3	469.9
37.5°	554.6	535.0	516.7	498.1	481.8	471.7	461.7	456.8	449.3	445.3	440.9
40°	532.7	513.5	493.8	476.0	458.9	451.2	442.2	435.0	428.1	425.2	420.4
42.5°	508.8	489.6	473.0	453.7	439.8	429.3	421.0	413.1	408.0	403.7	401.0
45°	473.4	456.3	440.1	420.9	407.6	398.7	389.3	382.0	377.3	374.4	369.7
47.5°	439.0	421.9	405.4	388.7	375.9	365.7	356.3	351.2	345.0	341.3	338.2
50°	414.0	398.7	381.2	365.8	353.0	342.8	335.1	328.6	323.1	318.5	316.3
52.5°	391.2	374.8	359.6	345.4	331.8	320.2	313.2	306.5	302.3	296.9	294.4
55°	353.4	337.6	324.8	310.7	297.5	287.7	279.2	273.2	268.9	262.9	259.5
57.5°	318.0	303.9	288.5	276.3	262.7	254.4	247.3	239.2	234.0	229.3	226.0
60°	294.1	277.9	264.6	253.2	241.2	230.5	224.1	217.7	212.1	207.4	204.5
62.5°	269.2	255.0	242.5	229.9	219.0	209.7	202.3	196.9	192.0	189.0	186.1
65°	230.9	219.8	207.0	196.8	186.5	179.7	173.7	169.0	165.6	163.5	160.9
67.5°	195.8	185.0	173.8	163.7	156.9	151.7	147.8	143.7	142.0	139.3	137.6
70°	172.8	161.8	152.0	144.3	137.5	133.6	131.0	128.1	126.4	122.9	121.2
72.5°	148.0	139.9	132.8	126.5	121.1	117.6	114.3	110.6	107.9	104.1	102.5
75°	116.5	109.3	103.7	99.5	96.0	91.3	86.7	82.8	81.5	80.2	79.8
77.5°	86.3	81.7	77.7	74.1	69.9	66.4	65.4	64.6	64.2	63.6	63.6
80°	67.8	63.6	60.6	56.3	53.8	53.8	53.8	52.9	53.3	53.3	53.3
82.5°	50.5	46.6	44.9	43.4	42.9	43.2	43.2	43.4	43.1	43.8	43.5
85°	26.0	26.5	27.3	26.9	27.3	27.3	28.2	27.7	28.2	27.3	28.2
87.5°	10.3	11.5	12.1	12.6	13.2	13.0	13.5	13.5	13.9	14.0	14.0
90°	3.7	4.6	5.6	6.8	7.8	8.9	9.2	9.5	9.9	10.2	10.4
92.5°	11.2	11.7	12.4	13.0	13.6	14.2	14.4	14.7	15.0	15.2	15.3
95°	24.1	24.7	25.4	26.0	26.7	27.3	27.6	28.0	28.3	28.6	28.8
97.5°	40.4	40.8	41.3	41.8	42.3	42.8	43.1	43.5	43.9	44.3	44.4
100°	52.2	52.7	53.1	53.5	53.9	54.3	54.5	54.8	55.0	55.3	55.5
102.5°	64.7	65.1	65.7	66.2	66.8	67.3	67.6	67.8	68.1	68.3	68.4
105°	83.8	84.2	85.0	85.7	86.4	87.2	87.2	87.2	87.2	87.2	87.2
107.5°	106.3	106.5	106.8	107.0	107.4	107.7	107.9	108.2	108.4	108.7	108.8
110°	120.7	120.9	121.1	121.2	121.4	121.6	121.9	122.2	122.5	122.9	122.9



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	135.3	135.3	135.3	135.4	135.4	135.4	135.8	136.2	136.6	137.1	137.2
115°	158.0	158.1	157.9	157.8	157.6	157.4	157.5	157.6	157.7	157.8	157.8
117.5°	180.0	179.9	179.8	179.5	179.4	179.1	179.1	179.1	179.0	179.0	179.0
120°	195.2	195.3	194.9	194.4	194.0	193.6	193.6	193.5	193.4	193.3	193.1
122.5°	209.1	209.2	209.0	208.8	208.6	208.4	208.1	208.0	207.7	207.5	207.3
125°	230.8	230.8	230.6	230.5	230.3	230.2	229.8	229.5	229.2	228.9	228.5
127.5°	252.3	252.5	252.3	252.1	251.9	251.8	251.3	250.9	250.4	249.9	249.5
130°	266.4	266.6	266.4	266.1	265.9	265.6	265.3	265.0	264.6	264.3	263.9
132.5°	280.1	280.3	280.1	279.9	279.7	279.6	279.2	278.8	278.3	277.9	277.5
135°	300.1	300.4	300.3	300.2	300.1	300.0	299.7	299.4	299.1	298.7	298.5
137.5°	319.0	319.4	319.5	319.8	320.0	320.2	319.8	319.5	319.2	318.8	318.5
