

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: P331525

Luminaire Tested: **S122DIW-S675D435U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331525
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: S122DIW-S675D435U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4662.9 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

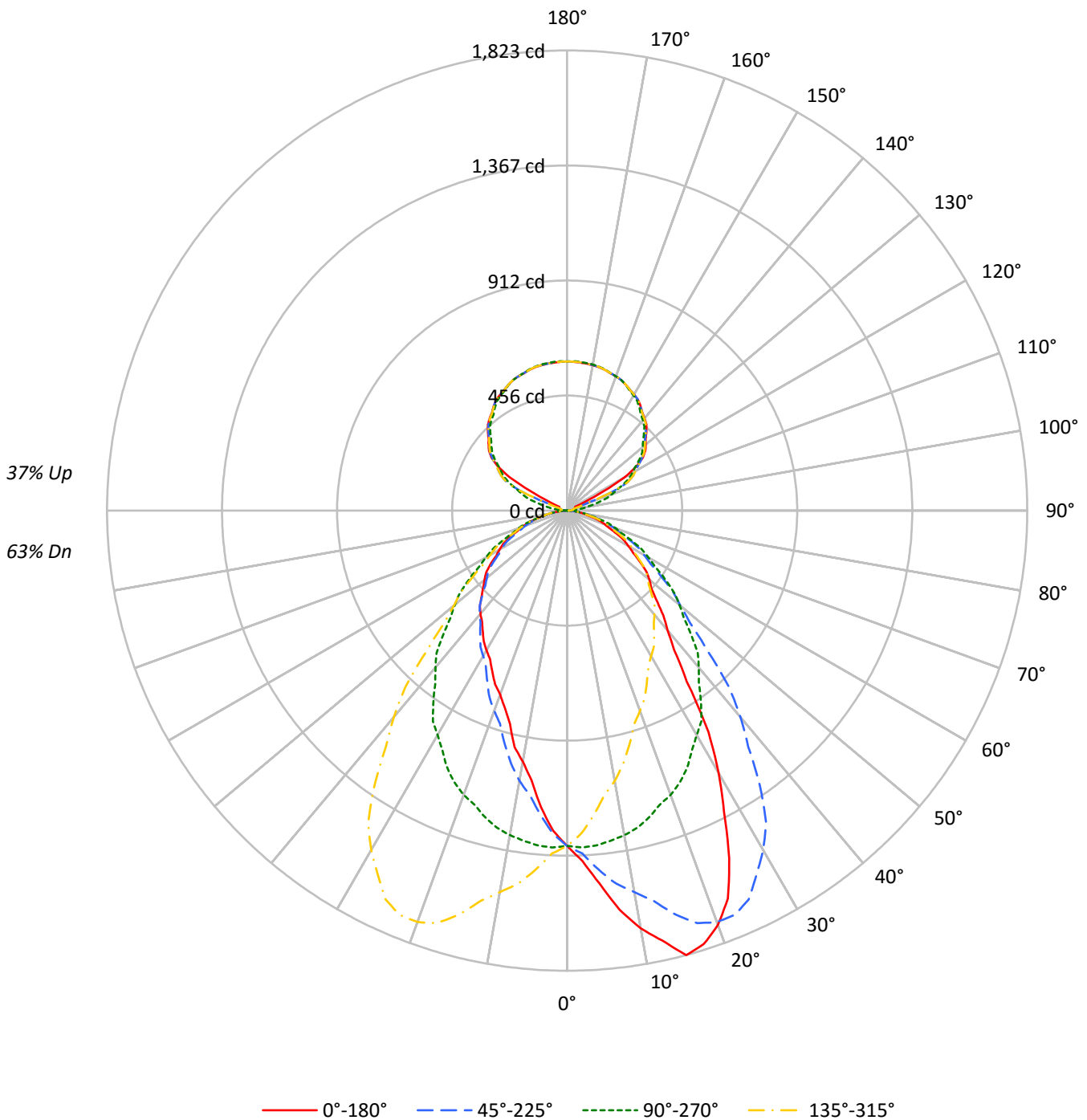
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	69	67	61	60	59	54
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	68	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34	31
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24
8	58	45	38	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21447	21447	21447	21447
5°	24044	21585	19128	21585
10°	27552	21408	16554	21408
15°	30479	21016	14626	21016
20°	30015	20594	13332	20594
25°	27064	20035	12513	20035
30°	22365	19140	11915	19140
35°	16301	18203	11491	18203
40°	13019	17098	11255	17098
45°	11376	15817	10933	15817
50°	10693	14579	10721	14579
55°	9858	13320	10432	13320
60°	9032	11983	9991	11983
65°	8229	10785	9555	10785
70°	7468	9616	8917	9616
75°	6625	8309	7898	8309
80°	5700	6881	6360	6881
85°	5113	5113	3779	5113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.7
10°-20°	367.8	7.9
20°-30°	533.7	11.4
30°-40°	563.2	12.1
40°-50°	498.7	10.7
50°-60°	398.0	8.5
60°-70°	270.5	5.8
70°-80°	138.7	3.0
80°-90°	34.9	0.7
90°-100°	19.7	0.4
100°-110°	72.3	1.5
110°-120°	193.1	4.1
120°-130°	318.8	6.8
130°-140°	339.1	7.3
140°-150°	315.2	6.8
150°-160°	253.4	5.4
160°-170°	163.3	3.5
170°-180°	56.2	1.2
0°-30°	1028.0	22.0
0°-40°	1591.2	34.1
0°-60°	2487.8	53.4
0°-90°	2931.9	62.9
90°-120°	285.1	6.1
90°-150°	1258.2	27.0
90°-180°	1731.0	37.1
0°-180°	4662.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1328	1328	1328	1328	1328	
5°	1484	1332	1180	1332	1484	148
15°	1823	1257	875	1257	1823	503
25°	1519	1125	702	1125	1519	687
35°	827	924	583	924	827	538
45°	498	693	479	693	498	392
55°	350	473	371	473	350	314
65°	215	282	250	282	215	214
75°	106	133	127	133	106	113
85°	28	28	20	28	28	30
90°	12	0	12	0	12	6
95°	18	28	18	28	18	17
105°	32	130	32	130	32	34
115°	35	246	35	246	35	88
125°	365	348	365	348	365	316
135°	444	430	444	430	444	342
145°	506	499	506	499	506	317
155°	550	549	550	549	550	254
165°	577	579	577	579	577	163
175°	589	592	589	592	589	56
180°	591	591	591	591	591	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1389.5	1389.9	1390.8	1384.2	1383.4	1383.4	1377.7	1372.8	1367.1	1359.3	1360.1
5°	1483.5	1489.1	1491.1	1485.0	1475.8	1474.8	1466.1	1451.8	1438.5	1427.8	1420.2
7.5°	1595.6	1597.8	1592.8	1584.7	1577.9	1565.7	1549.5	1533.7	1511.5	1491.2	1476.1
10°	1680.5	1683.6	1674.9	1663.2	1653.5	1639.2	1615.7	1591.7	1562.6	1534.5	1512.0
12.5°	1745.0	1752.6	1741.5	1739.9	1723.3	1703.7	1675.7	1663.6	1622.6	1583.5	1559.4
15°	1823.4	1822.9	1824.0	1814.3	1802.0	1798.9	1769.3	1737.2	1679.5	1656.5	1616.7
17.5°	1800.8	1808.5	1812.1	1812.0	1811.7	1809.8	1800.3	1780.0	1751.1	1713.8	1667.8
20°	1746.9	1757.1	1758.6	1770.4	1777.0	1785.7	1789.2	1783.6	1765.8	1734.6	1694.8
22.5°	1663.6	1666.4	1671.2	1689.5	1703.9	1725.6	1737.0	1755.9	1749.0	1733.8	1700.5
25°	1519.2	1514.1	1532.0	1541.1	1574.3	1609.0	1634.1	1661.6	1686.1	1700.9	1691.2
27.5°	1345.8	1338.2	1364.9	1389.3	1416.3	1453.9	1492.9	1538.9	1577.2	1625.1	1641.5
30°	1199.6	1204.2	1229.8	1255.8	1296.6	1349.7	1393.6	1444.2	1498.8	1552.4	1589.6
32.5°	1042.0	1059.7	1075.8	1115.7	1151.6	1210.9	1275.2	1338.4	1406.5	1467.4	1525.1
35°	827.0	847.4	869.9	899.0	949.5	1008.2	1071.0	1156.2	1249.2	1332.4	1400.8
37.5°	696.1	692.8	705.7	726.7	767.7	815.0	887.3	971.6	1080.9	1178.7	1275.2
40°	617.7	615.6	624.8	644.2	675.4	710.1	773.4	847.4	949.0	1068.4	1183.3
42.5°	563.8	565.0	570.1	583.8	605.1	633.7	681.1	744.1	837.1	949.6	1073.0
45°	498.2	501.8	507.4	514.1	526.3	549.8	576.3	621.3	694.8	788.7	910.2
47.5°	451.1	451.2	456.9	462.7	470.0	483.2	504.9	533.0	584.9	661.4	765.8
50°	425.7	422.2	426.3	430.8	438.5	447.7	462.0	488.5	523.2	585.0	672.3
52.5°	394.7	394.8	398.5	400.2	407.1	416.2	429.3	447.7	479.1	527.4	599.2
55°	350.2	352.7	354.8	357.8	364.0	370.6	380.8	393.1	417.6	453.8	506.9
57.5°	308.3	309.1	311.2	317.0	320.9	327.0	336.7	347.8	363.8	390.6	430.5
60°	279.7	279.7	283.8	286.4	291.5	297.6	305.3	316.0	330.3	352.2	384.4
62.5°	253.6	253.2	254.8	259.0	262.9	268.6	276.3	285.4	298.8	318.3	344.8
65°	215.4	214.4	217.5	218.5	222.6	228.2	234.3	244.0	254.7	269.0	292.5
67.5°	178.7	179.9	181.5	183.5	185.7	191.6	195.7	202.6	211.6	223.5	239.4
70°	158.2	158.2	158.2	159.8	162.8	165.9	170.0	175.6	184.3	194.5	208.8
72.5°	135.4	137.0	138.6	137.7	141.6	143.4	148.3	151.5	159.8	166.3	179.0
75°	106.2	106.2	106.2	108.7	110.3	111.8	114.9	117.9	122.0	130.2	136.8
