

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: P332860-927

Luminaire Tested: **S124DIW-S1195D1560U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332860-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1560U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8502.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

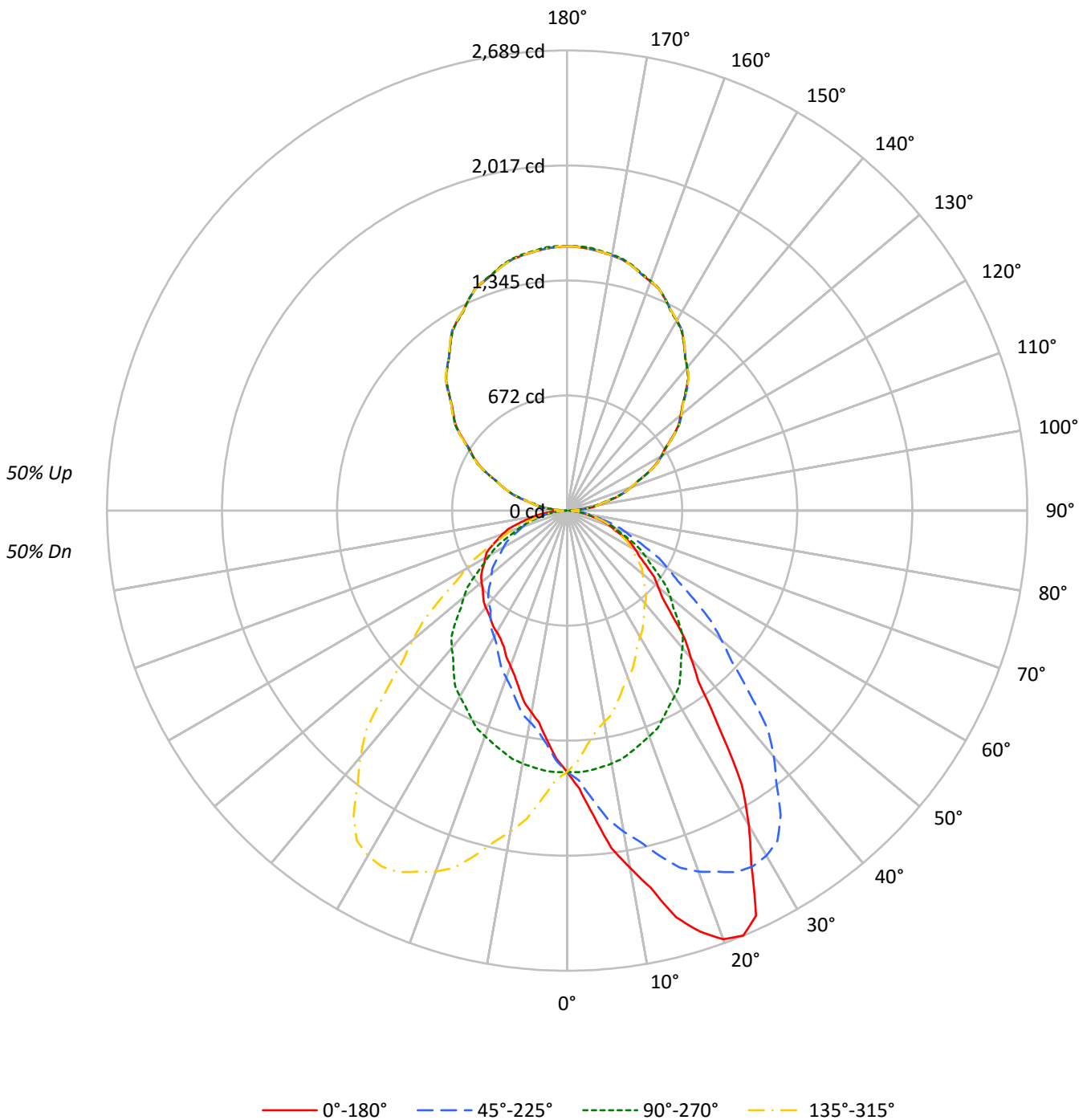
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



