

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: P331825-927

Luminaire Tested: **S122RDIW-S865D435U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331825-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D435U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

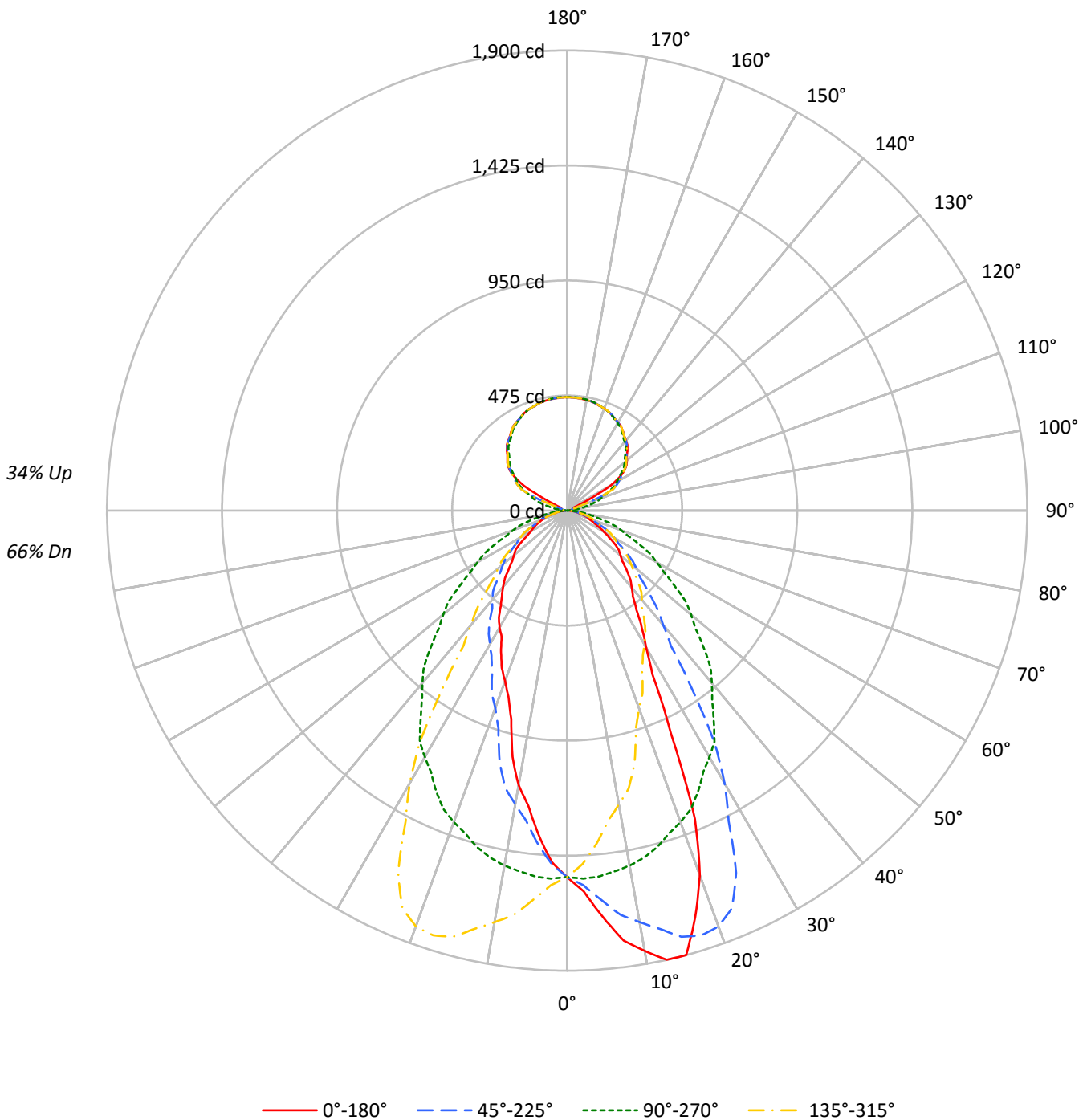
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	95	91	96	93	90	87	82	80	78	73	71	69	64	63	61	57
2	94	87	81	76	88	82	77	73	73	69	66	65	62	60	58	55	53	50
3	87	78	71	65	81	73	67	62	66	61	57	59	55	52	52	49	47	43
4	80	70	62	56	75	66	59	54	59	54	50	53	49	45	47	44	41	38
5	74	63	55	49	69	60	53	47	54	48	44	48	44	40	43	40	37	34
6	69	57	49	43	65	54	47	42	49	43	39	44	40	36	40	36	33	31
7	64	52	44	39	60	50	43	38	45	39	35	41	36	32	37	33	30	28
8	60	48	40	35	56	45	39	34	41	36	32	38	33	29	34	30	27	25
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24425	24425	24425	24425
5°	27279	24577	21793	24577
10°	30263	24405	18889	24405
15°	31753	24047	14883	24047
20°	27527	23517	12880	23517
25°	18054	22792	11500	22792
30°	12152	21912	10407	21912
35°	9841	20802	9386	20802
40°	8753	19597	8686	19597
45°	7921	18182	7752	18182
50°	7209	16779	7181	16779
55°	6776	15226	6688	15226
60°	5667	13798	5603	13798
65°	4779	12531	5421	12531
70°	4419	11188	5113	11188
75°	4130	9738	4722	9738
80°	3812	8015	4203	8015
85°	3501	6317	3705	6317



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.6
10°-20°	399.6	10.0
20°-30°	514.9	12.9
30°-40°	489.3	12.3
40°-50°	419.2	10.5
50°-60°	319.2	8.0
60°-70°	201.8	5.1
70°-80°	100.8	2.5
80°-90°	27.4	0.7
90°-100°	15.6	0.4
100°-110°	57.2	1.4
110°-120°	153.0	3.8
120°-130°	252.6	6.3
130°-140°	268.6	6.7
140°-150°	249.7	6.3
150°-160°	200.7	5.0
160°-170°	129.3	3.2
170°-180°	44.5	1.1
0°-30°	1057.9	26.5
0°-40°	1547.2	38.8
0°-60°	2285.6	57.3
0°-90°	2615.5	65.6
90°-120°	225.9	5.7
90°-150°	996.7	25.0
90°-180°	1371.0	34.4
0°-180°	3986.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1513	1513	1513	1513	1513	
5°	1683	1516	1345	1516	1683	166
15°	1900	1439	890	1439	1900	512
25°	1013	1279	646	1279	1013	481
35°	499	1055	476	1055	499	319
45°	347	796	340	796	347	269
55°	241	541	238	541	241	211
65°	125	328	142	328	125	127
75°	66	156	76	156	66	70
85°	19	34	20	34	19	21
90°	9	0	9	0	9	5
95°	15	22	15	22	15	14
105°	26	103	26	103	26	27
115°	28	195	28	195	28	70
125°	290	275	290	275	290	250
135°	352	341	352	341	352	271
145°	401	395	401	395	401	251
155°	436	435	436	435	436	201
165°	457	458	457	458	457	129
175°	466	469	466	469	466	44
180°	468	468	468	468	468	



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1574.1	1575.4	1576.7	1573.7	1573.7	1571.2	1565.7	1561.5	1549.7	1548.1	1548.1
5°	1683.1	1682.0	1684.1	1677.3	1667.8	1665.7	1655.7	1642.6	1628.9	1613.7	1610.5
7.5°	1791.3	1789.7	1785.5	1784.4	1777.1	1761.3	1745.2	1728.1	1705.3	1683.1	1672.0
10°	1845.9	1863.3	1852.8	1834.4	1838.1	1813.4	1800.2	1777.7	1758.7	1725.6	1718.2
12.5°	1899.8	1906.6	1903.3	1892.8	1888.2	1871.0	1853.2	1833.6	1798.6	1768.9	1743.0
15°	1899.6	1909.6	1912.2	1909.1	1911.7	1910.7	1901.2	1884.8	1854.4	1821.8	1793.4
17.5°	1759.4	1766.3	1783.5	1795.2	1809.9	1841.0	1856.4	1862.3	1857.8	1839.2	1819.2
20°	1602.1	1590.5	1638.9	1663.6	1684.6	1737.2	1782.4	1799.8	1827.6	1827.1	1821.8
22.5°	1379.2	1382.0	1427.8	1457.1	1518.5	1571.1	1622.6	1687.9	1741.8	1777.4	1798.3
25°	1013.4	1033.4	1079.1	1119.0	1187.4	1285.2	1374.0	1477.0	1574.2	1651.0	1724.0
27.5°	761.1	762.6	798.8	835.8	876.3	956.4	1068.3	1191.3	1329.9	1444.3	1575.9
30°	651.8	648.6	663.8	686.4	721.1	783.2	867.3	988.2	1126.4	1298.8	1452.3
32.5°	574.4	574.6	586.1	602.8	631.6	673.4	731.0	829.3	959.9	1129.3	1309.3
35°	499.3	498.8	507.2	519.3	531.4	558.2	597.6	649.1	739.0	897.2	1081.2
37.5°	445.5	447.8	451.9	459.5	472.9	487.7	511.4	546.1	610.1	703.6	858.3
40°	415.3	416.3	422.1	428.4	436.3	447.8	467.3	495.1	541.9	616.6	729.5
42.5°	387.5	388.6	392.6	398.5	404.7	416.3	432.4	456.5	494.4	552.6	645.9
45°	346.9	346.9	350.6	353.2	360.0	370.6	383.7	403.7	429.9	473.1	535.1
47.5°	308.9	309.0	311.4	315.9	320.2	328.4	341.4	357.7	376.8	410.1	463.1
50°	287.0	287.5	289.1	292.8	295.4	302.8	312.8	326.9	346.9	372.6	416.8
52.5°	269.3	269.0	271.0	272.6	274.4	279.6	287.1	299.6	317.5	339.8	376.4
55°	240.7	238.6	241.8	244.4	246.0	248.1	252.3	260.2	275.4	294.4	321.7
57.5°	205.0	204.1	206.4	208.7	213.7	219.4	223.0	228.0	235.9	249.5	276.6
60°	175.5	175.5	180.3	181.9	187.7	195.0	202.4	206.6	214.4	223.4	243.4
62.5°	149.5	149.9	152.1	153.7	156.9	166.0	176.3	185.5	193.0	201.5	214.8
65°	125.1	126.1	126.1	127.2	129.3	131.4	135.6	143.0	156.1	168.2	178.2
67.5°	106.2	106.5	106.8	107.9	108.4	110.7	112.4	115.7	118.7	130.2	142.5
70°	93.6	95.1	94.6	95.7	96.2	97.2	99.3	100.9	105.7	108.3	115.7
72.5°	81.8	82.9	82.9	83.5	84.8	85.1	86.7	88.3	91.3	93.6	97.5
75°	66.2	65.7	66.2	67.3	67.8	68.4	68.4	70.4	72.0	74.1	76.8
