

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: P331826-927

Luminaire Tested: **S122RDIW-S865D435U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331826-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
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-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3805.3 lumens
Efficiency: N/A
Efficacy: 82.4 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

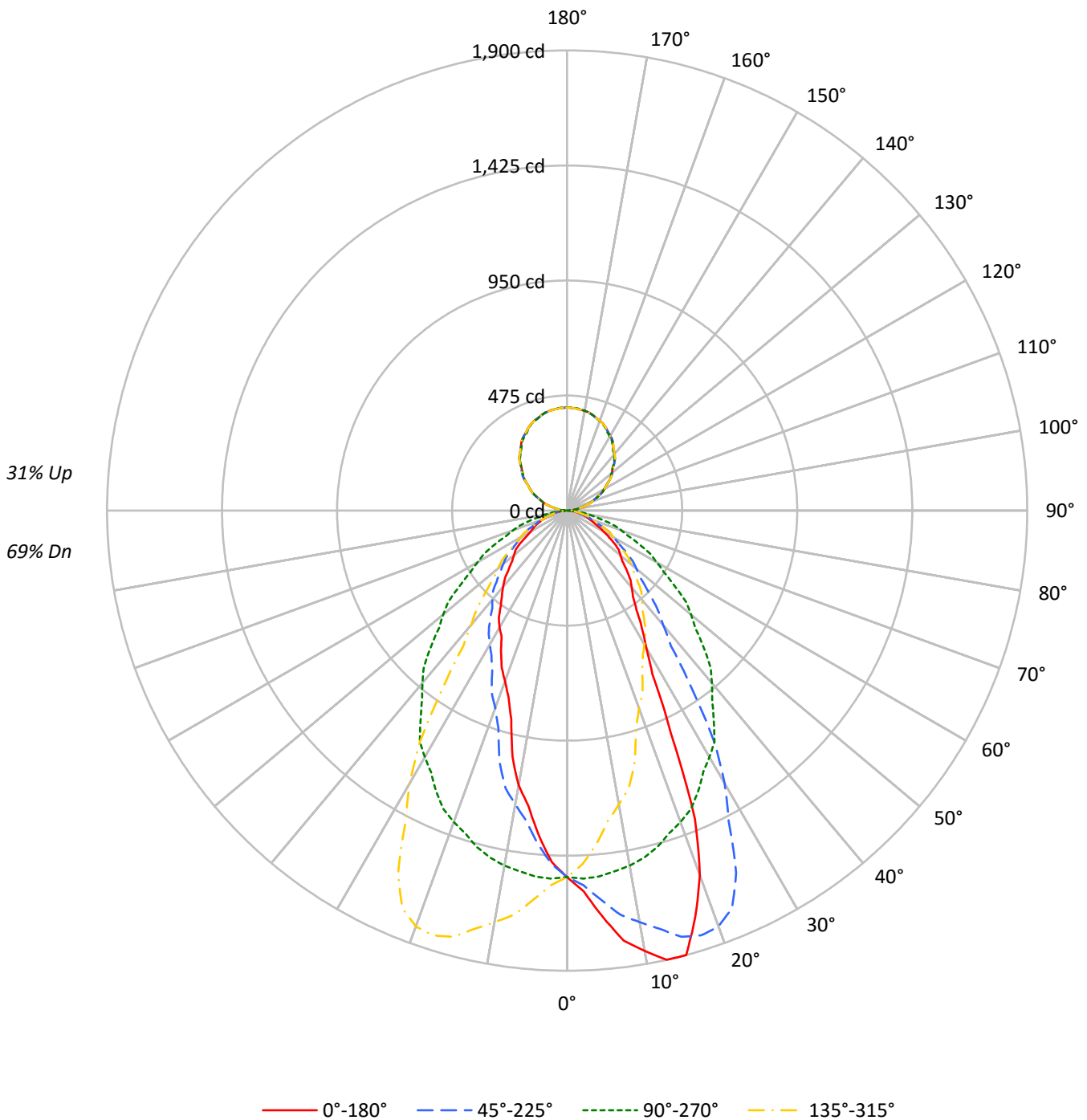
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69																				
1	103	99	95	92	97	94	91	88	84	81	79	75	73	71	66	65	64	60																				
2	95	88	82	77	89	83	78	74	75	71	68	67	64	61	60	58	56	52																				
3	87	78	71	66	82	74	68	63	67	62	58	60	57	53	54	51	49	46																				
4	81	70	63	57	76	67	60	55	61	55	51	55	50	47	49	46	43	40																				
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	41	38	36																				
6	69	58	50	44	65	55	48	43	50	44	40	46	41	37	41	38	35	32																				
7	64	53	45	39	61	50	43	38	46	40	36	42	37	34	38	34	31	29																				
8	60	48	41	35	57	46	39	34	42	37	32	39	34	30	35	32	29	26																				
9	56	44	37	32	53	43	36	31	39	34	30	36	31	28	33	29	26	24																				
10	53	41	34	29	50	40	33	29	37	31	27	34	29	26	31	27	24	22																				

