

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: P331531-830

Luminaire Tested: **S122DIW-S675D710U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331531-830
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-S675D710U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5436.6 lumens
Efficiency: N/A
Efficacy: 120.8 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: General Diffuse

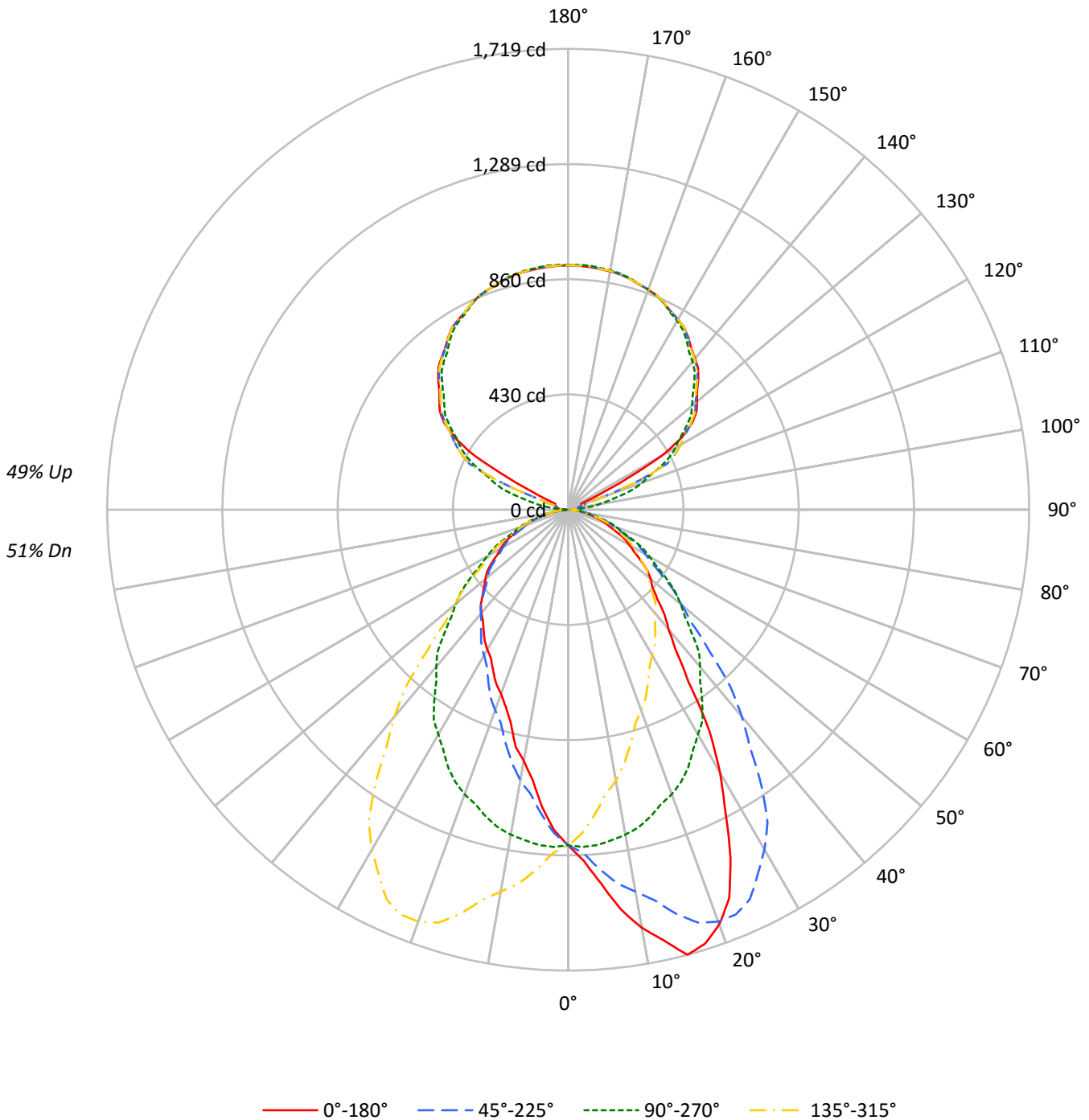
Input Watts (W): 45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	46	44	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	2.2
10°-20°	346.6	6.4
20°-30°	503.1	9.3
30°-40°	530.9	9.8
40°-50°	470.0	8.6
50°-60°	375.1	6.9
60°-70°	254.9	4.7
70°-80°	130.7	2.4
80°-90°	33.8	0.6
90°-100°	30.4	0.6
100°-110°	111.6	2.1
110°-120°	298.2	5.5
120°-130°	492.2	9.1
130°-140°	523.5	9.6
140°-150°	486.5	8.9
150°-160°	391.2	7.2
160°-170°	252.1	4.6
170°-180°	86.8	1.6
0°-30°	968.9	17.8
0°-40°	1499.8	27.6
0°-60°	2344.9	43.1
0°-90°	2764.3	50.8
90°-120°	440.1	8.1
90°-150°	1942.3	35.7
90°-180°	2672.0	49.1
0°-180°	5436.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	29
90°	18	1	18	1	18	9
95°	28	43	28	43	28	26
105°	50	201	50	201	50	52
115°	54	379	54	379	54	136
125°	564	536	564	536	564	488
135°	686	664	686	664	686	528
145°	782	770	782	770	782	489
155°	849	848	849	848	849	392
165°	892	893	892	893	892	252
175°	909	914	909	914	909	87
180°	912	912	912	912	912	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	13.6	13.5	13.9	13.4	13.3	13.6	13.5	12.9	13.2	13.4	13.6
90°	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7	13.9	13.2	12.1
92.5°	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1	15.6	15.3	14.7
95°	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2	26.5	25.7	24.7
97.5°	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6	35.1	34.4	32.0
100°	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0	38.7	37.6	35.2
102.5°	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8	40.2	38.6	35.5
105°	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5	41.8	40.2	38.3
107.5°	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1	54.7	56.4	54.3
110°	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1	100.9	115.5	157.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3	237.8	291.2	301.7
115°	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4	339.2	407.1	403.4
117.5°	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1	434.5	450.9	448.4
120°	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2	485.4	483.6	481.0
122.5°	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9	515.9	514.8	511.9
125°	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6	558.6	557.5	554.8
127.5°	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1	597.6	596.1	594.0
130°	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2	622.5	620.9	619.3
132.5°	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5	647.1	645.7	644.1
135°	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2	681.7	680.3	679.0
137.5°	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5	714.1	712.7	711.1
140°	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4	735.1	733.8	732.1
142.5°	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6	754.5	753.3	751.4
145°	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6	781.7	780.6	778.1
147.5°	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2	805.4	804.6	802.1
150°	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6	819.7	818.9	816.5
152.5°	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8	832.9	832.1	829.8
155°	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6	850.7	849.9	848.1
157.5°	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7	865.6	864.6	863.4
160°	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3	874.5	873.6	872.7
162.5°	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5	882.5	881.6	880.8
165°	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5	892.5	891.5	891.0
167.5°	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8	900.8	899.8	899.4
170°	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1	905.0	904.0	903.7
172.5°	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2	908.1	907.1	906.8