140°	332.3	332.6	332.6	332.7	332.8	332.9	332.8	332.7	332.6	332.6	332.2
142.5°	344.5	344.7	344.9	345.0	345.2	345.3	345.2	345.1	345.0	345.0	344.7
145°	362.4	362.6	362.8	363.1	363.3	363.5	363.5	363.4	363.3	363.2	363.1
147.5°	379.4	379.7	379.9	380.2	380.4	380.7	380.7	380.7	380.7	380.7	380.4
150°	390.4	390.6	390.8	390.9	391.1	391.3	391.3	391.3	391.3	391.3	391.0
152.5°	400.1	400.3	400.4	400.6	400.6	400.7	400.9	401.0	401.1	401.3	401.1
155°	414.2	414.3	414.3	414.4	414.5	414.6	414.9	415.2	415.6	415.9	415.7
157.5°	426.5	426.5	426.6	426.6	426.6	426.7	427.1	427.5	427.8	428.1	428.0
160°	434.2	434.1	434.1	434.1	434.1	434.1	434.6	435.0	435.4	435.8	435.8
162.5°	441.1	441.0	441.0	441.1	441.2	441.2	441.6	442.1	442.5	442.9	442.8
165°	450.1	450.0	450.0	450.0	450.0	450.0	450.5	451.0	451.5	452.0	451.9
167.5°	457.1	457.0	457.1	457.1	457.2	457.2	457.8	458.3	458.8	459.3	459.3
170°	461.3	461.1	461.1	461.1	461.1	461.1	461.7	462.3	462.8	463.4	463.4
172.5°	464.5	464.3	464.3	464.3	464.3	464.3	464.9	465.4	465.9	466.4	466.4
175°	467.9	467.7	467.7	467.7	467.7	467.7	468.2	468.7	469.2	469.7	469.7
177.5°	469.6	469.4	469.4	469.4	469.4	469.4	469.9	470.3	470.7	471.0	471.0
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	950.0	949.7	950.0	948.6	950.0	949.7	950.0	954.1	954.1	954.5	954.8
5°	884.0	883.5	882.3	878.5	882.3	883.5	884.0	885.3	888.7	894.7	893.0
7.5°	826.4	825.8	822.1	822.1	822.1	825.8	826.4	829.7	833.6	837.2	841.6
10°	792.2	792.6	787.6	784.6	787.6	792.6	792.2	795.2	800.8	803.7	806.7
12.5°	759.1	757.2	753.0	749.7	753.0	757.2	759.1	761.4	769.0	772.3	778.0
15°	715.4	711.1	700.9	701.7	700.9	711.1	715.4	713.7	721.4	725.6	727.3
17.5°	663.9	660.8	660.6	654.6	660.6	660.8	663.9	667.3	674.0	678.6	690.8
20°	633.9	631.8	632.6	626.6	632.6	631.8	633.9	640.7	645.0	650.9	660.8
22.5°	610.3	608.2	604.6	602.8	604.6	608.2	610.3	615.1	619.7	628.1	633.4
25°	575.8	572.4	569.0	571.1	569.0	572.4	575.8	578.4	586.9	590.8	598.4
27.5°	541.4	538.7	535.3	534.9	535.3	538.7	541.4	543.8	548.5	555.0	564.2
30°	519.5	516.9	515.2	513.1	515.2	516.9	519.5	521.6	526.3	533.1	540.0
32.5°	497.3	496.8	493.7	493.3	493.7	496.8	497.3	500.8	505.5	511.9	517.8
35°	468.2	465.7	464.8	465.3	464.8	465.7	468.2	469.9	474.3	480.2	485.8
37.5°	440.7	437.2	435.7	434.2	435.7	437.2	440.7	440.9	445.3	449.3	456.8
40°	420.9	417.4	416.6	415.7	416.6	417.4	420.9	420.4	425.2	428.1	435.0
42.5°	398.7	397.3	396.8	395.3	396.8	397.3	398.7	401.0	403.7	408.0	413.1
45°	368.4	367.9	365.4	366.2	365.4	367.9	368.4	369.7	374.4	377.3	382.0
47.5°	336.5	334.6	332.8	333.9	332.8	334.6	336.5	338.2	341.3	345.0	351.2
50°	314.6	313.7	309.9	310.7	309.9	313.7	314.6	316.3	318.5	323.1	328.6
52.5°	292.8	289.5	288.0	287.6	288.0	289.5	292.8	294.4	296.9	302.3	306.5
55°	256.6	252.7	250.9	250.1	250.9	252.7	256.6	259.5	262.9	268.9	273.2
57.5°	221.0	220.0	218.7	219.6	218.7	220.0	221.0	226.0	229.3	234.0	239.2
