

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: P333717-830

Luminaire Tested: **S125RDIW-S1090D1560U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333717-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9116.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

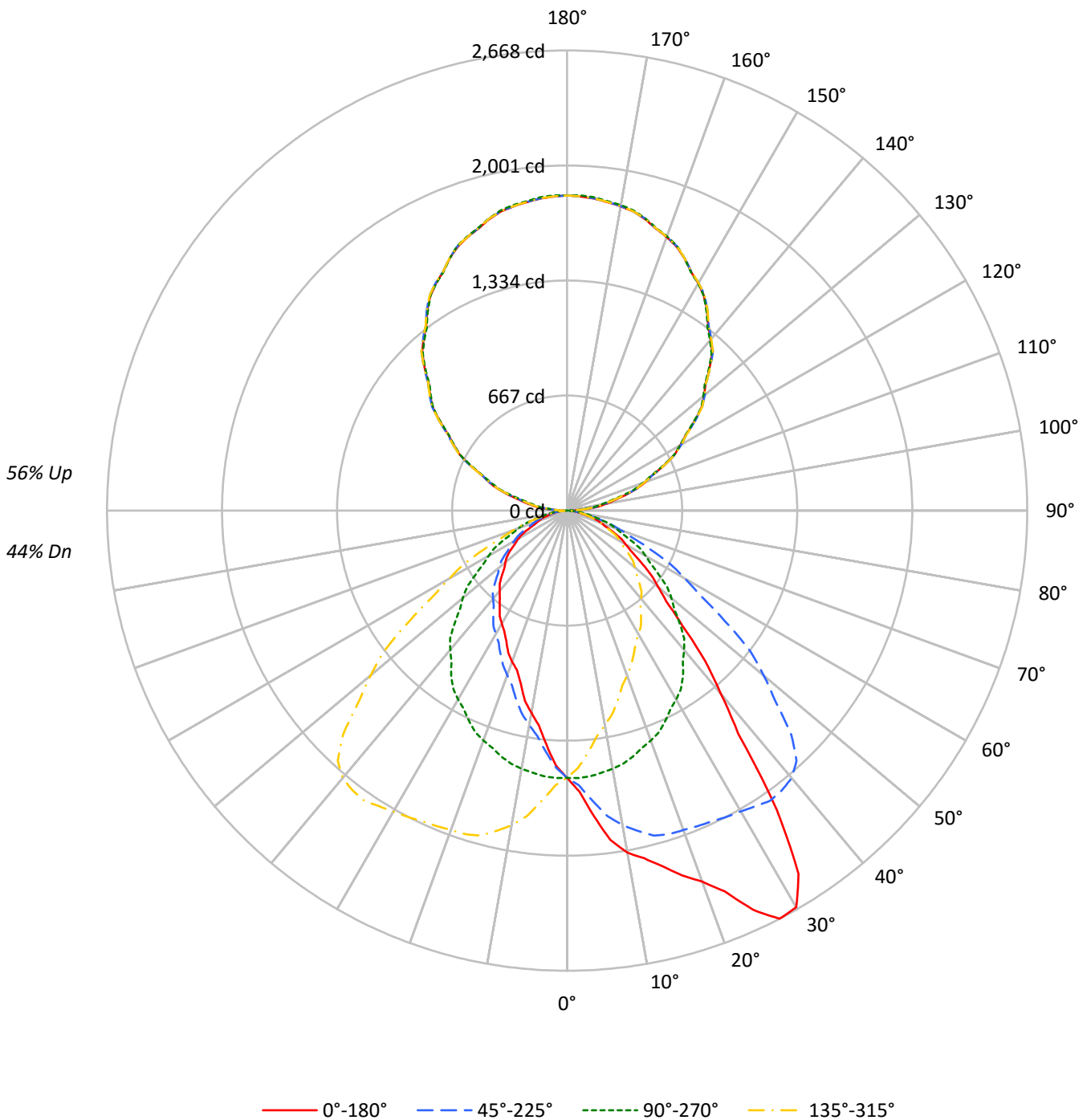
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333717-830

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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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	86	89	85	82	79	71	68	66	58	56	55	45	44	44	38				
2	88	81	75	71	81	75	70	65	62	59	56	51	48	46	40	39	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	33	30	29	27	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10008	10008	10008	10008
5°	11514	10022	8851	10022
10°	13208	9971	7810	9971
15°	14266	9868	6942	9868
20°	15731	9750	6410	9750
25°	18206	9592	5947	9592
30°	19812	9426	5646	9426
35°	16712	9234	5367	9234
40°	11671	8887	5127	8887
45°	8658	8419	4892	8419
50°	6903	7932	4691	7932
55°	5860	7328	4513	7328
60°	5062	6788	4224	6788
65°	4511	6203	3636	6203
70°	3964	5682	3316	5682
75°	3429	4921	3112	4921
80°	2600	4139	2600	4139
85°	2164	3253	2453	3253



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.6
10°-20°	435.5	4.8
20°-30°	690.5	7.6
30°-40°	832.7	9.1
40°-50°	743.6	8.2
50°-60°	570.3	6.3
60°-70°	370.6	4.1
70°-80°	180.2	2.0
80°-90°	47.0	0.5
90°-100°	122.3	1.3
100°-110°	361.3	4.0
110°-120°	611.9	6.7
120°-130°	805.3	8.8
130°-140°	902.4	9.9
140°-150°	884.4	9.7
150°-160°	742.8	8.1
160°-170°	493.8	5.4
170°-180°	172.8	1.9
0°-30°	1274.6	14.0
0°-40°	2107.3	23.1
0°-60°	3421.2	37.5
0°-90°	4019.0	44.1
90°-120°	1095.5	12.0
90°-150°	3687.7	40.5
90°-180°	5097.0	55.9
0°-180°	9116.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1550	1550	1550	1550	1550	
5°	1776	1546	1365	1546	1776	177
15°	2134	1476	1038	1476	2134	611
25°	2555	1346	835	1346	2555	1173
35°	2120	1171	681	1171	2120	1280
45°	948	922	536	922	948	756
55°	520	651	401	651	520	472
65°	295	406	238	406	295	294
75°	137	197	125	197	137	146
85°	29	44	33	44	29	34
90°	34	1	34	1	34	21
95°	122	92	122	92	122	124
105°	352	324	352	324	352	373
115°	618	613	618	613	618	612
125°	900	894	900	894	900	803
135°	1167	1163	1167	1163	1167	900
145°	1414	1409	1414	1409	1414	883
155°	1612	1612	1612	1612	1612	742
165°	1748	1753	1748	1753	1748	493
175°	1815	1822	1815	1822	1815	172
180°	1827	1827	1827	1827	1827	



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1630.1	1629.1	1631.2	1625.5	1626.1	1617.4	1617.4	1610.8	1602.1	1595.5	1592.4
5°	1776.1	1777.4	1774.9	1765.4	1759.0	1749.5	1738.6	1719.6	1703.6	1688.4	1676.3
7.5°	1926.6	1927.4	1919.0	1916.1	1900.1	1888.4	1864.3	1838.3	1815.3	1786.1	1763.7
10°	2014.1	2013.5	2004.5	1997.5	1983.6	1965.8	1942.2	1911.7	1883.0	1851.2	1820.7
12.5°	2065.0	2063.3	2060.5	2052.0	2039.0	2023.3	2003.3	1973.2	1938.0	1903.2	1867.6
15°	2133.7	2129.2	2121.0	2110.2	2091.7	2073.2	2051.0	2024.3	1990.6	1951.1	1918.1
17.5°	2218.7	2218.8	2206.1	2191.0	2166.0	2133.4	2099.0	2056.0	2010.2	1966.8	1931.6
20°	2288.9	2287.0	2274.3	2245.0	2216.4	2175.7	2136.3	2083.4	2027.4	1970.9	1926.9
22.5°	2389.7	2384.7	2371.4	2333.1	2288.7	2236.3	2176.0	2111.4	2043.7	1979.4	1921.8
25°	2554.9	2551.0	2524.9	2480.4	2418.1	2337.2	2258.3	2169.9	2072.7	1988.0	1918.1
27.5°	2667.8	2663.6	2644.3	2607.3	2549.8	2464.7	2358.0	2239.8	2118.3	2001.9	1901.0
30°	2656.7	2666.2	2663.6	2646.5	2603.2	2526.9	2428.3	2295.3	2150.9	2014.1	1893.9
32.5°	2496.8	2505.4	2527.7	2561.5	2564.0	2533.5	2459.8	2337.0	2187.5	2031.9	1888.3
35°	2119.7	2131.2	2174.4	2242.5	2331.6	2405.9	2421.2	2355.0	2220.8	2053.5	1879.9
37.5°	1629.6	1692.1	1728.6	1800.3	1934.9	2071.7	2203.4	2251.9	2194.7	2044.7	1866.2
40°	1384.3	1399.6	1464.4	1545.2	1658.5	1801.0	1988.7	2124.1	2128.6	2024.3	1844.8
42.5°	1184.8	1204.1	1248.7	1313.2	1410.1	1552.7	1746.4	1925.1	2008.0	1968.3	1816.8
45°	947.9	962.5	994.9	1044.6	1119.0	1236.7	1403.4	1610.1	1774.2	1838.5	1741.8
47.5°	778.6	786.6	814.8	852.6	907.7	993.4	1122.5	1301.9	1498.8	1636.8	1623.2
50°	687.0	696.0	717.6	746.2	792.7	865.2	968.3	1117.8	1320.7	1489.2	1523.0
52.5°	615.8	623.2	636.7	663.7	702.1	757.8	841.0	976.3	1158.9	1338.1	1416.1
55°	520.4	525.5	536.3	551.6	582.1	622.2	694.1	787.6	935.2	1115.8	1230.3
57.5°	441.8	444.3	451.2	465.3	486.4	515.7	567.6	646.9	752.7	915.4	1041.8
60°	391.9	394.5	403.3	412.8	429.4	456.1	496.8	552.1	653.9	788.2	916.1
62.5°	352.1	353.7	357.5	367.0	381.5	402.2	434.2	479.4	560.3	678.3	799.0
65°	295.2	295.8	297.1	304.7	313.6	328.9	349.9	381.7	442.8	531.9	638.7
67.5°	240.4	241.4	245.8	248.5	257.8	265.8	278.1	302.5	345.4	405.5	488.6
70°	209.9	209.3	213.8	217.0	220.1	229.7	237.9	257.7	284.4	330.2	399.5
72.5°	181.4	179.7	181.7	182.9	187.0	193.5	201.8	213.9	234.5	266.1	319.1
75°	137.4	138.1	138.1	139.3	142.5	145.1	147.6	153.9	165.4	186.4	215.0
77.5°	96.4	95.4	98.1	98.5	100.4	103.2	105.4	107.9	112.6	121.2	136.0
