

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: P333454-927

Luminaire Tested: **S125DIW-S1090D1560U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333454-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D1560U927-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8498.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

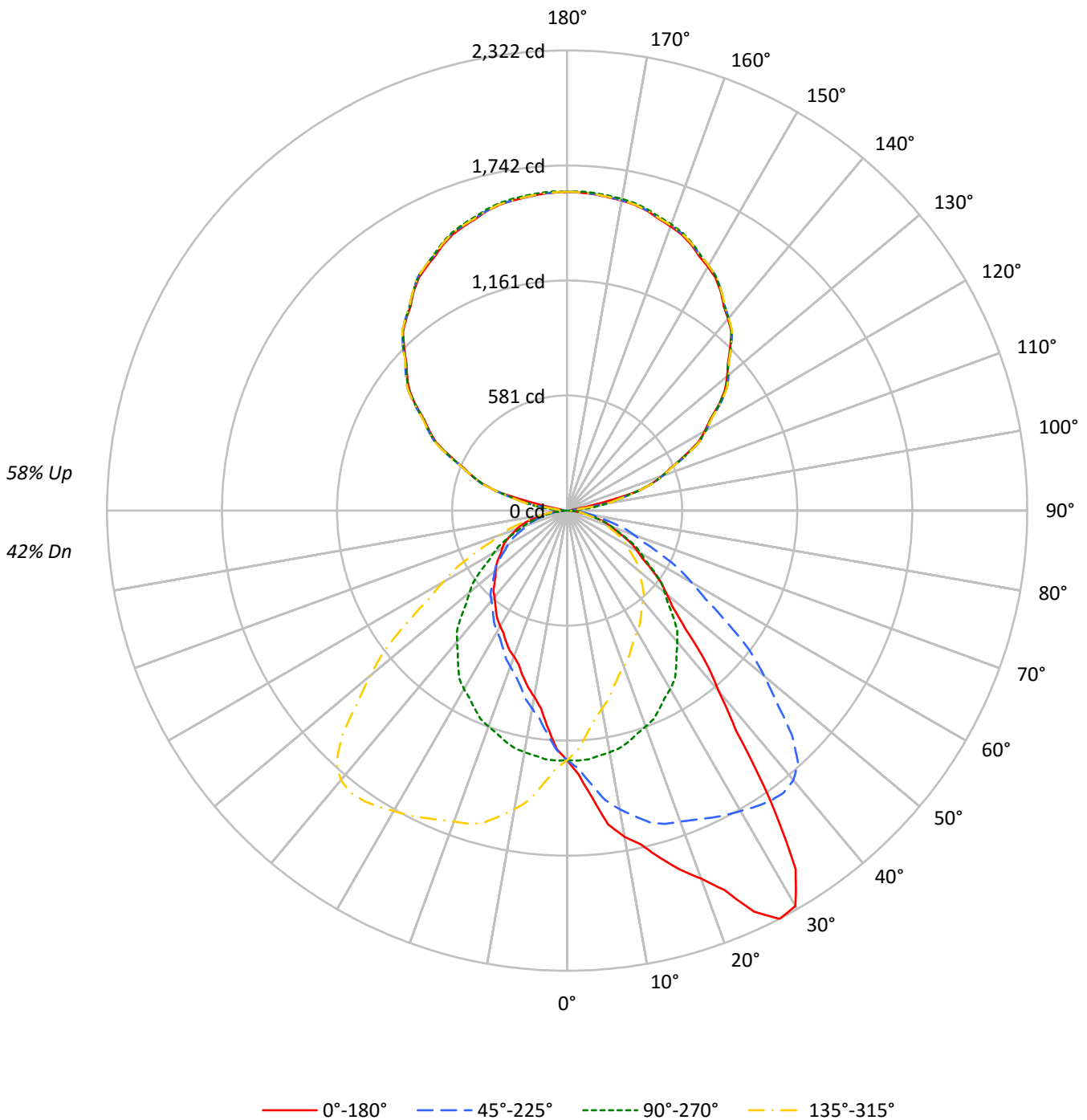
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	80	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8136	8136	8136	8136
5°	9422	8163	7148	8163
10°	10961	8121	6263	8121
15°	12133	8062	5777	8062
20°	13582	7967	5388	7967
25°	15911	7860	5197	7860
30°	17186	7756	5032	7756
35°	14130	7559	4924	7559
40°	10044	7284	4806	7284
45°	7716	6915	4737	6915
50°	6586	6457	4728	6457
55°	5864	6008	4769	6008
60°	5291	5518	4890	5518
65°	4886	5025	5017	5025
70°	4443	4513	5089	4513
75°	3923	3975	5043	3975
80°	3299	3239	4616	3239
85°	2616	2334	3720	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	1.4
10°-20°	361.1	4.2
20°-30°	586.3	6.9
30°-40°	715.2	8.4
40°-50°	650.6	7.7
50°-60°	518.2	6.1
60°-70°	361.0	4.2
70°-80°	192.5	2.3
80°-90°	51.9	0.6
90°-100°	58.5	0.7
100°-110°	360.3	4.2
110°-120°	653.4	7.7
120°-130°	838.6	9.9
130°-140°	902.0	10.6
140°-150°	846.7	10.0
150°-160°	684.9	8.1
160°-170°	442.9	5.2
170°-180°	152.8	1.8
0°-30°	1068.7	12.6
0°-40°	1783.8	21.0
0°-60°	2952.7	34.7
0°-90°	3558.0	41.9
90°-120°	1072.2	12.6
90°-150°	3659.5	43.1
90°-180°	4940.0	58.1
0°-180°	8498.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1260	1260	1260	1260	1260	
5°	1453	1259	1102	1259	1453	146
15°	1815	1206	864	1206	1815	519
25°	2233	1103	729	1103	2233	1020
35°	1792	959	624	959	1792	1097
45°	845	757	519	757	845	676
55°	521	534	424	534	521	469
65°	320	329	328	329	320	317
75°	157	159	202	159	157	169
85°	35	32	50	32	35	41
90°	29	1	29	1	29	14
95°	25	68	25	68	25	21
105°	354	351	354	351	354	320
115°	654	658	654	658	654	649
125°	936	936	936	936	936	833
135°	1163	1167	1163	1167	1163	897
145°	1350	1354	1350	1354	1350	843
155°	1480	1491	1480	1491	1480	682
165°	1565	1573	1565	1573	1565	442
175°	1602	1609	1602	1609	1602	152
180°	1609	1609	1609	1609	1609	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1332.5	1330.7	1329.0	1325.6	1328.2	1320.9	1317.5	1311.5	1304.2	1301.6	1298.6
5°	1453.3	1456.0	1458.6	1447.4	1448.4	1441.0	1423.9	1409.9	1398.8	1384.3	1374.1
7.5°	1598.7	1592.4	1591.9	1584.6	1572.1	1562.0	1544.0	1521.1	1499.0	1473.8	1452.9
10°	1671.4	1672.0	1667.1	1658.6	1645.2	1635.6	1612.1	1589.6	1562.3	1530.3	1507.3
12.5°	1726.2	1728.4	1722.4	1710.8	1704.2	1682.7	1664.3	1637.5	1605.1	1579.5	1544.5
15°	1814.7	1808.9	1804.6	1790.1	1778.9	1756.4	1727.0	1699.2	1663.9	1631.3	1598.7
17.5°	1900.0	1904.7	1896.7	1883.6	1848.7	1822.5	1783.0	1745.0	1701.1	1657.3	1618.3
20°	1976.2	1980.5	1968.2	1945.2	1903.5	1877.3	1825.4	1776.2	1725.5	1669.3	1626.5
22.5°	2071.2	2067.8	2051.1	2016.2	1980.1	1931.6	1875.5	1815.6	1751.9	1688.5	1631.7
25°	2232.8	2210.3	2200.2	2157.0	2109.3	2038.2	1961.2	1873.5	1794.4	1710.5	1637.8
27.5°	2322.4	2315.4	2304.1	2273.9	2223.9	2147.8	2057.1	1950.2	1838.6	1732.6	1637.4
30°	2304.5	2305.6	2306.6	2297.0	2264.9	2207.7	2117.3	2002.4	1869.8	1750.6	1640.4
32.5°	2145.4	2164.8	2183.4	2205.4	2214.5	2203.5	2146.9	2043.0	1906.5	1771.1	1638.7
35°	1792.2	1798.2	1858.5	1918.4	1999.7	2062.8	2105.1	2059.0	1944.1	1788.5	1636.6
37.5°	1397.5	1426.3	1468.2	1535.8	1653.1	1758.2	1893.2	1955.3	1918.3	1794.2	1632.9
40°	1191.3	1218.0	1245.3	1314.2	1413.2	1540.4	1693.8	1824.9	1855.4	1776.2	1620.1
42.5°	1032.1	1053.4	1083.6	1135.4	1218.1	1330.9	1477.4	1648.6	1754.0	1724.0	1593.2
45°	844.8	858.2	881.7	922.9	982.8	1071.0	1200.4	1387.5	1550.6	1604.6	1529.2
47.5°	723.1	723.0	741.3	769.8	812.9	887.9	983.6	1130.2	1304.4	1433.3	1427.3
50°	655.5	652.8	667.3	691.9	726.1	775.9	867.3	984.4	1151.7	1297.7	1338.3
52.5°	597.4	597.7	606.6	624.7	653.4	695.9	764.1	869.7	1012.7	1162.5	1239.1
55°	520.8	518.6	528.8	541.1	562.0	589.8	639.0	719.7	835.7	983.3	1082.8
57.5°	450.6	456.5	460.6	469.1	486.5	505.1	546.5	605.8	697.8	824.5	929.6
60°	409.6	415.4	418.7	427.2	441.1	457.2	489.3	537.3	614.9	724.0	828.2
62.5°	372.8	377.4	378.4	386.1	397.5	413.1	438.3	478.8	540.0	635.4	737.5
65°	319.7	319.7	321.9	329.9	335.3	349.1	368.4	397.8	447.0	521.3	608.5
67.5°	268.6	271.2	270.7	274.2	279.1	289.9	303.7	328.0	364.4	418.7	488.4
70°	235.3	237.4	236.9	239.6	244.9	251.8	263.1	286.1	312.3	358.8	418.7
72.5°	205.3	206.2	204.8	208.3	211.5	217.6	230.1	242.4	266.9	306.2	355.4
75°	157.2	158.3	159.3	161.4	164.7	167.9	174.3	186.6	202.6	232.0	263.6
77.5°	117.9	115.8	118.4	118.0	119.9	122.3	128.0	134.5	147.7	166.3	190.7
80°	88.7	89.3	89.3	89.8	92.5	94.1	98.9	103.7	113.9	127.8	144.9
82.5°	64.8	66.2	65.4	66.3	68.5	69.7	72.4	76.4	82.2	93.2	105.5
85°	35.3	32.6	33.7	34.8	34.8	35.3	37.4	39.1	42.2	46.5	51.3
87.5°	16.0	16.7	17.0	16.8	17.0	16.9	18.3	18.1	19.1	20.0	21.4