77.5°	79.2	79.0	79.5	80.1	81.8	83.6	84.5	87.3	91.1	94.8	100.5
80°	61.3	62.3	62.8	63.8	63.8	64.8	65.3	68.9	71.5	74.0	77.6
82.5°	47.4	47.6	47.7	47.9	48.3	48.9	50.2	51.4	52.3	54.4	57.2
85°	27.6	27.1	27.1	28.1	27.6	27.6	28.6	29.6	29.6	30.1	31.6
87.5°	12.9	12.9	13.3	12.8	12.8	13.1	13.0	12.5	12.8	13.1	13.4
90°	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5	9.0	8.5	7.8
92.5°	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4	10.2	9.9	9.5
95°	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6	17.1	16.7	16.0
97.5°	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1	22.7	22.3	20.8
100°	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9	25.1	24.4	22.7
102.5°	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0	26.0	25.0	38.6
105°	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2	27.1	26.1	52.0
107.5°	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4	35.4	36.5	67.6
110°	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8	65.3	74.8	102.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4	154.0	188.7	195.4
115°	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8	219.7	263.7	261.3
117.5°	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8	281.5	292.1	290.5
120°	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6	314.4	313.3	311.6
122.5°	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8	334.2	333.5	331.6
125°	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5	361.8	361.2	359.4
127.5°	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1	387.1	386.1	384.8
130°	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3	403.2	402.2	401.2
132.5°	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1	419.2	418.3	417.2
135°	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6	441.6	440.7	439.8
137.5°	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5	462.5	461.6	460.6
140°	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0	476.1	475.3	474.2
142.5°	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5	488.7	487.9	486.7
145°	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0	506.3	505.6	504.0
147.5°	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2	521.7	521.2	519.6
150°	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6	531.0	530.4	528.9
152.5°	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1	539.5	539.0	537.5
155°	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7	551.1	550.5	549.4
157.5°	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4	560.7	560.1	559.3
160°	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0	566.5	565.9	565.3
162.5°	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3	571.7	571.0	570.5
165°	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8	578.1	577.4	577.2
167.5°	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2	583.5	582.8	582.6
170°	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9	586.2	585.6	585.4
172.5°	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9	588.3	587.6	587.4
175°	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2	590.5	589.8	589.6
177.5°	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4	590.9	590.3	590.3
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1363.0	1359.7	1357.7	1350.3	1343.8	1337.3	1335.2	1336.0	1327.1	1318.5	1314.8
5°	1416.1	1405.9	1396.2	1382.4	1366.1	1348.2	1339.0	1331.8	1314.0	1294.6	1283.4
7.5°	1463.7	1449.1	1430.4	1404.4	1380.7	1352.6	1334.7	1318.9	1292.7	1265.4	1248.6
10°	1492.7	1472.7	1448.7	1417.1	1388.0	1353.8	1329.8	1305.8	1275.2	1242.5	1222.1
12.5°	1517.6	1490.7	1467.1	1426.5	1392.1	1349.3	1320.8	1287.0	1254.8	1216.0	1196.0
15°	1576.9	1527.4	1482.4	1436.5	1394.1	1334.4	1302.8	1257.3	1214.9	1167.0	1144.0
17.5°	1622.7	1567.1	1496.3	1437.9	1388.5	1322.4	1275.9	1221.5	1171.4	1116.5	1085.3
20°	1648.9	1585.0	1509.0	1439.6	1380.3	1304.8	1254.3	1198.6	1139.9	1078.1	1044.4
22.5°	1664.4	1597.3	1522.1	1433.4	1364.0	1290.5	1226.9	1165.9	1106.4	1039.8	1004.4
25°	1669.3	1608.0	1528.4	1428.3	1343.6	1260.4	1183.8	1124.6	1052.6	990.3	938.8
27.5°	1645.0	1601.1	1524.5	1418.7	1320.0	1222.7	1137.4	1070.3	994.3	926.7	874.9
30°	1615.2	1589.6	1515.1	1408.9	1301.2	1196.6	1102.6	1026.6	951.0	882.6	829.5
32.5°	1569.0	1563.5	1498.0	1395.0	1281.2	1163.5	1066.3	989.4	905.7	838.5	787.9
35°	1478.4	1502.9	1461.5	1364.0	1243.5	1116.4	1011.3	923.5	836.7	772.4	724.9
37.5°	1356.9	1417.7	1406.9	1318.6	1192.7	1065.2	949.1	857.3	774.6	709.7	663.1
40°	1273.1	1350.7	1362.0	1283.9	1156.8	1025.6	902.5	811.2	730.5	671.3	624.3
42.5°	1183.3	1274.0	1304.8	1242.2	1117.5	983.9	860.9	766.2	686.4	628.8	587.2
45°	1032.7	1152.7	1208.3	1172.6	1052.1	915.3	788.7	692.7	620.2	566.1	534.0
47.5°	891.9	1023.0	1097.8	1085.2	979.3	843.8	718.7	626.6	556.0	512.8	484.0