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: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	399.6	10.5
20°-30°	514.9	13.5
30°-40°	489.3	12.9
40°-50°	419.2	11.0
50°-60°	319.2	8.4
60°-70°	201.8	5.3
70°-80°	100.8	2.6
80°-90°	27.9	0.7
90°-100°	27.0	0.7
100°-110°	83.7	2.2
110°-120°	143.1	3.8
120°-130°	188.1	4.9
130°-140°	211.2	5.5
140°-150°	207.1	5.4
150°-160°	173.7	4.6
160°-170°	115.2	3.0
170°-180°	40.3	1.1
0°-30°	1057.9	27.8
0°-40°	1547.2	40.7
0°-60°	2285.6	60.1
0°-90°	2616.0	68.7
90°-120°	253.7	6.7
90°-150°	860.1	22.6
90°-180°	1189.0	31.2
0°-180°	3805.3	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°	12	0	12	0	12	6
95°	22	19	22	19	22	25
105°	80	77	80	77	80	84
115°	144	144	144	144	144	142
125°	210	209	210	209	210	187
135°	274	270	274	270	274	211
145°	332	328	332	328	332	207
155°	378	375	378	375	378	174
165°	408	408	408	408	408	115
175°	423	425	423	425	423	40
180°	425	425	425	425	425	



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	9.2	9.6	9.6	9.5	9.5	9.5	9.6	10.0	9.7	10.1	9.3
90°	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3	12.4	12.6	10.8
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5	11.4	11.4	11.0
95°	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0	23.0	23.0	22.8
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.3
100°	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.3
102.5°	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4	61.4	61.3	61.0
105°	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3	79.1	79.0	78.8
107.5°	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5	98.5	98.4	98.4
110°	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6	111.6	111.6	111.6



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8	124.9	125.1	125.2
115°	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8	144.9	145.0	145.1
117.5°	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3	164.5	164.7	165.1
120°	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3	177.3	177.3	177.9
122.5°	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7	190.9	191.1	191.5
125°	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6	210.8	211.0	211.3
127.5°	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8	230.1	230.4	230.7
130°	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0	243.2	243.4	243.5
132.5°	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9	256.2	256.5	256.5
135°	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7	274.8	274.9	274.7
137.5°	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9	292.9	293.0	292.8
140°	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1	305.1	305.1	304.7
142.5°	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1	316.1	316.0	315.7
145°	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9	332.8	332.7	332.2
147.5°	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5	347.4	347.2	346.9
150°	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9	356.6	356.4	356.1
152.5°	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1	365.9	365.6	365.2
155°	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0	377.6	377.2	377.0
157.5°	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9	388.4	387.9	387.7
160°	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4	394.9	394.4	394.3
162.5°	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2	400.7	400.2	400.1
165°	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8	408.3	407.7	407.7
167.5°	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1	414.5	414.0	414.0
170°	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5	418.0	417.4	417.5
172.5°	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1	420.6	420.0	420.1
175°	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9	423.3	422.8	422.9
177.5°	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2	424.8	424.5	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	9.0	9.0	8.7	8.0	8.2	8.5	10.4	12.3	10.8	9.7	9.0
90°	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7	19.5	20.3	21.1
97.5°	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1	34.8	35.5	36.2
100°	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6	46.2	46.8	47.5
102.5°	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7	58.1	58.6	59.2
105°	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2	77.4	77.6	77.9
107.5°	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8	97.2	97.5	97.9
110°	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5	110.0	110.4	110.9