77.5°	51.1	51.7	51.5	51.7	51.7	52.7	52.6	53.5	55.1	56.2	57.4
80°	41.0	41.5	41.0	41.5	42.1	42.5	42.1	42.5	44.1	45.2	45.2
82.5°	31.8	31.8	32.2	32.2	32.4	32.5	33.2	33.4	34.5	34.3	34.7
85°	18.9	18.4	18.4	18.4	18.9	19.4	18.9	18.9	19.4	19.4	19.4
87.5°	8.6	9.0	9.0	8.9	8.9	8.8	8.7	9.1	8.6	9.0	8.4
90°	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5	7.1	6.7	6.2
92.5°	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2	8.1	7.8	7.5
95°	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9	13.5	13.2	12.7
97.5°	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3	18.0	17.7	16.5
100°	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5	19.9	19.3	18.0
102.5°	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4	20.6	19.8	30.6
105°	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3	21.5	20.7	41.2
107.5°	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3	28.0	28.9	53.6
110°	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2	51.7	59.3	81.0



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6	122.0	149.5	154.8
115°	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3	174.0	208.9	207.0
117.5°	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5	223.0	231.4	230.1
120°	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0	249.1	248.2	246.8
122.5°	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2	264.7	264.2	262.7
125°	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2	286.6	286.1	284.7
127.5°	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4	306.7	305.9	304.8
130°	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3	319.4	318.6	317.8
132.5°	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8	332.1	331.4	330.5
135°	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6	349.8	349.1	348.4
137.5°	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2	366.4	365.7	364.9
140°	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9	377.2	376.5	375.7
142.5°	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8	387.1	386.5	385.6
145°	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6	401.1	400.5	399.3
147.5°	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7	413.3	412.9	411.6
150°	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1	420.6	420.2	419.0
152.5°	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9	427.4	427.0	425.8
155°	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0	436.6	436.1	435.2
157.5°	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7	444.2	443.7	443.1
160°	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2	448.8	448.3	447.8
162.5°	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4	452.9	452.3	451.9
165°	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5	458.0	457.4	457.2
167.5°	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8	462.2	461.7	461.5
170°	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9	464.4	463.9	463.7
172.5°	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5	466.0	465.5	465.3
175°	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3	467.8	467.2	467.1
177.5°	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5	468.1	467.6	467.6
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1548.9	1545.5	1542.6	1535.0	1531.2	1522.8	1521.5	1521.1	1510.2	1499.7	1496.7
5°	1602.1	1593.7	1581.0	1566.4	1551.1	1535.3	1524.8	1516.4	1495.4	1475.4	1463.9
7.5°	1655.7	1637.6	1615.9	1588.0	1564.8	1538.7	1519.3	1502.0	1472.2	1443.6	1424.3
10°	1695.7	1666.2	1637.3	1598.9	1569.0	1539.5	1512.2	1488.6	1454.9	1417.1	1390.3
12.5°	1720.5	1688.1	1648.2	1610.7	1571.9	1534.5	1497.9	1467.5	1428.0	1388.9	1357.0
15°	1754.0	1719.3	1671.0	1617.3	1567.4	1518.5	1476.5	1438.6	1387.1	1340.3	1301.4
17.5°	1781.5	1733.7	1681.8	1619.8	1561.9	1499.8	1445.7	1397.3	1340.0	1283.6	1237.7
20°	1790.3	1743.0	1683.1	1621.0	1552.7	1479.6	1421.3	1368.7	1307.2	1245.7	1193.2
22.5°	1784.8	1748.0	1681.3	1607.1	1537.2	1460.7	1394.8	1333.8	1265.6	1202.8	1141.9
25°	1747.7	1735.0	1672.0	1591.0	1511.2	1422.4	1346.1	1279.4	1201.6	1134.3	1068.0
27.5°	1661.2	1688.4	1649.3	1563.1	1474.3	1379.0	1293.3	1217.3	1136.6	1060.9	994.9
30°	1577.9	1640.5	1623.7	1543.7	1444.4	1350.8	1254.7	1175.3	1089.1	1011.3	946.1
32.5°	1464.0	1567.3	1583.7	1516.9	1414.1	1311.3	1210.5	1131.6	1041.6	959.6	896.0
35°	1282.5	1437.0	1508.0	1465.5	1362.4	1251.5	1147.4	1055.4	965.0	884.1	821.0
37.5°	1066.0	1276.5	1394.8	1397.8	1303.2	1187.9	1074.6	983.3	890.7	811.3	743.0
40°	925.6	1153.7	1307.7	1341.9	1262.0	1137.4	1022.9	929.8	839.4	761.6	683.3
42.5°	799.5	1026.7	1216.1	1275.5	1212.0	1088.2	973.3	876.0	788.1	714.5	634.5
45°	646.5	845.2	1053.8	1160.1	1124.8	1010.3	888.8	796.3	713.8	650.2	573.5
47.5°	545.4	685.4	887.3	1030.9	1030.3	925.7	806.3	717.7	641.1	581.5	519.4
50°	487.7	609.7	780.5	943.5	957.1	869.3	755.8	668.0	596.6	534.0	484.1