50°	792.3	927.0	1017.4	1021.5	927.0	792.8	667.2	580.4	515.6	475.3	451.8
52.5°	705.7	834.3	932.9	954.5	868.6	739.7	621.1	534.7	477.6	440.5	419.5
55°	592.7	701.4	810.6	850.5	781.5	659.0	549.3	473.2	419.6	394.1	375.7
57.5°	492.7	583.4	684.3	728.3	685.8	580.9	478.0	412.0	368.5	346.1	332.0
60°	440.0	511.5	601.3	653.9	617.2	523.8	433.9	371.1	335.4	315.5	302.2
62.5°	391.0	454.3	530.3	578.4	558.4	470.3	389.8	334.4	303.5	284.8	275.3
65°	322.6	372.7	431.4	475.8	462.5	395.6	329.8	282.3	257.8	243.0	235.3
67.5°	265.7	301.8	342.5	381.4	370.7	323.3	270.5	233.5	215.2	202.5	197.9
70°	229.7	257.3	293.5	324.7	316.0	277.2	235.3	203.7	187.9	177.1	172.5
72.5°	195.4	218.1	245.7	271.2	265.3	233.1	198.2	174.3	162.1	152.2	148.4
75°	147.5	164.9	181.7	198.6	197.0	172.0	151.6	133.2	123.5	115.9	114.3
77.5°	108.9	118.6	130.1	140.1	137.3	123.0	107.0	96.5	89.3	84.2	83.4
80°	83.2	88.8	97.0	104.1	100.6	94.4	81.7	74.0	68.9	63.8	61.8
82.5°	60.3	66.0	70.9	74.7	72.0	66.3	58.4	53.2	50.1	46.7	45.8
85°	31.6	34.7	36.8	37.8	36.8	33.2	29.6	27.6	25.0	23.5	23.0
87.5°	13.7	13.5	13.4	14.0	12.6	12.3	10.5	9.1	8.9	8.7	8.1
90°	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8	24.6	21.5	18.4
97.5°	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1	46.3	37.5	28.6
100°	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7	62.6	49.6	36.6
102.5°	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2	95.5	92.7	90.0
105°	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9	132.8	135.6	138.5
107.5°	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1	168.4	170.7	173.0
110°	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3	191.3	193.3	195.3



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2	213.0	214.8	216.5
115°	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8	247.4	249.0	250.6
117.5°	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6	278.4	280.2	282.0
120°	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2	300.6	302.0	303.5
122.5°	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3	319.8	321.3	322.8
125°	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5	348.7	350.0	351.2
127.5°	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9	375.3	376.6	378.0
130°	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7	392.2	393.7	395.2
132.5°	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8	409.0	410.3	411.6
135°	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0	431.5	433.0	434.5
137.5°	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5	453.5	454.6	455.7
140°	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2	467.9	468.7	469.4
142.5°	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5	480.2	480.8	481.5
145°	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8	498.7	498.6	498.5
147.5°	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6	515.3	514.9	514.6
150°	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6	525.9	525.2	524.6
152.5°	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8	535.1	534.3	533.6
155°	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2	548.4	547.5	546.7
157.5°	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7	559.0	558.3	557.6
160°	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	565.3	564.8	564.2
162.5°	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4	570.8	570.2	569.7
165°	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7	578.2	577.6	577.0
167.5°	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2	583.6	583.1	582.5
170°	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3	586.7	586.1	585.6
172.5°	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3	588.8	588.2	587.6
175°	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0	591.3	590.6	590.0
177.5°	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4	591.9	591.3	590.8
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1310.7	1308.3	1299.7	1295.2	1287.8	1280.9	1276.4	1278.5	1280.1	1279.3	1278.0
5°	1273.1	1263.4	1248.6	1235.9	1226.7	1209.8	1202.7	1199.1	1196.1	1192.5	1188.9
7.5°	1228.4	1213.1	1191.9	1173.7	1156.5	1135.6	1123.7	1116.5	1109.2	1101.1	1094.0
10°	1196.6	1175.1	1152.7	1127.1	1106.7	1087.8	1071.0	1059.8	1049.6	1039.9	1032.7
12.5°	1163.1	1138.4	1110.6	1075.7	1053.2	1026.2	1023.6	1003.8	987.9	981.9	973.5
15°	1109.8	1075.1	1039.9	998.5	980.6	956.1	940.8	925.5	911.7	902.0	899.5
17.5°	1049.2	1004.3	969.3	939.6	910.3	885.2	871.1	858.8	847.5	834.5	832.8
20°	1003.1	964.3	926.0	900.0	869.9	844.3	827.0	814.7	805.0	797.4	790.7
22.5°	959.4	916.9	881.9	853.4	823.7	803.1	789.4	777.6	769.5	761.0	754.8
25°	889.3	856.1	817.8	785.6	761.1	747.9	736.6	726.4	721.3	715.7	708.6
27.5°	827.9	791.0	755.2	730.3	708.8	697.0	689.0	682.1	677.3	674.0	670.0
30°	784.6	747.3	719.3	694.8	676.9	665.2	660.1	656.0	650.4	648.3	646.3