175°	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7	911.6	910.6	910.3
177.5°	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0	912.2	911.3	911.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	13.8	13.5	13.3	13.8	12.3	12.0	10.1	8.6	8.6	8.5	8.0
90°	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7	2.3	3.9	5.5
92.5°	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3	13.2	13.0	12.9
95°	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9	38.1	33.2	28.4
97.5°	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1	71.4	57.9	44.2
100°	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8	96.7	76.6	56.6
102.5°	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7	147.4	143.1	138.8
105°	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6	205.0	209.4	213.8
107.5°	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4	260.0	263.5	267.0
110°	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3	295.4	298.5	301.5



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1	328.9	331.6	334.2
115°	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4	381.9	384.4	386.9
117.5°	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1	429.8	432.6	435.4
120°	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8	464.1	466.3	468.4
122.5°	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4	493.8	496.1	498.4
125°	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4	538.4	540.3	542.2
127.5°	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2	579.3	581.5	583.5
130°	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0	605.4	607.8	610.1
132.5°	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5	631.5	633.5	635.5
135°	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8	666.1	668.5	670.8
137.5°	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5	700.1	701.8	703.4
140°	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2	722.4	723.5	724.7
142.5°	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2	741.2	742.3	743.4
145°	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1	769.9	769.8	769.6
147.5°	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0	795.5	794.9	794.4
150°	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9	811.9	810.9	809.8
152.5°	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2	826.0	824.9	823.7
155°	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9	846.6	845.3	844.0
157.5°	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1	863.0	861.9	860.7
160°	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	872.7	871.9	871.0
162.5°	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0	881.2	880.3	879.4
165°	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4	892.5	891.6	890.8
167.5°	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8	901.0	900.1	899.2
170°	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6	905.7	904.8	904.0
172.5°	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7	908.9	908.0	907.1
175°	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9	912.9	911.8	910.8
177.5°	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5	913.7	912.9	912.1
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	392.1	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	8.0	7.8	7.7	7.9	7.8	7.6	7.4	7.5	7.7	7.1	7.2
90°	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7	15.4	16.1	16.7
92.5°	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1	16.5	16.9	17.2
95°	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2	27.9	28.7	28.9
97.5°	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6	36.2	36.8	37.1
100°	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0	41.1	42.3	43.1
102.5°	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8	43.3	44.8	45.7
105°	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5	45.1	46.7	47.8
107.5°	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1	51.5	49.8	49.3
110°	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1	71.4	56.8	49.8



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3	130.8	77.3	50.8
115°	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4	203.4	135.5	96.3
117.5°	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1	401.6	385.2	359.7