52.5°	436.0	536.5	690.1	846.4	885.3	809.2	699.1	618.1	548.7	491.2	448.4
55°	368.4	446.2	562.9	709.1	767.9	714.3	616.6	540.9	484.7	436.3	399.5
57.5°	311.7	370.0	463.7	581.3	649.9	616.2	535.5	474.0	425.9	382.1	353.1
60°	275.9	323.8	403.1	501.5	577.1	553.5	484.7	427.3	386.3	348.5	321.2
62.5°	242.3	283.4	351.4	431.2	500.6	490.8	434.6	386.5	350.6	316.1	292.9
65°	195.0	225.0	278.1	340.6	396.3	401.1	360.6	328.0	296.0	268.6	248.1
67.5°	155.3	174.8	212.2	264.9	306.7	321.5	296.8	272.0	246.5	225.4	207.6
70°	130.9	146.6	174.0	216.6	254.9	270.7	256.5	237.0	215.0	197.6	182.4
72.5°	106.1	121.4	141.6	172.9	205.7	222.8	217.9	203.8	185.9	171.6	157.2
75°	79.9	84.6	98.3	119.3	145.0	159.8	163.5	156.1	141.9	130.9	122.5
77.5°	59.1	61.9	68.4	79.5	96.3	109.4	114.8	113.9	104.2	97.8	89.9
80°	47.3	48.9	52.0	56.8	69.4	82.5	86.2	86.2	79.4	76.8	68.8
82.5°	36.0	37.1	39.0	41.6	47.5	58.9	63.1	63.9	59.6	56.2	49.9
85°	20.5	20.0	21.0	22.6	23.7	26.8	33.1	34.1	33.1	28.9	27.3
87.5°	8.2	8.6	8.5	7.8	8.2	8.4	10.3	12.3	10.8	9.7	9.0
90°	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8	6.7	6.7	6.6
95°	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0	19.5	17.0	14.6
97.5°	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6	36.7	29.7	22.7
100°	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0	49.6	39.3	29.0
102.5°	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8	75.7	73.4	71.3
105°	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9	105.2	107.4	109.7
107.5°	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6	133.4	135.2	137.0
110°	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0	151.5	153.1	154.7



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3	168.7	170.2	171.5
115°	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7	196.0	197.3	198.5
117.5°	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1	220.5	222.0	223.4
120°	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0	238.1	239.2	240.4
122.5°	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2	253.3	254.5	255.7
125°	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3	276.2	277.3	278.2
127.5°	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2	297.3	298.3	299.4
130°	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5	310.7	311.9	313.1
132.5°	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1	324.0	325.0	326.1
135°	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6	341.8	343.0	344.2
137.5°	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5	359.3	360.1	361.0
140°	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1	370.7	371.3	371.9
142.5°	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9	380.4	380.9	381.4
145°	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1	395.1	395.0	394.9
147.5°	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4	408.2	407.9	407.7
150°	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2	416.6	416.1	415.6
152.5°	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5	423.9	423.3	422.7
155°	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1	434.4	433.7	433.1
157.5°	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4	442.8	442.3	441.7
160°	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	447.8	447.4	446.9
162.5°	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7	452.2	451.7	451.3
165°	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4	458.0	457.6	457.1
167.5°	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8	462.3	461.9	461.4
170°	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2	464.8	464.3	463.9
172.5°	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8	466.4	466.0	465.5
175°	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0	468.4	467.9	467.4
177.5°	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3	468.9	468.4	468.0
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1491.3	1488.4	1482.9	1474.5	1469.4	1460.6	1454.7	1458.1	1458.9	1458.1	1457.2
5°	1451.2	1440.2	1425.0	1410.2	1396.5	1381.9	1373.4	1369.8	1362.4	1358.2	1356.1
7.5°	1402.8	1383.8	1362.2	1336.6	1314.8	1292.0	1280.3	1274.5	1259.5	1251.3	1244.1
10°	1366.6	1336.6	1315.1	1281.4	1261.0	1231.0	1210.5	1211.0	1190.5	1178.9	1170.5
12.5°	1326.7	1293.8	1257.9	1227.6	1199.1	1175.0	1150.4	1140.3	1118.6	1107.5	1084.7
15°	1260.4	1222.1	1184.2	1143.2	1114.3	1077.0	1041.2	997.6	962.4	931.9	923.5
17.5°	1188.1	1140.6	1102.6	1054.5	1005.0	942.2	900.8	875.4	854.2	838.1	826.2
20°	1138.5	1090.1	1049.6	977.2	910.4	867.8	837.3	817.8	795.8	778.5	769.0
22.5°	1086.3	1035.9	980.7	899.8	847.7	813.6	786.4	764.1	749.1	735.5	726.9
25°	1012.3	957.1	866.3	810.5	768.4	732.7	713.8	700.1	684.4	666.0	657.5
27.5°	934.1	846.4	781.1	739.7	699.5	676.3	659.3	638.8	624.7	616.5	607.7
30°	875.7	787.9	736.9	691.7	663.3	637.5	617.6	606.0	592.4	578.2	572.4
