

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: P333713-840

Luminaire Tested: **S125RDIW-S1090D1340U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333713-840
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-S1090D1340U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9002.6 lumens
Efficiency: N/A
Efficacy: 129.0 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

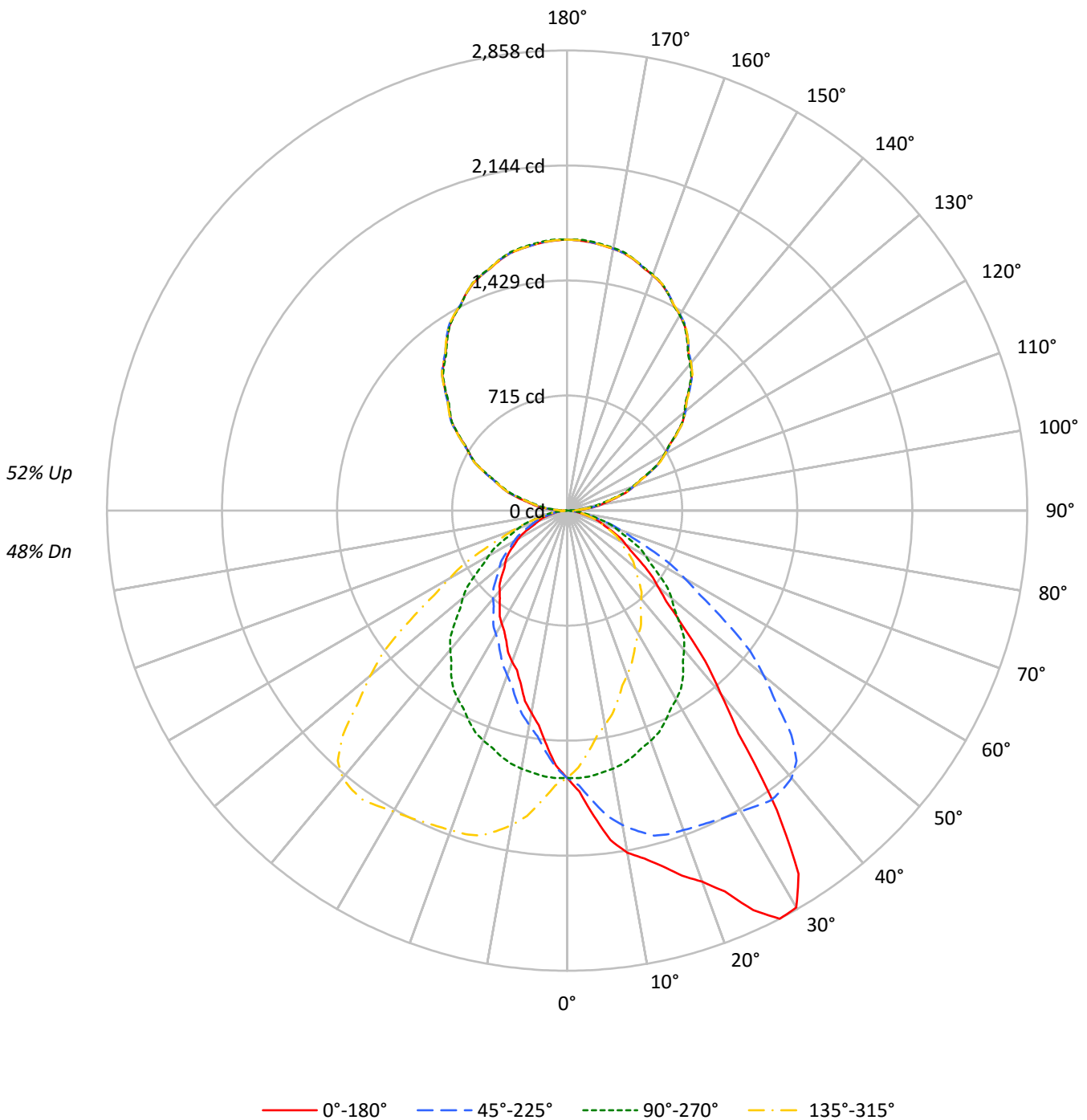
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

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	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	48	47	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40	35
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	46	41	42	39	36	35	32	30	26
5	69	57	49	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	24	44	33	27	22	29	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10723	10723	10723	10723
5°	12337	10738	9483	10738
10°	14152	10683	8368	10683
15°	15285	10573	7438	10573
20°	16855	10446	6868	10446
25°	19506	10278	6372	10278
30°	21227	10100	6049	10100
35°	17906	9894	5750	9894
40°	12505	9522	5493	9522
45°	9276	9020	5242	9020
50°	7396	8499	5027	8499
55°	6277	7851	4835	7851
60°	5424	7272	4525	7272
65°	4834	6645	3895	6645
70°	4247	6086	3552	6086
75°	3673	5273	3334	5273
80°	2786	4437	2786	4437
85°	2319	3490	2623	3490



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.8
10°-20°	466.6	5.2
20°-30°	739.8	8.2
30°-40°	892.2	9.9
40°-50°	796.7	8.9
50°-60°	611.0	6.8
60°-70°	397.1	4.4
70°-80°	193.0	2.1
80°-90°	49.8	0.6
90°-100°	112.7	1.3
100°-110°	332.9	3.7
110°-120°	563.9	6.3
120°-130°	742.1	8.2
130°-140°	831.6	9.2
140°-150°	815.0	9.1
150°-160°	684.5	7.6
160°-170°	455.0	5.1
170°-180°	159.2	1.8
0°-30°	1365.7	15.2
0°-40°	2257.9	25.1
0°-60°	3665.6	40.7
0°-90°	4305.5	47.8
90°-120°	1009.6	11.2
90°-150°	3398.3	37.7
90°-180°	4697.0	52.2
0°-180°	9002.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1903	1656	1463	1656	1903	190
15°	2286	1581	1112	1581	2286	655
25°	2737	1442	894	1442	2737	1257
35°	2271	1255	729	1255	2271	1372
45°	1016	988	574	988	1016	810
55°	558	697	429	697	558	506
65°	316	435	255	435	316	315
75°	147	211	134	211	147	157
85°	31	47	35	47	31	37
90°	31	1	31	1	31	20
95°	113	85	113	85	113	115
105°	325	299	325	299	325	344
115°	570	565	570	565	570	564
125°	829	824	829	824	829	740
135°	1076	1072	1076	1072	1076	830
145°	1303	1298	1303	1298	1303	814
155°	1486	1486	1486	1486	1486	684
165°	1611	1615	1611	1615	1611	454
175°	1673	1679	1673	1679	1673	159
180°	1683	1683	1683	1683	1683	



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1746.6	1745.5	1747.7	1741.6	1742.2	1732.9	1732.9	1725.9	1716.6	1709.5	1706.2
5°	1903.0	1904.4	1901.7	1891.5	1884.6	1874.4	1862.8	1842.4	1825.3	1809.0	1796.0
7.5°	2064.2	2065.1	2056.1	2053.0	2035.8	2023.3	1997.5	1969.6	1945.0	1913.7	1889.7
10°	2158.0	2157.3	2147.7	2140.2	2125.3	2106.2	2080.9	2048.2	2017.5	1983.5	1950.8
12.5°	2212.5	2210.7	2207.7	2198.6	2184.6	2167.8	2146.4	2114.2	2076.4	2039.1	2000.9
15°	2286.1	2281.3	2272.5	2260.9	2241.1	2221.3	2197.5	2168.9	2132.7	2090.4	2055.1
17.5°	2377.1	2377.3	2363.7	2347.5	2320.7	2285.8	2249.0	2202.8	2153.7	2107.3	2069.5
20°	2452.4	2450.3	2436.7	2405.4	2374.7	2331.1	2288.9	2232.2	2172.2	2111.6	2064.6
22.5°	2560.4	2555.1	2540.8	2499.7	2452.2	2396.0	2331.4	2262.2	2189.7	2120.8	2059.1
25°	2737.3	2733.2	2705.2	2657.6	2590.8	2504.2	2419.6	2324.9	2220.7	2130.0	2055.1
27.5°	2858.3	2853.9	2833.2	2793.5	2731.9	2640.8	2526.4	2399.7	2269.6	2144.9	2036.8
30°	2846.4	2856.6	2853.9	2835.5	2789.1	2707.3	2601.7	2459.2	2304.5	2158.0	2029.1
32.5°	2675.1	2684.3	2708.3	2744.4	2747.1	2714.4	2635.4	2504.0	2343.8	2177.1	2023.2
35°	2271.1	2283.4	2329.8	2402.7	2498.1	2577.8	2594.1	2523.2	2379.4	2200.2	2014.2
37.5°	1746.0	1813.0	1852.1	1928.8	2073.1	2219.7	2360.8	2412.8	2351.5	2190.7	1999.5
40°	1483.2	1499.5	1569.0	1655.6	1777.0	1929.7	2130.7	2275.8	2280.7	2168.9	1976.6
42.5°	1269.4	1290.1	1337.9	1406.9	1510.9	1663.6	1871.2	2062.6	2151.4	2108.9	1946.6
45°	1015.6	1031.3	1066.0	1119.2	1198.9	1325.0	1503.6	1725.2	1901.0	1969.8	1866.2
47.5°	834.2	842.7	873.0	913.5	972.5	1064.4	1202.6	1394.9	1605.9	1753.7	1739.2
50°	736.1	745.7	768.8	799.5	849.3	927.0	1037.4	1197.6	1415.0	1595.6	1631.7
52.5°	659.7	667.7	682.2	711.1	752.2	811.9	901.1	1046.0	1241.6	1433.7	1517.2
55°	557.5	563.0	574.6	591.0	623.7	666.6	743.7	843.8	1002.0	1195.5	1318.2
57.5°	473.3	476.1	483.4	498.6	521.2	552.5	608.1	693.1	806.5	980.8	1116.2
60°	419.9	422.6	432.1	442.3	460.1	488.7	532.3	591.6	700.6	844.6	981.5
62.5°	377.3	379.0	383.0	393.2	408.8	430.9	465.2	513.6	600.4	726.7	856.1
65°	316.3	316.9	318.3	326.5	336.0	352.3	374.9	409.0	474.4	569.9	684.3
67.5°	257.6	258.6	263.4	266.2	276.2	284.8	298.0	324.1	370.1	434.4	523.5
70°	224.9	224.3	229.0	232.5	235.8	246.1	254.9	276.1	304.7	353.8	428.1
72.5°	194.4	192.6	194.7	195.9	200.4	207.3	216.2	229.1	251.3	285.1	341.9
75°	147.2	147.9	147.9	149.3	152.7	155.4	158.1	164.9	177.2	199.8	230.4