32.5°	743.0	709.4	685.4	664.1	647.1	639.4	634.7	631.1	626.7	624.6	620.5
35°	684.0	656.0	632.5	620.7	607.0	600.3	596.8	591.6	587.6	585.5	585.0
37.5°	628.6	604.2	588.8	573.7	567.9	563.8	558.9	555.4	554.2	553.9	553.4
40°	592.7	572.8	559.0	546.7	544.2	538.0	534.0	530.9	530.9	531.4	530.9
42.5°	560.0	542.1	530.0	519.4	516.4	512.7	508.6	508.4	509.3	511.0	509.3
45°	510.5	497.7	489.0	483.9	478.3	474.7	474.2	475.8	476.3	476.8	478.3
47.5°	464.9	456.5	448.6	443.0	440.5	439.9	439.3	442.0	444.4	445.3	447.7
50°	438.0	428.3	421.7	418.1	416.0	415.0	416.0	419.1	421.1	423.7	425.2
52.5°	407.8	400.9	396.3	393.6	392.8	393.4	393.6	397.1	400.3	401.2	402.0
55°	366.0	360.9	359.9	355.3	357.3	356.8	359.4	361.4	364.5	367.5	368.1
57.5°	324.4	320.3	317.5	317.9	318.5	320.8	322.9	326.5	329.8	333.0	333.3
60°	296.6	294.5	293.0	293.0	294.0	297.1	299.7	303.2	305.3	307.3	308.8
62.5°	271.3	269.2	267.7	268.5	271.2	273.0	276.0	277.9	279.9	282.0	282.7
65°	231.2	230.2	231.8	232.8	233.3	235.8	239.4	240.9	243.0	244.0	247.6
67.5°	194.4	194.6	194.4	195.8	198.8	199.4	202.8	206.3	206.7	208.7	211.0
70°	169.5	170.5	171.5	172.5	175.1	176.1	178.7	180.2	182.2	183.8	185.3
72.5°	146.6	146.8	147.8	147.6	149.8	152.0	154.2	155.7	157.7	159.7	161.2
75°	112.8	112.8	113.8	114.3	116.9	119.5	118.9	120.0	122.0	124.0	125.1
77.5°	82.4	81.3	82.4	82.9	83.7	85.9	86.3	87.7	90.0	89.3	90.5
80°	62.8	61.3	62.8	63.3	63.3	65.9	65.9	66.9	68.4	66.9	68.4
82.5°	44.8	44.1	45.2	45.3	46.1	46.2	47.1	47.3	48.8	48.1	48.8
85°	22.5	22.0	22.5	22.0	22.5	23.0	23.0	22.5	22.5	23.5	22.0
87.5°	7.9	7.6	7.4	7.5	7.3	7.0	6.7	6.8	6.9	6.2	6.2
90°	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5	10.0	10.4	10.8
92.5°	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4	10.7	10.9	11.1
95°	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6	18.1	18.6	18.8
97.5°	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1	23.5	23.8	24.1
100°	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9	26.6	27.4	27.9
102.5°	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0	28.0	29.0	29.6
105°	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2	29.2	30.3	31.0
107.5°	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4	33.3	32.2	31.9
110°	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8	46.3	36.8	32.2



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4	84.7	50.1	32.9
115°	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8	131.8	87.8	62.4
117.5°	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8	260.2	249.5	233.0
120°	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6	316.7	317.9	312.0
122.5°	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8	335.5	336.2	335.3
125°	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5	363.2	363.8	364.3
127.5°	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1	389.0	390.0	390.5
130°	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3	405.3	406.4	406.9
132.5°	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1	420.9	421.8	422.2
135°	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6	443.5	444.5	444.8
137.5°	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5	464.4	465.3	465.6
140°	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0	477.9	478.7	478.9
142.5°	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5	490.3	491.1	491.2
145°	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0	507.6	508.3	508.4
147.5°	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2	522.7	523.2	523.2
150°	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6	532.1	532.7	532.8
152.5°	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1	540.7	541.3	541.2
155°	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7	552.2	552.8	552.7
157.5°	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4	562.0	562.7	562.6
160°	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0	567.6	568.2	568.1
162.5°	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3	573.0	573.6	573.5
165°	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8	579.4	580.1	580.1
167.5°	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2	584.8	585.5	585.4
170°	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9	587.6	588.2	588.1
172.5°	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9	589.6	590.3	590.2
175°	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2	591.8	592.5	592.4
177.5°	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4	591.9	592.5	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1274.0	1273.1	1273.1	1269.5	1273.1	1273.1	1274.0	1278.0	1279.3	1280.1	1278.5
5°	1181.8	1180.2	1177.7	1180.2	1177.7	1180.2	1181.8	1188.9	1192.5	1196.1	1199.1
7.5°	1090.6	1084.5	1083.6	1077.5	1083.6	1084.5	1090.6	1094.0	1101.1	1109.2	1116.5