TEST NUMBER: P332860-927

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.7
10°-20°	458.5	5.4
20°-30°	727.0	8.6
30°-40°	809.1	9.5
40°-50°	736.5	8.7
50°-60°	601.9	7.1
60°-70°	429.7	5.1
70°-80°	236.6	2.8
80°-90°	69.2	0.8
90°-100°	101.9	1.2
100°-110°	301.8	3.5
110°-120°	512.2	6.0
120°-130°	675.4	7.9
130°-140°	758.5	8.9
140°-150°	745.3	8.8
150°-160°	626.9	7.4
160°-170°	417.1	4.9
170°-180°	146.1	1.7
0°-30°	1334.3	15.7
0°-40°	2143.4	25.2
0°-60°	3481.7	41.0
0°-90°	4217.2	49.6
90°-120°	915.8	10.8
90°-150°	3095.0	36.4
90°-180°	4285.0	50.4
0°-180°	8502.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	47
90°	36	4	36	4	36	20
95°	94	72	94	72	94	98
105°	291	278	291	278	291	307
115°	516	521	516	521	516	510
125°	752	758	752	758	752	671
135°	980	978	980	978	980	756
145°	1190	1188	1190	1188	1190	744
155°	1360	1362	1360	1362	1360	626
165°	1479	1482	1479	1482	1479	416
175°	1535	1542	1535	1542	1535	146
180°	1544	1544	1544	1544	1544	



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	18.3	19.7	19.6	20.0	20.9	21.2	21.4	20.6	22.3	22.5	24.1
90°	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5	27.9	26.3	24.2
92.5°	53.0	52.7	52.4	52.0	51.7	51.1	50.1	49.2	48.2	47.3	45.8
95°	94.3	94.3	94.3	94.3	94.3	94.0	93.2	92.4	91.6	90.8	89.0
97.5°	147.9	147.9	147.9	147.9	147.9	147.4	146.5	145.5	144.5	143.5	141.4
100°	185.1	185.1	185.1	185.1	185.1	184.9	184.3	183.8	183.3	182.8	180.4
102.5°	227.2	227.0	226.8	226.6	226.3	225.9	225.1	224.3	223.6	222.9	220.7
105°	291.4	290.7	289.9	289.1	288.3	287.5	286.7	285.9	285.1	284.3	283.2
107.5°	354.0	354.1	354.2	354.2	354.3	353.9	353.2	352.4	351.6	350.9	350.8
110°	398.9	398.2	397.4	396.6	395.8	395.6	396.2	396.7	397.2	397.8	398.0