60°	200.2	200.2	200.2	199.7	200.2	200.2	200.2	204.5	207.4	212.1	217.7
62.5°	184.2	183.1	182.8	183.4	182.8	183.1	184.2	186.1	189.0	192.0	196.9
65°	159.6	159.2	157.5	157.1	157.5	159.2	159.6	160.9	163.5	165.6	169.0
67.5°	136.5	134.9	134.4	133.9	134.4	134.9	136.5	137.6	139.3	142.0	143.7
70°	119.1	118.2	115.7	116.1	115.7	118.2	119.1	121.2	122.9	126.4	128.1
72.5°	100.3	99.5	99.0	98.3	99.0	99.5	100.3	102.5	104.1	107.9	110.6
75°	79.4	79.0	78.5	80.2	78.5	79.0	79.4	79.8	80.2	81.5	82.8
77.5°	63.6	63.6	63.8	63.2	63.8	63.6	63.6	63.6	63.6	64.2	64.6
80°	53.3	53.3	52.9	52.9	52.9	53.3	53.3	53.3	53.3	53.3	52.9
82.5°	42.8	43.1	43.4	42.7	43.4	43.1	42.8	43.5	43.8	43.1	43.4
85°	28.2	27.7	28.6	28.2	28.6	27.7	28.2	28.2	27.3	28.2	27.7
87.5°	14.8	14.1	14.1	14.5	14.1	14.1	14.8	14.0	14.0	13.9	13.5
90°	10.6	10.8	10.9	11.1	10.9	10.8	10.6	10.4	10.2	9.9	9.5
92.5°	15.2	15.1	15.0	14.9	15.0	15.1	15.2	15.3	15.2	15.0	14.7
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.6	28.3	28.0
97.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.3	43.9	43.5
100°	55.7	55.8	56.0	56.2	56.0	55.8	55.7	55.5	55.3	55.0	54.8
102.5°	68.4	68.3	68.3	68.2	68.3	68.3	68.4	68.4	68.3	68.1	67.8
105°	87.5	87.6	87.8	88.0	87.8	87.6	87.5	87.2	87.2	87.2	87.2
107.5°	108.7	108.6	108.5	108.4	108.5	108.6	108.7	108.8	108.7	108.4	108.2
110°	122.8	122.6	122.5	122.3	122.5	122.6	122.8	122.9	122.9	122.5	122.2



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.2	137.1	136.6	136.2
115°	157.7	157.6	157.5	157.4	157.5	157.6	157.7	157.8	157.8	157.7	157.6
117.5°	178.7	178.5	178.2	178.0	178.2	178.5	178.7	179.0	179.0	179.0	179.1
120°	193.0	192.8	192.7	192.5	192.7	192.8	193.0	193.1	193.3	193.4	193.5
122.5°	207.1	206.8	206.6	206.4	206.6	206.8	207.1	207.3	207.5	207.7	208.0
125°	228.2	227.9	227.6	227.2	227.6	227.9	228.2	228.5	228.9	229.2	229.5
127.5°	249.2	248.7	248.3	248.0	248.3	248.7	249.2	249.5	249.9	250.4	250.9
130°	263.3	262.8	262.2	261.5	262.2	262.8	263.3	263.9	264.3	264.6	265.0
132.5°	277.1	276.6	276.2	275.7	276.2	276.6	277.1	277.5	277.9	278.3	278.8
135°	298.3	298.2	298.0	297.8	298.0	298.2	298.3	298.5	298.7	299.1	299.4
137.5°	318.1	317.9	317.6	317.2	317.6	317.9	318.1	318.5	318.8	319.2	319.5
140°	331.7	331.1	330.5	330.0	330.5	331.1	331.7	332.2	332.6	332.6	332.7
142.5°	344.3	343.8	343.4	342.9	343.4	343.8	344.3	344.7	345.0	345.0	345.1
145°	362.7	362.4	362.1	361.7	362.1	362.4	362.7	363.1	363.2	363.3	363.4
147.5°	379.9	379.4	378.9	378.4	378.9	379.4	379.9	380.4	380.7	380.7	380.7
150°	390.5	390.0	389.6	389.1	389.6	390.0	390.5	391.0	391.3	391.3	391.3
152.5°	400.7	400.2	399.8	399.4	399.8	400.2	400.7	401.1	401.3	401.1	401.0
155°	415.2	414.6	414.0	413.4	414.0	414.6	415.2	415.7	415.9	415.6	415.2
157.5°	427.6	427.1	426.6	426.2	426.6	427.1	427.6	428.0	428.1	427.8	427.5
160°	435.5	435.1	434.8	434.5	434.8	435.1	435.5	435.8	435.8	435.4	435.0
162.5°	442.3	441.7	441.2	440.7	441.2	441.7	442.3	442.8	442.9	442.5	442.1