10°	1024.0	1019.9	1019.4	1009.7	1019.4	1019.9	1024.0	1032.7	1039.9	1049.6	1059.8
12.5°	973.4	963.6	965.5	959.9	965.5	963.6	973.4	973.5	981.9	987.9	1003.8
15°	885.7	885.7	883.6	875.0	883.6	885.7	885.7	899.5	902.0	911.7	925.5
17.5°	822.7	821.7	816.8	819.2	816.8	821.7	822.7	832.8	834.5	847.5	858.8
20°	785.1	782.1	775.9	775.9	775.9	782.1	785.1	790.7	797.4	805.0	814.7
22.5°	749.6	749.4	742.9	744.9	742.9	749.4	749.6	754.8	761.0	769.5	777.6
25°	708.0	704.0	700.9	702.4	700.9	704.0	708.0	708.6	715.7	721.3	726.4
27.5°	668.6	666.4	666.2	662.0	666.2	666.4	668.6	670.0	674.0	677.3	682.1
30°	645.8	640.7	641.7	639.1	641.7	640.7	645.8	646.3	648.3	650.4	656.0
32.5°	619.6	617.8	616.8	614.6	616.8	617.8	619.6	620.5	624.6	626.7	631.1
35°	584.0	584.5	582.0	583.0	582.0	584.5	584.0	585.0	585.5	587.6	591.6
37.5°	552.9	554.5	553.3	553.6	553.3	554.5	552.9	553.4	553.9	554.2	555.4
40°	532.4	532.4	532.4	534.0	532.4	532.4	532.4	530.9	531.4	530.9	530.9
42.5°	512.8	512.0	511.2	511.1	511.2	512.0	512.8	509.3	511.0	509.3	508.4
45°	479.3	480.9	481.4	478.8	481.4	480.9	479.3	478.3	476.8	476.3	475.8
47.5°	449.0	449.2	449.0	451.3	449.0	449.2	449.0	447.7	445.3	444.4	442.0
50°	427.8	426.8	427.8	426.8	427.8	426.8	427.8	425.2	423.7	421.1	419.1
52.5°	405.3	405.5	404.9	404.7	404.9	405.5	405.3	402.0	401.2	400.3	397.1
55°	370.1	371.1	370.6	370.6	370.6	371.1	370.1	368.1	367.5	364.5	361.4
57.5°	333.7	334.6	335.3	333.0	335.3	334.6	333.7	333.3	333.0	329.8	326.5
60°	308.3	310.9	310.4	309.4	310.4	310.9	308.3	308.8	307.3	305.3	303.2
62.5°	285.1	286.0	285.9	285.7	285.9	286.0	285.1	282.7	282.0	279.9	277.9
65°	249.1	250.1	248.6	250.1	248.6	250.1	249.1	247.6	244.0	243.0	240.9
67.5°	210.4	210.7	211.9	212.6	211.9	210.7	210.4	211.0	208.7	206.7	206.3
70°	186.3	185.8	187.3	188.9	187.3	185.8	186.3	185.3	183.8	182.2	180.2
72.5°	161.0	162.1	161.6	162.7	161.6	162.1	161.0	161.2	159.7	157.7	155.7
75°	124.0	125.6	125.1	126.6	125.1	125.6	124.0	125.1	124.0	122.0	120.0
77.5°	89.6	89.8	89.6	90.5	89.6	89.8	89.6	90.5	89.3	90.0	87.7
80°	68.4	67.4	66.4	68.4	66.4	67.4	68.4	68.4	66.9	68.4	66.9
82.5°	47.6	48.2	47.2	47.2	47.2	48.2	47.6	48.8	48.1	48.8	47.3
85°	22.0	21.4	20.4	20.4	20.4	21.4	22.0	22.0	23.5	22.5	22.5
87.5°	6.3	5.9	5.9	5.6	5.9	5.9	6.3	6.2	6.2	6.9	6.8
90°	11.0	11.2	11.4	11.5	11.4	11.2	11.0	10.8	10.4	10.0	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.1	10.9	10.7	10.4
95°	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.6	18.1	17.6
97.5°	24.2	24.3	24.4	24.5	24.4	24.3	24.2	24.1	23.8	23.5	23.1
100°	28.1	28.3	28.4	28.6	28.4	28.3	28.1	27.9	27.4	26.6	25.9
102.5°	29.9	30.2	30.4	30.7	30.4	30.2	29.9	29.6	29.0	28.0	27.0
105°	31.3	31.7	32.1	32.5	32.1	31.7	31.3	31.0	30.3	29.2	28.2
107.5°	32.3	32.7	33.0	33.4	33.0	32.7	32.3	31.9	32.2	33.3	34.4
110°	32.6	33.0	33.4	33.8	33.4	33.0	32.6	32.2	36.8	46.3	55.8



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.2	33.5	33.8	34.1	33.8	33.5	33.2	32.9	50.1	84.7	119.4
115°	55.6	48.7	41.9	35.0	41.9	48.7	55.6	62.4	87.8	131.8	175.8
117.5°	210.5	188.0	165.6	143.1	165.6	188.0	210.5	233.0	249.5	260.2	270.8
120°	299.2	286.4	273.5	260.7	273.5	286.4	299.2	312.0	317.9	316.7	315.6
122.5°	332.8	330.3	327.8	325.3	327.8	330.3	332.8	335.3	336.2	335.5	334.8
125°	364.6	364.9	365.2	365.4	365.2	364.9	364.6	364.3	363.8	363.2	362.5
127.5°	390.6	390.6	390.7	390.7	390.7	390.6	390.6	390.5	390.0	389.0	388.1
130°	406.8	406.7	406.6	406.5	406.6	406.7	406.8	406.9	406.4	405.3	404.3
132.5°	422.1	422.0	422.0	421.9	422.0	422.0	422.1	422.2	421.8	420.9	420.1
135°	444.7	444.5	444.3	444.1	444.3	444.5	444.7	444.8	444.5	443.5	442.6
137.5°	465.3	465.0	464.7	464.3	464.7	465.0	465.3	465.6	465.3	464.4	463.5
140°	478.4	477.9	477.5	477.0	477.5	477.9	478.4	478.9	478.7	477.9	477.0
142.5°	490.7	490.3	489.8	489.3	489.8	490.3	490.7	491.2	491.1	490.3	489.5
145°	507.9	507.4	507.0	506.5	507.0	507.4	507.9	508.4	508.3	507.6	507.0
147.5°	522.8	522.4	522.0	521.6	522.0	522.4	522.8	523.2	523.2	522.7	522.2
150°	532.3	531.8	531.3	530.9	531.3	531.8	532.3	532.8	532.7	532.1	531.6
152.5°	540.6	540.0	539.3	538.7	539.3	540.0	540.6	541.2	541.3	540.7	540.1
155°	551.9	551.2	550.4	549.7	550.4	551.2	551.9	552.7	552.8	552.2	551.7
157.5°	561.9	561.1	560.4	559.7	560.4	561.1	561.9	562.6	562.7	562.0	561.4
160°	567.5	566.8	566.1	565.5	566.1	566.8	567.5	568.1	568.2	567.6	567.0
162.5°	572.7	571.9	571.1	570.3	571.1	571.9	572.7	573.5	573.6	573.0	572.3
165°	579.4	578.8	578.1	577.4	578.1	578.8	579.4	580.1	580.1	579.4	578.8
167.5°	584.5	583.7	582.8	582.0	582.8	583.7	584.5	585.4	585.5	584.8	584.2
170°	587.3	586.4	585.6	584.7	585.6	586.4	587.3	588.1	588.2	587.6	586.9
172.5°	589.3	588.5	587.6	586.8	587.6	588.5	589.3	590.2	590.3	589.6	588.9
175°	591.4	590.5	589.5	588.6	589.5	590.5	591.4	592.4	592.5	591.8	591.2