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	444.8	444.7	444.5	444.3	444.2	444.2	444.3	444.3	444.5	444.6	445.0
115°	516.0	516.3	516.6	516.8	517.1	517.4	517.6	517.8	518.2	518.4	519.0
117.5°	583.8	584.4	584.9	585.4	586.0	586.7	587.6	588.5	589.4	590.3	590.7
120°	635.5	634.9	634.4	633.9	633.3	633.7	635.1	636.4	637.7	639.1	639.8
122.5°	678.5	679.5	680.4	681.4	682.3	683.3	684.1	685.0	686.0	686.8	687.2
125°	752.5	753.0	753.6	754.1	754.6	755.2	755.7	756.2	756.8	757.3	757.6
127.5°	821.1	821.5	822.0	822.4	822.8	823.2	823.8	824.3	824.8	825.4	825.9
130°	866.0	867.0	868.2	869.2	870.2	871.0	871.6	872.1	872.7	873.1	873.1
132.5°	913.8	914.2	914.7	915.0	915.4	915.9	916.5	917.0	917.6	918.1	918.3
135°	979.5	980.2	981.0	981.8	982.6	983.3	983.9	984.4	984.9	985.5	985.5
137.5°	1048.5	1048.4	1048.2	1048.1	1047.9	1048.1	1048.8	1049.6	1050.2	1050.9	1050.5
140°	1090.6	1090.8	1091.1	1091.4	1091.6	1091.9	1092.2	1092.4	1092.7	1093.0	1093.0
142.5°	1132.6	1132.7	1132.7	1132.7	1132.8	1132.9	1132.9	1133.0	1133.1	1133.1	1133.3
145°	1189.7	1190.5	1191.3	1192.1	1192.9	1193.4	1193.7	1194.0	1194.2	1194.5	1194.2
147.5°	1247.5	1247.8	1248.1	1248.3	1248.6	1248.8	1249.0	1249.3	1249.4	1249.7	1249.9
150°	1282.9	1283.2	1283.4	1283.7	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0
152.5°	1315.3	1316.1	1316.8	1317.4	1318.1	1318.1	1317.5	1316.8	1316.2	1315.6	1315.4
155°	1360.5	1361.6	1362.6	1363.7	1364.8	1364.8	1363.7	1362.6	1361.6	1360.5	1360.8
157.5°	1400.9	1401.8	1402.7	1403.6	1404.5	1404.5	1403.7	1403.0	1402.2	1401.4	1401.4
160°	1423.8	1425.1	1426.5	1427.8	1429.1	1429.4	1428.6	1427.8	1427.0	1426.2	1426.5
162.5°	1447.7	1449.1	1450.4	1451.7	1453.0	1452.9	1451.5	1450.1	1448.7	1447.2	1447.5
165°	1478.8	1479.8	1480.9	1481.9	1483.0	1482.7	1481.1	1479.6	1478.0	1476.4	1476.9
167.5°	1500.9	1502.6	1504.3	1505.9	1507.6	1507.6	1506.0	1504.4	1502.8	1501.3	1501.2
170°	1513.4	1515.3	1517.1	1519.0	1520.8	1521.0	1519.4	1517.8	1516.2	1514.6	1514.3
172.5°	1523.9	1525.7	1527.6	1529.5	1531.4	1531.4	1529.5	1527.8	1526.0	1524.2	1524.1
175°	1534.9	1536.8	1538.7	1540.5	1542.4	1542.4	1540.5	1538.7	1536.8	1534.9	1535.2
177.5°	1540.6	1542.4	1544.0	1545.7	1547.4	1547.5	1546.0	1544.6	1543.1	1541.6	1541.6
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	23.6	23.7	22.8	20.3	18.1	16.1	15.0	13.9	15.0	16.1	17.1
90°	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6	6.5	9.4	12.4
92.5°	44.4	42.9	41.4	39.0	35.6	32.2	28.9	25.6	28.9	32.2	35.6
95°	87.1	85.2	83.3	81.2	78.8	76.4	74.1	71.7	74.1	76.4	78.8
97.5°	139.2	137.0	134.9	132.8	130.9	129.0	127.1	125.2	127.1	129.0	130.9
100°	178.0	175.6	173.2	171.5	170.4	169.4	168.3	167.2	168.3	169.4	170.4
102.5°	218.6	216.3	214.2	212.9	212.5	212.1	211.6	211.2	211.6	212.1	212.5
105°	282.2	281.1	280.0	279.4	279.1	278.8	278.6	278.3	278.6	278.8	279.1
107.5°	350.6	350.5	350.3	350.1	349.7	349.4	349.1	348.8	349.1	349.4	349.7
110°	398.3	398.5	398.9	398.7	398.2	397.6	397.1	396.6	397.1	397.6	398.2