90°	28.6	27.8	27.0	26.2	25.4	24.4	23.1	21.7	20.4	19.1	17.2
92.5°	26.7	26.4	26.0	25.6	25.2	24.4	23.1	21.7	20.4	19.1	17.4
95°	25.0	25.0	25.0	25.0	25.0	24.4	23.1	21.7	20.4	19.1	29.2
97.5°	25.0	25.0	25.0	25.0	25.0	28.8	36.3	43.7	51.2	58.7	78.6
100°	25.0	26.1	27.2	28.2	29.3	49.6	89.0	128.5	168.0	207.5	206.4
102.5°	150.0	168.0	186.1	204.1	222.1	234.9	242.3	249.8	257.3	264.7	264.1
105°	354.2	354.4	354.7	355.0	355.2	355.4	355.4	355.4	355.4	355.4	355.4
107.5°	446.5	447.3	448.1	448.9	449.6	450.0	450.0	450.0	449.9	449.8	449.3
110°	510.4	510.2	509.8	509.6	509.4	509.6	510.4	511.2	512.0	512.8	512.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	567.6	568.0	568.4	568.8	569.1	569.8	570.8	571.8	572.8	573.9	573.5
115°	653.5	655.1	656.6	658.3	659.9	661.2	662.3	663.3	664.3	665.4	665.2
117.5°	745.0	745.8	746.5	747.2	747.8	748.8	750.3	751.6	753.0	754.4	753.4
120°	801.4	802.7	804.0	805.3	806.7	807.6	808.1	808.7	809.2	809.7	808.9
122.5°	854.8	856.3	857.9	859.4	860.9	862.0	862.5	863.0	863.6	864.1	863.7
125°	936.1	936.9	937.7	938.5	939.3	940.2	941.3	942.4	943.4	944.4	944.4
127.5°	1004.6	1006.5	1008.5	1010.4	1012.4	1013.7	1014.3	1014.9	1015.4	1016.1	1016.2
130°	1054.2	1055.5	1056.9	1058.2	1059.5	1060.6	1061.4	1062.2	1063.0	1063.7	1063.4
132.5°	1099.9	1101.3	1102.6	1104.0	1105.3	1106.0	1106.2	1106.4	1106.5	1106.7	1107.2
135°	1162.7	1164.3	1165.9	1167.4	1169.0	1170.1	1170.7	1171.2	1171.7	1172.3	1172.7
137.5°	1225.7	1227.0	1228.4	1229.8	1231.2	1231.8	1231.7	1231.6	1231.5	1231.4	1231.8
140°	1262.9	1264.5	1266.1	1267.7	1269.2	1269.8	1269.2	1268.7	1268.2	1267.7	1267.9
142.5°	1298.1	1299.7	1301.3	1302.9	1304.6	1305.3	1305.2	1305.0	1305.0	1304.9	1304.5
145°	1350.0	1351.5	1353.1	1354.7	1356.3	1356.9	1356.7	1356.5	1356.1	1355.9	1355.9
147.5°	1392.7	1394.6	1396.5	1398.4	1400.3	1401.1	1400.7	1400.4	1400.1	1399.8	1399.5
150°	1420.3	1422.4	1424.5	1426.6	1428.8	1429.6	1429.0	1428.5	1428.0	1427.4	1426.9
152.5°	1446.0	1448.0	1449.9	1451.8	1453.7	1454.4	1453.8	1453.3	1452.8	1452.2	1451.8
155°	1479.9	1482.0	1484.2	1486.3	1488.4	1489.1	1488.3	1487.5	1486.7	1485.9	1485.3
157.5°	1508.3	1510.4	1512.5	1514.7	1516.8	1517.4	1516.6	1515.7	1514.9	1514.0	1513.9
160°	1526.5	1528.5	1530.7	1532.8	1534.9	1535.4	1534.4	1533.3	1532.2	1531.2	1530.9
162.5°	1542.6	1545.0	1547.3	1549.7	1552.0	1552.4	1550.9	1549.4	1547.9	1546.4	1546.2
165°	1564.6	1566.7	1568.8	1571.0	1573.0	1573.4	1571.8	1570.1	1568.5	1566.9	1566.7
167.5°	1579.8	1582.2	1584.6	1587.0	1589.4	1589.6	1587.7	1585.8	1583.9	1582.0	1581.8
170°	1588.4	1590.8	1593.2	1595.6	1598.0	1598.1	1596.0	1593.9	1591.7	1589.6	1589.4
172.5°	1594.2	1596.6	1598.9	1601.3	1603.7	1603.9	1602.0	1600.1	1598.2	1596.3	1595.9
175°	1601.6	1603.9	1606.3	1608.7	1611.1	1611.2	1609.1	1606.9	1604.9	1602.7	1602.5
177.5°	1605.8	1607.5	1609.2	1610.9	1612.6	1612.7	1611.2	1609.8	1608.3	1606.8	1606.5
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1296.1	1293.1	1289.7	1283.7	1276.4	1272.6	1266.5	1262.7	1255.0	1248.6	1241.7
5°	1361.8	1348.0	1335.1	1318.5	1300.4	1288.6	1274.7	1259.2	1243.2	1226.5	1208.4
7.5°	1430.0	1405.3	1378.6	1349.9	1321.8	1295.9	1271.1	1246.9	1224.2	1196.8	1173.6
10°	1475.8	1444.7	1411.6	1372.5	1334.6	1301.4	1267.7	1238.3	1208.4	1176.3	1148.0
12.5°	1521.5	1480.2	1433.4	1390.5	1344.8	1304.8	1265.2	1227.6	1190.0	1154.5	1121.4
15°	1553.8	1517.4	1474.1	1413.2	1361.8	1306.8	1254.3	1205.7	1160.2	1120.7	1079.0
17.5°	1575.1	1528.2	1481.7	1423.2	1356.0	1294.3	1235.0	1179.3	1128.1	1077.9	1037.7
20°	1578.9	1530.8	1482.2	1424.9	1356.0	1285.4	1226.1	1159.2	1104.1	1052.3	1003.1
22.5°	1577.6	1523.1	1470.1	1411.3	1344.0	1279.0	1207.2	1139.1	1079.3	1028.3	977.0
25°	1565.6	1507.3	1441.0	1381.6	1315.3	1246.3	1173.6	1103.0	1042.1	983.8	933.0
27.5°	1555.5	1479.9	1404.9	1335.6	1271.6	1208.4	1138.8	1066.5	998.9	939.8	892.0
30°	1543.1	1460.2	1375.7	1303.5	1237.8	1176.3	1110.6	1040.0	969.4	911.6	860.3
32.5°	1532.0	1435.4	1346.2	1267.7	1198.0	1138.2	1077.6	1010.4	941.1	882.6	831.2
35°	1510.5	1398.8	1296.6	1207.8	1133.5	1072.1	1021.3	958.7	895.1	838.4	789.2
37.5°	1483.2	1350.6	1241.0	1148.0	1066.5	1001.7	954.4	906.4	845.3	790.7	746.2
40°	1461.8	1316.4	1200.4	1105.2	1020.7	953.3	909.5	864.0	813.3	762.5	715.4
42.5°	1434.9	1285.6	1159.3	1056.9	973.2	907.6	861.6	823.0	778.2	730.8	687.1
45°	1385.4	1229.8	1092.9	982.8	898.3	833.5	786.0	757.1	723.4	678.5	641.6
47.5°	1312.6	1162.7	1021.1	907.4	820.3	760.3	715.7	688.0	664.3	630.9	597.5
50°	1247.9	1112.7	969.4	856.6	769.4	709.0	667.8	642.7	622.3	596.7	568.4
52.5°	1175.7	1049.8	918.5	806.9	720.6	661.1	620.8	598.7	581.7	563.3	535.4
55°	1060.8	953.9	831.9	726.1	646.4	588.1	552.9	533.6	519.8	505.8	488.7
57.5°	934.3	850.6	742.7	645.9	572.5	519.5	486.6	467.9	457.0	449.9	439.8
60°	845.3	773.7	680.6	592.4	520.8	473.7	441.6	427.2	418.1	412.3	404.7
62.5°	762.8	703.9	617.7	537.3	474.6	430.1	401.5	387.5	378.7	375.9	369.7