120°	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2	488.9	490.7	481.6
122.5°	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9	517.9	519.1	517.6
125°	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6	560.6	561.7	562.4
127.5°	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1	600.6	602.1	602.9
130°	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2	625.8	627.4	628.1
132.5°	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5	649.9	651.2	651.9
135°	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2	684.7	686.2	686.7
137.5°	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5	716.9	718.4	718.9
140°	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4	737.7	739.0	739.3
142.5°	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6	756.9	758.1	758.3
145°	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6	783.6	784.7	784.9
147.5°	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2	806.9	807.7	807.8
150°	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6	821.5	822.4	822.5
152.5°	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8	834.7	835.6	835.6
155°	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6	852.5	853.4	853.2
157.5°	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7	867.6	868.6	868.6
160°	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3	876.3	877.1	877.0
162.5°	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5	884.5	885.5	885.4
165°	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5	894.5	895.5	895.5
167.5°	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8	902.9	903.8	903.7
170°	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1	907.0	908.0	908.0
172.5°	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2	910.2	911.3	911.1
175°	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7	913.6	914.6	914.5
177.5°	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0	913.8	914.6	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	7.3	6.9	7.0	6.6	7.0	6.9	7.3	7.2	7.1	7.7	7.5
90°	17.0	17.2	17.5	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7
92.5°	17.2	17.4	17.6	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1
95°	28.8	28.7	28.6	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2
97.5°	37.3	37.5	37.7	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6
100°	43.4	43.6	43.9	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0
102.5°	46.2	46.6	46.9	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8
105°	48.4	49.0	49.6	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5
107.5°	49.9	50.4	51.0	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1
110°	50.3	51.0	51.6	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	51.3	51.7	52.2	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3
115°	85.8	75.2	64.7	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4
117.5°	325.0	290.3	255.6	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1
120°	461.8	442.1	422.3	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2
122.5°	513.8	509.9	506.1	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9
125°	562.8	563.3	563.7	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6
127.5°	602.9	603.0	603.1	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1
130°	627.9	627.8	627.6	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2
132.5°	651.7	651.6	651.4	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5
135°	686.5	686.2	685.9	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2
137.5°	718.3	717.8	717.4	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5
140°	738.6	737.8	737.1	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4
142.5°	757.6	756.9	756.1	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6
145°	784.1	783.3	782.6	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6
147.5°	807.1	806.5	805.9	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2
150°	821.7	821.0	820.2	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6
152.5°	834.5	833.6	832.6	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8
155°	852.1	850.9	849.7	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6