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	445.5	446.0	446.5	446.7	446.6	446.5	446.4	446.2	446.4	446.5	446.6
115°	519.4	520.0	520.5	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8
117.5°	591.0	591.4	591.8	591.9	591.7	591.4	591.2	591.0	591.2	591.4	591.7
120°	640.6	641.4	642.2	642.1	641.0	640.0	638.9	637.9	638.9	640.0	641.0
122.5°	687.5	687.9	688.3	688.2	687.9	687.5	687.0	686.6	687.0	687.5	687.9
125°	757.8	758.1	758.4	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
127.5°	826.2	826.6	827.1	826.9	826.1	825.3	824.5	823.7	824.5	825.3	826.1
130°	873.1	873.1	873.1	872.7	872.0	871.2	870.4	869.6	870.4	871.2	872.0
132.5°	918.5	918.7	918.9	918.8	918.1	917.6	917.0	916.4	917.0	917.6	918.1
135°	985.5	985.5	985.5	984.7	983.1	981.4	979.9	978.3	979.9	981.4	983.1
137.5°	1050.0	1049.6	1049.2	1048.6	1047.9	1047.1	1046.4	1045.7	1046.4	1047.1	1047.9
140°	1093.0	1093.0	1093.0	1092.7	1092.2	1091.6	1091.1	1090.6	1091.1	1091.6	1092.2
142.5°	1133.5	1133.7	1133.9	1133.8	1133.2	1132.7	1132.2	1131.6	1132.2	1132.7	1133.2
145°	1194.0	1193.7	1193.4	1192.8	1191.7	1190.6	1189.5	1188.5	1189.5	1190.6	1191.7
147.5°	1250.1	1250.3	1250.5	1250.0	1248.7	1247.4	1246.2	1244.9	1246.2	1247.4	1248.7
150°	1284.0	1284.0	1284.0	1283.6	1282.5	1281.4	1280.3	1279.3	1280.3	1281.4	1282.5
152.5°	1315.2	1314.9	1314.8	1314.3	1313.7	1313.0	1312.4	1311.8	1312.4	1313.0	1313.7
155°	1361.0	1361.3	1361.6	1361.7	1361.7	1361.7	1361.7	1361.7	1361.7	1361.7	1361.7
157.5°	1401.4	1401.5	1401.6	1401.8	1402.3	1402.8	1403.3	1403.7	1403.3	1402.8	1402.3
160°	1426.7	1427.0	1427.3	1427.5	1427.8	1428.1	1428.3	1428.6	1428.3	1428.1	1427.8
162.5°	1447.8	1448.0	1448.3	1448.7	1449.5	1450.2	1450.9	1451.5	1450.9	1450.2	1449.5
165°	1477.4	1478.0	1478.5	1479.2	1480.0	1480.7	1481.5	1482.3	1481.5	1480.7	1480.0
167.5°	1501.1	1501.1	1501.0	1501.6	1502.7	1503.8	1504.9	1506.0	1504.9	1503.8	1502.7
170°	1514.1	1513.8	1513.5	1514.1	1515.4	1516.7	1518.1	1519.4	1518.1	1516.7	1515.4
172.5°	1524.1	1524.0	1523.9	1524.5	1525.6	1526.7	1527.8	1528.9	1527.8	1526.7	1525.6
175°	1535.4	1535.7	1536.0	1536.8	1538.1	1539.4	1540.7	1542.1	1540.7	1539.4	1538.1
177.5°	1541.6	1541.6	1541.6	1542.1	1543.2	1544.3	1545.3	1546.3	1545.3	1544.3	1543.2
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	19.3	19.7	22.2	23.6	25.6	28.5	29.9	35.7	38.1	41.0	45.7
90°	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5	31.1	32.6	33.7
92.5°	39.0	41.4	42.9	44.4	45.8	47.3	48.2	49.2	50.1	51.1	51.7
95°	81.2	83.3	85.2	87.1	89.0	90.8	91.6	92.4	93.2	94.0	94.3
97.5°	132.8	134.9	137.0	139.2	141.4	143.5	144.5	145.5	146.5	147.4	147.9
100°	171.5	173.2	175.6	178.0	180.4	182.8	183.3	183.8	184.3	184.9	185.1
102.5°	212.9	214.2	216.3	218.6	220.7	222.9	223.6	224.3	225.1	225.9	226.3
105°	279.4	280.0	281.1	282.2	283.2	284.3	285.1	285.9	286.7	287.5	288.3
107.5°	350.1	350.3	350.5	350.6	350.8	350.9	351.6	352.4	353.2	353.9	354.3
110°	398.7	398.9	398.5	398.3	398.0	397.8	397.2	396.7	396.2	395.6	395.8