65°	641.1	595.6	524.5	457.7	404.3	366.2	342.2	328.8	323.4	320.3	320.8
67.5°	521.2	493.5	436.4	379.4	336.8	304.9	285.7	275.4	272.7	268.4	268.3
70°	448.1	427.2	379.1	329.4	291.4	266.8	249.7	239.0	236.3	234.2	233.7
72.5°	383.5	365.2	323.4	283.6	249.5	227.9	213.7	207.3	203.0	201.7	201.6
75°	288.2	278.1	244.9	213.3	189.8	174.8	165.2	159.3	156.1	155.6	156.1
77.5°	204.9	196.0	174.9	152.6	137.8	126.4	118.3	116.2	112.6	112.7	112.2
80°	154.0	148.1	134.8	117.1	104.8	95.1	90.9	87.1	86.1	84.4	86.1
82.5°	111.6	105.4	96.3	85.0	74.9	69.1	64.8	63.6	63.0	62.3	62.6
85°	55.1	55.6	50.2	41.7	37.4	34.2	31.5	31.5	31.0	30.5	31.0
87.5°	21.9	20.7	18.6	16.9	14.3	12.7	11.8	11.8	10.9	10.9	11.8
90°	15.4	13.5	11.6	9.7	7.5	5.5	3.3	1.2	3.3	5.5	7.5
92.5°	15.8	14.2	12.5	12.4	13.9	15.4	16.9	18.4	16.9	15.4	13.9
95°	39.2	49.3	59.3	64.8	65.6	66.4	67.2	68.0	67.2	66.4	65.6
97.5°	98.5	118.4	138.4	147.7	146.2	144.7	143.3	141.9	143.3	144.7	146.2
100°	205.4	204.3	203.3	202.3	201.5	200.7	199.9	199.2	199.9	200.7	201.5
102.5°	263.5	262.8	262.2	261.3	260.4	259.4	258.3	257.4	258.3	259.4	260.4
105°	355.4	355.4	355.4	354.8	353.8	352.8	351.6	350.6	351.6	352.8	353.8
107.5°	448.8	448.2	447.7	447.4	447.4	447.4	447.4	447.4	447.4	447.4	447.4
110°	511.7	511.2	510.6	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	573.2	572.9	572.6	572.1	571.5	570.8	570.2	569.6	570.2	570.8	571.5
115°	664.9	664.6	664.3	663.5	662.3	660.9	659.6	658.3	659.6	660.9	662.3
117.5°	752.3	751.4	750.4	749.9	750.0	750.0	750.0	750.1	750.0	750.0	750.0
120°	808.1	807.3	806.5	806.3	806.5	806.8	807.1	807.3	807.1	806.8	806.5
122.5°	863.3	863.0	862.6	861.9	860.9	859.9	858.9	857.9	858.9	859.9	860.9
125°	944.4	944.4	944.4	943.6	941.7	939.8	937.9	936.1	937.9	939.8	941.7
127.5°	1016.4	1016.5	1016.7	1016.1	1014.8	1013.4	1012.1	1010.7	1012.1	1013.4	1014.8
130°	1063.2	1063.0	1062.6	1061.8	1060.6	1059.2	1057.9	1056.5	1057.9	1059.2	1060.6
132.5°	1107.8	1108.4	1109.0	1108.5	1107.0	1105.4	1103.9	1102.3	1103.9	1105.4	1107.0
135°	1173.3	1173.9	1174.3	1173.9	1172.3	1170.7	1169.0	1167.4	1169.0	1170.7	1172.3
137.5°	1232.3	1232.8	1233.3	1232.9	1231.4	1230.1	1228.7	1227.3	1228.7	1230.1	1231.4
140°	1268.2	1268.4	1268.7	1268.6	1268.0	1267.5	1267.0	1266.5	1267.0	1267.5	1268.0
142.5°	1304.1	1303.8	1303.4	1303.0	1302.7	1302.3	1302.0	1301.7	1302.0	1302.3	1302.7
145°	1355.9	1355.9	1355.9	1355.7	1355.1	1354.6	1354.0	1353.5	1354.0	1354.6	1355.1
147.5°	1399.2	1398.8	1398.5	1398.4	1398.5	1398.6	1398.7	1398.8	1398.7	1398.6	1398.5
150°	1426.4	1425.8	1425.3	1425.3	1425.8	1426.4	1426.9	1427.4	1426.9	1426.4	1425.8
152.5°	1451.2	1450.6	1450.1	1450.4	1451.6	1452.8	1454.0	1455.1	1454.0	1452.8	1451.6
155°	1484.8	1484.3	1483.8	1484.3	1485.9	1487.5	1489.1	1490.6	1489.1	1487.5	1485.9
157.5°	1513.9	1513.9	1513.8	1514.3	1515.2	1516.2	1517.1	1518.1	1517.1	1516.2	1515.2
160°	1530.7	1530.4	1530.1	1530.8	1532.4	1534.0	1535.6	1537.2	1535.6	1534.0	1532.4
162.5°	1545.9	1545.6	1545.4	1546.0	1547.6	1549.3	1550.9	1552.4	1550.9	1549.3	1547.6
165°	1566.5	1566.1	1565.9	1566.5	1568.1	1569.7	1571.4	1573.0	1571.4	1569.7	1568.1
167.5°	1581.4	1581.2	1581.0	1581.6	1583.3	1584.9	1586.6	1588.2	1586.6	1584.9	1583.3
170°	1589.1	1588.8	1588.6	1589.4	1591.2	1593.1	1594.9	1596.8	1594.9	1593.1	1591.2
172.5°	1595.4	1594.9	1594.4	1595.1	1597.0	1598.8	1600.7	1602.5	1600.7	1598.8	1597.0
175°	1602.2	1602.0	1601.7	1602.3	1603.9	1605.5	1607.1	1608.7	1607.1	1605.5	1603.9
177.5°	1606.4	1606.1	1605.9	1606.5	1607.7	1609.0	1610.3	1611.5	1610.3	1609.0	1607.7
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1237.9	1233.2	1229.3	1220.8	1216.1	1209.7	1204.5	1210.1	1204.1	1206.7	1202.8
5°	1199.3	1184.3	1173.6	1158.1	1144.8	1132.4	1123.4	1121.7	1117.5	1115.3	1108.9
7.5°	1152.9	1134.2	1115.8	1095.4	1078.3	1060.9	1049.8	1040.6	1034.5	1026.5	1021.0
10°	1125.5	1100.3	1079.0	1054.4	1033.0	1014.3	999.3	991.8	984.9	974.7	971.0
12.5°	1091.7	1065.7	1039.7	1013.4	992.8	971.9	959.1	947.8	942.9	931.5	930.3
15°	1051.2	1012.2	986.5	959.7	931.4	914.3	903.6	891.3	886.0	878.0	872.0
17.5°	1002.8	968.0	935.9	908.2	883.9	869.5	856.3	847.8	838.6	833.4	823.7
20°	967.8	934.6	902.5	873.1	854.4	837.8	827.1	819.1	809.5	806.8	797.3
22.5°	938.3	901.7	870.9	846.2	825.8	807.1	795.5	790.0	783.4	775.2	773.2
25°	890.3	852.3	826.1	801.5	783.3	766.2	758.2	751.2	744.8	738.9	736.8
27.5°	848.7	814.8	783.7	761.5	745.7	730.1	723.0	714.5	709.9	705.1	699.3
30°	819.7	784.9	757.6	736.3	719.1	705.3	697.8	691.9	687.6	683.3	680.1
32.5°	789.7	757.6	731.1	710.2	693.1	682.5	676.0	671.8	667.1	661.9	657.9
35°	750.2	714.9	689.2	671.1	657.7	649.7	642.1	638.4	633.0	633.0	628.8
37.5°	705.6	675.1	652.4	635.9	623.8	616.7	608.6	606.0	602.6	600.3	598.8
40°	679.1	650.7	629.3	612.8	599.9	594.1	587.6	583.4	581.2	578.5	577.4
42.5°	651.6	624.6	604.1	588.8	577.7	572.7	566.6	563.6	559.4	555.9	555.2
45°	610.1	583.8	565.1	552.9	543.2	537.3	533.6	527.2	525.1	520.8	520.2
47.5°	570.6	545.5	527.1	517.1	508.6	503.7	497.9	491.5	489.0	486.9	486.6