165°	451.3	450.8	450.2	449.6	450.2	450.8	451.3	451.9	452.0	451.5	451.0
167.5°	458.8	458.3	457.8	457.2	457.8	458.3	458.8	459.3	459.3	458.8	458.3
170°	462.8	462.3	461.7	461.1	461.7	462.3	462.8	463.4	463.4	462.8	462.3
172.5°	465.8	465.2	464.6	464.1	464.6	465.2	465.8	466.4	466.4	465.9	465.4
175°	469.1	468.6	468.0	467.4	468.0	468.6	469.1	469.7	469.7	469.2	468.7
177.5°	470.5	470.1	469.6	469.1	469.6	470.1	470.5	471.0	471.0	470.7	470.3
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	951.7	956.5	961.2	965.7	972.6	975.6	980.1	981.8	986.8	994.4	1000.5
5°	893.8	900.7	909.6	916.9	928.4	937.3	947.2	956.6	967.7	983.5	997.5
7.5°	844.7	851.5	862.3	875.7	888.4	901.2	914.6	927.4	943.2	965.9	988.3
10°	812.3	820.4	833.2	847.7	863.5	875.9	891.7	907.9	927.6	953.6	980.5
12.5°	784.3	790.4	805.2	819.0	836.9	852.6	868.1	887.0	909.5	937.2	969.6
15°	739.7	748.3	762.8	778.1	797.0	813.6	833.6	856.7	878.5	912.6	951.9
17.5°	695.0	708.0	723.1	740.5	754.3	777.3	799.1	822.7	849.5	885.7	928.8
20°	666.3	676.5	690.6	715.8	734.2	751.7	771.8	801.2	826.0	866.9	911.7
22.5°	642.0	649.5	665.4	686.2	707.5	727.8	748.2	776.2	806.8	845.8	894.3
25°	606.1	618.1	630.1	645.0	668.1	692.4	714.5	738.4	770.9	812.3	864.8
27.5°	571.0	581.9	593.7	612.0	629.5	652.2	675.5	702.9	737.7	781.5	834.8
30°	548.5	556.6	567.7	591.2	607.0	626.6	654.0	678.2	710.7	757.2	813.6
32.5°	525.3	535.8	547.9	565.9	585.5	604.1	629.0	655.4	688.5	734.3	792.1
35°	492.2	504.5	516.9	530.1	549.8	569.0	589.9	618.9	652.6	697.1	753.8
37.5°	461.7	471.7	481.8	498.1	516.7	535.0	554.6	583.2	614.9	662.8	714.9
40°	442.2	451.2	458.9	476.0	493.8	513.5	532.7	557.9	592.1	636.8	687.2
42.5°	421.0	429.3	439.8	453.7	473.0	489.6	508.8	532.6	564.8	610.3	654.4
45°	389.3	398.7	407.6	420.9	440.1	456.3	473.4	496.0	528.9	566.5	605.7
47.5°	356.3	365.7	375.9	388.7	405.4	421.9	439.0	459.0	489.0	525.9	552.4
50°	335.1	342.8	353.0	365.8	381.2	398.7	414.0	435.8	464.4	493.4	516.5
52.5°	313.2	320.2	331.8	345.4	359.6	374.8	391.2	409.9	435.7	463.0	481.4
55°	279.2	287.7	297.5	310.7	324.8	337.6	353.4	372.7	393.1	413.6	426.0
57.5°	247.3	254.4	262.7	276.3	288.5	303.9	318.0	333.0	351.9	367.4	375.4
60°	224.1	230.5	241.2	253.2	264.6	277.9	294.1	309.1	323.6	335.9	342.3
62.5°	202.3	209.7	219.0	229.9	242.5	255.0	269.2	281.7	294.5	305.2	309.6
65°	173.7	179.7	186.5	196.8	207.0	219.8	230.9	243.7	253.2	259.1	262.9
67.5°	147.8	151.7	156.9	163.7	173.8	185.0	195.8	205.8	213.6	217.7	221.1
70°	131.0	133.6	137.5	144.3	152.0	161.8	172.8	180.1	186.9	190.4	193.8
72.5°	114.3	117.6	121.1	126.5	132.8	139.9	148.0	156.9	160.7	164.8	166.8
75°	86.7	91.3	96.0	99.5	103.7	109.3	116.5	122.1	124.3	127.6	128.1
77.5°	65.4	66.4	69.9	74.1	77.7	81.7	86.3	91.2	92.3	94.1	95.2
80°	53.8	53.8	53.8	56.3	60.6	63.6	67.8	70.4	72.2	72.6	73.0
82.5°	43.2	43.2	42.9	43.4	44.9	46.6	50.5	53.3	54.7	54.5	53.6