32.5°	810.5	740.4	691.5	653.9	625.0	603.1	587.3	568.6	558.7	550.0	537.9
35°	729.5	676.4	631.8	601.3	574.0	556.1	537.7	526.6	508.8	501.5	496.7
37.5°	661.0	615.0	581.6	549.5	527.8	508.0	496.8	479.3	471.5	461.3	451.3
40°	622.3	577.1	545.1	518.8	494.6	479.9	465.7	451.5	440.0	435.2	423.1
42.5°	582.8	546.1	514.0	485.1	469.0	453.4	435.5	425.0	413.0	405.4	397.9
45°	528.2	495.7	468.3	444.7	426.8	410.5	398.9	381.6	374.8	359.5	353.2
47.5°	480.3	450.0	424.0	401.5	384.0	373.4	356.5	342.9	332.0	322.7	314.5
50°	446.2	421.0	395.8	375.8	360.0	344.8	327.5	320.6	303.8	299.0	294.4
52.5°	415.1	391.2	368.0	348.5	332.7	317.9	302.6	293.7	282.3	277.7	274.2
55°	371.6	348.5	326.4	309.0	293.3	278.1	268.6	257.5	252.3	248.6	244.4
57.5°	327.9	307.0	290.2	272.6	256.7	244.6	233.7	227.0	221.6	216.7	211.8
60°	300.2	280.1	264.9	248.6	232.3	222.4	213.9	206.0	199.7	192.3	190.3
62.5°	270.7	253.3	239.2	223.4	209.2	200.0	192.0	184.6	177.1	166.3	163.3
65°	230.2	216.6	201.8	188.7	176.1	167.2	155.6	147.2	144.0	143.0	142.4
67.5°	193.6	180.7	168.1	154.6	143.1	134.9	129.0	127.7	125.5	124.8	123.4
70°	169.2	157.2	144.6	131.9	120.9	119.3	117.2	115.1	112.5	111.5	110.4
72.5°	147.3	134.9	122.2	112.2	107.4	105.4	103.3	101.2	99.4	98.4	97.8
75°	113.0	101.5	93.0	89.4	86.7	85.2	82.0	80.4	79.4	77.8	77.2
77.5°	81.4	74.9	71.0	68.7	65.9	64.2	62.4	60.8	59.7	59.4	58.5
80°	62.0	58.9	56.2	53.1	52.0	49.9	49.4	47.8	48.3	46.8	46.8
82.5°	48.2	44.1	41.9	40.5	39.5	37.7	37.2	36.4	36.6	35.4	35.4
85°	24.7	23.7	22.6	21.5	21.5	20.0	20.5	20.0	20.0	18.9	18.4
87.5°	8.7	8.5	7.7	7.8	8.0	7.7	7.8	7.4	7.4	7.5	7.2
90°	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5	7.9	8.2	8.6
92.5°	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2	8.5	8.6	8.8
95°	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9	14.3	14.7	14.9
97.5°	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3	18.6	18.9	19.1
100°	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5	21.1	21.7	22.1
102.5°	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4	22.2	23.0	23.4
105°	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3	23.1	24.0	24.6
107.5°	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3	26.4	25.5	25.3
110°	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2	36.7	29.2	25.5



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6	67.1	39.7	26.1
115°	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3	104.4	69.6	49.4
117.5°	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5	206.1	197.6	184.6
120°	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0	250.9	251.8	247.2
122.5°	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2	265.8	266.3	265.6
125°	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2	287.7	288.2	288.6
127.5°	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4	308.2	309.0	309.3
130°	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3	321.1	321.9	322.3
132.5°	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8	333.4	334.1	334.5
135°	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6	351.3	352.1	352.4
137.5°	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2	367.9	368.6	368.8
140°	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9	378.6	379.2	379.4
142.5°	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8	388.4	389.0	389.1
145°	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6	402.1	402.7	402.7
147.5°	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7	414.1	414.5	414.5
150°	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1	421.5	422.0	422.1
152.5°	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9	428.3	428.8	428.7
155°	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0	437.4	437.9	437.8
157.5°	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7	445.2	445.8	445.7
160°	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2	449.6	450.1	450.0
162.5°	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4	453.9	454.4	454.3
165°	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5	459.0	459.5	459.5
167.5°	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8	463.3	463.8	463.7
170°	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9	465.5	466.0	465.9
172.5°	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5	467.1	467.6	467.5
175°	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3	468.8	469.4	469.3
177.5°	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5	468.9	469.4	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1452.6	1453.4	1452.1	1453.0	1452.1	1453.4	1452.6	1457.2	1458.1	1458.9	1458.1
5°	1353.4	1347.2	1346.1	1344.6	1346.1	1347.2	1353.4	1356.1	1358.2	1362.4	1369.8
7.5°	1235.1	1234.1	1231.5	1227.9	1231.5	1234.1	1235.1	1244.1	1251.3	1259.5	1274.5
10°	1159.0	1156.3	1155.9	1152.1	1155.9	1156.3	1159.0	1170.5	1178.9	1190.5	1211.0