177.5°	591.7	591.0	590.3	589.7	590.3	591.0	591.7	592.4	592.5	591.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1276.4	1280.9	1287.8	1295.2	1299.7	1308.3	1310.7	1314.8	1318.5	1327.1	1336.0
5°	1202.7	1209.8	1226.7	1235.9	1248.6	1263.4	1273.1	1283.4	1294.6	1314.0	1331.8
7.5°	1123.7	1135.6	1156.5	1173.7	1191.9	1213.1	1228.4	1248.6	1265.4	1292.7	1318.9
10°	1071.0	1087.8	1106.7	1127.1	1152.7	1175.1	1196.6	1222.1	1242.5	1275.2	1305.8
12.5°	1023.6	1026.2	1053.2	1075.7	1110.6	1138.4	1163.1	1196.0	1216.0	1254.8	1287.0
15°	940.8	956.1	980.6	998.5	1039.9	1075.1	1109.8	1144.0	1167.0	1214.9	1257.3
17.5°	871.1	885.2	910.3	939.6	969.3	1004.3	1049.2	1085.3	1116.5	1171.4	1221.5
20°	827.0	844.3	869.9	900.0	926.0	964.3	1003.1	1044.4	1078.1	1139.9	1198.6
22.5°	789.4	803.1	823.7	853.4	881.9	916.9	959.4	1004.4	1039.8	1106.4	1165.9
25°	736.6	747.9	761.1	785.6	817.8	856.1	889.3	938.8	990.3	1052.6	1124.6
27.5°	689.0	697.0	708.8	730.3	755.2	791.0	827.9	874.9	926.7	994.3	1070.3
30°	660.1	665.2	676.9	694.8	719.3	747.3	784.6	829.5	882.6	951.0	1026.6
32.5°	634.7	639.4	647.1	664.1	685.4	709.4	743.0	787.9	838.5	905.7	989.4
35°	596.8	600.3	607.0	620.7	632.5	656.0	684.0	724.9	772.4	836.7	923.5
37.5°	558.9	563.8	567.9	573.7	588.8	604.2	628.6	663.1	709.7	774.6	857.3
40°	534.0	538.0	544.2	546.7	559.0	572.8	592.7	624.3	671.3	730.5	811.2
42.5°	508.6	512.7	516.4	519.4	530.0	542.1	560.0	587.2	628.8	686.4	766.2
45°	474.2	474.7	478.3	483.9	489.0	497.7	510.5	534.0	566.1	620.2	692.7
47.5°	439.3	439.9	440.5	443.0	448.6	456.5	464.9	484.0	512.8	556.0	626.6
50°	416.0	415.0	416.0	418.1	421.7	428.3	438.0	451.8	475.3	515.6	580.4
52.5°	393.6	393.4	392.8	393.6	396.3	400.9	407.8	419.5	440.5	477.6	534.7
55°	359.4	356.8	357.3	355.3	359.9	360.9	366.0	375.7	394.1	419.6	473.2
57.5°	322.9	320.8	318.5	317.9	317.5	320.3	324.4	332.0	346.1	368.5	412.0
60°	299.7	297.1	294.0	293.0	293.0	294.5	296.6	302.2	315.5	335.4	371.1
62.5°	276.0	273.0	271.2	268.5	267.7	269.2	271.3	275.3	284.8	303.5	334.4
65°	239.4	235.8	233.3	232.8	231.8	230.2	231.2	235.3	243.0	257.8	282.3
67.5°	202.8	199.4	198.8	195.8	194.4	194.6	194.4	197.9	202.5	215.2	233.5
70°	178.7	176.1	175.1	172.5	171.5	170.5	169.5	172.5	177.1	187.9	203.7
72.5°	154.2	152.0	149.8	147.6	147.8	146.8	146.6	148.4	152.2	162.1	174.3
75°	118.9	119.5	116.9	114.3	113.8	112.8	112.8	114.3	115.9	123.5	133.2
77.5°	86.3	85.9	83.7	82.9	82.4	81.3	82.4	83.4	84.2	89.3	96.5
80°	65.9	65.9	63.3	63.3	62.8	61.3	62.8	61.8	63.8	68.9	74.0
82.5°	47.1	46.2	46.1	45.3	45.2	44.1	44.8	45.8	46.7	50.1	53.2
85°	23.0	23.0	22.5	22.0	22.5	22.0	22.5	23.0	23.5	25.0	27.6
87.5°	6.7	7.0	7.3	7.5	7.4	7.6	7.9	8.1	8.7	8.9	9.1
90°	9.0	8.5	7.8	7.0	6.3	5.5	4.6	3.6	2.5	1.5	0.4
92.5°	10.2	9.9	9.5	9.2	8.8	8.4	8.3	8.3	8.4	8.5	8.6
95°	17.1	16.7	16.0	15.3	14.7	14.0	15.2	18.4	21.5	24.6	27.8
97.5°	22.7	22.3	20.8	19.2	17.7	16.2	19.8	28.6	37.5	46.3	55.1
100°	25.1	24.4	22.7	21.1	19.5	17.9	23.6	36.6	49.6	62.6	75.7
102.5°	26.0	25.0	38.6	52.1	65.6	79.1	87.2	90.0	92.7	95.5	98.2
105°	27.1	26.1	52.0	77.9	103.9	129.8	141.3	138.5	135.6	132.8	129.9
107.5°	35.4	36.5	67.6	98.7	129.8	160.9	175.3	173.0	170.7	168.4	166.1
110°	65.3	74.8	102.2	129.7	157.1	184.6	197.3	195.3	193.3	191.3	189.3



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.0	188.7	195.4	202.2	209.0	215.8	218.3	216.5	214.8	213.0	211.2
115°	219.7	263.7	261.3	259.0	256.6	254.2	252.2	250.6	249.0	247.4	245.8
117.5°	281.5	292.1	290.5	288.8	287.2	285.6	283.8	282.0	280.2	278.4	276.6
120°	314.4	313.3	311.6	309.9	308.2	306.5	304.9	303.5	302.0	300.6	299.2
122.5°	334.2	333.5	331.6	329.7	327.9	326.0	324.3	322.8	321.3	319.8	318.3
125°	361.8	361.2	359.4	357.6	355.8	353.9	352.4	351.2	350.0	348.7	347.5
127.5°	387.1	386.1	384.8	383.4	382.1	380.7	379.4	378.0	376.6	375.3	373.9
130°	403.2	402.2	401.2	400.1	399.1	398.0	396.7	395.2	393.7	392.2	390.7
132.5°	419.2	418.3	417.2	416.2	415.1	414.1	412.9	411.6	410.3	409.0	407.8
135°	441.6	440.7	439.8	439.0	438.1	437.2	436.1	434.5	433.0	431.5	430.0
137.5°	462.5	461.6	460.6	459.7	458.7	457.7	456.7	455.7	454.6	453.5	452.5
140°	476.1	475.3	474.2	473.2	472.2	471.1	470.2	469.4	468.7	467.9	467.2
142.5°	488.7	487.9	486.7	485.5	484.3	483.2	482.2	481.5	480.8	480.2	479.5
145°	506.3	505.6	504.0	502.4	500.8	499.2	498.4	498.5	498.6	498.7	498.8
147.5°	521.7	521.2	519.6	518.0	516.4	514.8	514.2	514.6	514.9	515.3	515.6
150°	531.0	530.4	528.9	527.4	525.9	524.3	523.9	524.6	525.2	525.9	526.6
152.5°	539.5	539.0	537.5	536.1	534.6	533.2	532.8	533.6	534.3	535.1	535.8
155°	551.1	550.5	549.4	548.2	547.1	546.0	545.8	546.7	547.5	548.4	549.2
157.5°	560.7	560.1	559.3	558.5	557.7	556.9	556.9	557.6	558.3	559.0	559.7
160°	566.5	565.9	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9