85°	28.2	27.3	27.3	26.9	27.3	26.5	26.0	27.7	30.3	30.3	29.4
87.5°	13.5	13.0	13.2	12.6	12.1	11.5	10.3	10.4	10.3	11.5	11.0
90°	9.2	8.9	7.8	6.8	5.6	4.6	3.7	2.9	2.0	1.2	0.4
92.5°	14.4	14.2	13.6	13.0	12.4	11.7	11.2	10.6	10.0	9.5	9.0
95°	27.6	27.3	26.7	26.0	25.4	24.7	24.1	23.6	22.9	22.3	21.8
97.5°	43.1	42.8	42.3	41.8	41.3	40.8	40.4	40.0	39.5	39.1	38.7
100°	54.5	54.3	53.9	53.5	53.1	52.7	52.2	51.7	51.2	50.7	50.2
102.5°	67.6	67.3	66.8	66.2	65.7	65.1	64.7	64.4	64.2	63.8	63.5
105°	87.2	87.2	86.4	85.7	85.0	84.2	83.8	83.6	83.5	83.3	83.2
107.5°	107.9	107.7	107.4	107.0	106.8	106.5	106.3	106.2	106.1	106.0	105.9
110°	121.9	121.6	121.4	121.2	121.1	120.9	120.7	120.6	120.4	120.3	120.1



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	135.4	135.4	135.4	135.3	135.3	135.3	135.2	135.1	134.9	134.9
115°	157.5	157.4	157.6	157.8	157.9	158.1	158.0	157.8	157.5	157.3	157.0
117.5°	179.1	179.1	179.4	179.5	179.8	179.9	180.0	179.9	179.7	179.5	179.4
120°	193.6	193.6	194.0	194.4	194.9	195.3	195.2	194.7	194.2	193.7	193.2
122.5°	208.1	208.4	208.6	208.8	209.0	209.2	209.1	208.8	208.5	208.1	207.7
125°	229.8	230.2	230.3	230.5	230.6	230.8	230.8	230.6	230.3	230.1	229.8
127.5°	251.3	251.8	251.9	252.1	252.3	252.5	252.3	251.8	251.3	250.7	250.2
130°	265.3	265.6	265.9	266.1	266.4	266.6	266.4	265.8	265.1	264.5	263.8
132.5°	279.2	279.6	279.7	279.9	280.1	280.3	280.1	279.4	278.8	278.0	277.4
135°	299.7	300.0	300.1	300.2	300.3	300.4	300.1	299.6	299.1	298.6	298.2
137.5°	319.8	320.2	320.0	319.8	319.5	319.4	319.0	318.6	318.2	317.8	317.4
140°	332.8	332.9	332.8	332.7	332.6	332.6	332.3	331.9	331.5	331.1	330.7
142.5°	345.2	345.3	345.2	345.0	344.9	344.7	344.5	344.1	343.6	343.2	342.8
145°	363.5	363.5	363.3	363.1	362.8	362.6	362.4	362.2	362.1	361.9	361.7
147.5°	380.7	380.7	380.4	380.2	379.9	379.7	379.4	379.1	378.9	378.5	378.3
150°	391.3	391.3	391.1	390.9	390.8	390.6	390.4	390.3	390.1	390.0	389.8
152.5°	400.9	400.7	400.6	400.6	400.4	400.3	400.1	399.9	399.7	399.5	399.3
155°	414.9	414.6	414.5	414.4	414.3	414.3	414.2	414.2	414.2	414.2	414.2
157.5°	427.1	426.7	426.6	426.6	426.6	426.5	426.5	426.6	426.7	426.8	426.9
160°	434.6	434.1	434.1	434.1	434.1	434.1	434.2	434.4	434.6	434.7	434.9
162.5°	441.6	441.2	441.2	441.1	441.0	441.0	441.1	441.2	441.5	441.7	442.0
165°	450.5	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.1
167.5°	457.8	457.2	457.2	457.1	457.1	457.0	457.1	457.5	457.8	458.1	458.4
170°	461.7	461.1	461.1	461.1	461.1	461.1	461.3	461.6	461.9	462.3	462.6
172.5°	464.9	464.3	464.3	464.3	464.3	464.3	464.5	464.9	465.2	465.5	465.9
175°	468.2	467.7	467.7	467.7	467.7	467.7	467.9	468.2	468.6	468.9	469.2
177.5°	469.9	469.4	469.4	469.4	469.4	469.4	469.6	469.9	470.1	470.3	470.7
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1002.6	1006.3	1011.1	1018.3	1023.8	1028.5	1029.6	1030.9	1034.4	1040.2	1044.6
5°	1009.1	1018.9	1034.7	1050.0	1066.7	1080.4	1093.2	1102.1	1110.7	1128.6	1143.1