12.5°	1069.8	1052.9	1051.1	1042.0	1051.1	1052.9	1069.8	1084.7	1107.5	1118.6	1140.3
15°	910.9	907.8	897.2	890.4	897.2	907.8	910.9	923.5	931.9	962.4	997.6
17.5°	820.1	809.8	806.5	805.0	806.5	809.8	820.1	826.2	838.1	854.2	875.4
20°	761.6	752.2	750.6	749.6	750.6	752.2	761.6	769.0	778.5	795.8	817.8
22.5°	721.3	711.4	707.3	704.1	707.3	711.4	721.3	726.9	735.5	749.1	764.1
25°	652.3	648.6	646.5	645.5	646.5	648.6	652.3	657.5	666.0	684.4	700.1
27.5°	598.3	590.3	588.7	586.0	588.7	590.3	598.3	607.7	616.5	624.7	638.8
30°	567.7	565.1	561.3	558.2	561.3	565.1	567.7	572.4	578.2	592.4	606.0
32.5°	531.5	529.3	526.0	524.6	526.0	529.3	531.5	537.9	550.0	558.7	568.6
35°	491.5	484.1	480.9	476.2	480.9	484.1	491.5	496.7	501.5	508.8	526.6
37.5°	449.1	445.2	440.8	442.4	440.8	445.2	449.1	451.3	461.3	471.5	479.3
40°	416.3	413.7	412.6	412.1	412.6	413.7	416.3	423.1	435.2	440.0	451.5
42.5°	390.2	382.9	380.2	380.1	380.2	382.9	390.2	397.9	405.4	413.0	425.0
45°	350.6	343.7	339.1	339.5	339.1	343.7	350.6	353.2	359.5	374.8	381.6
47.5°	310.0	309.8	306.9	307.8	306.9	309.8	310.0	314.5	322.7	332.0	342.9
50°	290.7	287.5	285.4	285.9	285.4	287.5	290.7	294.4	299.0	303.8	320.6
52.5°	272.2	269.4	267.8	270.0	267.8	269.4	272.2	274.2	277.7	282.3	293.7
55°	241.8	238.6	238.1	237.6	238.1	238.6	241.8	244.4	248.6	252.3	257.5
57.5°	207.9	205.7	202.6	201.2	202.6	205.7	207.9	211.8	216.7	221.6	227.0
60°	183.5	179.3	174.0	173.5	174.0	179.3	183.5	190.3	192.3	199.7	206.0
62.5°	161.1	160.3	159.2	159.1	159.2	160.3	161.1	163.3	166.3	177.1	184.6
65°	141.4	140.9	141.4	141.9	141.4	140.9	141.4	142.4	143.0	144.0	147.2
67.5°	123.2	122.2	121.3	121.8	121.3	122.2	123.2	123.4	124.8	125.5	127.7
70°	109.3	108.8	108.3	108.3	108.3	108.8	109.3	110.4	111.5	112.5	115.1
72.5°	95.9	95.8	95.2	94.8	95.2	95.8	95.9	97.8	98.4	99.4	101.2
75°	76.8	75.7	75.7	75.7	75.7	75.7	76.8	77.2	77.8	79.4	80.4
77.5°	58.5	57.9	57.4	57.0	57.4	57.9	58.5	58.5	59.4	59.7	60.8
80°	46.3	45.7	45.2	45.2	45.2	45.7	46.3	46.8	46.8	48.3	47.8
82.5°	35.3	34.8	34.7	34.3	34.7	34.8	35.3	35.4	35.4	36.6	36.4
85°	18.9	19.4	18.9	20.0	18.9	19.4	18.9	18.4	18.9	20.0	20.0
87.5°	7.2	6.8	7.3	6.9	7.3	6.8	7.2	7.2	7.5	7.4	7.4
90°	8.7	8.9	9.0	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5
92.5°	8.9	9.0	9.0	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2
95°	14.8	14.7	14.7	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9
97.5°	19.2	19.3	19.3	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3
100°	22.3	22.4	22.5	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5
102.5°	23.7	23.9	24.1	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4
105°	24.8	25.1	25.4	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3
107.5°	25.6	25.9	26.1	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3
110°	25.8	26.1	26.5	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	26.3	26.5	26.8	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6
115°	44.0	38.6	33.2	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3
117.5°	166.8	148.9	131.2	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5
120°	237.0	226.9	216.7	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0
122.5°	263.6	261.7	259.7	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2
125°	288.8	289.1	289.3	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2
127.5°	309.4	309.4	309.5	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4
130°	322.3	322.2	322.1	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3
132.5°	334.4	334.3	334.3	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8
135°	352.3	352.1	352.0	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6
137.5°	368.6	368.4	368.1	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2
140°	379.0	378.6	378.3	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9
142.5°	388.7	388.4	388.0	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8
145°	402.3	402.0	401.6	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6
147.5°	414.2	413.8	413.5	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7
150°	421.7	421.3	420.9	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1
152.5°	428.3	427.8	427.2	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9
155°	437.2	436.7	436.0	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0
157.5°	445.1	444.5	443.9	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7
160°	449.6	449.0	448.5	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2
162.5°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4
165°	459.0	458.5	458.0	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5
167.5°	463.0	462.4	461.7	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8
170°	465.2	464.5	463.9	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9
172.5°	466.8	466.2	465.5	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5