162.5°	571.7	571.0	570.5	570.0	569.5	569.1	569.1	569.7	570.2	570.8	571.4
165°	578.1	577.4	577.2	576.9	576.6	576.3	576.4	577.0	577.6	578.2	578.7
167.5°	583.5	582.8	582.6	582.3	582.0	581.8	581.9	582.5	583.1	583.6	584.2
170°	586.2	585.6	585.4	585.2	585.0	584.8	585.0	585.6	586.1	586.7	587.3
172.5°	588.3	587.6	587.4	587.2	587.0	586.9	587.0	587.6	588.2	588.8	589.3
175°	590.5	589.8	589.6	589.5	589.3	589.1	589.3	590.0	590.6	591.3	592.0
177.5°	590.9	590.3	590.3	590.2	590.1	590.0	590.3	590.8	591.3	591.9	592.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



TEST NUMBER: P331525

CATALOG NUMBER: S122DIW-S675D435U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1335.2	1337.3	1343.8	1350.3	1357.7	1359.7	1363.0	1360.1	1359.3	1367.1	1372.8
5°	1339.0	1348.2	1366.1	1382.4	1396.2	1405.9	1416.1	1420.2	1427.8	1438.5	1451.8
7.5°	1334.7	1352.6	1380.7	1404.4	1430.4	1449.1	1463.7	1476.1	1491.2	1511.5	1533.7
10°	1329.8	1353.8	1388.0	1417.1	1448.7	1472.7	1492.7	1512.0	1534.5	1562.6	1591.7
12.5°	1320.8	1349.3	1392.1	1426.5	1467.1	1490.7	1517.6	1559.4	1583.5	1622.6	1663.6
15°	1302.8	1334.4	1394.1	1436.5	1482.4	1527.4	1576.9	1616.7	1656.5	1679.5	1737.2
17.5°	1275.9	1322.4	1388.5	1437.9	1496.3	1567.1	1622.7	1667.8	1713.8	1751.1	1780.0
20°	1254.3	1304.8	1380.3	1439.6	1509.0	1585.0	1648.9	1694.8	1734.6	1765.8	1783.6
22.5°	1226.9	1290.5	1364.0	1433.4	1522.1	1597.3	1664.4	1700.5	1733.8	1749.0	1755.9
25°	1183.8	1260.4	1343.6	1428.3	1528.4	1608.0	1669.3	1691.2	1700.9	1686.1	1661.6
27.5°	1137.4	1222.7	1320.0	1418.7	1524.5	1601.1	1645.0	1641.5	1625.1	1577.2	1538.9
30°	1102.6	1196.6	1301.2	1408.9	1515.1	1589.6	1615.2	1589.6	1552.4	1498.8	1444.2
32.5°	1066.3	1163.5	1281.2	1395.0	1498.0	1563.5	1569.0	1525.1	1467.4	1406.5	1338.4
35°	1011.3	1116.4	1243.5	1364.0	1461.5	1502.9	1478.4	1400.8	1332.4	1249.2	1156.2
37.5°	949.1	1065.2	1192.7	1318.6	1406.9	1417.7	1356.9	1275.2	1178.7	1080.9	971.6
40°	902.5	1025.6	1156.8	1283.9	1362.0	1350.7	1273.1	1183.3	1068.4	949.0	847.4
42.5°	860.9	983.9	1117.5	1242.2	1304.8	1274.0	1183.3	1073.0	949.6	837.1	744.1
45°	788.7	915.3	1052.1	1172.6	1208.3	1152.7	1032.7	910.2	788.7	694.8	621.3
47.5°	718.7	843.8	979.3	1085.2	1097.8	1023.0	891.9	765.8	661.4	584.9	533.0
50°	667.2	792.8	927.0	1021.5	1017.4	927.0	792.3	672.3	585.0	523.2	488.5
52.5°	621.1	739.7	868.6	954.5	932.9	834.3	705.7	599.2	527.4	479.1	447.7
55°	549.3	659.0	781.5	850.5	810.6	701.4	592.7	506.9	453.8	417.6	393.1
57.5°	478.0	580.9	685.8	728.3	684.3	583.4	492.7	430.5	390.6	363.8	347.8
60°	433.9	523.8	617.2	653.9	601.3	511.5	440.0	384.4	352.2	330.3	316.0
62.5°	389.8	470.3	558.4	578.4	530.3	454.3	391.0	344.8	318.3	298.8	285.4
65°	329.8	395.6	462.5	475.8	431.4	372.7	322.6	292.5	269.0	254.7	244.0
67.5°	270.5	323.3	370.7	381.4	342.5	301.8	265.7	239.4	223.5	211.6	202.6
70°	235.3	277.2	316.0	324.7	293.5	257.3	229.7	208.8	194.5	184.3	175.6
72.5°	198.2	233.1	265.3	271.2	245.7	218.1	195.4	179.0	166.3	159.8	151.5
75°	151.6	172.0	197.0	198.6	181.7	164.9	147.5	136.8	130.2	122.0	117.9
77.5°	107.0	123.0	137.3	140.1	130.1	118.6	108.9	100.5	94.8	91.1	87.3
80°	81.7	94.4	100.6	104.1	97.0	88.8	83.2	77.6	74.0	71.5	68.9
82.5°	58.4	66.3	72.0	74.7	70.9	66.0	60.3	57.2	54.4	52.3	51.4
85°	29.6	33.2	36.8	37.8	36.8	34.7	31.6	31.6	30.1	29.6	29.6
87.5°	10.5	12.3	12.6	14.0	13.4	13.5	13.7	13.4	13.1	12.8	12.5
90°	1.5	2.5	3.6	4.6	5.5	6.3	7.0	7.8	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.3	8.4	8.8	9.2	9.5	9.9	10.2	10.4
95°	24.6	21.5	18.4	15.2	14.0	14.7	15.3	16.0	16.7	17.1	17.6
97.5°	46.3	37.5	28.6	19.8	16.2	17.7	19.2	20.8	22.3	22.7	23.1
100°	62.6	49.6	36.6	23.6	17.9	19.5	21.1	22.7	24.4	25.1	25.9
102.5°	95.5	92.7	90.0	87.2	79.1	65.6	52.1	38.6	25.0	26.0	27.0
105°	132.8	135.6	138.5	141.3	129.8	103.9	77.9	52.0	26.1	27.1	28.2
107.5°	168.4	170.7	173.0	175.3	160.9	129.8	98.7	67.6	36.5	35.4	34.4
110°	191.3	193.3	195.3	197.3	184.6	157.1	129.7	102.2	74.8	65.3	55.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.0	214.8	216.5	218.3	215.8	209.0	202.2	195.4	188.7	154.0	119.4
115°	247.4	249.0	250.6	252.2	254.2	256.6	259.0	261.3	263.7	219.7	175.8
117.5°	278.4	280.2	282.0	283.8	285.6	287.2	288.8	290.5	292.1	281.5	270.8
120°	300.6	302.0	303.5	304.9	306.5	308.2	309.9	311.6	313.3	314.4	315.6
122.5°	319.8	321.3	322.8	324.3	326.0	327.9	329.7	331.6	333.5	334.2	334.8
125°	348.7	350.0	351.2	352.4	353.9	355.8	357.6	359.4	361.2	361.8	362.5
127.5°	375.3	376.6	378.0	379.4	380.7	382.1	383.4	384.8	386.1	387.1	388.1
130°	392.2	393.7	395.2	396.7	398.0	399.1	400.1	401.2	402.2	403.2	404.3
132.5°	409.0	410.3	411.6	412.9	414.1	415.1	416.2	417.2	418.3	419.2	420.1
135°	431.5	433.0	434.5	436.1	437.2	438.1	439.0	439.8	440.7	441.6	442.6
137.5°	453.5	454.6	455.7	456.7	457.7	458.7	459.7	460.6	461.6	462.5	463.5