7.5°	1007.1	1028.9	1053.6	1081.2	1109.1	1136.2	1161.3	1183.7	1206.1	1232.2	1262.0
10°	1005.7	1031.3	1064.5	1100.0	1138.8	1176.8	1213.6	1242.1	1275.5	1305.3	1343.3
12.5°	999.1	1036.1	1075.9	1121.2	1168.9	1212.7	1261.0	1300.6	1338.6	1381.8	1426.0
15°	990.8	1035.5	1085.9	1146.1	1218.6	1271.6	1321.1	1389.8	1436.8	1483.8	1546.9
17.5°	975.3	1030.0	1092.9	1171.1	1231.7	1302.8	1377.3	1431.6	1494.9	1561.0	1618.2
20°	963.0	1026.5	1097.0	1173.9	1251.1	1328.4	1400.5	1465.3	1530.7	1607.1	1654.1
22.5°	950.7	1013.6	1086.8	1168.4	1251.4	1332.8	1414.5	1490.6	1564.2	1641.3	1701.2
25°	924.5	999.2	1078.6	1161.9	1243.8	1333.5	1430.8	1515.7	1606.6	1686.0	1742.9
27.5°	898.1	966.5	1045.6	1130.0	1221.2	1327.1	1441.5	1538.1	1629.2	1686.0	1703.9
30°	874.2	946.7	1019.3	1105.1	1203.7	1321.9	1443.6	1554.1	1628.9	1653.6	1635.2
32.5°	849.9	915.7	987.6	1075.4	1180.1	1309.3	1446.3	1544.6	1589.6	1570.7	1495.9
35°	807.1	866.5	936.0	1024.0	1144.4	1302.4	1435.1	1501.6	1490.5	1383.8	1243.0
37.5°	761.4	809.8	874.2	966.1	1107.3	1274.6	1386.6	1396.4	1300.3	1136.5	973.8
40°	725.2	768.7	834.9	931.0	1078.6	1247.2	1337.7	1298.0	1149.1	966.8	831.1
42.5°	690.1	726.8	790.5	894.1	1051.3	1210.1	1265.0	1178.5	1006.7	834.3	710.9
45°	630.5	665.0	729.0	835.4	995.4	1138.8	1131.6	981.3	809.3	670.6	568.1
47.5°	574.0	604.1	664.2	772.7	929.8	1032.1	964.3	804.4	658.4	547.1	474.1
50°	534.0	563.9	623.6	730.8	877.2	951.9	855.0	700.9	567.3	475.1	417.0
52.5°	495.8	525.0	579.6	684.0	813.7	858.3	754.2	611.4	500.0	420.4	370.6
55°	442.2	464.4	513.5	613.3	710.3	720.6	615.1	495.5	403.8	348.3	314.1
57.5°	387.7	406.8	455.3	534.8	602.8	597.5	497.6	394.1	332.3	291.1	266.4
60°	352.1	371.0	413.6	481.9	533.1	515.2	423.5	340.2	287.2	257.0	237.3
62.5°	319.0	333.7	373.7	423.5	460.4	440.1	362.0	293.1	251.1	225.5	210.0
65°	271.1	283.0	315.0	341.0	361.5	341.9	277.0	229.2	198.9	181.0	170.3
67.5°	225.4	233.1	253.3	262.7	277.1	255.6	208.3	176.3	159.1	143.9	136.5
70°	196.8	202.4	213.0	220.7	224.5	202.4	167.3	143.8	129.3	118.6	114.0
72.5°	168.1	172.9	175.1	181.4	179.4	158.7	134.5	115.9	105.4	98.2	92.1
75°	128.5	130.6	128.5	125.9	120.3	105.8	89.2	79.8	72.2	68.7	66.6
77.5°	93.7	92.9	90.1	86.0	76.6	67.4	58.5	55.4	52.0	50.2	49.4
80°	72.2	70.4	67.8	61.5	53.3	47.0	44.8	42.7	41.4	39.3	38.8
82.5°	53.7	52.7	48.4	43.0	37.3	34.3	32.5	31.8	30.5	29.4	29.3
85°	28.6	27.3	22.6	19.6	18.8	17.9	17.5	17.5	15.8	15.3	15.3
87.5°	9.5	7.6	7.4	6.5	6.7	6.3	6.8	6.4	6.2	6.6	6.0
90°	1.2	2.0	2.9	3.7	4.6	5.6	6.8	7.8	8.9	9.2	9.5
92.5°	9.5	10.0	10.6	11.2	11.7	12.4	13.0	13.6	14.2	14.4	14.7
95°	22.3	22.9	23.6	24.1	24.7	25.4	26.0	26.7	27.3	27.6	28.0
97.5°	39.1	39.5	40.0	40.4	40.8	41.3	41.8	42.3	42.8	43.1	43.5
100°	50.7	51.2	51.7	52.2	52.7	53.1	53.5	53.9	54.3	54.5	54.8
102.5°	63.8	64.2	64.4	64.7	65.1	65.7	66.2	66.8	67.3	67.6	67.8
105°	83.3	83.5	83.6	83.8	84.2	85.0	85.7	86.4	87.2	87.2	87.2