77.5°	103.3	102.2	105.1	105.5	107.6	110.6	112.9	115.6	120.7	129.9	145.7
80°	74.9	74.9	75.6	77.7	77.1	78.4	81.8	84.5	90.7	96.1	101.6
82.5°	57.6	57.0	57.7	58.1	58.0	59.3	60.5	61.1	63.4	66.1	69.9
85°	31.3	31.3	32.0	32.0	32.7	32.7	33.4	33.4	33.4	34.0	34.7
87.5°	18.3	17.6	16.9	16.7	17.1	17.9	17.1	16.3	16.0	15.7	15.8
90°	31.4	30.6	29.7	28.8	28.0	26.8	25.3	23.8	22.4	21.0	18.9
92.5°	61.8	61.2	60.6	59.9	59.3	58.0	56.0	54.1	52.2	50.3	47.8
95°	112.7	112.1	111.5	110.9	110.3	109.1	106.9	104.9	102.9	100.9	98.0
97.5°	170.9	170.5	170.2	169.8	169.5	168.2	166.3	164.4	162.5	160.6	156.6
100°	214.8	214.3	213.7	213.1	212.5	210.9	208.2	205.7	203.1	200.5	196.6
102.5°	258.8	258.0	257.2	256.4	255.6	253.8	250.9	248.0	245.2	242.4	240.4
105°	324.9	324.0	323.2	322.2	321.3	320.0	318.3	316.6	314.9	313.1	311.3
107.5°	392.4	392.5	392.5	392.6	392.7	392.3	391.4	390.5	389.7	388.8	387.5
110°	442.7	443.0	443.3	443.6	443.9	443.6	442.7	441.9	441.0	440.1	439.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	492.0	492.5	493.1	493.6	494.1	494.1	493.7	493.3	492.9	492.5	491.4
115°	569.9	570.2	570.4	570.7	571.0	571.3	571.6	571.9	572.2	572.5	571.9
117.5°	645.8	647.0	648.1	649.3	650.5	651.0	650.7	650.5	650.3	650.1	649.4
120°	698.2	699.3	700.5	701.7	702.9	703.5	703.5	703.5	703.5	703.5	703.2
122.5°	750.6	751.5	752.5	753.4	754.4	754.9	755.2	755.4	755.6	755.9	755.1
125°	829.2	829.5	829.8	830.1	830.4	830.8	831.4	831.9	832.5	833.1	832.8
127.5°	904.6	905.2	905.8	906.5	907.0	907.5	907.7	908.0	908.3	908.6	908.3
130°	954.9	955.5	956.1	956.7	957.3	957.8	958.1	958.3	958.6	958.9	958.3
132.5°	1002.1	1002.9	1003.7	1004.6	1005.4	1005.9	1006.2	1006.5	1006.8	1007.1	1007.2
135°	1075.5	1076.6	1077.8	1078.9	1080.2	1080.8	1080.8	1080.8	1080.8	1080.8	1080.5
137.5°	1147.3	1148.7	1150.1	1151.7	1153.1	1153.7	1153.3	1153.0	1152.6	1152.3	1151.7
140°	1193.4	1194.9	1196.3	1197.7	1199.2	1199.6	1199.0	1198.5	1197.9	1197.3	1196.4
142.5°	1237.4	1238.8	1240.3	1241.7	1243.2	1243.7	1243.4	1243.0	1242.7	1242.3	1241.2
145°	1303.4	1304.2	1305.1	1306.1	1306.9	1307.4	1307.4	1307.4	1307.4	1307.4	1306.5
147.5°	1359.8	1361.7	1363.7	1365.6	1367.7	1368.3	1367.6	1366.9	1366.2	1365.5	1364.8
150°	1401.7	1402.2	1402.8	1403.4	1404.0	1404.3	1404.3	1404.3	1404.3	1404.3	1403.1
152.5°	1436.2	1437.2	1438.4	1439.4	1440.5	1440.6	1439.9	1439.2	1438.6	1437.8	1437.3
155°	1485.5	1486.9	1488.4	1489.9	1491.3	1491.5	1490.3	1489.1	1487.9	1486.8	1486.5
157.5°	1526.6	1528.5	1530.5	1532.4	1534.3	1534.7	1533.5	1532.4	1531.2	1530.0	1529.7
160°	1554.9	1556.4	1557.8	1559.3	1560.7	1560.8	1559.7	1558.5	1557.4	1556.2	1555.9
162.5°	1579.0	1580.7	1582.4	1584.1	1585.8	1585.9	1584.5	1583.2	1581.8	1580.3	1580.2
165°	1611.2	1613.0	1614.8	1616.5	1618.2	1618.5	1617.4	1616.2	1615.1	1613.9	1613.6
167.5°	1636.9	1638.7	1640.5	1642.3	1644.2	1644.2	1642.4	1640.7	1638.9	1637.2	1637.2
170°	1650.5	1652.5	1654.7	1656.7	1658.7	1658.8	1657.1	1655.4	1653.7	1651.8	1651.8
172.5°	1662.0	1663.9	1665.7	1667.5	1669.3	1669.3	1667.6	1665.9	1664.1	1662.3	1662.3
175°	1672.8	1674.9	1676.9	1678.9	1680.9	1681.1	1679.4	1677.6	1675.9	1674.2	1674.2
177.5°	1679.1	1680.7	1682.3	1683.9	1685.7	1685.8	1684.4	1682.9	1681.5	1680.1	1680.4
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1706.2	1702.3	1695.3	1688.7	1680.5	1673.4	1668.6	1662.5	1655.0	1645.7	1638.0
5°	1781.7	1766.7	1747.0	1729.9	1708.1	1691.0	1673.3	1656.3	1639.2	1617.4	1598.3
7.5°	1865.4	1834.4	1804.3	1766.5	1732.1	1701.4	1671.9	1642.1	1613.0	1582.0	1552.2
10°	1916.6	1879.2	1837.6	1789.9	1746.3	1704.7	1666.5	1629.0	1589.5	1554.7	1517.2
12.5°	1964.7	1916.2	1868.7	1808.5	1756.1	1705.3	1656.7	1609.9	1567.7	1522.6	1482.4
15°	2008.0	1960.2	1907.1	1833.5	1760.6	1699.2	1641.9	1581.3	1528.8	1478.3	1433.4
17.5°	2024.8	1974.7	1913.0	1842.2	1762.5	1685.4	1611.5	1545.1	1483.3	1424.5	1373.9
20°	2018.2	1969.8	1906.4	1839.0	1753.7	1673.3	1593.6	1519.9	1451.2	1389.1	1335.2
22.5°	2002.4	1952.4	1891.2	1819.9	1739.0	1653.7	1568.5	1490.0	1417.9	1353.6	1294.9
25°	1978.7	1910.6	1847.9	1778.3	1701.3	1616.8	1528.8	1442.3	1365.2	1299.8	1235.8
27.5°	1954.0	1869.0	1789.2	1720.1	1638.7	1563.3	1478.5	1389.8	1308.8	1242.1	1176.4
30°	1931.7	1836.2	1748.3	1669.9	1592.9	1521.4	1440.9	1354.3	1271.2	1202.3	1135.6
32.5°	1903.8	1802.4	1705.8	1615.4	1541.1	1470.1	1397.2	1314.5	1233.6	1162.6	1094.7
35°	1869.0	1739.5	1634.5	1538.3	1455.9	1387.0	1321.6	1254.9	1173.8	1100.1	1034.0
37.5°	1823.1	1676.2	1554.7	1450.1	1363.0	1293.9	1242.2	1181.2	1107.2	1036.7	975.3
40°	1795.3	1630.4	1497.4	1393.9	1302.5	1229.6	1181.2	1129.4	1062.0	995.8	934.4
42.5°	1758.3	1588.4	1439.7	1331.7	1239.8	1169.6	1120.6	1075.4	1018.9	956.5	890.8
45°	1685.6	1507.0	1350.9	1235.1	1142.4	1073.5	1027.8	987.6	944.7	887.5	830.2
47.5°	1590.9	1422.1	1258.8	1132.3	1041.5	977.5	933.2	901.5	870.8	822.1	766.5
50°	1515.2	1352.3	1192.8	1070.2	973.3	912.6	871.1	845.9	817.9	773.7	727.3
52.5°	1425.7	1280.3	1124.1	998.7	907.4	850.5	810.5	785.4	762.3	726.2	682.0