50°	541.1	518.1	501.0	491.4	483.4	476.4	470.6	466.3	464.6	464.6	465.7
52.5°	511.2	491.5	477.1	465.2	457.7	450.3	444.9	442.3	439.8	442.4	444.3
55°	467.3	447.5	436.8	425.6	418.1	409.6	406.9	405.8	404.3	408.5	410.7
57.5°	420.9	407.0	394.5	383.3	376.6	371.7	368.0	367.4	370.4	372.5	379.4
60°	391.4	375.3	364.1	355.5	347.5	344.4	343.3	342.2	344.4	350.2	359.3
62.5°	358.9	345.9	333.7	327.3	321.5	316.1	315.9	316.6	320.8	327.6	336.6
65°	311.2	299.9	291.9	284.5	279.6	276.4	277.5	279.6	284.5	293.5	303.7
67.5°	262.8	255.1	247.9	241.8	237.2	237.2	238.3	241.5	247.2	257.6	266.9
70°	231.6	223.0	217.1	214.4	210.6	208.5	211.8	217.1	221.9	231.6	239.6
72.5°	200.3	193.1	188.5	186.6	185.0	183.3	184.3	190.1	196.6	206.3	215.6
75°	154.0	151.3	148.1	146.0	144.3	145.4	146.5	151.9	157.2	167.4	178.1
77.5°	112.4	109.6	107.7	107.2	106.3	106.9	109.8	113.8	119.0	126.4	134.5
80°	85.0	84.0	82.9	82.3	82.3	82.9	87.1	89.8	94.7	101.6	108.0
82.5°	61.9	61.2	61.1	60.9	61.4	61.5	64.1	67.6	71.5	76.8	82.3
85°	32.6	31.5	33.1	33.7	32.6	34.2	35.3	37.4	39.1	41.7	44.4
87.5°	12.6	13.9	13.9	14.7	15.0	16.2	16.1	18.1	19.2	20.3	20.0
90°	9.7	11.6	13.5	15.4	17.2	19.1	20.4	21.7	23.1	24.4	25.4
92.5°	12.4	12.5	14.2	15.8	17.4	19.1	20.4	21.7	23.1	24.4	25.2
95°	64.8	59.3	49.3	39.2	29.2	19.1	20.4	21.7	23.1	24.4	25.0
97.5°	147.7	138.4	118.4	98.5	78.6	58.7	51.2	43.7	36.3	28.8	25.0
100°	202.3	203.3	204.3	205.4	206.4	207.5	168.0	128.5	89.0	49.6	29.3
102.5°	261.3	262.2	262.8	263.5	264.1	264.7	257.3	249.8	242.3	234.9	222.1
105°	354.8	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.2
107.5°	447.4	447.7	448.2	448.8	449.3	449.8	449.9	450.0	450.0	450.0	449.6
110°	510.4	510.6	511.2	511.7	512.2	512.8	512.0	511.2	510.4	509.6	509.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	572.1	572.6	572.9	573.2	573.5	573.9	572.8	571.8	570.8	569.8	569.1
115°	663.5	664.3	664.6	664.9	665.2	665.4	664.3	663.3	662.3	661.2	659.9
117.5°	749.9	750.4	751.4	752.3	753.4	754.4	753.0	751.6	750.3	748.8	747.8
120°	806.3	806.5	807.3	808.1	808.9	809.7	809.2	808.7	808.1	807.6	806.7
122.5°	861.9	862.6	863.0	863.3	863.7	864.1	863.6	863.0	862.5	862.0	860.9
125°	943.6	944.4	944.4	944.4	944.4	944.4	943.4	942.4	941.3	940.2	939.3
127.5°	1016.1	1016.7	1016.5	1016.4	1016.2	1016.1	1015.4	1014.9	1014.3	1013.7	1012.4
130°	1061.8	1062.6	1063.0	1063.2	1063.4	1063.7	1063.0	1062.2	1061.4	1060.6	1059.5
132.5°	1108.5	1109.0	1108.4	1107.8	1107.2	1106.7	1106.5	1106.4	1106.2	1106.0	1105.3
135°	1173.9	1174.3	1173.9	1173.3	1172.7	1172.3	1171.7	1171.2	1170.7	1170.1	1169.0
137.5°	1232.9	1233.3	1232.8	1232.3	1231.8	1231.4	1231.5	1231.6	1231.7	1231.8	1231.2
140°	1268.6	1268.7	1268.4	1268.2	1267.9	1267.7	1268.2	1268.7	1269.2	1269.8	1269.2
142.5°	1303.0	1303.4	1303.8	1304.1	1304.5	1304.9	1305.0	1305.0	1305.2	1305.3	1304.6
145°	1355.7	1355.9	1355.9	1355.9	1355.9	1355.9	1356.1	1356.5	1356.7	1356.9	1356.3
147.5°	1398.4	1398.5	1398.8	1399.2	1399.5	1399.8	1400.1	1400.4	1400.7	1401.1	1400.3
150°	1425.3	1425.3	1425.8	1426.4	1426.9	1427.4	1428.0	1428.5	1429.0	1429.6	1428.8
152.5°	1450.4	1450.1	1450.6	1451.2	1451.8	1452.2	1452.8	1453.3	1453.8	1454.4	1453.7
155°	1484.3	1483.8	1484.3	1484.8	1485.3	1485.9	1486.7	1487.5	1488.3	1489.1	1488.4
157.5°	1514.3	1513.8	1513.9	1513.9	1513.9	1514.0	1514.9	1515.7	1516.6	1517.4	1516.8
160°	1530.8	1530.1	1530.4	1530.7	1530.9	1531.2	1532.2	1533.3	1534.4	1535.4	1534.9
162.5°	1546.0	1545.4	1545.6	1545.9	1546.2	1546.4	1547.9	1549.4	1550.9	1552.4	1552.0
165°	1566.5	1565.9	1566.1	1566.5	1566.7	1566.9	1568.5	1570.1	1571.8	1573.4	1573.0
167.5°	1581.6	1581.0	1581.2	1581.4	1581.8	1582.0	1583.9	1585.8	1587.7	1589.6	1589.4
170°	1589.4	1588.6	1588.8	1589.1	1589.4	1589.6	1591.7	1593.9	1596.0	1598.1	1598.0
172.5°	1595.1	1594.4	1594.9	1595.4	1595.9	1596.3	1598.2	1600.1	1602.0	1603.9	1603.7
175°	1602.3	1601.7	1602.0	1602.2	1602.5	1602.7	1604.9	1606.9	1609.1	1611.2	1611.1
177.5°	1606.5	1605.9	1606.1	1606.4	1606.5	1606.8	1608.3	1609.8	1611.2	1612.7	1612.6
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1200.2	1203.2	1200.7	1204.1	1200.7	1203.2	1200.2	1202.8	1206.7	1204.1	1210.1
5°	1106.3	1101.5	1104.6	1102.5	1104.6	1101.5	1106.3	1108.9	1115.3	1117.5	1121.7
7.5°	1019.5	1014.9	1009.6	1007.1	1009.6	1014.9	1019.5	1021.0	1026.5	1034.5	1040.6
10°	965.1	959.3	958.7	955.0	958.7	959.3	965.1	971.0	974.7	984.9	991.8
12.5°	925.3	919.9	913.8	912.2	913.8	919.9	925.3	930.3	931.5	942.9	947.8
15°	868.9	864.6	860.9	864.0	860.9	864.6	868.9	872.0	878.0	886.0	891.3
17.5°	821.9	818.4	817.8	813.8	817.8	818.4	821.9	823.7	833.4	838.6	847.8
20°	792.4	789.7	790.8	783.9	790.8	789.7	792.4	797.3	806.8	809.5	819.1
22.5°	768.9	763.7	763.0	761.6	763.0	763.7	768.9	773.2	775.2	783.4	790.0
25°	732.0	729.3	726.7	729.3	726.7	729.3	732.0	736.8	738.9	744.8	751.2
27.5°	699.8	696.6	695.9	696.2	695.9	696.6	699.8	699.3	705.1	709.9	714.5