80°	69.9	69.9	70.6	72.5	71.9	73.1	76.3	78.9	84.6	89.7	94.8
82.5°	53.7	53.2	53.8	54.2	54.1	55.3	56.5	57.0	59.2	61.7	65.2
85°	29.2	29.2	29.9	29.9	30.5	30.5	31.2	31.2	31.2	31.8	32.4
87.5°	18.0	17.3	16.6	16.4	16.8	17.5	16.7	15.8	15.6	15.3	15.3
90°	34.1	33.2	32.2	31.3	30.3	29.0	27.5	25.9	24.3	22.7	20.5
92.5°	67.1	66.4	65.7	65.0	64.3	63.0	60.8	58.7	56.6	54.6	51.8
95°	122.2	121.6	121.0	120.4	119.7	118.3	116.1	113.9	111.7	109.4	106.3
97.5°	185.4	185.0	184.6	184.3	183.9	182.6	180.5	178.4	176.3	174.3	169.9
100°	233.1	232.5	231.9	231.2	230.6	228.8	226.0	223.2	220.4	217.4	213.4
102.5°	280.9	280.0	279.1	278.2	277.4	275.3	272.3	269.2	266.1	263.0	260.9
105°	352.5	351.6	350.6	349.7	348.7	347.3	345.4	343.6	341.7	339.8	337.8
107.5°	425.8	425.9	426.0	426.0	426.1	425.7	424.7	423.8	422.8	421.9	420.5
110°	480.5	480.8	481.1	481.5	481.7	481.5	480.5	479.6	478.5	477.6	476.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	534.0	534.5	535.1	535.6	536.2	536.2	535.8	535.4	534.9	534.5	533.3
115°	618.4	618.7	619.0	619.3	619.6	619.9	620.3	620.6	620.9	621.2	620.6
117.5°	700.8	702.1	703.3	704.6	705.9	706.3	706.2	705.9	705.6	705.4	704.7
120°	757.7	758.9	760.2	761.5	762.7	763.4	763.4	763.4	763.4	763.4	763.0
122.5°	814.5	815.5	816.5	817.6	818.6	819.2	819.4	819.7	819.9	820.2	819.4
125°	899.8	900.1	900.4	900.8	901.1	901.5	902.2	902.9	903.4	904.1	903.8
127.5°	981.7	982.3	983.0	983.5	984.2	984.7	985.1	985.3	985.6	986.0	985.6
130°	1036.3	1036.9	1037.6	1038.2	1038.8	1039.2	1039.6	1039.9	1040.2	1040.6	1039.9
132.5°	1087.4	1088.4	1089.2	1090.1	1091.0	1091.6	1091.9	1092.2	1092.5	1092.9	1093.0
135°	1167.1	1168.3	1169.6	1170.8	1172.1	1172.7	1172.7	1172.7	1172.7	1172.7	1172.4
137.5°	1244.9	1246.5	1248.1	1249.7	1251.3	1251.9	1251.5	1251.1	1250.8	1250.4	1249.6
140°	1295.0	1296.6	1298.2	1299.8	1301.3	1301.7	1301.2	1300.5	1299.9	1299.3	1298.4
142.5°	1342.7	1344.3	1346.0	1347.5	1349.1	1349.7	1349.2	1348.9	1348.5	1348.1	1347.0
145°	1414.4	1415.3	1416.3	1417.2	1418.1	1418.6	1418.6	1418.6	1418.6	1418.6	1417.7
147.5°	1475.6	1477.7	1479.8	1482.0	1484.1	1484.8	1484.0	1483.3	1482.5	1481.8	1481.0
150°	1521.0	1521.6	1522.3	1522.9	1523.5	1523.9	1523.9	1523.9	1523.9	1523.9	1522.6
152.5°	1558.6	1559.7	1560.9	1562.0	1563.1	1563.3	1562.5	1561.8	1561.0	1560.3	1559.7
155°	1612.0	1613.5	1615.1	1616.7	1618.3	1618.4	1617.2	1615.9	1614.7	1613.4	1613.1
157.5°	1656.6	1658.7	1660.8	1662.8	1665.0	1665.4	1664.2	1662.8	1661.6	1660.3	1660.0
160°	1687.3	1688.9	1690.5	1692.1	1693.7	1693.8	1692.5	1691.3	1690.0	1688.8	1688.5
162.5°	1713.4	1715.3	1717.1	1719.0	1720.8	1721.0	1719.5	1718.0	1716.5	1714.9	1714.9
165°	1748.4	1750.4	1752.3	1754.2	1756.1	1756.3	1755.1	1753.8	1752.6	1751.3	1751.0
167.5°	1776.3	1778.3	1780.3	1782.2	1784.1	1784.1	1782.3	1780.4	1778.5	1776.6	1776.6
170°	1791.1	1793.3	1795.5	1797.7	1800.0	1800.1	1798.2	1796.3	1794.4	1792.5	1792.5
172.5°	1803.6	1805.5	1807.5	1809.5	1811.5	1811.5	1809.6	1807.7	1805.8	1803.9	1803.9
175°	1815.2	1817.5	1819.7	1821.9	1824.1	1824.3	1822.4	1820.5	1818.5	1816.7	1816.7
177.5°	1822.1	1823.8	1825.6	1827.4	1829.2	1829.3	1827.8	1826.3	1824.8	1823.3	1823.4
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1592.4	1588.8	1582.2	1576.1	1568.5	1561.9	1557.4	1551.7	1544.6	1536.0	1528.8
5°	1662.9	1648.9	1630.5	1614.6	1594.2	1578.3	1561.8	1545.9	1529.9	1509.6	1491.8
7.5°	1741.1	1712.1	1684.0	1648.7	1616.6	1588.0	1560.5	1532.7	1505.4	1476.5	1448.7
10°	1788.9	1753.9	1715.1	1670.6	1629.8	1591.0	1555.4	1520.4	1483.6	1451.0	1416.1
12.5°	1833.7	1788.5	1744.1	1687.9	1639.0	1591.6	1546.2	1502.6	1463.2	1421.1	1383.6
15°	1874.2	1829.6	1780.0	1711.3	1643.2	1585.9	1532.5	1475.9	1426.9	1379.8	1337.8
17.5°	1889.8	1843.0	1785.5	1719.4	1645.0	1573.0	1504.1	1442.1	1384.4	1329.6	1282.3
20°	1883.7	1838.5	1779.3	1716.4	1636.8	1561.8	1487.3	1418.6	1354.4	1296.5	1246.2
22.5°	1868.9	1822.2	1765.1	1698.6	1623.1	1543.4	1464.0	1390.6	1323.3	1263.4	1208.6
25°	1846.8	1783.2	1724.7	1659.7	1587.9	1509.0	1426.9	1346.1	1274.2	1213.1	1153.4
27.5°	1823.7	1744.4	1669.9	1605.4	1529.5	1459.1	1380.0	1297.1	1221.5	1159.3	1098.0
30°	1802.9	1713.8	1631.7	1558.6	1486.7	1419.9	1344.8	1264.0	1186.5	1122.2	1059.9
32.5°	1776.9	1682.2	1592.0	1507.7	1438.3	1372.1	1304.1	1226.9	1151.3	1085.1	1021.7
35°	1744.4	1623.5	1525.5	1435.8	1358.9	1294.6	1233.5	1171.2	1095.5	1026.8	965.1
37.5°	1701.6	1564.4	1451.0	1353.4	1272.1	1207.7	1159.4	1102.5	1033.4	967.6	910.3
40°	1675.7	1521.7	1397.6	1301.0	1215.7	1147.6	1102.5	1054.1	991.2	929.4	872.1
42.5°	1641.1	1482.5	1343.7	1242.9	1157.2	1091.7	1045.9	1003.7	950.9	892.8	831.4
45°	1573.2	1406.6	1260.8	1152.7	1066.2	1001.9	959.3	921.8	881.7	828.3	774.9
47.5°	1484.9	1327.3	1174.9	1056.8	972.0	912.4	871.0	841.4	812.8	767.3	715.4
50°	1414.2	1262.2	1113.2	998.8	908.4	851.8	813.0	789.5	763.4	722.1	678.8
52.5°	1330.7	1195.0	1049.1	932.1	846.9	793.8	756.5	733.0	711.5	677.8	636.5
55°	1199.2	1080.2	946.6	840.4	762.1	708.7	673.1	650.8	638.1	609.4	577.0