175°	468.5	467.8	467.0	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3
177.5°	468.7	468.2	467.6	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1454.7	1460.6	1469.4	1474.5	1482.9	1488.4	1491.3	1496.7	1499.7	1510.2	1521.1
5°	1373.4	1381.9	1396.5	1410.2	1425.0	1440.2	1451.2	1463.9	1475.4	1495.4	1516.4
7.5°	1280.3	1292.0	1314.8	1336.6	1362.2	1383.8	1402.8	1424.3	1443.6	1472.2	1502.0
10°	1210.5	1231.0	1261.0	1281.4	1315.1	1336.6	1366.6	1390.3	1417.1	1454.9	1488.6
12.5°	1150.4	1175.0	1199.1	1227.6	1257.9	1293.8	1326.7	1357.0	1388.9	1428.0	1467.5
15°	1041.2	1077.0	1114.3	1143.2	1184.2	1222.1	1260.4	1301.4	1340.3	1387.1	1438.6
17.5°	900.8	942.2	1005.0	1054.5	1102.6	1140.6	1188.1	1237.7	1283.6	1340.0	1397.3
20°	837.3	867.8	910.4	977.2	1049.6	1090.1	1138.5	1193.2	1245.7	1307.2	1368.7
22.5°	786.4	813.6	847.7	899.8	980.7	1035.9	1086.3	1141.9	1202.8	1265.6	1333.8
25°	713.8	732.7	768.4	810.5	866.3	957.1	1012.3	1068.0	1134.3	1201.6	1279.4
27.5°	659.3	676.3	699.5	739.7	781.1	846.4	934.1	994.9	1060.9	1136.6	1217.3
30°	617.6	637.5	663.3	691.7	736.9	787.9	875.7	946.1	1011.3	1089.1	1175.3
32.5°	587.3	603.1	625.0	653.9	691.5	740.4	810.5	896.0	959.6	1041.6	1131.6
35°	537.7	556.1	574.0	601.3	631.8	676.4	729.5	821.0	884.1	965.0	1055.4
37.5°	496.8	508.0	527.8	549.5	581.6	615.0	661.0	743.0	811.3	890.7	983.3
40°	465.7	479.9	494.6	518.8	545.1	577.1	622.3	683.3	761.6	839.4	929.8
42.5°	435.5	453.4	469.0	485.1	514.0	546.1	582.8	634.5	714.5	788.1	876.0
45°	398.9	410.5	426.8	444.7	468.3	495.7	528.2	573.5	650.2	713.8	796.3
47.5°	356.5	373.4	384.0	401.5	424.0	450.0	480.3	519.4	581.5	641.1	717.7
50°	327.5	344.8	360.0	375.8	395.8	421.0	446.2	484.1	534.0	596.6	668.0
52.5°	302.6	317.9	332.7	348.5	368.0	391.2	415.1	448.4	491.2	548.7	618.1
55°	268.6	278.1	293.3	309.0	326.4	348.5	371.6	399.5	436.3	484.7	540.9
57.5°	233.7	244.6	256.7	272.6	290.2	307.0	327.9	353.1	382.1	425.9	474.0
60°	213.9	222.4	232.3	248.6	264.9	280.1	300.2	321.2	348.5	386.3	427.3
62.5°	192.0	200.0	209.2	223.4	239.2	253.3	270.7	292.9	316.1	350.6	386.5
65°	155.6	167.2	176.1	188.7	201.8	216.6	230.2	248.1	268.6	296.0	328.0
67.5°	129.0	134.9	143.1	154.6	168.1	180.7	193.6	207.6	225.4	246.5	272.0
70°	117.2	119.3	120.9	131.9	144.6	157.2	169.2	182.4	197.6	215.0	237.0
72.5°	103.3	105.4	107.4	112.2	122.2	134.9	147.3	157.2	171.6	185.9	203.8
75°	82.0	85.2	86.7	89.4	93.0	101.5	113.0	122.5	130.9	141.9	156.1
77.5°	62.4	64.2	65.9	68.7	71.0	74.9	81.4	89.9	97.8	104.2	113.9
80°	49.4	49.9	52.0	53.1	56.2	58.9	62.0	68.8	76.8	79.4	86.2
82.5°	37.2	37.7	39.5	40.5	41.9	44.1	48.2	49.9	56.2	59.6	63.9
85°	20.5	20.0	21.5	21.5	22.6	23.7	24.7	27.3	28.9	33.1	34.1
87.5°	7.8	7.7	8.0	7.8	7.7	8.5	8.7	9.0	9.7	10.8	12.3
90°	7.1	6.7	6.2	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3
92.5°	8.1	7.8	7.5	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8
95°	13.5	13.2	12.7	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0
97.5°	18.0	17.7	16.5	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6
100°	19.9	19.3	18.0	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0
102.5°	20.6	19.8	30.6	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8
105°	21.5	20.7	41.2	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9
107.5°	28.0	28.9	53.6	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6
110°	51.7	59.3	81.0	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.0	149.5	154.8	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3
115°	174.0	208.9	207.0	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7
117.5°	223.0	231.4	230.1	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1
120°	249.1	248.2	246.8	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0
122.5°	264.7	264.2	262.7	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2
125°	286.6	286.1	284.7	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3
127.5°	306.7	305.9	304.8	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2
130°	319.4	318.6	317.8	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5
132.5°	332.1	331.4	330.5	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1
135°	349.8	349.1	348.4	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6
137.5°	366.4	365.7	364.9	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5
140°	377.2	376.5	375.7	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1
142.5°	387.1	386.5	385.6	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9
145°	401.1	400.5	399.3	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1
147.5°	413.3	412.9	411.6	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4
150°	420.6	420.2	419.0	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2
152.5°	427.4	427.0	425.8	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5
155°	436.6	436.1	435.2	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1