55°	1284.9	1157.4	1014.2	900.4	816.6	759.3	721.1	697.3	683.7	653.0	618.2
57.5°	1122.2	1030.9	904.6	794.9	720.7	664.2	636.2	615.9	600.5	578.9	554.3
60°	1008.8	944.7	831.5	727.3	659.1	605.2	580.1	563.0	548.7	530.3	511.2
62.5°	893.7	847.1	748.7	659.1	596.4	551.3	527.7	512.3	495.8	483.4	464.8
65°	739.5	697.9	629.8	559.6	501.7	465.5	448.5	434.8	424.6	411.0	398.1
67.5°	575.3	558.4	511.3	462.9	421.3	389.2	374.5	365.0	352.6	344.5	335.6
70°	474.4	466.3	432.8	400.8	361.9	340.1	326.5	322.3	307.4	299.2	293.1
72.5°	385.0	381.1	361.9	339.7	312.4	293.3	280.6	276.1	266.5	259.9	256.0
75°	263.8	265.2	261.8	247.4	237.2	224.9	214.0	211.3	204.5	199.0	195.6
77.5°	166.8	173.8	174.1	173.4	169.4	161.8	157.3	155.3	148.6	146.5	145.7
80°	114.5	122.0	128.9	128.2	126.7	124.7	121.3	119.3	115.8	113.8	112.5
82.5°	76.3	83.3	89.0	92.7	92.4	90.4	88.1	87.2	86.4	84.9	84.6
85°	36.2	37.5	39.5	44.3	47.7	48.4	47.7	47.1	44.9	45.6	46.4
87.5°	16.0	15.6	15.7	15.2	14.2	16.5	17.7	17.7	17.1	16.5	15.9
90°	16.9	14.8	12.8	10.6	8.3	6.0	3.6	1.3	3.6	6.0	8.3
92.5°	45.3	42.8	40.3	38.2	36.6	34.9	33.3	31.7	33.3	34.9	36.6
95°	95.0	92.1	89.3	87.5	86.8	86.3	85.7	85.1	85.7	86.3	86.8
97.5°	152.6	148.6	144.5	142.4	142.2	142.0	141.7	141.5	141.7	142.0	142.2
100°	192.9	189.0	185.3	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
102.5°	238.5	236.6	234.7	233.1	232.0	230.8	229.6	228.4	229.6	230.8	232.0
105°	309.6	307.8	306.1	304.5	303.1	301.5	300.1	298.7	300.1	301.5	303.1
107.5°	386.1	384.8	383.4	382.0	380.6	379.1	377.7	376.2	377.7	379.1	380.6
110°	438.4	437.6	436.7	435.5	434.0	432.6	431.1	429.7	431.1	432.6	434.0



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	490.3	489.2	488.2	487.2	486.5	485.6	484.9	484.1	484.9	485.6	486.5
115°	571.3	570.7	570.2	569.3	568.0	566.9	565.7	564.6	565.7	566.9	568.0
117.5°	648.9	648.4	647.9	647.4	646.8	646.3	645.8	645.3	645.8	646.3	646.8
120°	702.9	702.6	702.3	701.5	699.9	698.5	697.0	695.6	697.0	698.5	699.9
122.5°	754.4	753.6	752.9	752.1	751.6	751.1	750.6	750.1	750.6	751.1	751.6
125°	832.5	832.2	831.9	830.9	829.2	827.5	825.7	823.9	825.7	827.5	829.2
127.5°	907.9	907.6	907.2	906.6	905.5	904.5	903.5	902.5	903.5	904.5	905.5
130°	957.8	957.2	956.5	955.5	954.1	952.6	951.2	949.7	951.2	952.6	954.1
132.5°	1007.3	1007.4	1007.5	1006.4	1004.0	1001.7	999.3	996.8	999.3	1001.7	1004.0
135°	1080.2	1079.8	1079.5	1078.5	1076.8	1075.0	1073.3	1071.6	1073.3	1075.0	1076.8
137.5°	1150.9	1150.3	1149.6	1148.5	1146.8	1145.2	1143.5	1141.8	1143.5	1145.2	1146.8
140°	1195.6	1194.7	1193.8	1192.7	1191.2	1189.7	1188.3	1186.8	1188.3	1189.7	1191.2
142.5°	1240.1	1239.0	1237.9	1236.8	1235.6	1234.4	1233.1	1231.9	1233.1	1234.4	1235.6
145°	1305.6	1304.7	1303.8	1302.8	1301.6	1300.5	1299.3	1298.2	1299.3	1300.5	1301.6
147.5°	1364.1	1363.4	1362.7	1362.0	1361.4	1360.8	1360.1	1359.5	1360.1	1360.8	1361.4
150°	1402.0	1400.8	1399.6	1399.2	1399.5	1399.8	1400.1	1400.4	1400.1	1399.8	1399.5
152.5°	1436.8	1436.4	1435.9	1435.5	1435.1	1434.7	1434.3	1433.9	1434.3	1434.7	1435.1
155°	1486.2	1485.9	1485.6	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
157.5°	1529.4	1529.1	1528.8	1529.0	1529.6	1530.3	1531.0	1531.6	1531.0	1530.3	1529.6
160°	1555.7	1555.4	1555.1	1555.4	1556.2	1557.1	1558.0	1558.8	1558.0	1557.1	1556.2
162.5°	1580.2	1580.1	1580.1	1580.4	1581.0	1581.7	1582.4	1583.0	1582.4	1581.7	1581.0
165°	1613.3	1613.0	1612.8	1612.9	1613.5	1614.0	1614.6	1615.2	1614.6	1614.0	1613.5
167.5°	1637.2	1637.2	1637.2	1637.8	1638.9	1640.1	1641.2	1642.4	1641.2	1640.1	1638.9
170°	1651.8	1651.8	1651.8	1652.4	1653.7	1654.8	1656.0	1657.1	1656.0	1654.8	1653.7
172.5°	1662.3	1662.3	1662.3	1662.9	1664.1	1665.3	1666.4	1667.6	1666.4	1665.3	1664.1
175°	1674.2	1674.2	1674.2	1674.8	1675.9	1677.1	1678.2	1679.4	1678.2	1677.1	1675.9
177.5°	1680.6	1680.8	1681.1	1681.6	1682.6	1683.5	1684.5	1685.4	1684.5	1683.5	1682.6
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1632.5	1625.0	1619.5	1608.6	1600.9	1597.7	1591.6	1590.0	1596.0	1591.6	1591.1
5°	1584.1	1564.3	1548.6	1532.9	1515.9	1505.0	1488.6	1485.9	1481.8	1475.6	1474.3
7.5°	1525.8	1500.1	1479.9	1454.0	1431.5	1413.4	1392.9	1383.2	1378.0	1370.0	1359.4
10°	1486.5	1455.9	1428.7	1402.7	1374.8	1352.3	1331.8	1316.2	1306.0	1296.4	1292.3
12.5°	1447.8	1416.6	1381.7	1350.4	1319.2	1293.9	1271.3	1261.1	1249.8	1238.6	1229.1
15°	1387.8	1346.2	1308.0	1271.8	1245.3	1218.0	1196.2	1181.2	1164.2	1159.4	1141.0
17.5°	1323.9	1283.1	1238.5	1200.4	1169.6	1139.6	1115.6	1098.6	1085.8	1068.2	1059.8
20°	1284.1	1235.8	1192.1	1157.4	1123.3	1087.8	1063.3	1048.9	1036.7	1022.4	1015.6
22.5°	1241.6	1194.3	1149.6	1108.8	1074.2	1039.4	1021.9	1007.0	993.1	979.9	970.9
25°	1179.1	1131.5	1084.4	1042.2	1006.0	980.8	960.4	943.3	935.8	922.9	913.3
27.5°	1117.4	1066.7	1017.9	975.7	947.5	922.5	905.7	892.2	878.7	867.4	859.1
30°	1077.6	1025.8	972.6	939.3	909.3	885.3	867.0	854.0	843.8	833.6	827.5
32.5°	1037.8	984.4	937.2	901.1	872.7	852.1	833.1	820.8	810.0	798.7	791.4
35°	974.0	919.5	881.3	845.9	817.9	798.8	785.9	768.2	759.3	751.1	743.7