57.5°	1047.4	962.1	844.3	741.9	672.7	619.9	593.8	574.9	560.4	540.3	517.4
60°	941.5	881.7	776.1	678.8	615.2	564.9	541.4	525.5	512.1	494.9	477.1
62.5°	834.2	790.6	698.8	615.2	556.7	514.5	492.5	478.2	462.8	451.2	433.9
65°	690.2	651.4	587.8	522.3	468.3	434.5	418.6	405.9	396.3	383.6	371.6
67.5°	537.0	521.1	477.2	432.1	393.2	363.3	349.5	340.6	329.1	321.5	313.2
70°	442.8	435.2	404.0	374.1	337.8	317.4	304.7	300.9	286.9	279.3	273.5
72.5°	359.3	355.7	337.8	317.1	291.5	273.7	261.9	257.7	248.7	242.6	238.9
75°	246.2	247.5	244.3	230.9	221.4	209.9	199.7	197.2	190.9	185.8	182.6
77.5°	155.7	162.2	162.5	161.8	158.1	151.0	146.8	145.0	138.6	136.8	136.0
80°	106.9	113.9	120.3	119.6	118.3	116.4	113.2	111.3	108.1	106.2	105.0
82.5°	71.3	77.8	83.0	86.5	86.2	84.4	82.2	81.3	80.7	79.3	79.0
85°	33.7	35.0	36.9	41.4	44.5	45.1	44.5	43.9	41.9	42.6	43.3
87.5°	15.4	14.9	15.0	14.5	13.5	15.6	16.6	16.6	16.0	15.6	15.0
90°	18.3	16.1	13.9	11.5	9.0	6.5	4.0	1.4	4.0	6.5	9.0
92.5°	49.1	46.5	43.7	41.5	39.7	38.0	36.2	34.4	36.2	38.0	39.7
95°	103.1	100.0	96.8	94.9	94.3	93.7	93.0	92.4	93.0	93.7	94.3
97.5°	165.6	161.2	156.8	154.6	154.3	154.0	153.7	153.5	153.7	154.0	154.3
100°	209.2	205.2	201.0	199.0	199.0	199.0	199.0	199.0	199.0	199.0	199.0
102.5°	258.8	256.7	254.7	253.0	251.7	250.4	249.2	247.9	249.2	250.4	251.7
105°	335.9	334.0	332.2	330.5	328.9	327.3	325.6	324.1	325.6	327.3	328.9
107.5°	419.0	417.5	416.1	414.5	413.0	411.4	409.8	408.2	409.8	411.4	413.0
110°	475.7	474.8	473.8	472.6	471.0	469.4	467.9	466.3	467.9	469.4	471.0



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	532.1	530.8	529.7	528.7	527.8	527.1	526.2	525.4	526.2	527.1	527.8
115°	619.9	619.3	618.7	617.7	616.4	615.2	614.0	612.7	614.0	615.2	616.4
117.5°	704.2	703.6	703.0	702.5	701.9	701.3	700.8	700.2	700.8	701.3	701.9
120°	762.7	762.4	762.0	761.1	759.6	758.0	756.4	754.8	756.4	758.0	759.6
122.5°	818.6	817.7	816.9	816.2	815.7	815.1	814.5	814.0	814.5	815.1	815.7
125°	903.4	903.1	902.9	901.7	899.8	898.0	896.0	894.1	896.0	898.0	899.8
127.5°	985.2	984.9	984.5	983.7	982.6	981.6	980.5	979.4	980.5	981.6	982.6
130°	1039.2	1038.7	1038.0	1036.9	1035.3	1033.8	1032.2	1030.6	1032.2	1033.8	1035.3
132.5°	1093.1	1093.3	1093.3	1092.1	1089.6	1086.9	1084.4	1081.8	1084.4	1086.9	1089.6
135°	1172.1	1171.8	1171.5	1170.4	1168.5	1166.6	1164.7	1162.8	1164.7	1166.6	1168.5
137.5°	1249.0	1248.3	1247.5	1246.3	1244.4	1242.6	1240.9	1239.0	1240.9	1242.6	1244.4
140°	1297.4	1296.4	1295.4	1294.2	1292.6	1291.0	1289.5	1287.9	1289.5	1291.0	1292.6
142.5°	1345.8	1344.5	1343.3	1342.1	1340.8	1339.4	1338.1	1336.8	1338.1	1339.4	1340.8
145°	1416.7	1415.8	1414.9	1413.8	1412.5	1411.3	1409.9	1408.7	1409.9	1411.3	1412.5
147.5°	1480.3	1479.5	1478.8	1478.0	1477.3	1476.6	1475.9	1475.3	1475.9	1476.6	1477.3
150°	1521.4	1520.0	1518.8	1518.3	1518.6	1519.0	1519.3	1519.6	1519.3	1519.0	1518.6
152.5°	1559.2	1558.8	1558.2	1557.7	1557.3	1556.9	1556.4	1555.9	1556.4	1556.9	1557.3
155°	1612.8	1612.5	1612.1	1612.0	1612.0	1612.0	1612.0	1612.0	1612.0	1612.0	1612.0
157.5°	1659.7	1659.3	1659.1	1659.3	1659.9	1660.7	1661.3	1662.0	1661.3	1660.7	1659.9
160°	1688.1	1687.8	1687.5	1687.8	1688.8	1689.7	1690.6	1691.6	1690.6	1689.7	1688.8
162.5°	1714.8	1714.7	1714.7	1715.0	1715.7	1716.4	1717.0	1717.8	1717.0	1716.4	1715.7
165°	1750.7	1750.4	1750.0	1750.2	1750.9	1751.4	1752.1	1752.8	1752.1	1751.4	1750.9
167.5°	1776.6	1776.6	1776.6	1777.3	1778.5	1779.8	1781.0	1782.3	1781.0	1779.8	1778.5
170°	1792.5	1792.5	1792.5	1793.2	1794.4	1795.6	1797.0	1798.2	1797.0	1795.6	1794.4
172.5°	1803.9	1803.9	1803.9	1804.5	1805.8	1807.0	1808.4	1809.6	1808.4	1807.0	1805.8
175°	1816.7	1816.7	1816.7	1817.3	1818.5	1819.9	1821.1	1822.4	1821.1	1819.9	1818.5
177.5°	1823.7	1824.0	1824.2	1824.9	1825.9	1826.9	1827.9	1828.9	1827.9	1826.9	1825.9
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1523.7	1516.6	1511.6	1501.4	1494.2	1491.2	1485.5	1484.0	1489.6	1485.5	1485.1
5°	1478.5	1460.0	1445.4	1430.7	1414.9	1404.7	1389.4	1386.9	1383.0	1377.2	1376.0
7.5°	1424.1	1400.1	1381.2	1357.1	1336.1	1319.2	1300.0	1291.0	1286.1	1278.7	1268.8
10°	1387.4	1358.9	1333.4	1309.2	1283.2	1262.2	1243.0	1228.4	1218.9	1209.9	1206.2
12.5°	1351.3	1322.2	1289.6	1260.4	1231.2	1207.7	1186.6	1177.0	1166.5	1156.0	1147.2
15°	1295.2	1256.4	1220.8	1187.0	1162.2	1136.8	1116.4	1102.5	1086.6	1082.1	1065.0
17.5°	1235.7	1197.6	1155.9	1120.4	1091.7	1063.7	1041.2	1025.4	1013.4	997.0	989.1
20°	1198.5	1153.4	1112.7	1080.2	1048.4	1015.3	992.4	979.0	967.6	954.2	947.9
22.5°	1158.9	1114.7	1073.0	1034.9	1002.6	970.1	953.8	939.9	926.9	914.5	906.2
25°	1100.5	1056.0	1012.1	972.7	939.0	915.4	896.4	880.4	873.5	861.4	852.4
27.5°	1042.9	995.6	950.1	910.7	884.3	861.0	845.4	832.7	820.1	809.5	801.8
30°	1005.8	957.4	907.8	876.7	848.7	826.3	809.2	797.1	787.6	778.1	772.3
32.5°	968.7	918.8	874.7	841.0	814.5	795.3	777.6	766.1	756.0	745.5	738.7
35°	909.1	858.2	822.6	789.5	763.4	745.6	733.5	717.0	708.7	701.1	694.1
37.5°	853.8	806.4	767.9	738.9	716.1	698.5	682.9	673.9	663.7	656.9	651.0