107.5°	106.0	106.1	106.2	106.3	106.5	106.8	107.0	107.4	107.7	107.9	108.2
110°	120.3	120.4	120.6	120.7	120.9	121.1	121.2	121.4	121.6	121.9	122.2



TEST NUMBER: P332431-930

CATALOG NUMBER: S123RDIW-S775D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.9	135.1	135.2	135.3	135.3	135.3	135.4	135.4	135.4	135.8	136.2
115°	157.3	157.5	157.8	158.0	158.1	157.9	157.8	157.6	157.4	157.5	157.6
117.5°	179.5	179.7	179.9	180.0	179.9	179.8	179.5	179.4	179.1	179.1	179.1
120°	193.7	194.2	194.7	195.2	195.3	194.9	194.4	194.0	193.6	193.6	193.5
122.5°	208.1	208.5	208.8	209.1	209.2	209.0	208.8	208.6	208.4	208.1	208.0
125°	230.1	230.3	230.6	230.8	230.8	230.6	230.5	230.3	230.2	229.8	229.5
127.5°	250.7	251.3	251.8	252.3	252.5	252.3	252.1	251.9	251.8	251.3	250.9
130°	264.5	265.1	265.8	266.4	266.6	266.4	266.1	265.9	265.6	265.3	265.0
132.5°	278.0	278.8	279.4	280.1	280.3	280.1	279.9	279.7	279.6	279.2	278.8
135°	298.6	299.1	299.6	300.1	300.4	300.3	300.2	300.1	300.0	299.7	299.4
137.5°	317.8	318.2	318.6	319.0	319.4	319.5	319.8	320.0	320.2	319.8	319.5
140°	331.1	331.5	331.9	332.3	332.6	332.6	332.7	332.8	332.9	332.8	332.7
142.5°	343.2	343.6	344.1	344.5	344.7	344.9	345.0	345.2	345.3	345.2	345.1
145°	361.9	362.1	362.2	362.4	362.6	362.8	363.1	363.3	363.5	363.5	363.4
147.5°	378.5	378.9	379.1	379.4	379.7	379.9	380.2	380.4	380.7	380.7	380.7
150°	390.0	390.1	390.3	390.4	390.6	390.8	390.9	391.1	391.3	391.3	391.3
152.5°	399.5	399.7	399.9	400.1	400.3	400.4	400.6	400.6	400.7	400.9	401.0
155°	414.2	414.2	414.2	414.2	414.3	414.3	414.4	414.5	414.6	414.9	415.2
157.5°	426.8	426.7	426.6	426.5	426.5	426.6	426.6	426.6	426.7	427.1	427.5
160°	434.7	434.6	434.4	434.2	434.1	434.1	434.1	434.1	434.1	434.6	435.0
162.5°	441.7	441.5	441.2	441.1	441.0	441.0	441.1	441.2	441.2	441.6	442.1
165°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.5	451.0
167.5°	458.1	457.8	457.5	457.1	457.0	457.1	457.1	457.2	457.2	457.8	458.3
170°	462.3	461.9	461.6	461.3	461.1	461.1	461.1	461.1	461.1	461.7	462.3
172.5°	465.5	465.2	464.9	464.5	464.3	464.3	464.3	464.3	464.3	464.9	465.4
175°	468.9	468.6	468.2	467.9	467.7	467.7	467.7	467.7	467.7	468.2	468.7
177.5°	470.3	470.1	469.9	469.6	469.4	469.4	469.4	469.4	469.4	469.9	470.3
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1051.7	1051.7	1053.1	1058.3	1058.9	1063.4	1062.0
5°	1155.9	1164.0	1167.0	1179.8	1187.5	1190.9	1184.1
7.5°	1283.3	1306.2	1317.0	1330.4	1342.3	1345.9	1336.5
10°	1376.1	1400.0	1420.2	1432.5	1444.1	1451.7	1461.5
12.5°	1466.0	1495.3	1514.4	1531.9	1543.8	1553.5	1555.1
15°	1563.6	1607.9	1641.7	1666.4	1678.8	1685.2	1682.6
17.5°	1662.0	1703.2	1727.1	1752.4	1769.5	1770.4	1770.9
20°	1717.7	1757.8	1785.5	1804.3	1823.5	1822.7	1826.9
22.5°	1754.9	1786.5	1807.7	1821.4	1828.0	1824.7	1825.5
25°	1772.3	1781.7	1777.8	1756.1	1750.5	1730.5	1733.9
27.5°	1682.5	1638.1	1592.1	1533.1	1486.5	1449.3	1451.2
30°	1560.6	1482.1	1392.4	1317.3	1249.9	1231.0	1190.9