157.5°	444.2	443.7	443.1	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4
160°	448.8	448.3	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3
162.5°	452.9	452.3	451.9	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7
165°	458.0	457.4	457.2	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4
167.5°	462.2	461.7	461.5	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8
170°	464.4	463.9	463.7	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2
172.5°	466.0	465.5	465.3	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8
175°	467.8	467.2	467.1	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0
177.5°	468.1	467.6	467.6	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1521.5	1522.8	1531.2	1535.0	1542.6	1545.5	1548.9	1548.1	1548.1	1549.7	1561.5
5°	1524.8	1535.3	1551.1	1566.4	1581.0	1593.7	1602.1	1610.5	1613.7	1628.9	1642.6
7.5°	1519.3	1538.7	1564.8	1588.0	1615.9	1637.6	1655.7	1672.0	1683.1	1705.3	1728.1
10°	1512.2	1539.5	1569.0	1598.9	1637.3	1666.2	1695.7	1718.2	1725.6	1758.7	1777.7
12.5°	1497.9	1534.5	1571.9	1610.7	1648.2	1688.1	1720.5	1743.0	1768.9	1798.6	1833.6
15°	1476.5	1518.5	1567.4	1617.3	1671.0	1719.3	1754.0	1793.4	1821.8	1854.4	1884.8
17.5°	1445.7	1499.8	1561.9	1619.8	1681.8	1733.7	1781.5	1819.2	1839.2	1857.8	1862.3
20°	1421.3	1479.6	1552.7	1621.0	1683.1	1743.0	1790.3	1821.8	1827.1	1827.6	1799.8
22.5°	1394.8	1460.7	1537.2	1607.1	1681.3	1748.0	1784.8	1798.3	1777.4	1741.8	1687.9
25°	1346.1	1422.4	1511.2	1591.0	1672.0	1735.0	1747.7	1724.0	1651.0	1574.2	1477.0
27.5°	1293.3	1379.0	1474.3	1563.1	1649.3	1688.4	1661.2	1575.9	1444.3	1329.9	1191.3
30°	1254.7	1350.8	1444.4	1543.7	1623.7	1640.5	1577.9	1452.3	1298.8	1126.4	988.2
32.5°	1210.5	1311.3	1414.1	1516.9	1583.7	1567.3	1464.0	1309.3	1129.3	959.9	829.3
35°	1147.4	1251.5	1362.4	1465.5	1508.0	1437.0	1282.5	1081.2	897.2	739.0	649.1
37.5°	1074.6	1187.9	1303.2	1397.8	1394.8	1276.5	1066.0	858.3	703.6	610.1	546.1
40°	1022.9	1137.4	1262.0	1341.9	1307.7	1153.7	925.6	729.5	616.6	541.9	495.1
42.5°	973.3	1088.2	1212.0	1275.5	1216.1	1026.7	799.5	645.9	552.6	494.4	456.5
45°	888.8	1010.3	1124.8	1160.1	1053.8	845.2	646.5	535.1	473.1	429.9	403.7
47.5°	806.3	925.7	1030.3	1030.9	887.3	685.4	545.4	463.1	410.1	376.8	357.7
50°	755.8	869.3	957.1	943.5	780.5	609.7	487.7	416.8	372.6	346.9	326.9
52.5°	699.1	809.2	885.3	846.4	690.1	536.5	436.0	376.4	339.8	317.5	299.6
55°	616.6	714.3	767.9	709.1	562.9	446.2	368.4	321.7	294.4	275.4	260.2
57.5°	535.5	616.2	649.9	581.3	463.7	370.0	311.7	276.6	249.5	235.9	228.0
60°	484.7	553.5	577.1	501.5	403.1	323.8	275.9	243.4	223.4	214.4	206.6
62.5°	434.6	490.8	500.6	431.2	351.4	283.4	242.3	214.8	201.5	193.0	185.5
65°	360.6	401.1	396.3	340.6	278.1	225.0	195.0	178.2	168.2	156.1	143.0
67.5°	296.8	321.5	306.7	264.9	212.2	174.8	155.3	142.5	130.2	118.7	115.7
70°	256.5	270.7	254.9	216.6	174.0	146.6	130.9	115.7	108.3	105.7	100.9
72.5°	217.9	222.8	205.7	172.9	141.6	121.4	106.1	97.5	93.6	91.3	88.3
75°	163.5	159.8	145.0	119.3	98.3	84.6	79.9	76.8	74.1	72.0	70.4
77.5°	114.8	109.4	96.3	79.5	68.4	61.9	59.1	57.4	56.2	55.1	53.5
80°	86.2	82.5	69.4	56.8	52.0	48.9	47.3	45.2	45.2	44.1	42.5
82.5°	63.1	58.9	47.5	41.6	39.0	37.1	36.0	34.7	34.3	34.5	33.4
85°	33.1	26.8	23.7	22.6	21.0	20.0	20.5	19.4	19.4	19.4	18.9
87.5°	10.3	8.4	8.2	7.8	8.5	8.6	8.2	8.4	9.0	8.6	9.1
90°	1.2	2.0	2.9	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5
92.5°	6.7	6.7	6.6	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2
95°	19.5	17.0	14.6	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9
97.5°	36.7	29.7	22.7	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3
100°	49.6	39.3	29.0	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5
102.5°	75.7	73.4	71.3	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4
105°	105.2	107.4	109.7	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3
107.5°	133.4	135.2	137.0	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3
110°	151.5	153.1	154.7	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.7	170.2	171.5	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6
115°	196.0	197.3	198.5	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3
117.5°	220.5	222.0	223.4	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5
120°	238.1	239.2	240.4	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0
122.5°	253.3	254.5	255.7	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2
125°	276.2	277.3	278.2	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2
127.5°	297.3	298.3	299.4	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4
130°	310.7	311.9	313.1	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3
132.5°	324.0	325.0	326.1	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8
135°	341.8	343.0	344.2	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6