40°	813.0	769.8	734.8	704.3	687.7	668.0	653.4	641.9	634.2	625.4	619.0
42.5°	776.4	736.1	702.2	674.7	654.1	637.4	623.3	611.9	602.2	595.9	590.5
45°	724.6	684.5	651.4	625.9	606.9	591.0	576.4	570.6	557.9	550.3	547.7
47.5°	671.0	635.2	603.2	579.8	560.2	545.2	531.4	519.7	512.7	505.2	501.1
50°	634.9	600.5	570.6	547.7	528.7	512.1	499.4	491.7	482.2	475.2	470.1
52.5°	598.8	566.9	537.1	515.2	498.6	482.1	467.9	460.2	451.2	446.7	443.2
55°	547.1	513.4	488.0	466.3	449.1	433.9	420.5	412.8	407.2	402.7	401.4
57.5°	488.6	461.8	438.2	418.7	400.9	386.5	374.8	367.6	362.5	361.8	358.1
60°	450.4	426.2	404.6	383.6	368.3	355.0	344.8	336.5	331.4	330.8	329.5
62.5°	412.3	389.1	369.0	350.5	336.8	324.0	314.2	305.0	301.9	298.8	296.0
65°	355.6	334.6	318.1	303.4	288.8	278.0	268.4	262.8	255.7	251.9	245.0
67.5°	300.0	283.7	267.9	255.5	244.0	233.8	225.8	217.4	212.6	209.5	204.4
70°	263.3	250.6	234.8	221.4	212.4	204.2	197.8	188.3	185.1	182.6	180.0
72.5°	228.8	217.5	204.2	193.4	184.5	176.7	169.4	164.9	161.7	159.2	157.7
75°	180.0	169.2	157.8	150.1	143.7	137.4	133.6	130.4	129.1	128.5	125.9
77.5°	132.2	126.5	117.3	111.2	107.0	104.4	101.0	99.3	99.2	96.4	95.6
80°	101.1	97.9	90.3	87.8	84.6	82.1	80.1	77.0	73.8	72.5	70.6
82.5°	75.2	72.0	69.0	64.8	62.2	60.7	58.8	57.6	58.1	56.3	55.3
85°	40.1	36.9	35.6	35.0	33.7	35.0	34.3	33.7	33.1	32.4	33.1
87.5°	15.0	15.5	15.5	16.9	15.8	16.8	17.1	16.9	17.2	17.5	17.2
90°	11.5	13.9	16.1	18.3	20.5	22.7	24.3	25.9	27.5	29.0	30.3
92.5°	41.5	43.7	46.5	49.1	51.8	54.6	56.6	58.7	60.8	63.0	64.3
95°	94.9	96.8	100.0	103.1	106.3	109.4	111.7	113.9	116.1	118.3	119.7
97.5°	154.6	156.8	161.2	165.6	169.9	174.3	176.3	178.4	180.5	182.6	183.9
100°	199.0	201.0	205.2	209.2	213.4	217.4	220.4	223.2	226.0	228.8	230.6
102.5°	253.0	254.7	256.7	258.8	260.9	263.0	266.1	269.2	272.3	275.3	277.4
105°	330.5	332.2	334.0	335.9	337.8	339.8	341.7	343.6	345.4	347.3	348.7
107.5°	414.5	416.1	417.5	419.0	420.5	421.9	422.8	423.8	424.7	425.7	426.1
110°	472.6	473.8	474.8	475.7	476.6	477.6	478.5	479.6	480.5	481.5	481.7



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	528.7	529.7	530.8	532.1	533.3	534.5	534.9	535.4	535.8	536.2	536.2
115°	617.7	618.7	619.3	619.9	620.6	621.2	620.9	620.6	620.3	619.9	619.6
117.5°	702.5	703.0	703.6	704.2	704.7	705.4	705.6	705.9	706.2	706.3	705.9
120°	761.1	762.0	762.4	762.7	763.0	763.4	763.4	763.4	763.4	763.4	762.7
122.5°	816.2	816.9	817.7	818.6	819.4	820.2	819.9	819.7	819.4	819.2	818.6
125°	901.7	902.9	903.1	903.4	903.8	904.1	903.4	902.9	902.2	901.5	901.1
127.5°	983.7	984.5	984.9	985.2	985.6	986.0	985.6	985.3	985.1	984.7	984.2
130°	1036.9	1038.0	1038.7	1039.2	1039.9	1040.6	1040.2	1039.9	1039.6	1039.2	1038.8
132.5°	1092.1	1093.3	1093.3	1093.1	1093.0	1092.9	1092.5	1092.2	1091.9	1091.6	1091.0
135°	1170.4	1171.5	1171.8	1172.1	1172.4	1172.7	1172.7	1172.7	1172.7	1172.7	1172.1
137.5°	1246.3	1247.5	1248.3	1249.0	1249.6	1250.4	1250.8	1251.1	1251.5	1251.9	1251.3
140°	1294.2	1295.4	1296.4	1297.4	1298.4	1299.3	1299.9	1300.5	1301.2	1301.7	1301.3
142.5°	1342.1	1343.3	1344.5	1345.8	1347.0	1348.1	1348.5	1348.9	1349.2	1349.7	1349.1
145°	1413.8	1414.9	1415.8	1416.7	1417.7	1418.6	1418.6	1418.6	1418.6	1418.6	1418.1
147.5°	1478.0	1478.8	1479.5	1480.3	1481.0	1481.8	1482.5	1483.3	1484.0	1484.8	1484.1
150°	1518.3	1518.8	1520.0	1521.4	1522.6	1523.9	1523.9	1523.9	1523.9	1523.9	1523.5
152.5°	1557.7	1558.2	1558.8	1559.2	1559.7	1560.3	1561.0	1561.8	1562.5	1563.3	1563.1
155°	1612.0	1612.1	1612.5	1612.8	1613.1	1613.4	1614.7	1615.9	1617.2	1618.4	1618.3
157.5°	1659.3	1659.1	1659.3	1659.7	1660.0	1660.3	1661.6	1662.8	1664.2	1665.4	1665.0
160°	1687.8	1687.5	1687.8	1688.1	1688.5	1688.8	1690.0	1691.3	1692.5	1693.8	1693.7
162.5°	1715.0	1714.7	1714.7	1714.8	1714.9	1714.9	1716.5	1718.0	1719.5	1721.0	1720.8
165°	1750.2	1750.0	1750.4	1750.7	1751.0	1751.3	1752.6	1753.8	1755.1	1756.3	1756.1
167.5°	1777.3	1776.6	1776.6	1776.6	1776.6	1776.6	1778.5	1780.4	1782.3	1784.1	1784.1
170°	1793.2	1792.5	1792.5	1792.5	1792.5	1792.5	1794.4	1796.3	1798.2	1800.1	1800.0
172.5°	1804.5	1803.9	1803.9	1803.9	1803.9	1803.9	1805.8	1807.7	1809.6	1811.5	1811.5
175°	1817.3	1816.7	1816.7	1816.7	1816.7	1816.7	1818.5	1820.5	1822.4	1824.3	1824.1
177.5°	1824.9	1824.2	1824.0	1823.7	1823.4	1823.3	1824.8	1826.3	1827.8	1829.3	1829.2
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1484.5	1478.9	1477.4	1479.4	1477.4	1478.9	1484.5	1485.1	1485.5	1489.6	1484.0
5°	1369.7	1363.3	1366.5	1365.2	1366.5	1363.3	1369.7	1376.0	1377.2	1383.0	1386.9
7.5°	1268.7	1260.7	1252.4	1255.0	1252.4	1260.7	1268.7	1268.8	1278.7	1286.1	1291.0
10°	1197.9	1191.6	1187.7	1190.9	1187.7	1191.6	1197.9	1206.2	1209.9	1218.9	1228.4
12.5°	1138.3	1134.5	1131.2	1129.8	1131.2	1134.5	1138.3	1147.2	1156.0	1166.5	1177.0
15°	1057.3	1049.7	1046.5	1038.2	1046.5	1049.7	1057.3	1065.0	1082.1	1086.6	1102.5
17.5°	982.6	980.1	971.8	968.3	971.8	980.1	982.6	989.1	997.0	1013.4	1025.4
20°	938.3	935.8	927.6	932.6	927.6	935.8	938.3	947.9	954.2	967.6	979.0