157.5°	867.4	866.3	865.2	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7
160°	876.0	875.0	874.0	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3
162.5°	884.1	882.9	881.6	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5
165°	894.5	893.5	892.5	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5
167.5°	902.4	901.1	899.8	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8
170°	906.6	905.3	904.0	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1
172.5°	909.7	908.4	907.1	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2
175°	912.9	911.5	910.0	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7
177.5°	913.5	912.4	911.3	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	7.4	7.6	7.8	7.9	7.7	7.8	8.0	8.0	8.5	8.6	8.6
90°	13.9	13.2	12.1	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7
92.5°	15.6	15.3	14.7	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3
95°	26.5	25.7	24.7	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9
97.5°	35.1	34.4	32.0	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1
100°	38.7	37.6	35.2	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8
102.5°	40.2	38.6	59.5	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7
105°	41.8	40.2	80.3	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6
107.5°	54.7	56.4	104.3	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4
110°	100.9	115.5	157.9	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	291.2	301.7	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1
115°	339.2	407.1	403.4	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4
117.5°	434.5	450.9	448.4	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1
120°	485.4	483.6	481.0	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8
122.5°	515.9	514.8	511.9	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4
125°	558.6	557.5	554.8	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4
127.5°	597.6	596.1	594.0	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2
130°	622.5	620.9	619.3	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0
132.5°	647.1	645.7	644.1	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5
135°	681.7	680.3	679.0	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8
137.5°	714.1	712.7	711.1	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5
140°	735.1	733.8	732.1	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2
142.5°	754.5	753.3	751.4	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2
145°	781.7	780.6	778.1	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1
147.5°	805.4	804.6	802.1	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0
150°	819.7	818.9	816.5	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9
152.5°	832.9	832.1	829.8	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2
155°	850.7	849.9	848.1	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9
157.5°	865.6	864.6	863.4	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1
160°	874.5	873.6	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6
162.5°	882.5	881.6	880.8	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0
165°	892.5	891.5	891.0	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4
167.5°	900.8	899.8	899.4	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8
170°	905.0	904.0	903.7	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6
172.5°	908.1	907.1	906.8	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7
175°	911.6	910.6	910.3	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9
177.5°	912.2	911.3	911.3	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331531-830

CATALOG NUMBER: S122DIW-S675D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.1	12.0	12.3	13.8	13.3	13.5	13.8	13.6	13.4	13.2	12.9
90°	2.3	3.9	5.5	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7
92.5°	13.2	13.0	12.9	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1
95°	38.1	33.2	28.4	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2
97.5°	71.4	57.9	44.2	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6
100°	96.7	76.6	56.6	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0
102.5°	147.4	143.1	138.8	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8