30°	680.1	674.8	675.3	674.8	675.3	674.8	680.1	680.1	683.3	687.6	691.9
32.5°	658.7	655.1	654.3	653.4	654.3	655.1	658.7	657.9	661.9	667.1	671.8
35°	627.2	627.2	624.5	624.5	624.5	627.2	627.2	628.8	633.0	633.0	638.4
37.5°	597.5	597.0	595.4	595.6	595.4	597.0	597.5	598.8	600.3	602.6	606.0
40°	575.3	574.8	573.1	570.0	573.1	574.8	575.3	577.4	578.5	581.2	583.4
42.5°	553.9	552.2	551.4	550.3	551.4	552.2	553.9	555.2	555.9	559.4	563.6
45°	520.2	520.2	519.2	518.6	519.2	520.2	520.2	520.2	520.8	525.1	527.2
47.5°	487.5	488.5	490.5	490.2	490.5	488.5	487.5	486.6	486.9	489.0	491.5
50°	467.9	468.4	470.0	470.6	470.0	468.4	467.9	465.7	464.6	464.6	466.3
52.5°	446.0	449.2	451.1	450.8	451.1	449.2	446.0	444.3	442.4	439.8	442.3
55°	415.4	419.2	422.9	423.5	422.9	419.2	415.4	410.7	408.5	404.3	405.8
57.5°	385.2	390.4	394.3	395.7	394.3	390.4	385.2	379.4	372.5	370.4	367.4
60°	364.6	371.6	376.4	378.6	376.4	371.6	364.6	359.3	350.2	344.4	342.2
62.5°	345.0	352.8	357.6	358.0	357.6	352.8	345.0	336.6	327.6	320.8	316.6
65°	312.8	320.8	325.1	328.3	325.1	320.8	312.8	303.7	293.5	284.5	279.6
67.5°	278.1	286.1	290.9	293.4	290.9	286.1	278.1	266.9	257.6	247.2	241.5
70°	252.9	260.9	267.4	269.5	267.4	260.9	252.9	239.6	231.6	221.9	217.1
72.5°	228.1	235.3	240.4	243.0	240.4	235.3	228.1	215.6	206.3	196.6	190.1
75°	185.0	194.6	199.5	202.1	199.5	194.6	185.0	178.1	167.4	157.2	151.9
77.5°	142.7	151.4	154.3	155.7	154.3	151.4	142.7	134.5	126.4	119.0	113.8
80°	114.4	119.8	123.5	124.1	123.5	119.8	114.4	108.0	101.6	94.7	89.8
82.5°	87.9	92.4	93.6	95.0	93.6	92.4	87.9	82.3	76.8	71.5	67.6
85°	48.1	50.2	50.8	50.2	50.8	50.2	48.1	44.4	41.7	39.1	37.4
87.5°	21.1	20.8	21.0	21.9	21.0	20.8	21.1	20.0	20.3	19.2	18.1
90°	26.2	27.0	27.8	28.6	27.8	27.0	26.2	25.4	24.4	23.1	21.7
92.5°	25.6	26.0	26.4	26.7	26.4	26.0	25.6	25.2	24.4	23.1	21.7
95°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.4	23.1	21.7
97.5°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	28.8	36.3	43.7
100°	28.2	27.2	26.1	25.0	26.1	27.2	28.2	29.3	49.6	89.0	128.5
102.5°	204.1	186.1	168.0	150.0	168.0	186.1	204.1	222.1	234.9	242.3	249.8
105°	355.0	354.7	354.4	354.2	354.4	354.7	355.0	355.2	355.4	355.4	355.4
107.5°	448.9	448.1	447.3	446.5	447.3	448.1	448.9	449.6	450.0	450.0	450.0
110°	509.6	509.8	510.2	510.4	510.2	509.8	509.6	509.4	509.6	510.4	511.2



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	568.8	568.4	568.0	567.6	568.0	568.4	568.8	569.1	569.8	570.8	571.8
115°	658.3	656.6	655.1	653.5	655.1	656.6	658.3	659.9	661.2	662.3	663.3
117.5°	747.2	746.5	745.8	745.0	745.8	746.5	747.2	747.8	748.8	750.3	751.6
120°	805.3	804.0	802.7	801.4	802.7	804.0	805.3	806.7	807.6	808.1	808.7
122.5°	859.4	857.9	856.3	854.8	856.3	857.9	859.4	860.9	862.0	862.5	863.0
125°	938.5	937.7	936.9	936.1	936.9	937.7	938.5	939.3	940.2	941.3	942.4
127.5°	1010.4	1008.5	1006.5	1004.6	1006.5	1008.5	1010.4	1012.4	1013.7	1014.3	1014.9
130°	1058.2	1056.9	1055.5	1054.2	1055.5	1056.9	1058.2	1059.5	1060.6	1061.4	1062.2
132.5°	1104.0	1102.6	1101.3	1099.9	1101.3	1102.6	1104.0	1105.3	1106.0	1106.2	1106.4
135°	1167.4	1165.9	1164.3	1162.7	1164.3	1165.9	1167.4	1169.0	1170.1	1170.7	1171.2
137.5°	1229.8	1228.4	1227.0	1225.7	1227.0	1228.4	1229.8	1231.2	1231.8	1231.7	1231.6
140°	1267.7	1266.1	1264.5	1262.9	1264.5	1266.1	1267.7	1269.2	1269.8	1269.2	1268.7
142.5°	1302.9	1301.3	1299.7	1298.1	1299.7	1301.3	1302.9	1304.6	1305.3	1305.2	1305.0
145°	1354.7	1353.1	1351.5	1350.0	1351.5	1353.1	1354.7	1356.3	1356.9	1356.7	1356.5
147.5°	1398.4	1396.5	1394.6	1392.7	1394.6	1396.5	1398.4	1400.3	1401.1	1400.7	1400.4
150°	1426.6	1424.5	1422.4	1420.3	1422.4	1424.5	1426.6	1428.8	1429.6	1429.0	1428.5
152.5°	1451.8	1449.9	1448.0	1446.0	1448.0	1449.9	1451.8	1453.7	1454.4	1453.8	1453.3
155°	1486.3	1484.2	1482.0	1479.9	1482.0	1484.2	1486.3	1488.4	1489.1	1488.3	1487.5
157.5°	1514.7	1512.5	1510.4	1508.3	1510.4	1512.5	1514.7	1516.8	1517.4	1516.6	1515.7
160°	1532.8	1530.7	1528.5	1526.5	1528.5	1530.7	1532.8	1534.9	1535.4	1534.4	1533.3
162.5°	1549.7	1547.3	1545.0	1542.6	1545.0	1547.3	1549.7	1552.0	1552.4	1550.9	1549.4
165°	1571.0	1568.8	1566.7	1564.6	1566.7	1568.8	1571.0	1573.0	1573.4	1571.8	1570.1
167.5°	1587.0	1584.6	1582.2	1579.8	1582.2	1584.6	1587.0	1589.4	1589.6	1587.7	1585.8
170°	1595.6	1593.2	1590.8	1588.4	1590.8	1593.2	1595.6	1598.0	1598.1	1596.0	1593.9
172.5°	1601.3	1598.9	1596.6	1594.2	1596.6	1598.9	1601.3	1603.7	1603.9	1602.0	1600.1
175°	1608.7	1606.3	1603.9	1601.6	1603.9	1606.3	1608.7	1611.1	1611.2	1609.1	1606.9
177.5°	1610.9	1609.2	1607.5	1605.8	1607.5	1609.2	1610.9	1612.6	1612.7	1611.2	1609.8
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1204.5	1209.7	1216.1	1220.8	1229.3	1233.2	1237.9	1241.7	1248.6	1255.0	1262.7
5°	1123.4	1132.4	1144.8	1158.1	1173.6	1184.3	1199.3	1208.4	1226.5	1243.2	1259.2
7.5°	1049.8	1060.9	1078.3	1095.4	1115.8	1134.2	1152.9	1173.6	1196.8	1224.2	1246.9
10°	999.3	1014.3	1033.0	1054.4	1079.0	1100.3	1125.5	1148.0	1176.3	1208.4	1238.3