22.5°	901.7	896.1	893.4	891.9	893.4	896.1	901.7	906.2	914.5	926.9	939.9
25°	849.9	841.6	838.5	834.6	838.5	841.6	849.9	852.4	861.4	873.5	880.4
27.5°	798.2	793.8	789.6	788.6	789.6	793.8	798.2	801.8	809.5	820.1	832.7
30°	764.7	760.3	757.1	757.1	757.1	760.3	764.7	772.3	778.1	787.6	797.1
32.5°	734.6	731.2	728.0	727.5	728.0	731.2	734.6	738.7	745.5	756.0	766.1
35°	690.9	685.8	684.5	680.7	684.5	685.8	690.9	694.1	701.1	708.7	717.0
37.5°	645.5	641.2	641.1	640.7	641.1	641.2	645.5	651.0	656.9	663.7	673.9
40°	616.4	613.2	612.7	608.1	612.7	613.2	616.4	619.0	625.4	634.2	641.9
42.5°	585.4	583.7	581.5	579.7	581.5	583.7	585.4	590.5	595.9	602.2	611.9
45°	543.3	538.9	538.9	535.6	538.9	538.9	543.3	547.7	550.3	557.9	570.6
47.5°	499.7	496.3	496.7	493.4	496.7	496.3	499.7	501.1	505.2	512.7	519.7
50°	470.8	468.8	468.3	466.9	468.3	468.8	470.8	470.1	475.2	482.2	491.7
52.5°	441.8	440.8	443.3	440.5	443.3	440.8	441.8	443.2	446.7	451.2	460.2
55°	402.7	400.8	404.6	400.8	404.6	400.8	402.7	401.4	402.7	407.2	412.8
57.5°	357.8	356.0	359.4	357.5	359.4	356.0	357.8	358.1	361.8	362.5	367.6
60°	328.3	324.4	326.3	327.0	326.3	324.4	328.3	329.5	330.8	331.4	336.5
62.5°	293.1	290.9	292.3	289.4	292.3	290.9	293.1	296.0	298.8	301.9	305.0
65°	243.6	241.8	239.2	237.9	239.2	241.8	243.6	245.0	251.9	255.7	262.8
67.5°	204.7	200.1	200.0	201.0	200.0	200.1	204.7	204.4	209.5	212.6	217.4
70°	176.3	176.3	175.6	175.6	175.6	176.3	176.3	180.0	182.6	185.1	188.3
72.5°	156.4	155.9	154.7	154.2	154.7	155.9	156.4	157.7	159.2	161.7	164.9
75°	125.9	126.6	125.4	124.7	125.4	126.6	125.9	125.9	128.5	129.1	130.4
77.5°	93.0	90.3	91.7	90.3	91.7	90.3	93.0	95.6	96.4	99.2	99.3
80°	70.6	69.9	71.9	69.9	71.9	69.9	70.6	70.6	72.5	73.8	77.0
82.5°	55.9	55.2	56.1	54.7	56.1	55.2	55.9	55.3	56.3	58.1	57.6
85°	33.7	33.1	32.4	33.1	32.4	33.1	33.7	33.1	32.4	33.1	33.7
87.5°	18.0	17.6	17.8	18.0	17.8	17.6	18.0	17.2	17.5	17.2	16.9
90°	31.3	32.2	33.2	34.1	33.2	32.2	31.3	30.3	29.0	27.5	25.9
92.5°	65.0	65.7	66.4	67.1	66.4	65.7	65.0	64.3	63.0	60.8	58.7
95°	120.4	121.0	121.6	122.2	121.6	121.0	120.4	119.7	118.3	116.1	113.9
97.5°	184.3	184.6	185.0	185.4	185.0	184.6	184.3	183.9	182.6	180.5	178.4
100°	231.2	231.9	232.5	233.1	232.5	231.9	231.2	230.6	228.8	226.0	223.2
102.5°	278.2	279.1	280.0	280.9	280.0	279.1	278.2	277.4	275.3	272.3	269.2
105°	349.7	350.6	351.6	352.5	351.6	350.6	349.7	348.7	347.3	345.4	343.6
107.5°	426.0	426.0	425.9	425.8	425.9	426.0	426.0	426.1	425.7	424.7	423.8
110°	481.5	481.1	480.8	480.5	480.8	481.1	481.5	481.7	481.5	480.5	479.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	535.6	535.1	534.5	534.0	534.5	535.1	535.6	536.2	536.2	535.8	535.4
115°	619.3	619.0	618.7	618.4	618.7	619.0	619.3	619.6	619.9	620.3	620.6
117.5°	704.6	703.3	702.1	700.8	702.1	703.3	704.6	705.9	706.3	706.2	705.9
120°	761.5	760.2	758.9	757.7	758.9	760.2	761.5	762.7	763.4	763.4	763.4
122.5°	817.6	816.5	815.5	814.5	815.5	816.5	817.6	818.6	819.2	819.4	819.7
125°	900.8	900.4	900.1	899.8	900.1	900.4	900.8	901.1	901.5	902.2	902.9
127.5°	983.5	983.0	982.3	981.7	982.3	983.0	983.5	984.2	984.7	985.1	985.3
130°	1038.2	1037.6	1036.9	1036.3	1036.9	1037.6	1038.2	1038.8	1039.2	1039.6	1039.9
132.5°	1090.1	1089.2	1088.4	1087.4	1088.4	1089.2	1090.1	1091.0	1091.6	1091.9	1092.2
135°	1170.8	1169.6	1168.3	1167.1	1168.3	1169.6	1170.8	1172.1	1172.7	1172.7	1172.7
137.5°	1249.7	1248.1	1246.5	1244.9	1246.5	1248.1	1249.7	1251.3	1251.9	1251.5	1251.1
140°	1299.8	1298.2	1296.6	1295.0	1296.6	1298.2	1299.8	1301.3	1301.7	1301.2	1300.5
142.5°	1347.5	1346.0	1344.3	1342.7	1344.3	1346.0	1347.5	1349.1	1349.7	1349.2	1348.9
145°	1417.2	1416.3	1415.3	1414.4	1415.3	1416.3	1417.2	1418.1	1418.6	1418.6	1418.6
147.5°	1482.0	1479.8	1477.7	1475.6	1477.7	1479.8	1482.0	1484.1	1484.8	1484.0	1483.3
150°	1522.9	1522.3	1521.6	1521.0	1521.6	1522.3	1522.9	1523.5	1523.9	1523.9	1523.9
152.5°	1562.0	1560.9	1559.7	1558.6	1559.7	1560.9	1562.0	1563.1	1563.3	1562.5	1561.8
155°	1616.7	1615.1	1613.5	1612.0	1613.5	1615.1	1616.7	1618.3	1618.4	1617.2	1615.9
157.5°	1662.8	1660.8	1658.7	1656.6	1658.7	1660.8	1662.8	1665.0	1665.4	1664.2	1662.8
160°	1692.1	1690.5	1688.9	1687.3	1688.9	1690.5	1692.1	1693.7	1693.8	1692.5	1691.3
162.5°	1719.0	1717.1	1715.3	1713.4	1715.3	1717.1	1719.0	1720.8	1721.0	1719.5	1718.0
165°	1754.2	1752.3	1750.4	1748.4	1750.4	1752.3	1754.2	1756.1	1756.3	1755.1	1753.8
167.5°	1782.2	1780.3	1778.3	1776.3	1778.3	1780.3	1782.2	1784.1	1784.1	1782.3	1780.4
170°	1797.7	1795.5	1793.3	1791.1	1793.3	1795.5	1797.7	1800.0	1800.1	1798.2	1796.3
172.5°	1809.5	1807.5	1805.5	1803.6	1805.5	1807.5	1809.5	1811.5	1811.5	1809.6	1807.7
175°	1821.9	1819.7	1817.5	1815.2	1817.5	1819.7	1821.9	1824.1	1824.3	1822.4	1820.5
177.5°	1827.4	1825.6	1823.8	1822.1	1823.8	1825.6	1827.4	1829.2	1829.3	1827.8	1826.3
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1485.5	1491.2	1494.2	1501.4	1511.6	1516.6	1523.7	1528.8	1536.0	1544.6	1551.7