37.5°	914.7	864.0	822.7	791.6	767.3	748.4	731.6	722.1	711.1	703.8	697.5
40°	871.1	824.8	787.3	754.6	736.8	715.7	700.0	687.7	679.5	670.0	663.2
42.5°	831.8	788.7	752.3	722.9	700.8	683.0	667.8	655.6	645.2	638.4	632.7
45°	776.4	733.4	697.9	670.7	650.3	633.2	617.5	611.4	597.7	589.6	586.8
47.5°	718.9	680.5	646.3	621.2	600.3	584.1	569.4	556.8	549.4	541.3	536.9
50°	680.2	643.4	611.4	586.8	566.4	548.7	535.0	526.8	516.6	509.2	503.7
52.5°	641.6	607.4	575.4	552.0	534.2	516.5	501.3	493.1	483.4	478.6	474.8
55°	586.2	550.1	522.8	499.6	481.2	464.8	450.5	442.3	436.3	431.4	430.1
57.5°	523.5	494.8	469.5	448.6	429.5	414.1	401.6	393.8	388.4	387.7	383.6
60°	482.6	456.7	433.5	411.0	394.7	380.3	369.4	360.5	355.1	354.5	353.0
62.5°	441.7	416.9	395.4	375.6	360.8	347.1	336.7	326.8	323.5	320.1	317.1
65°	381.0	358.5	340.8	325.1	309.4	297.8	287.6	281.6	274.0	269.9	262.5
67.5°	321.4	304.0	287.0	273.8	261.5	250.4	242.0	232.9	227.8	224.5	219.0
70°	282.2	268.5	251.6	237.2	227.6	218.8	212.0	201.8	198.3	195.6	192.9
72.5°	245.1	233.1	218.8	207.2	197.6	189.3	181.5	176.6	173.3	170.6	169.0
75°	192.9	181.3	169.1	160.9	154.0	147.2	143.1	139.8	138.4	137.6	134.9
77.5°	141.7	135.5	125.7	119.2	114.6	111.9	108.3	106.4	106.3	103.3	102.4
80°	108.4	104.9	96.7	94.0	90.7	88.0	85.8	82.5	79.1	77.7	75.6
82.5°	80.6	77.2	73.9	69.5	66.7	65.0	63.0	61.7	62.2	60.3	59.3
85°	42.9	39.5	38.2	37.5	36.2	37.5	36.8	36.2	35.4	34.7	35.4
87.5°	15.8	16.2	16.1	17.6	16.4	17.3	17.6	17.3	17.6	17.9	17.6
90°	10.6	12.8	14.8	16.9	18.9	21.0	22.4	23.8	25.3	26.8	28.0
92.5°	38.2	40.3	42.8	45.3	47.8	50.3	52.2	54.1	56.0	58.0	59.3
95°	87.5	89.3	92.1	95.0	98.0	100.9	102.9	104.9	106.9	109.1	110.3
97.5°	142.4	144.5	148.6	152.6	156.6	160.6	162.5	164.4	166.3	168.2	169.5
100°	183.4	185.3	189.0	192.9	196.6	200.5	203.1	205.7	208.2	210.9	212.5
102.5°	233.1	234.7	236.6	238.5	240.4	242.4	245.2	248.0	250.9	253.8	255.6
105°	304.5	306.1	307.8	309.6	311.3	313.1	314.9	316.6	318.3	320.0	321.3
107.5°	382.0	383.4	384.8	386.1	387.5	388.8	389.7	390.5	391.4	392.3	392.7
110°	435.5	436.7	437.6	438.4	439.3	440.1	441.0	441.9	442.7	443.6	443.9



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	487.2	488.2	489.2	490.3	491.4	492.5	492.9	493.3	493.7	494.1	494.1
115°	569.3	570.2	570.7	571.3	571.9	572.5	572.2	571.9	571.6	571.3	571.0
117.5°	647.4	647.9	648.4	648.9	649.4	650.1	650.3	650.5	650.7	651.0	650.5
120°	701.5	702.3	702.6	702.9	703.2	703.5	703.5	703.5	703.5	703.5	702.9
122.5°	752.1	752.9	753.6	754.4	755.1	755.9	755.6	755.4	755.2	754.9	754.4
125°	830.9	831.9	832.2	832.5	832.8	833.1	832.5	831.9	831.4	830.8	830.4
127.5°	906.6	907.2	907.6	907.9	908.3	908.6	908.3	908.0	907.7	907.5	907.0
130°	955.5	956.5	957.2	957.8	958.3	958.9	958.6	958.3	958.1	957.8	957.3
132.5°	1006.4	1007.5	1007.4	1007.3	1007.2	1007.1	1006.8	1006.5	1006.2	1005.9	1005.4
135°	1078.5	1079.5	1079.8	1080.2	1080.5	1080.8	1080.8	1080.8	1080.8	1080.8	1080.2
137.5°	1148.5	1149.6	1150.3	1150.9	1151.7	1152.3	1152.6	1153.0	1153.3	1153.7	1153.1
140°	1192.7	1193.8	1194.7	1195.6	1196.4	1197.3	1197.9	1198.5	1199.0	1199.6	1199.2
142.5°	1236.8	1237.9	1239.0	1240.1	1241.2	1242.3	1242.7	1243.0	1243.4	1243.7	1243.2
145°	1302.8	1303.8	1304.7	1305.6	1306.5	1307.4	1307.4	1307.4	1307.4	1307.4	1306.9
147.5°	1362.0	1362.7	1363.4	1364.1	1364.8	1365.5	1366.2	1366.9	1367.6	1368.3	1367.7
150°	1399.2	1399.6	1400.8	1402.0	1403.1	1404.3	1404.3	1404.3	1404.3	1404.3	1404.0
152.5°	1435.5	1435.9	1436.4	1436.8	1437.3	1437.8	1438.6	1439.2	1439.9	1440.6	1440.5
155°	1485.5	1485.6	1485.9	1486.2	1486.5	1486.8	1487.9	1489.1	1490.3	1491.5	1491.3
157.5°	1529.0	1528.8	1529.1	1529.4	1529.7	1530.0	1531.2	1532.4	1533.5	1534.7	1534.3
160°	1555.4	1555.1	1555.4	1555.7	1555.9	1556.2	1557.4	1558.5	1559.7	1560.8	1560.7
162.5°	1580.4	1580.1	1580.1	1580.2	1580.2	1580.3	1581.8	1583.2	1584.5	1585.9	1585.8
165°	1612.9	1612.8	1613.0	1613.3	1613.6	1613.9	1615.1	1616.2	1617.4	1618.5	1618.2
167.5°	1637.8	1637.2	1637.2	1637.2	1637.2	1637.2	1638.9	1640.7	1642.4	1644.2	1644.2
170°	1652.4	1651.8	1651.8	1651.8	1651.8	1651.8	1653.7	1655.4	1657.1	1658.8	1658.7
172.5°	1662.9	1662.3	1662.3	1662.3	1662.3	1662.3	1664.1	1665.9	1667.6	1669.3	1669.3
175°	1674.8	1674.2	1674.2	1674.2	1674.2	1674.2	1675.9	1677.6	1679.4	1681.1	1680.9
177.5°	1681.6	1681.1	1680.8	1680.6	1680.4	1680.1	1681.5	1682.9	1684.4	1685.8	1685.7
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1590.5	1584.6	1583.0	1585.1	1583.0	1584.6	1590.5	1591.1	1591.6	1596.0	1590.0
5°	1467.5	1460.7	1464.1	1462.7	1464.1	1460.7	1467.5	1474.3	1475.6	1481.8	1485.9
7.5°	1359.3	1350.8	1341.8	1344.6	1341.8	1350.8	1359.3	1359.4	1370.0	1378.0	1383.2
10°	1283.4	1276.7	1272.5	1276.0	1272.5	1276.7	1283.4	1292.3	1296.4	1306.0	1316.2
12.5°	1219.6	1215.6	1212.0	1210.5	1212.0	1215.6	1219.6	1229.1	1238.6	1249.8	1261.1
15°	1132.9	1124.7	1121.3	1112.4	1121.3	1124.7	1132.9	1141.0	1159.4	1164.2	1181.2
17.5°	1052.8	1050.1	1041.2	1037.4	1041.2	1050.1	1052.8	1059.8	1068.2	1085.8	1098.6