12.5°	959.1	971.9	992.8	1013.4	1039.7	1065.7	1091.7	1121.4	1154.5	1190.0	1227.6
15°	903.6	914.3	931.4	959.7	986.5	1012.2	1051.2	1079.0	1120.7	1160.2	1205.7
17.5°	856.3	869.5	883.9	908.2	935.9	968.0	1002.8	1037.7	1077.9	1128.1	1179.3
20°	827.1	837.8	854.4	873.1	902.5	934.6	967.8	1003.1	1052.3	1104.1	1159.2
22.5°	795.5	807.1	825.8	846.2	870.9	901.7	938.3	977.0	1028.3	1079.3	1139.1
25°	758.2	766.2	783.3	801.5	826.1	852.3	890.3	933.0	983.8	1042.1	1103.0
27.5°	723.0	730.1	745.7	761.5	783.7	814.8	848.7	892.0	939.8	998.9	1066.5
30°	697.8	705.3	719.1	736.3	757.6	784.9	819.7	860.3	911.6	969.4	1040.0
32.5°	676.0	682.5	693.1	710.2	731.1	757.6	789.7	831.2	882.6	941.1	1010.4
35°	642.1	649.7	657.7	671.1	689.2	714.9	750.2	789.2	838.4	895.1	958.7
37.5°	608.6	616.7	623.8	635.9	652.4	675.1	705.6	746.2	790.7	845.3	906.4
40°	587.6	594.1	599.9	612.8	629.3	650.7	679.1	715.4	762.5	813.3	864.0
42.5°	566.6	572.7	577.7	588.8	604.1	624.6	651.6	687.1	730.8	778.2	823.0
45°	533.6	537.3	543.2	552.9	565.1	583.8	610.1	641.6	678.5	723.4	757.1
47.5°	497.9	503.7	508.6	517.1	527.1	545.5	570.6	597.5	630.9	664.3	688.0
50°	470.6	476.4	483.4	491.4	501.0	518.1	541.1	568.4	596.7	622.3	642.7
52.5°	444.9	450.3	457.7	465.2	477.1	491.5	511.2	535.4	563.3	581.7	598.7
55°	406.9	409.6	418.1	425.6	436.8	447.5	467.3	488.7	505.8	519.8	533.6
57.5°	368.0	371.7	376.6	383.3	394.5	407.0	420.9	439.8	449.9	457.0	467.9
60°	343.3	344.4	347.5	355.5	364.1	375.3	391.4	404.7	412.3	418.1	427.2
62.5°	315.9	316.1	321.5	327.3	333.7	345.9	358.9	369.7	375.9	378.7	387.5
65°	277.5	276.4	279.6	284.5	291.9	299.9	311.2	320.8	320.3	323.4	328.8
67.5°	238.3	237.2	237.2	241.8	247.9	255.1	262.8	268.3	268.4	272.7	275.4
70°	211.8	208.5	210.6	214.4	217.1	223.0	231.6	233.7	234.2	236.3	239.0
72.5°	184.3	183.3	185.0	186.6	188.5	193.1	200.3	201.6	201.7	203.0	207.3
75°	146.5	145.4	144.3	146.0	148.1	151.3	154.0	156.1	155.6	156.1	159.3
77.5°	109.8	106.9	106.3	107.2	107.7	109.6	112.4	112.2	112.7	112.6	116.2
80°	87.1	82.9	82.3	82.3	82.9	84.0	85.0	86.1	84.4	86.1	87.1
82.5°	64.1	61.5	61.4	60.9	61.1	61.2	61.9	62.6	62.3	63.0	63.6
85°	35.3	34.2	32.6	33.7	33.1	31.5	32.6	31.0	30.5	31.0	31.5
87.5°	16.1	16.2	15.0	14.7	13.9	13.9	12.6	11.8	10.9	10.9	11.8
90°	20.4	19.1	17.2	15.4	13.5	11.6	9.7	7.5	5.5	3.3	1.2
92.5°	20.4	19.1	17.4	15.8	14.2	12.5	12.4	13.9	15.4	16.9	18.4
95°	20.4	19.1	29.2	39.2	49.3	59.3	64.8	65.6	66.4	67.2	68.0
97.5°	51.2	58.7	78.6	98.5	118.4	138.4	147.7	146.2	144.7	143.3	141.9
100°	168.0	207.5	206.4	205.4	204.3	203.3	202.3	201.5	200.7	199.9	199.2
102.5°	257.3	264.7	264.1	263.5	262.8	262.2	261.3	260.4	259.4	258.3	257.4
105°	355.4	355.4	355.4	355.4	355.4	355.4	354.8	353.8	352.8	351.6	350.6
107.5°	449.9	449.8	449.3	448.8	448.2	447.7	447.4	447.4	447.4	447.4	447.4
110°	512.0	512.8	512.2	511.7	511.2	510.6	510.4	510.4	510.4	510.4	510.4



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CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	572.8	573.9	573.5	573.2	572.9	572.6	572.1	571.5	570.8	570.2	569.6
115°	664.3	665.4	665.2	664.9	664.6	664.3	663.5	662.3	660.9	659.6	658.3
117.5°	753.0	754.4	753.4	752.3	751.4	750.4	749.9	750.0	750.0	750.0	750.1
120°	809.2	809.7	808.9	808.1	807.3	806.5	806.3	806.5	806.8	807.1	807.3
122.5°	863.6	864.1	863.7	863.3	863.0	862.6	861.9	860.9	859.9	858.9	857.9
125°	943.4	944.4	944.4	944.4	944.4	944.4	943.6	941.7	939.8	937.9	936.1
127.5°	1015.4	1016.1	1016.2	1016.4	1016.5	1016.7	1016.1	1014.8	1013.4	1012.1	1010.7
130°	1063.0	1063.7	1063.4	1063.2	1063.0	1062.6	1061.8	1060.6	1059.2	1057.9	1056.5
132.5°	1106.5	1106.7	1107.2	1107.8	1108.4	1109.0	1108.5	1107.0	1105.4	1103.9	1102.3
135°	1171.7	1172.3	1172.7	1173.3	1173.9	1174.3	1173.9	1172.3	1170.7	1169.0	1167.4
137.5°	1231.5	1231.4	1231.8	1232.3	1232.8	1233.3	1232.9	1231.4	1230.1	1228.7	1227.3
140°	1268.2	1267.7	1267.9	1268.2	1268.4	1268.7	1268.6	1268.0	1267.5	1267.0	1266.5
142.5°	1305.0	1304.9	1304.5	1304.1	1303.8	1303.4	1303.0	1302.7	1302.3	1302.0	1301.7
145°	1356.1	1355.9	1355.9	1355.9	1355.9	1355.9	1355.7	1355.1	1354.6	1354.0	1353.5
147.5°	1400.1	1399.8	1399.5	1399.2	1398.8	1398.5	1398.4	1398.5	1398.6	1398.7	1398.8
150°	1428.0	1427.4	1426.9	1426.4	1425.8	1425.3	1425.3	1425.8	1426.4	1426.9	1427.4
152.5°	1452.8	1452.2	1451.8	1451.2	1450.6	1450.1	1450.4	1451.6	1452.8	1454.0	1455.1
155°	1486.7	1485.9	1485.3	1484.8	1484.3	1483.8	1484.3	1485.9	1487.5	1489.1	1490.6
157.5°	1514.9	1514.0	1513.9	1513.9	1513.9	1513.8	1514.3	1515.2	1516.2	1517.1	1518.1
160°	1532.2	1531.2	1530.9	1530.7	1530.4	1530.1	1530.8	1532.4	1534.0	1535.6	1537.2
162.5°	1547.9	1546.4	1546.2	1545.9	1545.6	1545.4	1546.0	1547.6	1549.3	1550.9	1552.4
165°	1568.5	1566.9	1566.7	1566.5	1566.1	1565.9	1566.5	1568.1	1569.7	1571.4	1573.0
167.5°	1583.9	1582.0	1581.8	1581.4	1581.2	1581.0	1581.6	1583.3	1584.9	1586.6	1588.2
170°	1591.7	1589.6	1589.4	1589.1	1588.8	1588.6	1589.4	1591.2	1593.1	1594.9	1596.8