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3	123.7	124.2	124.7
115°	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5	144.0	144.5	145.0
117.5°	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8	164.5	165.1	165.7
120°	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.9	178.6	179.2
122.5°	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6	190.4	191.2	191.9
125°	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9	209.6	210.3	211.0
127.5°	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6	228.5	229.4	230.4
130°	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4	240.4	241.5	242.5
132.5°	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6	253.4	254.3	255.2
135°	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3	271.2	272.0	272.9
137.5°	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8	289.5	290.3	291.0
140°	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1	300.8	301.5	302.2
142.5°	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6	312.3	313.0	313.7
145°	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0	328.6	329.2	329.7
147.5°	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8	343.4	344.1	344.8
150°	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8	353.3	353.8	354.3
152.5°	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7	362.2	362.7	363.1
155°	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0	375.3	375.5	375.8
157.5°	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5	386.7	386.8	387.0
160°	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4	393.6	393.7	393.9
162.5°	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7	399.7	399.7	399.7
165°	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1	408.0	407.9	407.8
167.5°	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1	414.9	414.6	414.4
170°	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8	418.6	418.4	418.1
172.5°	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4	421.2	421.0	420.7
175°	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6	424.4	424.1	423.9
177.5°	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9	425.7	425.5	425.3
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	8.8	8.7	8.2	8.6	8.9	8.8	8.8	8.3	8.3	8.2	7.8
90°	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3	12.1	12.0	11.9
92.5°	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5	11.5	11.6	11.6
95°	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0	23.0	23.0	22.9
97.5°	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6	38.6	38.6	38.6
100°	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5
102.5°	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4	61.5	61.6	61.6
105°	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3	79.5	79.6	79.7
107.5°	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.6	98.7	98.5
110°	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.5