20°	1005.3	1002.6	993.8	999.3	993.8	1002.6	1005.3	1015.6	1022.4	1036.7	1048.9
22.5°	966.1	960.1	957.3	955.6	957.3	960.1	966.1	970.9	979.9	993.1	1007.0
25°	910.6	901.7	898.4	894.2	898.4	901.7	910.6	913.3	922.9	935.8	943.3
27.5°	855.3	850.5	846.0	845.0	846.0	850.5	855.3	859.1	867.4	878.7	892.2
30°	819.3	814.6	811.1	811.1	811.1	814.6	819.3	827.5	833.6	843.8	854.0
32.5°	787.1	783.5	780.0	779.5	780.0	783.5	787.1	791.4	798.7	810.0	820.8
35°	740.2	734.8	733.4	729.3	733.4	734.8	740.2	743.7	751.1	759.3	768.2
37.5°	691.6	687.0	686.9	686.5	686.9	687.0	691.6	697.5	703.8	711.1	722.1
40°	660.5	657.0	656.4	651.6	656.4	657.0	660.5	663.2	670.0	679.5	687.7
42.5°	627.2	625.4	623.1	621.1	623.1	625.4	627.2	632.7	638.4	645.2	655.6
45°	582.1	577.3	577.3	573.9	577.3	577.3	582.1	586.8	589.6	597.7	611.4
47.5°	535.4	531.8	532.2	528.7	532.2	531.8	535.4	536.9	541.3	549.4	556.8
50°	504.4	502.3	501.7	500.3	501.7	502.3	504.4	503.7	509.2	516.6	526.8
52.5°	473.3	472.3	474.9	471.9	474.9	472.3	473.3	474.8	478.6	483.4	493.1
55°	431.4	429.4	433.5	429.4	433.5	429.4	431.4	430.1	431.4	436.3	442.3
57.5°	383.3	381.4	385.1	383.0	385.1	381.4	383.3	383.6	387.7	388.4	393.8
60°	351.7	347.6	349.6	350.3	349.6	347.6	351.7	353.0	354.5	355.1	360.5
62.5°	314.1	311.6	313.2	310.0	313.2	311.6	314.1	317.1	320.1	323.5	326.8
65°	261.1	259.0	256.3	254.9	256.3	259.0	261.1	262.5	269.9	274.0	281.6
67.5°	219.3	214.4	214.3	215.4	214.3	214.4	219.3	219.0	224.5	227.8	232.9
70°	188.8	188.8	188.1	188.1	188.1	188.8	188.8	192.9	195.6	198.3	201.8
72.5°	167.5	167.0	165.7	165.2	165.7	167.0	167.5	169.0	170.6	173.3	176.6
75°	134.9	135.6	134.3	133.6	134.3	135.6	134.9	134.9	137.6	138.4	139.8
77.5°	99.7	96.7	98.3	96.7	98.3	96.7	99.7	102.4	103.3	106.3	106.4
80°	75.6	74.9	77.1	74.9	77.1	74.9	75.6	75.6	77.7	79.1	82.5
82.5°	59.9	59.2	60.1	58.6	60.1	59.2	59.9	59.3	60.3	62.2	61.7
85°	36.2	35.4	34.7	35.4	34.7	35.4	36.2	35.4	34.7	35.4	36.2
87.5°	18.3	18.0	18.1	18.3	18.1	18.0	18.3	17.6	17.9	17.6	17.3
90°	28.8	29.7	30.6	31.4	30.6	29.7	28.8	28.0	26.8	25.3	23.8
92.5°	59.9	60.6	61.2	61.8	61.2	60.6	59.9	59.3	58.0	56.0	54.1
95°	110.9	111.5	112.1	112.7	112.1	111.5	110.9	110.3	109.1	106.9	104.9
97.5°	169.8	170.2	170.5	170.9	170.5	170.2	169.8	169.5	168.2	166.3	164.4
100°	213.1	213.7	214.3	214.8	214.3	213.7	213.1	212.5	210.9	208.2	205.7
102.5°	256.4	257.2	258.0	258.8	258.0	257.2	256.4	255.6	253.8	250.9	248.0
105°	322.2	323.2	324.0	324.9	324.0	323.2	322.2	321.3	320.0	318.3	316.6
107.5°	392.6	392.5	392.5	392.4	392.5	392.5	392.6	392.7	392.3	391.4	390.5
110°	443.6	443.3	443.0	442.7	443.0	443.3	443.6	443.9	443.6	442.7	441.9



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	493.6	493.1	492.5	492.0	492.5	493.1	493.6	494.1	494.1	493.7	493.3
115°	570.7	570.4	570.2	569.9	570.2	570.4	570.7	571.0	571.3	571.6	571.9
117.5°	649.3	648.1	647.0	645.8	647.0	648.1	649.3	650.5	651.0	650.7	650.5
120°	701.7	700.5	699.3	698.2	699.3	700.5	701.7	702.9	703.5	703.5	703.5
122.5°	753.4	752.5	751.5	750.6	751.5	752.5	753.4	754.4	754.9	755.2	755.4
125°	830.1	829.8	829.5	829.2	829.5	829.8	830.1	830.4	830.8	831.4	831.9
127.5°	906.5	905.8	905.2	904.6	905.2	905.8	906.5	907.0	907.5	907.7	908.0
130°	956.7	956.1	955.5	954.9	955.5	956.1	956.7	957.3	957.8	958.1	958.3
132.5°	1004.6	1003.7	1002.9	1002.1	1002.9	1003.7	1004.6	1005.4	1005.9	1006.2	1006.5
135°	1078.9	1077.8	1076.6	1075.5	1076.6	1077.8	1078.9	1080.2	1080.8	1080.8	1080.8
137.5°	1151.7	1150.1	1148.7	1147.3	1148.7	1150.1	1151.7	1153.1	1153.7	1153.3	1153.0
140°	1197.7	1196.3	1194.9	1193.4	1194.9	1196.3	1197.7	1199.2	1199.6	1199.0	1198.5
142.5°	1241.7	1240.3	1238.8	1237.4	1238.8	1240.3	1241.7	1243.2	1243.7	1243.4	1243.0
145°	1306.1	1305.1	1304.2	1303.4	1304.2	1305.1	1306.1	1306.9	1307.4	1307.4	1307.4
147.5°	1365.6	1363.7	1361.7	1359.8	1361.7	1363.7	1365.6	1367.7	1368.3	1367.6	1366.9
150°	1403.4	1402.8	1402.2	1401.7	1402.2	1402.8	1403.4	1404.0	1404.3	1404.3	1404.3
152.5°	1439.4	1438.4	1437.2	1436.2	1437.2	1438.4	1439.4	1440.5	1440.6	1439.9	1439.2
155°	1489.9	1488.4	1486.9	1485.5	1486.9	1488.4	1489.9	1491.3	1491.5	1490.3	1489.1
157.5°	1532.4	1530.5	1528.5	1526.6	1528.5	1530.5	1532.4	1534.3	1534.7	1533.5	1532.4
160°	1559.3	1557.8	1556.4	1554.9	1556.4	1557.8	1559.3	1560.7	1560.8	1559.7	1558.5
162.5°	1584.1	1582.4	1580.7	1579.0	1580.7	1582.4	1584.1	1585.8	1585.9	1584.5	1583.2
165°	1616.5	1614.8	1613.0	1611.2	1613.0	1614.8	1616.5	1618.2	1618.5	1617.4	1616.2
167.5°	1642.3	1640.5	1638.7	1636.9	1638.7	1640.5	1642.3	1644.2	1644.2	1642.4	1640.7
170°	1656.7	1654.7	1652.5	1650.5	1652.5	1654.7	1656.7	1658.7	1658.8	1657.1	1655.4
172.5°	1667.5	1665.7	1663.9	1662.0	1663.9	1665.7	1667.5	1669.3	1669.3	1667.6	1665.9
175°	1678.9	1676.9	1674.9	1672.8	1674.9	1676.9	1678.9	1680.9	1681.1	1679.4	1677.6
177.5°	1683.9	1682.3	1680.7	1679.1	1680.7	1682.3	1683.9	1685.7	1685.8	1684.4	1682.9
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1591.6	1597.7	1600.9	1608.6	1619.5	1625.0	1632.5	1638.0	1645.7	1655.0	1662.5