172.5°	1598.2	1596.3	1595.9	1595.4	1594.9	1594.4	1595.1	1597.0	1598.8	1600.7	1602.5
175°	1604.9	1602.7	1602.5	1602.2	1602.0	1601.7	1602.3	1603.9	1605.5	1607.1	1608.7
177.5°	1608.3	1606.8	1606.5	1606.4	1606.1	1605.9	1606.5	1607.7	1609.0	1610.3	1611.5
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



TEST NUMBER: P333454-927

CATALOG NUMBER: S125DIW-S1090D1560U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1266.5	1272.6	1276.4	1283.7	1289.7	1293.1	1296.1	1298.6	1301.6	1304.2	1311.5
5°	1274.7	1288.6	1300.4	1318.5	1335.1	1348.0	1361.8	1374.1	1384.3	1398.8	1409.9
7.5°	1271.1	1295.9	1321.8	1349.9	1378.6	1405.3	1430.0	1452.9	1473.8	1499.0	1521.1
10°	1267.7	1301.4	1334.6	1372.5	1411.6	1444.7	1475.8	1507.3	1530.3	1562.3	1589.6
12.5°	1265.2	1304.8	1344.8	1390.5	1433.4	1480.2	1521.5	1544.5	1579.5	1605.1	1637.5
15°	1254.3	1306.8	1361.8	1413.2	1474.1	1517.4	1553.8	1598.7	1631.3	1663.9	1699.2
17.5°	1235.0	1294.3	1356.0	1423.2	1481.7	1528.2	1575.1	1618.3	1657.3	1701.1	1745.0
20°	1226.1	1285.4	1356.0	1424.9	1482.2	1530.8	1578.9	1626.5	1669.3	1725.5	1776.2
22.5°	1207.2	1279.0	1344.0	1411.3	1470.1	1523.1	1577.6	1631.7	1688.5	1751.9	1815.6
25°	1173.6	1246.3	1315.3	1381.6	1441.0	1507.3	1565.6	1637.8	1710.5	1794.4	1873.5
27.5°	1138.8	1208.4	1271.6	1335.6	1404.9	1479.9	1555.5	1637.4	1732.6	1838.6	1950.2
30°	1110.6	1176.3	1237.8	1303.5	1375.7	1460.2	1543.1	1640.4	1750.6	1869.8	2002.4
32.5°	1077.6	1138.2	1198.0	1267.7	1346.2	1435.4	1532.0	1638.7	1771.1	1906.5	2043.0
35°	1021.3	1072.1	1133.5	1207.8	1296.6	1398.8	1510.5	1636.6	1788.5	1944.1	2059.0
37.5°	954.4	1001.7	1066.5	1148.0	1241.0	1350.6	1483.2	1632.9	1794.2	1918.3	1955.3
40°	909.5	953.3	1020.7	1105.2	1200.4	1316.4	1461.8	1620.1	1776.2	1855.4	1824.9
42.5°	861.6	907.6	973.2	1056.9	1159.3	1285.6	1434.9	1593.2	1724.0	1754.0	1648.6
45°	786.0	833.5	898.3	982.8	1092.9	1229.8	1385.4	1529.2	1604.6	1550.6	1387.5
47.5°	715.7	760.3	820.3	907.4	1021.1	1162.7	1312.6	1427.3	1433.3	1304.4	1130.2
50°	667.8	709.0	769.4	856.6	969.4	1112.7	1247.9	1338.3	1297.7	1151.7	984.4
52.5°	620.8	661.1	720.6	806.9	918.5	1049.8	1175.7	1239.1	1162.5	1012.7	869.7
55°	552.9	588.1	646.4	726.1	831.9	953.9	1060.8	1082.8	983.3	835.7	719.7
57.5°	486.6	519.5	572.5	645.9	742.7	850.6	934.3	929.6	824.5	697.8	605.8
60°	441.6	473.7	520.8	592.4	680.6	773.7	845.3	828.2	724.0	614.9	537.3
62.5°	401.5	430.1	474.6	537.3	617.7	703.9	762.8	737.5	635.4	540.0	478.8
65°	342.2	366.2	404.3	457.7	524.5	595.6	641.1	608.5	521.3	447.0	397.8
67.5°	285.7	304.9	336.8	379.4	436.4	493.5	521.2	488.4	418.7	364.4	328.0
70°	249.7	266.8	291.4	329.4	379.1	427.2	448.1	418.7	358.8	312.3	286.1
72.5°	213.7	227.9	249.5	283.6	323.4	365.2	383.5	355.4	306.2	266.9	242.4
75°	165.2	174.8	189.8	213.3	244.9	278.1	288.2	263.6	232.0	202.6	186.6
77.5°	118.3	126.4	137.8	152.6	174.9	196.0	204.9	190.7	166.3	147.7	134.5
80°	90.9	95.1	104.8	117.1	134.8	148.1	154.0	144.9	127.8	113.9	103.7
82.5°	64.8	69.1	74.9	85.0	96.3	105.4	111.6	105.5	93.2	82.2	76.4
85°	31.5	34.2	37.4	41.7	50.2	55.6	55.1	51.3	46.5	42.2	39.1
87.5°	11.8	12.7	14.3	16.9	18.6	20.7	21.9	21.4	20.0	19.1	18.1
90°	3.3	5.5	7.5	9.7	11.6	13.5	15.4	17.2	19.1	20.4	21.7
92.5°	16.9	15.4	13.9	12.4	12.5	14.2	15.8	17.4	19.1	20.4	21.7
95°	67.2	66.4	65.6	64.8	59.3	49.3	39.2	29.2	19.1	20.4	21.7
97.5°	143.3	144.7	146.2	147.7	138.4	118.4	98.5	78.6	58.7	51.2	43.7
100°	199.9	200.7	201.5	202.3	203.3	204.3	205.4	206.4	207.5	168.0	128.5
102.5°	258.3	259.4	260.4	261.3	262.2	262.8	263.5	264.1	264.7	257.3	249.8
105°	351.6	352.8	353.8	354.8	355.4	355.4	355.4	355.4	355.4	355.4	355.4
107.5°	447.4	447.4	447.4	447.4	447.7	448.2	448.8	449.3	449.8	449.9	450.0
110°	510.4	510.4	510.4	510.4	510.6	511.2	511.7	512.2	512.8	512.0	511.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	570.2	570.8	571.5	572.1	572.6	572.9	573.2	573.5	573.9	572.8	571.8
115°	659.6	660.9	662.3	663.5	664.3	664.6	664.9	665.2	665.4	664.3	663.3
117.5°	750.0	750.0	750.0	749.9	750.4	751.4	752.3	753.4	754.4	753.0	751.6
120°	807.1	806.8	806.5	806.3	806.5	807.3	808.1	808.9	809.7	809.2	808.7
122.5°	858.9	859.9	860.9	861.9	862.6	863.0	863.3	863.7	864.1	863.6	863.0
125°	937.9	939.8	941.7	943.6	944.4	944.4	944.4	944.4	944.4	943.4	942.4
127.5°	1012.1	1013.4	1014.8	1016.1	1016.7	1016.5	1016.4	1016.2	1016.1	1015.4	1014.9
130°	1057.9	1059.2	1060.6	1061.8	1062.6	1063.0	1063.2	1063.4	1063.7	1063.0	1062.2
132.5°	1103.9	1105.4	1107.0	1108.5	1109.0	1108.4	1107.8	1107.2	1106.7	1106.5	1106.4
135°	1169.0	1170.7	1172.3	1173.9	1174.3	1173.9	1173.3	1172.7	1172.3	1171.7	1171.2
137.5°	1228.7	1230.1	1231.4	1232.9	1233.3	1232.8	1232.3	1231.8	1231.4	1231.5	1231.6
140°	1267.0	1267.5	1268.0	1268.6	1268.7	1268.4	1268.2	1267.9	1267.7	1268.2	1268.7
142.5°	1302.0	1302.3	1302.7	1303.0	1303.4	1303.8	1304.1	1304.5	1304.9	1305.0	1305.0
145°	1354.0	1354.6	1355.1	1355.7	1355.9	1355.9	1355.9	1355.9	1355.9	1356.1	1356.5