32.5°	1390.2	1272.4	1167.3	1097.3	1039.4	1023.8	988.8
35°	1101.3	986.8	878.9	814.0	788.4	752.5	752.1
37.5°	856.0	755.3	698.1	649.5	623.9	602.3	600.1
40°	720.1	641.6	598.4	563.5	538.3	522.0	518.2
42.5°	625.2	561.7	521.3	499.6	480.2	471.8	465.6
45°	510.5	467.8	439.7	420.0	411.1	404.6	401.2
47.5°	427.1	398.4	379.2	366.2	358.9	352.1	353.9
50°	381.6	358.2	344.1	331.7	326.1	321.4	321.9
52.5°	345.0	324.0	312.6	303.7	296.8	293.4	291.8
55°	292.9	279.6	268.1	261.6	257.8	253.2	251.8
57.5°	249.8	239.5	230.2	222.9	221.9	217.4	218.0
60°	221.1	212.5	204.9	201.1	198.0	194.2	195.5
62.5°	197.5	190.4	183.4	180.2	177.2	174.4	175.0
65°	161.8	154.9	150.7	149.0	147.7	146.4	145.1
67.5°	128.9	124.7	122.1	118.4	115.8	115.4	114.1
70°	108.4	102.9	98.2	93.5	92.2	91.8	92.2
72.5°	86.9	83.4	82.1	79.8	79.6	78.4	79.2
75°	65.3	64.0	63.2	61.5	61.5	61.5	61.5
77.5°	48.2	47.4	46.9	46.6	46.1	45.5	45.4
80°	37.6	37.1	36.3	36.3	35.9	36.3	35.9
82.5°	28.4	28.3	27.4	27.4	27.0	26.7	27.0
85°	14.5	14.1	14.9	14.1	14.5	13.7	14.5
87.5°	6.0	6.1	5.9	5.9	5.5	6.3	5.6
90°	9.9	10.2	10.4	10.6	10.8	10.9	11.1
92.5°	15.0	15.2	15.3	15.2	15.1	15.0	14.9
95°	28.3	28.6	28.8	28.8	28.8	28.8	28.8
97.5°	43.9	44.3	44.4	44.4	44.4	44.4	44.4
100°	55.0	55.3	55.5	55.7	55.8	56.0	56.2
102.5°	68.1	68.3	68.4	68.4	68.3	68.3	68.2
105°	87.2	87.2	87.2	87.5	87.6	87.8	88.0
107.5°	108.4	108.7	108.8	108.7	108.6	108.5	108.4
110°	122.5	122.9	122.9	122.8	122.6	122.5	122.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	136.6	137.1	137.2	137.1	137.1	137.1	137.1
115°	157.7	157.8	157.8	157.7	157.6	157.5	157.4
117.5°	179.0	179.0	179.0	178.7	178.5	178.2	178.0
120°	193.4	193.3	193.1	193.0	192.8	192.7	192.5
122.5°	207.7	207.5	207.3	207.1	206.8	206.6	206.4
125°	229.2	228.9	228.5	228.2	227.9	227.6	227.2
127.5°	250.4	249.9	249.5	249.2	248.7	248.3	248.0
130°	264.6	264.3	263.9	263.3	262.8	262.2	261.5
132.5°	278.3	277.9	277.5	277.1	276.6	276.2	275.7
135°	299.1	298.7	298.5	298.3	298.2	298.0	297.8
137.5°	319.2	318.8	318.5	318.1	317.9	317.6	317.2
140°	332.6	332.6	332.2	331.7	331.1	330.5	330.0
142.5°	345.0	345.0	344.7	344.3	343.8	343.4	342.9
145°	363.3	363.2	363.1	362.7	362.4	362.1	361.7
147.5°	380.7	380.7	380.4	379.9	379.4	378.9	378.4
150°	391.3	391.3	391.0	390.5	390.0	389.6	389.1
152.5°	401.1	401.3	401.1	400.7	400.2	399.8	399.4
155°	415.6	415.9	415.7	415.2	414.6	414.0	413.4
157.5°	427.8	428.1	428.0	427.6	427.1	426.6	426.2
160°	435.4	435.8	435.8	435.5	435.1	434.8	434.5
162.5°	442.5	442.9	442.8	442.3	441.7	441.2	440.7
165°	451.5	452.0	451.9	451.3	450.8	450.2	449.6
167.5°	458.8	459.3	459.3	458.8	458.3	457.8	457.2
170°	462.8	463.4	463.4	462.8	462.3	461.7	461.1
172.5°	465.9	466.4	466.4	465.8	465.2	464.6	464.1
175°	469.2	469.7	469.7	469.1	468.6	468.0	467.4
177.5°	470.7	471.0	471.0	470.5	470.1	469.6	469.1
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3

(END OF REPORT)