5°	1488.6	1505.0	1515.9	1532.9	1548.6	1564.3	1584.1	1598.3	1617.4	1639.2	1656.3
7.5°	1392.9	1413.4	1431.5	1454.0	1479.9	1500.1	1525.8	1552.2	1582.0	1613.0	1642.1
10°	1331.8	1352.3	1374.8	1402.7	1428.7	1455.9	1486.5	1517.2	1554.7	1589.5	1629.0
12.5°	1271.3	1293.9	1319.2	1350.4	1381.7	1416.6	1447.8	1482.4	1522.6	1567.7	1609.9
15°	1196.2	1218.0	1245.3	1271.8	1308.0	1346.2	1387.8	1433.4	1478.3	1528.8	1581.3
17.5°	1115.6	1139.6	1169.6	1200.4	1238.5	1283.1	1323.9	1373.9	1424.5	1483.3	1545.1
20°	1063.3	1087.8	1123.3	1157.4	1192.1	1235.8	1284.1	1335.2	1389.1	1451.2	1519.9
22.5°	1021.9	1039.4	1074.2	1108.8	1149.6	1194.3	1241.6	1294.9	1353.6	1417.9	1490.0
25°	960.4	980.8	1006.0	1042.2	1084.4	1131.5	1179.1	1235.8	1299.8	1365.2	1442.3
27.5°	905.7	922.5	947.5	975.7	1017.9	1066.7	1117.4	1176.4	1242.1	1308.8	1389.8
30°	867.0	885.3	909.3	939.3	972.6	1025.8	1077.6	1135.6	1202.3	1271.2	1354.3
32.5°	833.1	852.1	872.7	901.1	937.2	984.4	1037.8	1094.7	1162.6	1233.6	1314.5
35°	785.9	798.8	817.9	845.9	881.3	919.5	974.0	1034.0	1100.1	1173.8	1254.9
37.5°	731.6	748.4	767.3	791.6	822.7	864.0	914.7	975.3	1036.7	1107.2	1181.2
40°	700.0	715.7	736.8	754.6	787.3	824.8	871.1	934.4	995.8	1062.0	1129.4
42.5°	667.8	683.0	700.8	722.9	752.3	788.7	831.8	890.8	956.5	1018.9	1075.4
45°	617.5	633.2	650.3	670.7	697.9	733.4	776.4	830.2	887.5	944.7	987.6
47.5°	569.4	584.1	600.3	621.2	646.3	680.5	718.9	766.5	822.1	870.8	901.5
50°	535.0	548.7	566.4	586.8	611.4	643.4	680.2	727.3	773.7	817.9	845.9
52.5°	501.3	516.5	534.2	552.0	575.4	607.4	641.6	682.0	726.2	762.3	785.4
55°	450.5	464.8	481.2	499.6	522.8	550.1	586.2	618.2	653.0	683.7	697.3
57.5°	401.6	414.1	429.5	448.6	469.5	494.8	523.5	554.3	578.9	600.5	615.9
60°	369.4	380.3	394.7	411.0	433.5	456.7	482.6	511.2	530.3	548.7	563.0
62.5°	336.7	347.1	360.8	375.6	395.4	416.9	441.7	464.8	483.4	495.8	512.3
65°	287.6	297.8	309.4	325.1	340.8	358.5	381.0	398.1	411.0	424.6	434.8
67.5°	242.0	250.4	261.5	273.8	287.0	304.0	321.4	335.6	344.5	352.6	365.0
70°	212.0	218.8	227.6	237.2	251.6	268.5	282.2	293.1	299.2	307.4	322.3
72.5°	181.5	189.3	197.6	207.2	218.8	233.1	245.1	256.0	259.9	266.5	276.1
75°	143.1	147.2	154.0	160.9	169.1	181.3	192.9	195.6	199.0	204.5	211.3
77.5°	108.3	111.9	114.6	119.2	125.7	135.5	141.7	145.7	146.5	148.6	155.3
80°	85.8	88.0	90.7	94.0	96.7	104.9	108.4	112.5	113.8	115.8	119.3
82.5°	63.0	65.0	66.7	69.5	73.9	77.2	80.6	84.6	84.9	86.4	87.2
85°	36.8	37.5	36.2	37.5	38.2	39.5	42.9	46.4	45.6	44.9	47.1
87.5°	17.6	17.3	16.4	17.6	16.1	16.2	15.8	15.9	16.5	17.1	17.7
90°	22.4	21.0	18.9	16.9	14.8	12.8	10.6	8.3	6.0	3.6	1.3
92.5°	52.2	50.3	47.8	45.3	42.8	40.3	38.2	36.6	34.9	33.3	31.7
95°	102.9	100.9	98.0	95.0	92.1	89.3	87.5	86.8	86.3	85.7	85.1
97.5°	162.5	160.6	156.6	152.6	148.6	144.5	142.4	142.2	142.0	141.7	141.5
100°	203.1	200.5	196.6	192.9	189.0	185.3	183.4	183.4	183.4	183.4	183.4
102.5°	245.2	242.4	240.4	238.5	236.6	234.7	233.1	232.0	230.8	229.6	228.4
105°	314.9	313.1	311.3	309.6	307.8	306.1	304.5	303.1	301.5	300.1	298.7
107.5°	389.7	388.8	387.5	386.1	384.8	383.4	382.0	380.6	379.1	377.7	376.2
110°	441.0	440.1	439.3	438.4	437.6	436.7	435.5	434.0	432.6	431.1	429.7



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	492.9	492.5	491.4	490.3	489.2	488.2	487.2	486.5	485.6	484.9	484.1
115°	572.2	572.5	571.9	571.3	570.7	570.2	569.3	568.0	566.9	565.7	564.6
117.5°	650.3	650.1	649.4	648.9	648.4	647.9	647.4	646.8	646.3	645.8	645.3
120°	703.5	703.5	703.2	702.9	702.6	702.3	701.5	699.9	698.5	697.0	695.6
122.5°	755.6	755.9	755.1	754.4	753.6	752.9	752.1	751.6	751.1	750.6	750.1
125°	832.5	833.1	832.8	832.5	832.2	831.9	830.9	829.2	827.5	825.7	823.9
127.5°	908.3	908.6	908.3	907.9	907.6	907.2	906.6	905.5	904.5	903.5	902.5
130°	958.6	958.9	958.3	957.8	957.2	956.5	955.5	954.1	952.6	951.2	949.7
132.5°	1006.8	1007.1	1007.2	1007.3	1007.4	1007.5	1006.4	1004.0	1001.7	999.3	996.8
135°	1080.8	1080.8	1080.5	1080.2	1079.8	1079.5	1078.5	1076.8	1075.0	1073.3	1071.6
137.5°	1152.6	1152.3	1151.7	1150.9	1150.3	1149.6	1148.5	1146.8	1145.2	1143.5	1141.8
140°	1197.9	1197.3	1196.4	1195.6	1194.7	1193.8	1192.7	1191.2	1189.7	1188.3	1186.8
142.5°	1242.7	1242.3	1241.2	1240.1	1239.0	1237.9	1236.8	1235.6	1234.4	1233.1	1231.9
145°	1307.4	1307.4	1306.5	1305.6	1304.7	1303.8	1302.8	1301.6	1300.5	1299.3	1298.2
147.5°	1366.2	1365.5	1364.8	1364.1	1363.4	1362.7	1362.0	1361.4	1360.8	1360.1	1359.5
150°	1404.3	1404.3	1403.1	1402.0	1400.8	1399.6	1399.2	1399.5	1399.8	1400.1	1400.4
152.5°	1438.6	1437.8	1437.3	1436.8	1436.4	1435.9	1435.5	1435.1	1434.7	1434.3	1433.9
155°	1487.9	1486.8	1486.5	1486.2	1485.9	1485.6	1485.5	1485.5	1485.5	1485.5	1485.5
157.5°	1531.2	1530.0	1529.7	1529.4	1529.1	1528.8	1529.0	1529.6	1530.3	1531.0	1531.6
160°	1557.4	1556.2	1555.9	1555.7	1555.4	1555.1	1555.4	1556.2	1557.1	1558.0	1558.8
162.5°	1581.8	1580.3	1580.2	1580.2	1580.1	1580.1	1580.4	1581.0	1581.7	1582.4	1583.0
165°	1615.1	1613.9	1613.6	1613.3	1613.0	1612.8	1612.9	1613.5	1614.0	1614.6	1615.2