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8	124.5	124.4	124.1
115°	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8	144.7	144.7	144.5
117.5°	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3	164.1	163.9	163.7
120°	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3	177.3	177.3	177.2
122.5°	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7	190.5	190.3	190.1
125°	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6	210.3	210.1	209.9
127.5°	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8	229.6	229.3	229.0
130°	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0	242.9	242.7	242.5
132.5°	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9	255.5	255.2	254.8
135°	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7	274.6	274.6	274.4
137.5°	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9	292.8	292.8	292.6
140°	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1	305.1	305.1	304.9
142.5°	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1	316.2	316.2	316.1
145°	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9	333.0	333.0	332.9
147.5°	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5	347.8	347.9	347.8
150°	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9	357.1	357.4	357.4
152.5°	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1	366.5	366.8	366.8
155°	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0	378.4	378.8	378.9
157.5°	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9	389.4	390.0	390.1
160°	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4	395.9	396.3	396.4
162.5°	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2	401.8	402.3	402.4
165°	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8	409.4	410.0	410.0
167.5°	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1	415.7	416.2	416.3
170°	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5	419.1	419.6	419.7
172.5°	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1	421.7	422.2	422.2
175°	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9	424.5	425.0	425.1
177.5°	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2	425.6	426.0	426.0
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	7.8	7.4	7.9	7.5	7.9	7.4	7.8	7.8	8.2	8.3	8.3
90°	12.0	12.0	12.1	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5
95°	22.7	22.6	22.4	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.4	49.4	49.3	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5
102.5°	61.5	61.4	61.3	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4
105°	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3
107.5°	98.2	97.8	97.4	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5
110°	111.2	111.0	110.7	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	124.0	123.8	123.7	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8
115°	144.3	144.0	143.8	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8
117.5°	163.4	163.2	163.0	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3
120°	177.0	176.7	176.5	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3
122.5°	190.0	189.8	189.6	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7
125°	209.8	209.8	209.7	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6
127.5°	228.7	228.5	228.2	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8
130°	242.2	241.9	241.5	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0
132.5°	254.6	254.3	254.1	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9
135°	274.2	273.9	273.7	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7
137.5°	292.2	291.9	291.6	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9
140°	304.6	304.3	304.0	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1
142.5°	315.8	315.4	315.1	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1
145°	332.6	332.2	331.9	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9
147.5°	347.5	347.2	346.9	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5
150°	357.1	356.9	356.6	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9
152.5°	366.5	366.1	365.9	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1
155°	378.7	378.4	378.2	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0
157.5°	389.7	389.3	389.0	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9
160°	396.1	395.8	395.5	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4
162.5°	402.0	401.6	401.2	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2
165°	409.6	409.2	408.8	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8
167.5°	415.8	415.4	415.0	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1
170°	419.2	418.7	418.3	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5
172.5°	421.8	421.3	420.8	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1
175°	424.6	424.1	423.7	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9
177.5°	425.6	425.2	424.8	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	8.8	8.8	8.9	8.6	8.2	8.7	8.8	9.0	9.7	10.8	12.3
90°	12.4	12.6	10.8	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4
92.5°	11.4	11.4	11.0	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	23.0	23.0	22.8	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7
97.5°	38.6	38.6	38.3	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1
100°	49.5	49.5	49.3	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6
102.5°	61.4	61.3	61.0	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7
105°	79.1	79.0	78.8	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2
107.5°	98.5	98.4	98.4	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8
110°	111.6	111.6	111.6	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.9	125.1	125.2	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3
115°	144.9	145.0	145.1	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5
117.5°	164.5	164.7	165.1	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8
120°	177.3	177.3	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3
122.5°	190.9	191.1	191.5	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6
125°	210.8	211.0	211.3	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9
127.5°	230.1	230.4	230.7	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6
130°	243.2	243.4	243.5	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4
132.5°	256.2	256.5	256.5	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6
135°	274.8	274.9	274.7	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3
137.5°	292.9	293.0	292.8	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8
140°	305.1	305.1	304.7	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1
142.5°	316.1	316.0	315.7	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6
145°	332.8	332.7	332.2	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0
147.5°	347.4	347.2	346.9	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8
150°	356.6	356.4	356.1	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8
152.5°	365.9	365.6	365.2	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7
155°	377.6	377.2	377.0	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0
157.5°	388.4	387.9	387.7	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5
160°	394.9	394.4	394.3	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4
162.5°	400.7	400.2	400.1	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7
165°	408.3	407.7	407.7	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1
167.5°	414.5	414.0	414.0	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1
170°	418.0	417.4	417.5	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8
172.5°	420.6	420.0	420.1	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4
175°	423.3	422.8	422.9	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6
177.5°	424.8	424.5	424.5	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	10.4	8.5	8.2	8.0	8.7	9.0	9.0	9.3	10.1	9.7	10.0
90°	1.3	2.3	3.2	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5
95°	19.5	20.3	21.1	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0
97.5°	34.8	35.5	36.2	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6
100°	46.2	46.8	47.5	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5
102.5°	58.1	58.6	59.2	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4
105°	77.4	77.6	77.9	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3
107.5°	97.2	97.5	97.9	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5
110°	110.0	110.4	110.9	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.7	124.2	124.7	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8
115°	144.0	144.5	145.0	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8
117.5°	164.5	165.1	165.7	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3
120°	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3
122.5°	190.4	191.2	191.9	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7
125°	209.6	210.3	211.0	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6
127.5°	228.5	229.4	230.4	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8
130°	240.4	241.5	242.5	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0
132.5°	253.4	254.3	255.2	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9
135°	271.2	272.0	272.9	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7
137.5°	289.5	290.3	291.0	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9
140°	300.8	301.5	302.2	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1
142.5°	312.3	313.0	313.7	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1
145°	328.6	329.2	329.7	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9
147.5°	343.4	344.1	344.8	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5
150°	353.3	353.8	354.3	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9
152.5°	362.2	362.7	363.1	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1
155°	375.3	375.5	375.8	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0
157.5°	386.7	386.8	387.0	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9
160°	393.6	393.7	393.9	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4
162.5°	399.7	399.7	399.7	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2
165°	408.0	407.9	407.8	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8
167.5°	414.9	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1
170°	418.6	418.4	418.1	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5
172.5°	421.2	421.0	420.7	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1
175°	424.4	424.1	423.9	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9
177.5°	425.7	425.5	425.3	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