5°	1389.4	1404.7	1414.9	1430.7	1445.4	1460.0	1478.5	1491.8	1509.6	1529.9	1545.9
7.5°	1300.0	1319.2	1336.1	1357.1	1381.2	1400.1	1424.1	1448.7	1476.5	1505.4	1532.7
10°	1243.0	1262.2	1283.2	1309.2	1333.4	1358.9	1387.4	1416.1	1451.0	1483.6	1520.4
12.5°	1186.6	1207.7	1231.2	1260.4	1289.6	1322.2	1351.3	1383.6	1421.1	1463.2	1502.6
15°	1116.4	1136.8	1162.2	1187.0	1220.8	1256.4	1295.2	1337.8	1379.8	1426.9	1475.9
17.5°	1041.2	1063.7	1091.7	1120.4	1155.9	1197.6	1235.7	1282.3	1329.6	1384.4	1442.1
20°	992.4	1015.3	1048.4	1080.2	1112.7	1153.4	1198.5	1246.2	1296.5	1354.4	1418.6
22.5°	953.8	970.1	1002.6	1034.9	1073.0	1114.7	1158.9	1208.6	1263.4	1323.3	1390.6
25°	896.4	915.4	939.0	972.7	1012.1	1056.0	1100.5	1153.4	1213.1	1274.2	1346.1
27.5°	845.4	861.0	884.3	910.7	950.1	995.6	1042.9	1098.0	1159.3	1221.5	1297.1
30°	809.2	826.3	848.7	876.7	907.8	957.4	1005.8	1059.9	1122.2	1186.5	1264.0
32.5°	777.6	795.3	814.5	841.0	874.7	918.8	968.7	1021.7	1085.1	1151.3	1226.9
35°	733.5	745.6	763.4	789.5	822.6	858.2	909.1	965.1	1026.8	1095.5	1171.2
37.5°	682.9	698.5	716.1	738.9	767.9	806.4	853.8	910.3	967.6	1033.4	1102.5
40°	653.4	668.0	687.7	704.3	734.8	769.8	813.0	872.1	929.4	991.2	1054.1
42.5°	623.3	637.4	654.1	674.7	702.2	736.1	776.4	831.4	892.8	950.9	1003.7
45°	576.4	591.0	606.9	625.9	651.4	684.5	724.6	774.9	828.3	881.7	921.8
47.5°	531.4	545.2	560.2	579.8	603.2	635.2	671.0	715.4	767.3	812.8	841.4
50°	499.4	512.1	528.7	547.7	570.6	600.5	634.9	678.8	722.1	763.4	789.5
52.5°	467.9	482.1	498.6	515.2	537.1	566.9	598.8	636.5	677.8	711.5	733.0
55°	420.5	433.9	449.1	466.3	488.0	513.4	547.1	577.0	609.4	638.1	650.8
57.5°	374.8	386.5	400.9	418.7	438.2	461.8	488.6	517.4	540.3	560.4	574.9
60°	344.8	355.0	368.3	383.6	404.6	426.2	450.4	477.1	494.9	512.1	525.5
62.5°	314.2	324.0	336.8	350.5	369.0	389.1	412.3	433.9	451.2	462.8	478.2
65°	268.4	278.0	288.8	303.4	318.1	334.6	355.6	371.6	383.6	396.3	405.9
67.5°	225.8	233.8	244.0	255.5	267.9	283.7	300.0	313.2	321.5	329.1	340.6
70°	197.8	204.2	212.4	221.4	234.8	250.6	263.3	273.5	279.3	286.9	300.9
72.5°	169.4	176.7	184.5	193.4	204.2	217.5	228.8	238.9	242.6	248.7	257.7
75°	133.6	137.4	143.7	150.1	157.8	169.2	180.0	182.6	185.8	190.9	197.2
77.5°	101.0	104.4	107.0	111.2	117.3	126.5	132.2	136.0	136.8	138.6	145.0
80°	80.1	82.1	84.6	87.8	90.3	97.9	101.1	105.0	106.2	108.1	111.3
82.5°	58.8	60.7	62.2	64.8	69.0	72.0	75.2	79.0	79.3	80.7	81.3
85°	34.3	35.0	33.7	35.0	35.6	36.9	40.1	43.3	42.6	41.9	43.9
87.5°	17.1	16.8	15.8	16.9	15.5	15.5	15.0	15.0	15.6	16.0	16.6
90°	24.3	22.7	20.5	18.3	16.1	13.9	11.5	9.0	6.5	4.0	1.4
92.5°	56.6	54.6	51.8	49.1	46.5	43.7	41.5	39.7	38.0	36.2	34.4
95°	111.7	109.4	106.3	103.1	100.0	96.8	94.9	94.3	93.7	93.0	92.4
97.5°	176.3	174.3	169.9	165.6	161.2	156.8	154.6	154.3	154.0	153.7	153.5
100°	220.4	217.4	213.4	209.2	205.2	201.0	199.0	199.0	199.0	199.0	199.0
102.5°	266.1	263.0	260.9	258.8	256.7	254.7	253.0	251.7	250.4	249.2	247.9
105°	341.7	339.8	337.8	335.9	334.0	332.2	330.5	328.9	327.3	325.6	324.1
107.5°	422.8	421.9	420.5	419.0	417.5	416.1	414.5	413.0	411.4	409.8	408.2
110°	478.5	477.6	476.6	475.7	474.8	473.8	472.6	471.0	469.4	467.9	466.3



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	534.9	534.5	533.3	532.1	530.8	529.7	528.7	527.8	527.1	526.2	525.4
115°	620.9	621.2	620.6	619.9	619.3	618.7	617.7	616.4	615.2	614.0	612.7
117.5°	705.6	705.4	704.7	704.2	703.6	703.0	702.5	701.9	701.3	700.8	700.2
120°	763.4	763.4	763.0	762.7	762.4	762.0	761.1	759.6	758.0	756.4	754.8
122.5°	819.9	820.2	819.4	818.6	817.7	816.9	816.2	815.7	815.1	814.5	814.0
125°	903.4	904.1	903.8	903.4	903.1	902.9	901.7	899.8	898.0	896.0	894.1
127.5°	985.6	986.0	985.6	985.2	984.9	984.5	983.7	982.6	981.6	980.5	979.4
130°	1040.2	1040.6	1039.9	1039.2	1038.7	1038.0	1036.9	1035.3	1033.8	1032.2	1030.6
132.5°	1092.5	1092.9	1093.0	1093.1	1093.3	1093.3	1092.1	1089.6	1086.9	1084.4	1081.8
135°	1172.7	1172.7	1172.4	1172.1	1171.8	1171.5	1170.4	1168.5	1166.6	1164.7	1162.8
137.5°	1250.8	1250.4	1249.6	1249.0	1248.3	1247.5	1246.3	1244.4	1242.6	1240.9	1239.0
140°	1299.9	1299.3	1298.4	1297.4	1296.4	1295.4	1294.2	1292.6	1291.0	1289.5	1287.9
142.5°	1348.5	1348.1	1347.0	1345.8	1344.5	1343.3	1342.1	1340.8	1339.4	1338.1	1336.8
145°	1418.6	1418.6	1417.7	1416.7	1415.8	1414.9	1413.8	1412.5	1411.3	1409.9	1408.7
147.5°	1482.5	1481.8	1481.0	1480.3	1479.5	1478.8	1478.0	1477.3	1476.6	1475.9	1475.3
150°	1523.9	1523.9	1522.6	1521.4	1520.0	1518.8	1518.3	1518.6	1519.0	1519.3	1519.6
152.5°	1561.0	1560.3	1559.7	1559.2	1558.8	1558.2	1557.7	1557.3	1556.9	1556.4	1555.9
155°	1614.7	1613.4	1613.1	1612.8	1612.5	1612.1	1612.0	1612.0	1612.0	1612.0	1612.0
157.5°	1661.6	1660.3	1660.0	1659.7	1659.3	1659.1	1659.3	1659.9	1660.7	1661.3	1662.0
160°	1690.0	1688.8	1688.5	1688.1	1687.8	1687.5	1687.8	1688.8	1689.7	1690.6	1691.6
162.5°	1716.5	1714.9	1714.9	1714.8	1714.7	1714.7	1715.0	1715.7	1716.4	1717.0	1717.8
165°	1752.6	1751.3	1751.0	1750.7	1750.4	1750.0	1750.2	1750.9	1751.4	1752.1	1752.8