167.5°	1638.9	1637.2	1637.2	1637.2	1637.2	1637.2	1637.8	1638.9	1640.1	1641.2	1642.4
170°	1653.7	1651.8	1651.8	1651.8	1651.8	1651.8	1652.4	1653.7	1654.8	1656.0	1657.1
172.5°	1664.1	1662.3	1662.3	1662.3	1662.3	1662.3	1662.9	1664.1	1665.3	1666.4	1667.6
175°	1675.9	1674.2	1674.2	1674.2	1674.2	1674.2	1674.8	1675.9	1677.1	1678.2	1679.4
177.5°	1681.5	1680.1	1680.4	1680.6	1680.8	1681.1	1681.6	1682.6	1683.5	1684.5	1685.4
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1668.6	1673.4	1680.5	1688.7	1695.3	1702.3	1706.2	1706.2	1709.5	1716.6	1725.9
5°	1673.3	1691.0	1708.1	1729.9	1747.0	1766.7	1781.7	1796.0	1809.0	1825.3	1842.4
7.5°	1671.9	1701.4	1732.1	1766.5	1804.3	1834.4	1865.4	1889.7	1913.7	1945.0	1969.6
10°	1666.5	1704.7	1746.3	1789.9	1837.6	1879.2	1916.6	1950.8	1983.5	2017.5	2048.2
12.5°	1656.7	1705.3	1756.1	1808.5	1868.7	1916.2	1964.7	2000.9	2039.1	2076.4	2114.2
15°	1641.9	1699.2	1760.6	1833.5	1907.1	1960.2	2008.0	2055.1	2090.4	2132.7	2168.9
17.5°	1611.5	1685.4	1762.5	1842.2	1913.0	1974.7	2024.8	2069.5	2107.3	2153.7	2202.8
20°	1593.6	1673.3	1753.7	1839.0	1906.4	1969.8	2018.2	2064.6	2111.6	2172.2	2232.2
22.5°	1568.5	1653.7	1739.0	1819.9	1891.2	1952.4	2002.4	2059.1	2120.8	2189.7	2262.2
25°	1528.8	1616.8	1701.3	1778.3	1847.9	1910.6	1978.7	2055.1	2130.0	2220.7	2324.9
27.5°	1478.5	1563.3	1638.7	1720.1	1789.2	1869.0	1954.0	2036.8	2144.9	2269.6	2399.7
30°	1440.9	1521.4	1592.9	1669.9	1748.3	1836.2	1931.7	2029.1	2158.0	2304.5	2459.2
32.5°	1397.2	1470.1	1541.1	1615.4	1705.8	1802.4	1903.8	2023.2	2177.1	2343.8	2504.0
35°	1321.6	1387.0	1455.9	1538.3	1634.5	1739.5	1869.0	2014.2	2200.2	2379.4	2523.2
37.5°	1242.2	1293.9	1363.0	1450.1	1554.7	1676.2	1823.1	1999.5	2190.7	2351.5	2412.8
40°	1181.2	1229.6	1302.5	1393.9	1497.4	1630.4	1795.3	1976.6	2168.9	2280.7	2275.8
42.5°	1120.6	1169.6	1239.8	1331.7	1439.7	1588.4	1758.3	1946.6	2108.9	2151.4	2062.6
45°	1027.8	1073.5	1142.4	1235.1	1350.9	1507.0	1685.6	1866.2	1969.8	1901.0	1725.2
47.5°	933.2	977.5	1041.5	1132.3	1258.8	1422.1	1590.9	1739.2	1753.7	1605.9	1394.9
50°	871.1	912.6	973.3	1070.2	1192.8	1352.3	1515.2	1631.7	1595.6	1415.0	1197.6
52.5°	810.5	850.5	907.4	998.7	1124.1	1280.3	1425.7	1517.2	1433.7	1241.6	1046.0
55°	721.1	759.3	816.6	900.4	1014.2	1157.4	1284.9	1318.2	1195.5	1002.0	843.8
57.5°	636.2	664.2	720.7	794.9	904.6	1030.9	1122.2	1116.2	980.8	806.5	693.1
60°	580.1	605.2	659.1	727.3	831.5	944.7	1008.8	981.5	844.6	700.6	591.6
62.5°	527.7	551.3	596.4	659.1	748.7	847.1	893.7	856.1	726.7	600.4	513.6
65°	448.5	465.5	501.7	559.6	629.8	697.9	739.5	684.3	569.9	474.4	409.0
67.5°	374.5	389.2	421.3	462.9	511.3	558.4	575.3	523.5	434.4	370.1	324.1
70°	326.5	340.1	361.9	400.8	432.8	466.3	474.4	428.1	353.8	304.7	276.1
72.5°	280.6	293.3	312.4	339.7	361.9	381.1	385.0	341.9	285.1	251.3	229.1
75°	214.0	224.9	237.2	247.4	261.8	265.2	263.8	230.4	199.8	177.2	164.9
77.5°	157.3	161.8	169.4	173.4	174.1	173.8	166.8	145.7	129.9	120.7	115.6
80°	121.3	124.7	126.7	128.2	128.9	122.0	114.5	101.6	96.1	90.7	84.5
82.5°	88.1	90.4	92.4	92.7	89.0	83.3	76.3	69.9	66.1	63.4	61.1
85°	47.7	48.4	47.7	44.3	39.5	37.5	36.2	34.7	34.0	33.4	33.4
87.5°	17.7	16.5	14.2	15.2	15.7	15.6	16.0	15.8	15.7	16.0	16.3
90°	3.6	6.0	8.3	10.6	12.8	14.8	16.9	18.9	21.0	22.4	23.8
92.5°	33.3	34.9	36.6	38.2	40.3	42.8	45.3	47.8	50.3	52.2	54.1
95°	85.7	86.3	86.8	87.5	89.3	92.1	95.0	98.0	100.9	102.9	104.9
97.5°	141.7	142.0	142.2	142.4	144.5	148.6	152.6	156.6	160.6	162.5	164.4
100°	183.4	183.4	183.4	183.4	185.3	189.0	192.9	196.6	200.5	203.1	205.7
102.5°	229.6	230.8	232.0	233.1	234.7	236.6	238.5	240.4	242.4	245.2	248.0
105°	300.1	301.5	303.1	304.5	306.1	307.8	309.6	311.3	313.1	314.9	316.6
107.5°	377.7	379.1	380.6	382.0	383.4	384.8	386.1	387.5	388.8	389.7	390.5
110°	431.1	432.6	434.0	435.5	436.7	437.6	438.4	439.3	440.1	441.0	441.9



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.9	485.6	486.5	487.2	488.2	489.2	490.3	491.4	492.5	492.9	493.3
115°	565.7	566.9	568.0	569.3	570.2	570.7	571.3	571.9	572.5	572.2	571.9
117.5°	645.8	646.3	646.8	647.4	647.9	648.4	648.9	649.4	650.1	650.3	650.5
120°	697.0	698.5	699.9	701.5	702.3	702.6	702.9	703.2	703.5	703.5	703.5
122.5°	750.6	751.1	751.6	752.1	752.9	753.6	754.4	755.1	755.9	755.6	755.4
125°	825.7	827.5	829.2	830.9	831.9	832.2	832.5	832.8	833.1	832.5	831.9
127.5°	903.5	904.5	905.5	906.6	907.2	907.6	907.9	908.3	908.6	908.3	908.0
130°	951.2	952.6	954.1	955.5	956.5	957.2	957.8	958.3	958.9	958.6	958.3
132.5°	999.3	1001.7	1004.0	1006.4	1007.5	1007.4	1007.3	1007.2	1007.1	1006.8	1006.5
135°	1073.3	1075.0	1076.8	1078.5	1079.5	1079.8	1080.2	1080.5	1080.8	1080.8	1080.8
137.5°	1143.5	1145.2	1146.8	1148.5	1149.6	1150.3	1150.9	1151.7	1152.3	1152.6	1153.0
140°	1188.3	1189.7	1191.2	1192.7	1193.8	1194.7	1195.6	1196.4	1197.3	1197.9	1198.5
142.5°	1233.1	1234.4	1235.6	1236.8	1237.9	1239.0	1240.1	1241.2	1242.3	1242.7	1243.0
145°	1299.3	1300.5	1301.6	1302.8	1303.8	1304.7	1305.6	1306.5	1307.4	1307.4	1307.4