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°	9.6	9.5	9.5	9.5	9.6	9.6	9.2
90°	12.1	12.0	11.9	12.0	12.0	12.1	12.2
92.5°	11.5	11.6	11.6	11.6	11.6	11.6	11.6
95°	23.0	23.0	22.9	22.7	22.6	22.4	22.3
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.5	49.5	49.5	49.4	49.4	49.3	49.2
102.5°	61.5	61.6	61.6	61.5	61.4	61.3	61.2
105°	79.5	79.6	79.7	79.7	79.7	79.7	79.7
107.5°	98.6	98.7	98.5	98.2	97.8	97.4	97.0
110°	111.6	111.6	111.5	111.2	111.0	110.7	110.5



TEST NUMBER: P331826-927

CATALOG NUMBER: S122RDIW-S865D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	124.5	124.4	124.1	124.0	123.8	123.7	123.5
115°	144.7	144.7	144.5	144.3	144.0	143.8	143.5
117.5°	164.1	163.9	163.7	163.4	163.2	163.0	162.7
120°	177.3	177.3	177.2	177.0	176.7	176.5	176.3
122.5°	190.5	190.3	190.1	190.0	189.8	189.6	189.4
125°	210.3	210.1	209.9	209.8	209.8	209.7	209.6
127.5°	229.6	229.3	229.0	228.7	228.5	228.2	228.0
130°	242.9	242.7	242.5	242.2	241.9	241.5	241.2
132.5°	255.5	255.2	254.8	254.6	254.3	254.1	253.8
135°	274.6	274.6	274.4	274.2	273.9	273.7	273.5
137.5°	292.8	292.8	292.6	292.2	291.9	291.6	291.3
140°	305.1	305.1	304.9	304.6	304.3	304.0	303.6
142.5°	316.2	316.2	316.1	315.8	315.4	315.1	314.8
145°	333.0	333.0	332.9	332.6	332.2	331.9	331.6
147.5°	347.8	347.9	347.8	347.5	347.2	346.9	346.7
150°	357.1	357.4	357.4	357.1	356.9	356.6	356.4
152.5°	366.5	366.8	366.8	366.5	366.1	365.9	365.6
155°	378.4	378.8	378.9	378.7	378.4	378.2	378.0
157.5°	389.4	390.0	390.1	389.7	389.3	389.0	388.6
160°	395.9	396.3	396.4	396.1	395.8	395.5	395.1
162.5°	401.8	402.3	402.4	402.0	401.6	401.2	400.9
165°	409.4	410.0	410.0	409.6	409.2	408.8	408.4
167.5°	415.7	416.2	416.3	415.8	415.4	415.0	414.6
170°	419.1	419.6	419.7	419.2	418.7	418.3	417.8
172.5°	421.7	422.2	422.2	421.8	421.3	420.8	420.3
175°	424.5	425.0	425.1	424.6	424.1	423.7	423.2
177.5°	425.6	426.0	426.0	425.6	425.2	424.8	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3

(END OF REPORT)