140°	467.9	468.7	469.4	470.2	471.1	472.2	473.2	474.2	475.3	476.1	477.0
142.5°	480.2	480.8	481.5	482.2	483.2	484.3	485.5	486.7	487.9	488.7	489.5
145°	498.7	498.6	498.5	498.4	499.2	500.8	502.4	504.0	505.6	506.3	507.0
147.5°	515.3	514.9	514.6	514.2	514.8	516.4	518.0	519.6	521.2	521.7	522.2
150°	525.9	525.2	524.6	523.9	524.3	525.9	527.4	528.9	530.4	531.0	531.6
152.5°	535.1	534.3	533.6	532.8	533.2	534.6	536.1	537.5	539.0	539.5	540.1
155°	548.4	547.5	546.7	545.8	546.0	547.1	548.2	549.4	550.5	551.1	551.7
157.5°	559.0	558.3	557.6	556.9	556.9	557.7	558.5	559.3	560.1	560.7	561.4
160°	565.3	564.8	564.2	563.6	563.6	564.2	564.8	565.3	565.9	566.5	567.0
162.5°	570.8	570.2	569.7	569.1	569.1	569.5	570.0	570.5	571.0	571.7	572.3
165°	578.2	577.6	577.0	576.4	576.3	576.6	576.9	577.2	577.4	578.1	578.8
167.5°	583.6	583.1	582.5	581.9	581.8	582.0	582.3	582.6	582.8	583.5	584.2
170°	586.7	586.1	585.6	585.0	584.8	585.0	585.2	585.4	585.6	586.2	586.9
172.5°	588.8	588.2	587.6	587.0	586.9	587.0	587.2	587.4	587.6	588.3	588.9
175°	591.3	590.6	590.0	589.3	589.1	589.3	589.5	589.6	589.8	590.5	591.2
177.5°	591.9	591.3	590.8	590.3	590.0	590.1	590.2	590.3	590.3	590.9	591.4
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1377.7	1383.4	1383.4	1384.2	1390.8	1389.9	1389.5
5°	1466.1	1474.8	1475.8	1485.0	1491.1	1489.1	1483.5
7.5°	1549.5	1565.7	1577.9	1584.7	1592.8	1597.8	1595.6
10°	1615.7	1639.2	1653.5	1663.2	1674.9	1683.6	1680.5
12.5°	1675.7	1703.7	1723.3	1739.9	1741.5	1752.6	1745.0
15°	1769.3	1798.9	1802.0	1814.3	1824.0	1822.9	1823.4
17.5°	1800.3	1809.8	1811.7	1812.0	1812.1	1808.5	1800.8
20°	1789.2	1785.7	1777.0	1770.4	1758.6	1757.1	1746.9
22.5°	1737.0	1725.6	1703.9	1689.5	1671.2	1666.4	1663.6
25°	1634.1	1609.0	1574.3	1541.1	1532.0	1514.1	1519.2
27.5°	1492.9	1453.9	1416.3	1389.3	1364.9	1338.2	1345.8
30°	1393.6	1349.7	1296.6	1255.8	1229.8	1204.2	1199.6
32.5°	1275.2	1210.9	1151.6	1115.7	1075.8	1059.7	1042.0
35°	1071.0	1008.2	949.5	899.0	869.9	847.4	827.0
37.5°	887.3	815.0	767.7	726.7	705.7	692.8	696.1
40°	773.4	710.1	675.4	644.2	624.8	615.6	617.7
42.5°	681.1	633.7	605.1	583.8	570.1	565.0	563.8
45°	576.3	549.8	526.3	514.1	507.4	501.8	498.2
47.5°	504.9	483.2	470.0	462.7	456.9	451.2	451.1
50°	462.0	447.7	438.5	430.8	426.3	422.2	425.7
52.5°	429.3	416.2	407.1	400.2	398.5	394.8	394.7
55°	380.8	370.6	364.0	357.8	354.8	352.7	350.2
57.5°	336.7	327.0	320.9	317.0	311.2	309.1	308.3
60°	305.3	297.6	291.5	286.4	283.8	279.7	279.7
62.5°	276.3	268.6	262.9	259.0	254.8	253.2	253.6
65°	234.3	228.2	222.6	218.5	217.5	214.4	215.4
67.5°	195.7	191.6	185.7	183.5	181.5	179.9	178.7
70°	170.0	165.9	162.8	159.8	158.2	158.2	158.2
72.5°	148.3	143.4	141.6	137.7	138.6	137.0	135.4
75°	114.9	111.8	110.3	108.7	106.2	106.2	106.2
77.5°	84.5	83.6	81.8	80.1	79.5	79.0	79.2
80°	65.3	64.8	63.8	63.8	62.8	62.3	61.3
82.5°	50.2	48.9	48.3	47.9	47.7	47.6	47.4
85°	28.6	27.6	27.6	28.1	27.1	27.1	27.6
87.5°	13.0	13.1	12.8	12.8	13.3	12.9	12.9
90°	10.0	10.4	10.8	11.0	11.2	11.4	11.5
92.5°	10.7	10.9	11.1	11.2	11.3	11.4	11.5
95°	18.1	18.6	18.8	18.7	18.6	18.5	18.4
97.5°	23.5	23.8	24.1	24.2	24.3	24.4	24.5
100°	26.6	27.4	27.9	28.1	28.3	28.4	28.6
102.5°	28.0	29.0	29.6	29.9	30.2	30.4	30.7
105°	29.2	30.3	31.0	31.3	31.7	32.1	32.5
107.5°	33.3	32.2	31.9	32.3	32.7	33.0	33.4
110°	46.3	36.8	32.2	32.6	33.0	33.4	33.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.7	50.1	32.9	33.2	33.5	33.8	34.1
115°	131.8	87.8	62.4	55.6	48.7	41.9	35.0
117.5°	260.2	249.5	233.0	210.5	188.0	165.6	143.1
120°	316.7	317.9	312.0	299.2	286.4	273.5	260.7
122.5°	335.5	336.2	335.3	332.8	330.3	327.8	325.3
125°	363.2	363.8	364.3	364.6	364.9	365.2	365.4
127.5°	389.0	390.0	390.5	390.6	390.6	390.7	390.7
130°	405.3	406.4	406.9	406.8	406.7	406.6	406.5
132.5°	420.9	421.8	422.2	422.1	422.0	422.0	421.9
135°	443.5	444.5	444.8	444.7	444.5	444.3	444.1
137.5°	464.4	465.3	465.6	465.3	465.0	464.7	464.3
140°	477.9	478.7	478.9	478.4	477.9	477.5	477.0
142.5°	490.3	491.1	491.2	490.7	490.3	489.8	489.3
145°	507.6	508.3	508.4	507.9	507.4	507.0	506.5
147.5°	522.7	523.2	523.2	522.8	522.4	522.0	521.6
150°	532.1	532.7	532.8	532.3	531.8	531.3	530.9
152.5°	540.7	541.3	541.2	540.6	540.0	539.3	538.7
155°	552.2	552.8	552.7	551.9	551.2	550.4	549.7
157.5°	562.0	562.7	562.6	561.9	561.1	560.4	559.7
160°	567.6	568.2	568.1	567.5	566.8	566.1	565.5
162.5°	573.0	573.6	573.5	572.7	571.9	571.1	570.3
165°	579.4	580.1	580.1	579.4	578.8	578.1	577.4
167.5°	584.8	585.5	585.4	584.5	583.7	582.8	582.0
170°	587.6	588.2	588.1	587.3	586.4	585.6	584.7
172.5°	589.6	590.3	590.2	589.3	588.5	587.6	586.8
175°	591.8	592.5	592.4	591.4	590.5	589.5	588.6
177.5°	591.9	592.5	592.4	591.7	591.0	590.3	589.7
180°	590.7	590.7	590.7	590.7	590.7	590.7	590.7

(END OF REPORT)