137.5°	359.3	360.1	361.0	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2
140°	370.7	371.3	371.9	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9
142.5°	380.4	380.9	381.4	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8
145°	395.1	395.0	394.9	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6
147.5°	408.2	407.9	407.7	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7
150°	416.6	416.1	415.6	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1
152.5°	423.9	423.3	422.7	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9
155°	434.4	433.7	433.1	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0
157.5°	442.8	442.3	441.7	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7
160°	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2
162.5°	452.2	451.7	451.3	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4
165°	458.0	457.6	457.1	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5
167.5°	462.3	461.9	461.4	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8
170°	464.8	464.3	463.9	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9
172.5°	466.4	466.0	465.5	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5
175°	468.4	467.9	467.4	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3
177.5°	468.9	468.4	468.0	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1565.7	1571.2	1573.7	1573.7	1576.7	1575.4	1574.1
5°	1655.7	1665.7	1667.8	1677.3	1684.1	1682.0	1683.1
7.5°	1745.2	1761.3	1777.1	1784.4	1785.5	1789.7	1791.3
10°	1800.2	1813.4	1838.1	1834.4	1852.8	1863.3	1845.9
12.5°	1853.2	1871.0	1888.2	1892.8	1903.3	1906.6	1899.8
15°	1901.2	1910.7	1911.7	1909.1	1912.2	1909.6	1899.6
17.5°	1856.4	1841.0	1809.9	1795.2	1783.5	1766.3	1759.4
20°	1782.4	1737.2	1684.6	1663.6	1638.9	1590.5	1602.1
22.5°	1622.6	1571.1	1518.5	1457.1	1427.8	1382.0	1379.2
25°	1374.0	1285.2	1187.4	1119.0	1079.1	1033.4	1013.4
27.5°	1068.3	956.4	876.3	835.8	798.8	762.6	761.1
30°	867.3	783.2	721.1	686.4	663.8	648.6	651.8
32.5°	731.0	673.4	631.6	602.8	586.1	574.6	574.4
35°	597.6	558.2	531.4	519.3	507.2	498.8	499.3
37.5°	511.4	487.7	472.9	459.5	451.9	447.8	445.5
40°	467.3	447.8	436.3	428.4	422.1	416.3	415.3
42.5°	432.4	416.3	404.7	398.5	392.6	388.6	387.5
45°	383.7	370.6	360.0	353.2	350.6	346.9	346.9
47.5°	341.4	328.4	320.2	315.9	311.4	309.0	308.9
50°	312.8	302.8	295.4	292.8	289.1	287.5	287.0
52.5°	287.1	279.6	274.4	272.6	271.0	269.0	269.3
55°	252.3	248.1	246.0	244.4	241.8	238.6	240.7
57.5°	223.0	219.4	213.7	208.7	206.4	204.1	205.0
60°	202.4	195.0	187.7	181.9	180.3	175.5	175.5
62.5°	176.3	166.0	156.9	153.7	152.1	149.9	149.5
65°	135.6	131.4	129.3	127.2	126.1	126.1	125.1
67.5°	112.4	110.7	108.4	107.9	106.8	106.5	106.2
70°	99.3	97.2	96.2	95.7	94.6	95.1	93.6
72.5°	86.7	85.1	84.8	83.5	82.9	82.9	81.8
75°	68.4	68.4	67.8	67.3	66.2	65.7	66.2
77.5°	52.6	52.7	51.7	51.7	51.5	51.7	51.1
80°	42.1	42.5	42.1	41.5	41.0	41.5	41.0
82.5°	33.2	32.5	32.4	32.2	32.2	31.8	31.8
85°	18.9	19.4	18.9	18.4	18.4	18.4	18.9
87.5°	8.7	8.8	8.9	8.9	9.0	9.0	8.6
90°	7.9	8.2	8.6	8.7	8.9	9.0	9.1
92.5°	8.5	8.6	8.8	8.9	9.0	9.0	9.1
95°	14.3	14.7	14.9	14.8	14.7	14.7	14.6
97.5°	18.6	18.9	19.1	19.2	19.3	19.3	19.4
100°	21.1	21.7	22.1	22.3	22.4	22.5	22.7
102.5°	22.2	23.0	23.4	23.7	23.9	24.1	24.3
105°	23.1	24.0	24.6	24.8	25.1	25.4	25.7
107.5°	26.4	25.5	25.3	25.6	25.9	26.1	26.5
110°	36.7	29.2	25.5	25.8	26.1	26.5	26.8



TEST NUMBER: P331825-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.1	39.7	26.1	26.3	26.5	26.8	27.0
115°	104.4	69.6	49.4	44.0	38.6	33.2	27.7
117.5°	206.1	197.6	184.6	166.8	148.9	131.2	113.4
120°	250.9	251.8	247.2	237.0	226.9	216.7	206.5
122.5°	265.8	266.3	265.6	263.6	261.7	259.7	257.7
125°	287.7	288.2	288.6	288.8	289.1	289.3	289.5
127.5°	308.2	309.0	309.3	309.4	309.4	309.5	309.5
130°	321.1	321.9	322.3	322.3	322.2	322.1	322.0
132.5°	333.4	334.1	334.5	334.4	334.3	334.3	334.2
135°	351.3	352.1	352.4	352.3	352.1	352.0	351.8
137.5°	367.9	368.6	368.8	368.6	368.4	368.1	367.8
140°	378.6	379.2	379.4	379.0	378.6	378.3	377.9
142.5°	388.4	389.0	389.1	388.7	388.4	388.0	387.6
145°	402.1	402.7	402.7	402.3	402.0	401.6	401.2
147.5°	414.1	414.5	414.5	414.2	413.8	413.5	413.2
150°	421.5	422.0	422.1	421.7	421.3	420.9	420.6
152.5°	428.3	428.8	428.7	428.3	427.8	427.2	426.7
155°	437.4	437.9	437.8	437.2	436.7	436.0	435.5
157.5°	445.2	445.8	445.7	445.1	444.5	443.9	443.4
160°	449.6	450.1	450.0	449.6	449.0	448.5	448.0
162.5°	453.9	454.4	454.3	453.7	453.0	452.4	451.8
165°	459.0	459.5	459.5	459.0	458.5	458.0	457.4
167.5°	463.3	463.8	463.7	463.0	462.4	461.7	461.1
170°	465.5	466.0	465.9	465.2	464.5	463.9	463.2
172.5°	467.1	467.6	467.5	466.8	466.2	465.5	464.9
175°	468.8	469.4	469.3	468.5	467.8	467.0	466.3
177.5°	468.9	469.4	469.3	468.7	468.2	467.6	467.1
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9

(END OF REPORT)