147.5°	1398.7	1398.6	1398.5	1398.4	1398.5	1398.8	1399.2	1399.5	1399.8	1400.1	1400.4
150°	1426.9	1426.4	1425.8	1425.3	1425.3	1425.8	1426.4	1426.9	1427.4	1428.0	1428.5
152.5°	1454.0	1452.8	1451.6	1450.4	1450.1	1450.6	1451.2	1451.8	1452.2	1452.8	1453.3
155°	1489.1	1487.5	1485.9	1484.3	1483.8	1484.3	1484.8	1485.3	1485.9	1486.7	1487.5
157.5°	1517.1	1516.2	1515.2	1514.3	1513.8	1513.9	1513.9	1513.9	1514.0	1514.9	1515.7
160°	1535.6	1534.0	1532.4	1530.8	1530.1	1530.4	1530.7	1530.9	1531.2	1532.2	1533.3
162.5°	1550.9	1549.3	1547.6	1546.0	1545.4	1545.6	1545.9	1546.2	1546.4	1547.9	1549.4
165°	1571.4	1569.7	1568.1	1566.5	1565.9	1566.1	1566.5	1566.7	1566.9	1568.5	1570.1
167.5°	1586.6	1584.9	1583.3	1581.6	1581.0	1581.2	1581.4	1581.8	1582.0	1583.9	1585.8
170°	1594.9	1593.1	1591.2	1589.4	1588.6	1588.8	1589.1	1589.4	1589.6	1591.7	1593.9
172.5°	1600.7	1598.8	1597.0	1595.1	1594.4	1594.9	1595.4	1595.9	1596.3	1598.2	1600.1
175°	1607.1	1605.5	1603.9	1602.3	1601.7	1602.0	1602.2	1602.5	1602.7	1604.9	1606.9
177.5°	1610.3	1609.0	1607.7	1606.5	1605.9	1606.1	1606.4	1606.5	1606.8	1608.3	1609.8
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1317.5	1320.9	1328.2	1325.6	1329.0	1330.7	1332.5
5°	1423.9	1441.0	1448.4	1447.4	1458.6	1456.0	1453.3
7.5°	1544.0	1562.0	1572.1	1584.6	1591.9	1592.4	1598.7
10°	1612.1	1635.6	1645.2	1658.6	1667.1	1672.0	1671.4
12.5°	1664.3	1682.7	1704.2	1710.8	1722.4	1728.4	1726.2
15°	1727.0	1756.4	1778.9	1790.1	1804.6	1808.9	1814.7
17.5°	1783.0	1822.5	1848.7	1883.6	1896.7	1904.7	1900.0
20°	1825.4	1877.3	1903.5	1945.2	1968.2	1980.5	1976.2
22.5°	1875.5	1931.6	1980.1	2016.2	2051.1	2067.8	2071.2
25°	1961.2	2038.2	2109.3	2157.0	2200.2	2210.3	2232.8
27.5°	2057.1	2147.8	2223.9	2273.9	2304.1	2315.4	2322.4
30°	2117.3	2207.7	2264.9	2297.0	2306.6	2305.6	2304.5
32.5°	2146.9	2203.5	2214.5	2205.4	2183.4	2164.8	2145.4
35°	2105.1	2062.8	1999.7	1918.4	1858.5	1798.2	1792.2
37.5°	1893.2	1758.2	1653.1	1535.8	1468.2	1426.3	1397.5
40°	1693.8	1540.4	1413.2	1314.2	1245.3	1218.0	1191.3
42.5°	1477.4	1330.9	1218.1	1135.4	1083.6	1053.4	1032.1
45°	1200.4	1071.0	982.8	922.9	881.7	858.2	844.8
47.5°	983.6	887.9	812.9	769.8	741.3	723.0	723.1
50°	867.3	775.9	726.1	691.9	667.3	652.8	655.5
52.5°	764.1	695.9	653.4	624.7	606.6	597.7	597.4
55°	639.0	589.8	562.0	541.1	528.8	518.6	520.8
57.5°	546.5	505.1	486.5	469.1	460.6	456.5	450.6
60°	489.3	457.2	441.1	427.2	418.7	415.4	409.6
62.5°	438.3	413.1	397.5	386.1	378.4	377.4	372.8
65°	368.4	349.1	335.3	329.9	321.9	319.7	319.7
67.5°	303.7	289.9	279.1	274.2	270.7	271.2	268.6
70°	263.1	251.8	244.9	239.6	236.9	237.4	235.3
72.5°	230.1	217.6	211.5	208.3	204.8	206.2	205.3
75°	174.3	167.9	164.7	161.4	159.3	158.3	157.2
77.5°	128.0	122.3	119.9	118.0	118.4	115.8	117.9
80°	98.9	94.1	92.5	89.8	89.3	89.3	88.7
82.5°	72.4	69.7	68.5	66.3	65.4	66.2	64.8
85°	37.4	35.3	34.8	34.8	33.7	32.6	35.3
87.5°	18.3	16.9	17.0	16.8	17.0	16.7	16.0
90°	23.1	24.4	25.4	26.2	27.0	27.8	28.6
92.5°	23.1	24.4	25.2	25.6	26.0	26.4	26.7
95°	23.1	24.4	25.0	25.0	25.0	25.0	25.0
97.5°	36.3	28.8	25.0	25.0	25.0	25.0	25.0
100°	89.0	49.6	29.3	28.2	27.2	26.1	25.0
102.5°	242.3	234.9	222.1	204.1	186.1	168.0	150.0
105°	355.4	355.4	355.2	355.0	354.7	354.4	354.2
107.5°	450.0	450.0	449.6	448.9	448.1	447.3	446.5
110°	510.4	509.6	509.4	509.6	509.8	510.2	510.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	570.8	569.8	569.1	568.8	568.4	568.0	567.6
115°	662.3	661.2	659.9	658.3	656.6	655.1	653.5
117.5°	750.3	748.8	747.8	747.2	746.5	745.8	745.0
120°	808.1	807.6	806.7	805.3	804.0	802.7	801.4
122.5°	862.5	862.0	860.9	859.4	857.9	856.3	854.8
125°	941.3	940.2	939.3	938.5	937.7	936.9	936.1
127.5°	1014.3	1013.7	1012.4	1010.4	1008.5	1006.5	1004.6
130°	1061.4	1060.6	1059.5	1058.2	1056.9	1055.5	1054.2
132.5°	1106.2	1106.0	1105.3	1104.0	1102.6	1101.3	1099.9
135°	1170.7	1170.1	1169.0	1167.4	1165.9	1164.3	1162.7
137.5°	1231.7	1231.8	1231.2	1229.8	1228.4	1227.0	1225.7
140°	1269.2	1269.8	1269.2	1267.7	1266.1	1264.5	1262.9
142.5°	1305.2	1305.3	1304.6	1302.9	1301.3	1299.7	1298.1
145°	1356.7	1356.9	1356.3	1354.7	1353.1	1351.5	1350.0
147.5°	1400.7	1401.1	1400.3	1398.4	1396.5	1394.6	1392.7
150°	1429.0	1429.6	1428.8	1426.6	1424.5	1422.4	1420.3
152.5°	1453.8	1454.4	1453.7	1451.8	1449.9	1448.0	1446.0
155°	1488.3	1489.1	1488.4	1486.3	1484.2	1482.0	1479.9
157.5°	1516.6	1517.4	1516.8	1514.7	1512.5	1510.4	1508.3
160°	1534.4	1535.4	1534.9	1532.8	1530.7	1528.5	1526.5
162.5°	1550.9	1552.4	1552.0	1549.7	1547.3	1545.0	1542.6
165°	1571.8	1573.4	1573.0	1571.0	1568.8	1566.7	1564.6
167.5°	1587.7	1589.6	1589.4	1587.0	1584.6	1582.2	1579.8
170°	1596.0	1598.1	1598.0	1595.6	1593.2	1590.8	1588.4
172.5°	1602.0	1603.9	1603.7	1601.3	1598.9	1596.6	1594.2
175°	1609.1	1611.2	1611.1	1608.7	1606.3	1603.9	1601.6
177.5°	1611.2	1612.7	1612.6	1610.9	1609.2	1607.5	1605.8
180°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7

(END OF REPORT)