167.5°	1778.5	1776.6	1776.6	1776.6	1776.6	1776.6	1777.3	1778.5	1779.8	1781.0	1782.3
170°	1794.4	1792.5	1792.5	1792.5	1792.5	1792.5	1793.2	1794.4	1795.6	1797.0	1798.2
172.5°	1805.8	1803.9	1803.9	1803.9	1803.9	1803.9	1804.5	1805.8	1807.0	1808.4	1809.6
175°	1818.5	1816.7	1816.7	1816.7	1816.7	1816.7	1817.3	1818.5	1819.9	1821.1	1822.4
177.5°	1824.8	1823.3	1823.4	1823.7	1824.0	1824.2	1824.9	1825.9	1826.9	1827.9	1828.9
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1557.4	1561.9	1568.5	1576.1	1582.2	1588.8	1592.4	1592.4	1595.5	1602.1	1610.8
5°	1561.8	1578.3	1594.2	1614.6	1630.5	1648.9	1662.9	1676.3	1688.4	1703.6	1719.6
7.5°	1560.5	1588.0	1616.6	1648.7	1684.0	1712.1	1741.1	1763.7	1786.1	1815.3	1838.3
10°	1555.4	1591.0	1629.8	1670.6	1715.1	1753.9	1788.9	1820.7	1851.2	1883.0	1911.7
12.5°	1546.2	1591.6	1639.0	1687.9	1744.1	1788.5	1833.7	1867.6	1903.2	1938.0	1973.2
15°	1532.5	1585.9	1643.2	1711.3	1780.0	1829.6	1874.2	1918.1	1951.1	1990.6	2024.3
17.5°	1504.1	1573.0	1645.0	1719.4	1785.5	1843.0	1889.8	1931.6	1966.8	2010.2	2056.0
20°	1487.3	1561.8	1636.8	1716.4	1779.3	1838.5	1883.7	1926.9	1970.9	2027.4	2083.4
22.5°	1464.0	1543.4	1623.1	1698.6	1765.1	1822.2	1868.9	1921.8	1979.4	2043.7	2111.4
25°	1426.9	1509.0	1587.9	1659.7	1724.7	1783.2	1846.8	1918.1	1988.0	2072.7	2169.9
27.5°	1380.0	1459.1	1529.5	1605.4	1669.9	1744.4	1823.7	1901.0	2001.9	2118.3	2239.8
30°	1344.8	1419.9	1486.7	1558.6	1631.7	1713.8	1802.9	1893.9	2014.1	2150.9	2295.3
32.5°	1304.1	1372.1	1438.3	1507.7	1592.0	1682.2	1776.9	1888.3	2031.9	2187.5	2337.0
35°	1233.5	1294.6	1358.9	1435.8	1525.5	1623.5	1744.4	1879.9	2053.5	2220.8	2355.0
37.5°	1159.4	1207.7	1272.1	1353.4	1451.0	1564.4	1701.6	1866.2	2044.7	2194.7	2251.9
40°	1102.5	1147.6	1215.7	1301.0	1397.6	1521.7	1675.7	1844.8	2024.3	2128.6	2124.1
42.5°	1045.9	1091.7	1157.2	1242.9	1343.7	1482.5	1641.1	1816.8	1968.3	2008.0	1925.1
45°	959.3	1001.9	1066.2	1152.7	1260.8	1406.6	1573.2	1741.8	1838.5	1774.2	1610.1
47.5°	871.0	912.4	972.0	1056.8	1174.9	1327.3	1484.9	1623.2	1636.8	1498.8	1301.9
50°	813.0	851.8	908.4	998.8	1113.2	1262.2	1414.2	1523.0	1489.2	1320.7	1117.8
52.5°	756.5	793.8	846.9	932.1	1049.1	1195.0	1330.7	1416.1	1338.1	1158.9	976.3
55°	673.1	708.7	762.1	840.4	946.6	1080.2	1199.2	1230.3	1115.8	935.2	787.6
57.5°	593.8	619.9	672.7	741.9	844.3	962.1	1047.4	1041.8	915.4	752.7	646.9
60°	541.4	564.9	615.2	678.8	776.1	881.7	941.5	916.1	788.2	653.9	552.1
62.5°	492.5	514.5	556.7	615.2	698.8	790.6	834.2	799.0	678.3	560.3	479.4
65°	418.6	434.5	468.3	522.3	587.8	651.4	690.2	638.7	531.9	442.8	381.7
67.5°	349.5	363.3	393.2	432.1	477.2	521.1	537.0	488.6	405.5	345.4	302.5
70°	304.7	317.4	337.8	374.1	404.0	435.2	442.8	399.5	330.2	284.4	257.7
72.5°	261.9	273.7	291.5	317.1	337.8	355.7	359.3	319.1	266.1	234.5	213.9
75°	199.7	209.9	221.4	230.9	244.3	247.5	246.2	215.0	186.4	165.4	153.9
77.5°	146.8	151.0	158.1	161.8	162.5	162.2	155.7	136.0	121.2	112.6	107.9
80°	113.2	116.4	118.3	119.6	120.3	113.9	106.9	94.8	89.7	84.6	78.9
82.5°	82.2	84.4	86.2	86.5	83.0	77.8	71.3	65.2	61.7	59.2	57.0
85°	44.5	45.1	44.5	41.4	36.9	35.0	33.7	32.4	31.8	31.2	31.2
87.5°	16.6	15.6	13.5	14.5	15.0	14.9	15.4	15.3	15.3	15.6	15.8
90°	4.0	6.5	9.0	11.5	13.9	16.1	18.3	20.5	22.7	24.3	25.9
92.5°	36.2	38.0	39.7	41.5	43.7	46.5	49.1	51.8	54.6	56.6	58.7
95°	93.0	93.7	94.3	94.9	96.8	100.0	103.1	106.3	109.4	111.7	113.9
97.5°	153.7	154.0	154.3	154.6	156.8	161.2	165.6	169.9	174.3	176.3	178.4
100°	199.0	199.0	199.0	199.0	201.0	205.2	209.2	213.4	217.4	220.4	223.2
102.5°	249.2	250.4	251.7	253.0	254.7	256.7	258.8	260.9	263.0	266.1	269.2
105°	325.6	327.3	328.9	330.5	332.2	334.0	335.9	337.8	339.8	341.7	343.6
107.5°	409.8	411.4	413.0	414.5	416.1	417.5	419.0	420.5	421.9	422.8	423.8
110°	467.9	469.4	471.0	472.6	473.8	474.8	475.7	476.6	477.6	478.5	479.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	526.2	527.1	527.8	528.7	529.7	530.8	532.1	533.3	534.5	534.9	535.4
115°	614.0	615.2	616.4	617.7	618.7	619.3	619.9	620.6	621.2	620.9	620.6
117.5°	700.8	701.3	701.9	702.5	703.0	703.6	704.2	704.7	705.4	705.6	705.9
120°	756.4	758.0	759.6	761.1	762.0	762.4	762.7	763.0	763.4	763.4	763.4
122.5°	814.5	815.1	815.7	816.2	816.9	817.7	818.6	819.4	820.2	819.9	819.7
125°	896.0	898.0	899.8	901.7	902.9	903.1	903.4	903.8	904.1	903.4	902.9
127.5°	980.5	981.6	982.6	983.7	984.5	984.9	985.2	985.6	986.0	985.6	985.3
130°	1032.2	1033.8	1035.3	1036.9	1038.0	1038.7	1039.2	1039.9	1040.6	1040.2	1039.9
132.5°	1084.4	1086.9	1089.6	1092.1	1093.3	1093.3	1093.1	1093.0	1092.9	1092.5	1092.2
135°	1164.7	1166.6	1168.5	1170.4	1171.5	1171.8	1172.1	1172.4	1172.7	1172.7	1172.7
137.5°	1240.9	1242.6	1244.4	1246.3	1247.5	1248.3	1249.0	1249.6	1250.4	1250.8	1251.1
140°	1289.5	1291.0	1292.6	1294.2	1295.4	1296.4	1297.4	1298.4	1299.3	1299.9	1300.5
142.5°	1338.1	1339.4	1340.8	1342.1	1343.3	1344.5	1345.8	1347.0	1348.1	1348.5	1348.9
145°	1409.9	1411.3	1412.5	1413.8	1414.9	1415.8	1416.7	1417.7	1418.6	1418.6	1418.6