105°	205.0	209.4	213.8	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5
107.5°	260.0	263.5	267.0	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1
110°	295.4	298.5	301.5	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	328.9	331.6	334.2	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3
115°	381.9	384.4	386.9	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4
117.5°	429.8	432.6	435.4	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1
120°	464.1	466.3	468.4	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2
122.5°	493.8	496.1	498.4	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9
125°	538.4	540.3	542.2	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6
127.5°	579.3	581.5	583.5	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1
130°	605.4	607.8	610.1	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2
132.5°	631.5	633.5	635.5	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5
135°	666.1	668.5	670.8	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2
137.5°	700.1	701.8	703.4	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5
140°	722.4	723.5	724.7	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4
142.5°	741.2	742.3	743.4	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6
145°	769.9	769.8	769.6	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6
147.5°	795.5	794.9	794.4	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2
150°	811.9	810.9	809.8	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6
152.5°	826.0	824.9	823.7	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8
155°	846.6	845.3	844.0	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6
157.5°	863.0	861.9	860.7	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7
160°	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3
162.5°	881.2	880.3	879.4	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5
165°	892.5	891.6	890.8	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5
167.5°	901.0	900.1	899.2	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8
170°	905.7	904.8	904.0	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1
172.5°	908.9	908.0	907.1	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2
175°	912.9	911.8	910.8	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7
177.5°	913.7	912.9	912.1	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	13.5	13.6	13.3	13.4	13.9	13.5	13.6
90°	15.4	16.1	16.7	17.0	17.2	17.5	17.8
92.5°	16.5	16.9	17.2	17.2	17.4	17.6	17.8
95°	27.9	28.7	28.9	28.8	28.7	28.6	28.4
97.5°	36.2	36.8	37.1	37.3	37.5	37.7	37.9
100°	41.1	42.3	43.1	43.4	43.6	43.9	44.2
102.5°	43.3	44.8	45.7	46.2	46.6	46.9	47.4
105°	45.1	46.7	47.8	48.4	49.0	49.6	50.1
107.5°	51.5	49.8	49.3	49.9	50.4	51.0	51.6
110°	71.4	56.8	49.8	50.3	51.0	51.6	52.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.8	77.3	50.8	51.3	51.7	52.2	52.7
115°	203.4	135.5	96.3	85.8	75.2	64.7	54.1
117.5°	401.6	385.2	359.7	325.0	290.3	255.6	220.9
120°	488.9	490.7	481.6	461.8	442.1	422.3	402.5
122.5°	517.9	519.1	517.6	513.8	509.9	506.1	502.3
125°	560.6	561.7	562.4	562.8	563.3	563.7	564.1
127.5°	600.6	602.1	602.9	602.9	603.0	603.1	603.2
130°	625.8	627.4	628.1	627.9	627.8	627.6	627.5
132.5°	649.9	651.2	651.9	651.7	651.6	651.4	651.3
135°	684.7	686.2	686.7	686.5	686.2	685.9	685.6
137.5°	716.9	718.4	718.9	718.3	717.8	717.4	716.8
140°	737.7	739.0	739.3	738.6	737.8	737.1	736.4
142.5°	756.9	758.1	758.3	757.6	756.9	756.1	755.4
145°	783.6	784.7	784.9	784.1	783.3	782.6	781.9
147.5°	806.9	807.7	807.8	807.1	806.5	805.9	805.2
150°	821.5	822.4	822.5	821.7	821.0	820.2	819.5
152.5°	834.7	835.6	835.6	834.5	833.6	832.6	831.6
155°	852.5	853.4	853.2	852.1	850.9	849.7	848.6
157.5°	867.6	868.6	868.6	867.4	866.3	865.2	863.9
160°	876.3	877.1	877.0	876.0	875.0	874.0	873.0
162.5°	884.5	885.5	885.4	884.1	882.9	881.6	880.3
165°	894.5	895.5	895.5	894.5	893.5	892.5	891.5
167.5°	902.9	903.8	903.7	902.4	901.1	899.8	898.4
170°	907.0	908.0	908.0	906.6	905.3	904.0	902.7
172.5°	910.2	911.3	911.1	909.7	908.4	907.1	905.8
175°	913.6	914.6	914.5	912.9	911.5	910.0	908.6
177.5°	913.8	914.6	914.5	913.5	912.4	911.3	910.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9

(END OF REPORT)