147.5°	1360.1	1360.8	1361.4	1362.0	1362.7	1363.4	1364.1	1364.8	1365.5	1366.2	1366.9
150°	1400.1	1399.8	1399.5	1399.2	1399.6	1400.8	1402.0	1403.1	1404.3	1404.3	1404.3
152.5°	1434.3	1434.7	1435.1	1435.5	1435.9	1436.4	1436.8	1437.3	1437.8	1438.6	1439.2
155°	1485.5	1485.5	1485.5	1485.5	1485.6	1485.9	1486.2	1486.5	1486.8	1487.9	1489.1
157.5°	1531.0	1530.3	1529.6	1529.0	1528.8	1529.1	1529.4	1529.7	1530.0	1531.2	1532.4
160°	1558.0	1557.1	1556.2	1555.4	1555.1	1555.4	1555.7	1555.9	1556.2	1557.4	1558.5
162.5°	1582.4	1581.7	1581.0	1580.4	1580.1	1580.1	1580.2	1580.2	1580.3	1581.8	1583.2
165°	1614.6	1614.0	1613.5	1612.9	1612.8	1613.0	1613.3	1613.6	1613.9	1615.1	1616.2
167.5°	1641.2	1640.1	1638.9	1637.8	1637.2	1637.2	1637.2	1637.2	1637.2	1638.9	1640.7
170°	1656.0	1654.8	1653.7	1652.4	1651.8	1651.8	1651.8	1651.8	1651.8	1653.7	1655.4
172.5°	1666.4	1665.3	1664.1	1662.9	1662.3	1662.3	1662.3	1662.3	1662.3	1664.1	1665.9
175°	1678.2	1677.1	1675.9	1674.8	1674.2	1674.2	1674.2	1674.2	1674.2	1675.9	1677.6
177.5°	1684.5	1683.5	1682.6	1681.6	1681.1	1680.8	1680.6	1680.4	1680.1	1681.5	1682.9
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1732.9	1732.9	1742.2	1741.6	1747.7	1745.5	1746.6
5°	1862.8	1874.4	1884.6	1891.5	1901.7	1904.4	1903.0
7.5°	1997.5	2023.3	2035.8	2053.0	2056.1	2065.1	2064.2
10°	2080.9	2106.2	2125.3	2140.2	2147.7	2157.3	2158.0
12.5°	2146.4	2167.8	2184.6	2198.6	2207.7	2210.7	2212.5
15°	2197.5	2221.3	2241.1	2260.9	2272.5	2281.3	2286.1
17.5°	2249.0	2285.8	2320.7	2347.5	2363.7	2377.3	2377.1
20°	2288.9	2331.1	2374.7	2405.4	2436.7	2450.3	2452.4
22.5°	2331.4	2396.0	2452.2	2499.7	2540.8	2555.1	2560.4
25°	2419.6	2504.2	2590.8	2657.6	2705.2	2733.2	2737.3
27.5°	2526.4	2640.8	2731.9	2793.5	2833.2	2853.9	2858.3
30°	2601.7	2707.3	2789.1	2835.5	2853.9	2856.6	2846.4
32.5°	2635.4	2714.4	2747.1	2744.4	2708.3	2684.3	2675.1
35°	2594.1	2577.8	2498.1	2402.7	2329.8	2283.4	2271.1
37.5°	2360.8	2219.7	2073.1	1928.8	1852.1	1813.0	1746.0
40°	2130.7	1929.7	1777.0	1655.6	1569.0	1499.5	1483.2
42.5°	1871.2	1663.6	1510.9	1406.9	1337.9	1290.1	1269.4
45°	1503.6	1325.0	1198.9	1119.2	1066.0	1031.3	1015.6
47.5°	1202.6	1064.4	972.5	913.5	873.0	842.7	834.2
50°	1037.4	927.0	849.3	799.5	768.8	745.7	736.1
52.5°	901.1	811.9	752.2	711.1	682.2	667.7	659.7
55°	743.7	666.6	623.7	591.0	574.6	563.0	557.5
57.5°	608.1	552.5	521.2	498.6	483.4	476.1	473.3
60°	532.3	488.7	460.1	442.3	432.1	422.6	419.9
62.5°	465.2	430.9	408.8	393.2	383.0	379.0	377.3
65°	374.9	352.3	336.0	326.5	318.3	316.9	316.3
67.5°	298.0	284.8	276.2	266.2	263.4	258.6	257.6
70°	254.9	246.1	235.8	232.5	229.0	224.3	224.9
72.5°	216.2	207.3	200.4	195.9	194.7	192.6	194.4
75°	158.1	155.4	152.7	149.3	147.9	147.9	147.2
77.5°	112.9	110.6	107.6	105.5	105.1	102.2	103.3
80°	81.8	78.4	77.1	77.7	75.6	74.9	74.9
82.5°	60.5	59.3	58.0	58.1	57.7	57.0	57.6
85°	33.4	32.7	32.7	32.0	32.0	31.3	31.3
87.5°	17.1	17.9	17.1	16.7	16.9	17.6	18.3
90°	25.3	26.8	28.0	28.8	29.7	30.6	31.4
92.5°	56.0	58.0	59.3	59.9	60.6	61.2	61.8
95°	106.9	109.1	110.3	110.9	111.5	112.1	112.7
97.5°	166.3	168.2	169.5	169.8	170.2	170.5	170.9
100°	208.2	210.9	212.5	213.1	213.7	214.3	214.8
102.5°	250.9	253.8	255.6	256.4	257.2	258.0	258.8
105°	318.3	320.0	321.3	322.2	323.2	324.0	324.9
107.5°	391.4	392.3	392.7	392.6	392.5	392.5	392.4
110°	442.7	443.6	443.9	443.6	443.3	443.0	442.7



TEST NUMBER: P333713-840

CATALOG NUMBER: S125RDIW-S1090D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	493.7	494.1	494.1	493.6	493.1	492.5	492.0
115°	571.6	571.3	571.0	570.7	570.4	570.2	569.9
117.5°	650.7	651.0	650.5	649.3	648.1	647.0	645.8
120°	703.5	703.5	702.9	701.7	700.5	699.3	698.2
122.5°	755.2	754.9	754.4	753.4	752.5	751.5	750.6
125°	831.4	830.8	830.4	830.1	829.8	829.5	829.2
127.5°	907.7	907.5	907.0	906.5	905.8	905.2	904.6
130°	958.1	957.8	957.3	956.7	956.1	955.5	954.9
132.5°	1006.2	1005.9	1005.4	1004.6	1003.7	1002.9	1002.1
135°	1080.8	1080.8	1080.2	1078.9	1077.8	1076.6	1075.5
137.5°	1153.3	1153.7	1153.1	1151.7	1150.1	1148.7	1147.3
140°	1199.0	1199.6	1199.2	1197.7	1196.3	1194.9	1193.4
142.5°	1243.4	1243.7	1243.2	1241.7	1240.3	1238.8	1237.4
145°	1307.4	1307.4	1306.9	1306.1	1305.1	1304.2	1303.4
147.5°	1367.6	1368.3	1367.7	1365.6	1363.7	1361.7	1359.8
150°	1404.3	1404.3	1404.0	1403.4	1402.8	1402.2	1401.7
152.5°	1439.9	1440.6	1440.5	1439.4	1438.4	1437.2	1436.2
155°	1490.3	1491.5	1491.3	1489.9	1488.4	1486.9	1485.5
157.5°	1533.5	1534.7	1534.3	1532.4	1530.5	1528.5	1526.6
160°	1559.7	1560.8	1560.7	1559.3	1557.8	1556.4	1554.9
162.5°	1584.5	1585.9	1585.8	1584.1	1582.4	1580.7	1579.0
165°	1617.4	1618.5	1618.2	1616.5	1614.8	1613.0	1611.2
167.5°	1642.4	1644.2	1644.2	1642.3	1640.5	1638.7	1636.9
170°	1657.1	1658.8	1658.7	1656.7	1654.7	1652.5	1650.5
172.5°	1667.6	1669.3	1669.3	1667.5	1665.7	1663.9	1662.0
175°	1679.4	1681.1	1680.9	1678.9	1676.9	1674.9	1672.8
177.5°	1684.4	1685.8	1685.7	1683.9	1682.3	1680.7	1679.1
180°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3

(END OF REPORT)