147.5°	1475.9	1476.6	1477.3	1478.0	1478.8	1479.5	1480.3	1481.0	1481.8	1482.5	1483.3
150°	1519.3	1519.0	1518.6	1518.3	1518.8	1520.0	1521.4	1522.6	1523.9	1523.9	1523.9
152.5°	1556.4	1556.9	1557.3	1557.7	1558.2	1558.8	1559.2	1559.7	1560.3	1561.0	1561.8
155°	1612.0	1612.0	1612.0	1612.0	1612.1	1612.5	1612.8	1613.1	1613.4	1614.7	1615.9
157.5°	1661.3	1660.7	1659.9	1659.3	1659.1	1659.3	1659.7	1660.0	1660.3	1661.6	1662.8
160°	1690.6	1689.7	1688.8	1687.8	1687.5	1687.8	1688.1	1688.5	1688.8	1690.0	1691.3
162.5°	1717.0	1716.4	1715.7	1715.0	1714.7	1714.7	1714.8	1714.9	1714.9	1716.5	1718.0
165°	1752.1	1751.4	1750.9	1750.2	1750.0	1750.4	1750.7	1751.0	1751.3	1752.6	1753.8
167.5°	1781.0	1779.8	1778.5	1777.3	1776.6	1776.6	1776.6	1776.6	1776.6	1778.5	1780.4
170°	1797.0	1795.6	1794.4	1793.2	1792.5	1792.5	1792.5	1792.5	1792.5	1794.4	1796.3
172.5°	1808.4	1807.0	1805.8	1804.5	1803.9	1803.9	1803.9	1803.9	1803.9	1805.8	1807.7
175°	1821.1	1819.9	1818.5	1817.3	1816.7	1816.7	1816.7	1816.7	1816.7	1818.5	1820.5
177.5°	1827.9	1826.9	1825.9	1824.9	1824.2	1824.0	1823.7	1823.4	1823.3	1824.8	1826.3
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1617.4	1617.4	1626.1	1625.5	1631.2	1629.1	1630.1
5°	1738.6	1749.5	1759.0	1765.4	1774.9	1777.4	1776.1
7.5°	1864.3	1888.4	1900.1	1916.1	1919.0	1927.4	1926.6
10°	1942.2	1965.8	1983.6	1997.5	2004.5	2013.5	2014.1
12.5°	2003.3	2023.3	2039.0	2052.0	2060.5	2063.3	2065.0
15°	2051.0	2073.2	2091.7	2110.2	2121.0	2129.2	2133.7
17.5°	2099.0	2133.4	2166.0	2191.0	2206.1	2218.8	2218.7
20°	2136.3	2175.7	2216.4	2245.0	2274.3	2287.0	2288.9
22.5°	2176.0	2236.3	2288.7	2333.1	2371.4	2384.7	2389.7
25°	2258.3	2337.2	2418.1	2480.4	2524.9	2551.0	2554.9
27.5°	2358.0	2464.7	2549.8	2607.3	2644.3	2663.6	2667.8
30°	2428.3	2526.9	2603.2	2646.5	2663.6	2666.2	2656.7
32.5°	2459.8	2533.5	2564.0	2561.5	2527.7	2505.4	2496.8
35°	2421.2	2405.9	2331.6	2242.5	2174.4	2131.2	2119.7
37.5°	2203.4	2071.7	1934.9	1800.3	1728.6	1692.1	1629.6
40°	1988.7	1801.0	1658.5	1545.2	1464.4	1399.6	1384.3
42.5°	1746.4	1552.7	1410.1	1313.2	1248.7	1204.1	1184.8
45°	1403.4	1236.7	1119.0	1044.6	994.9	962.5	947.9
47.5°	1122.5	993.4	907.7	852.6	814.8	786.6	778.6
50°	968.3	865.2	792.7	746.2	717.6	696.0	687.0
52.5°	841.0	757.8	702.1	663.7	636.7	623.2	615.8
55°	694.1	622.2	582.1	551.6	536.3	525.5	520.4
57.5°	567.6	515.7	486.4	465.3	451.2	444.3	441.8
60°	496.8	456.1	429.4	412.8	403.3	394.5	391.9
62.5°	434.2	402.2	381.5	367.0	357.5	353.7	352.1
65°	349.9	328.9	313.6	304.7	297.1	295.8	295.2
67.5°	278.1	265.8	257.8	248.5	245.8	241.4	240.4
70°	237.9	229.7	220.1	217.0	213.8	209.3	209.9
72.5°	201.8	193.5	187.0	182.9	181.7	179.7	181.4
75°	147.6	145.1	142.5	139.3	138.1	138.1	137.4
77.5°	105.4	103.2	100.4	98.5	98.1	95.4	96.4
80°	76.3	73.1	71.9	72.5	70.6	69.9	69.9
82.5°	56.5	55.3	54.1	54.2	53.8	53.2	53.7
85°	31.2	30.5	30.5	29.9	29.9	29.2	29.2
87.5°	16.7	17.5	16.8	16.4	16.6	17.3	18.0
90°	27.5	29.0	30.3	31.3	32.2	33.2	34.1
92.5°	60.8	63.0	64.3	65.0	65.7	66.4	67.1
95°	116.1	118.3	119.7	120.4	121.0	121.6	122.2
97.5°	180.5	182.6	183.9	184.3	184.6	185.0	185.4
100°	226.0	228.8	230.6	231.2	231.9	232.5	233.1
102.5°	272.3	275.3	277.4	278.2	279.1	280.0	280.9
105°	345.4	347.3	348.7	349.7	350.6	351.6	352.5
107.5°	424.7	425.7	426.1	426.0	426.0	425.9	425.8
110°	480.5	481.5	481.7	481.5	481.1	480.8	480.5



TEST NUMBER: P333717-830

CATALOG NUMBER: S125RDIW-S1090D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	535.8	536.2	536.2	535.6	535.1	534.5	534.0
115°	620.3	619.9	619.6	619.3	619.0	618.7	618.4
117.5°	706.2	706.3	705.9	704.6	703.3	702.1	700.8
120°	763.4	763.4	762.7	761.5	760.2	758.9	757.7
122.5°	819.4	819.2	818.6	817.6	816.5	815.5	814.5
125°	902.2	901.5	901.1	900.8	900.4	900.1	899.8
127.5°	985.1	984.7	984.2	983.5	983.0	982.3	981.7
130°	1039.6	1039.2	1038.8	1038.2	1037.6	1036.9	1036.3
132.5°	1091.9	1091.6	1091.0	1090.1	1089.2	1088.4	1087.4
135°	1172.7	1172.7	1172.1	1170.8	1169.6	1168.3	1167.1
137.5°	1251.5	1251.9	1251.3	1249.7	1248.1	1246.5	1244.9
140°	1301.2	1301.7	1301.3	1299.8	1298.2	1296.6	1295.0
142.5°	1349.2	1349.7	1349.1	1347.5	1346.0	1344.3	1342.7
145°	1418.6	1418.6	1418.1	1417.2	1416.3	1415.3	1414.4
147.5°	1484.0	1484.8	1484.1	1482.0	1479.8	1477.7	1475.6
150°	1523.9	1523.9	1523.5	1522.9	1522.3	1521.6	1521.0
152.5°	1562.5	1563.3	1563.1	1562.0	1560.9	1559.7	1558.6
155°	1617.2	1618.4	1618.3	1616.7	1615.1	1613.5	1612.0
157.5°	1664.2	1665.4	1665.0	1662.8	1660.8	1658.7	1656.6
160°	1692.5	1693.8	1693.7	1692.1	1690.5	1688.9	1687.3
162.5°	1719.5	1721.0	1720.8	1719.0	1717.1	1715.3	1713.4
165°	1755.1	1756.3	1756.1	1754.2	1752.3	1750.4	1748.4
167.5°	1782.3	1784.1	1784.1	1782.2	1780.3	1778.3	1776.3
170°	1798.2	1800.1	1800.0	1797.7	1795.5	1793.3	1791.1
172.5°	1809.6	1811.5	1811.5	1809.5	1807.5	1805.5	1803.6
175°	1822.4	1824.3	1824.1	1821.9	1819.7	1817.5	1815.2
177.5°	1827.8	1829.3	1829.2	1827.4	1825.6	1823.8	1822.1
180°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6

(END OF REPORT)