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	446.7	446.5	446.0	445.5	445.0	444.6	444.5	444.3	444.3	444.2	444.2
115°	520.8	520.5	520.0	519.4	519.0	518.4	518.2	517.8	517.6	517.4	517.1
117.5°	591.9	591.8	591.4	591.0	590.7	590.3	589.4	588.5	587.6	586.7	586.0
120°	642.1	642.2	641.4	640.6	639.8	639.1	637.7	636.4	635.1	633.7	633.3
122.5°	688.2	688.3	687.9	687.5	687.2	686.8	686.0	685.0	684.1	683.3	682.3
125°	758.5	758.4	758.1	757.8	757.6	757.3	756.8	756.2	755.7	755.2	754.6
127.5°	826.9	827.1	826.6	826.2	825.9	825.4	824.8	824.3	823.8	823.2	822.8
130°	872.7	873.1	873.1	873.1	873.1	873.1	872.7	872.1	871.6	871.0	870.2
132.5°	918.8	918.9	918.7	918.5	918.3	918.1	917.6	917.0	916.5	915.9	915.4
135°	984.7	985.5	985.5	985.5	985.5	985.5	984.9	984.4	983.9	983.3	982.6
137.5°	1048.6	1049.2	1049.6	1050.0	1050.5	1050.9	1050.2	1049.6	1048.8	1048.1	1047.9
140°	1092.7	1093.0	1093.0	1093.0	1093.0	1093.0	1092.7	1092.4	1092.2	1091.9	1091.6
142.5°	1133.8	1133.9	1133.7	1133.5	1133.3	1133.1	1133.1	1133.0	1132.9	1132.9	1132.8
145°	1192.8	1193.4	1193.7	1194.0	1194.2	1194.5	1194.2	1194.0	1193.7	1193.4	1192.9
147.5°	1250.0	1250.5	1250.3	1250.1	1249.9	1249.7	1249.4	1249.3	1249.0	1248.8	1248.6
150°	1283.6	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0
152.5°	1314.3	1314.8	1314.9	1315.2	1315.4	1315.6	1316.2	1316.8	1317.5	1318.1	1318.1
155°	1361.7	1361.6	1361.3	1361.0	1360.8	1360.5	1361.6	1362.6	1363.7	1364.8	1364.8
157.5°	1401.8	1401.6	1401.5	1401.4	1401.4	1401.4	1402.2	1403.0	1403.7	1404.5	1404.5
160°	1427.5	1427.3	1427.0	1426.7	1426.5	1426.2	1427.0	1427.8	1428.6	1429.4	1429.1
162.5°	1448.7	1448.3	1448.0	1447.8	1447.5	1447.2	1448.7	1450.1	1451.5	1452.9	1453.0
165°	1479.2	1478.5	1478.0	1477.4	1476.9	1476.4	1478.0	1479.6	1481.1	1482.7	1483.0
167.5°	1501.6	1501.0	1501.1	1501.1	1501.2	1501.3	1502.8	1504.4	1506.0	1507.6	1507.6
170°	1514.1	1513.5	1513.8	1514.1	1514.3	1514.6	1516.2	1517.8	1519.4	1521.0	1520.8
172.5°	1524.5	1523.9	1524.0	1524.1	1524.1	1524.2	1526.0	1527.8	1529.5	1531.4	1531.4
175°	1536.8	1536.0	1535.7	1535.4	1535.2	1534.9	1536.8	1538.7	1540.5	1542.4	1542.4
177.5°	1542.1	1541.6	1541.6	1541.6	1541.6	1541.6	1543.1	1544.6	1546.0	1547.5	1547.4
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	47.3	47.9	49.6	50.7	49.6	47.9	47.3	45.7	41.0	38.1	35.7
90°	34.2	34.8	35.3	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5
92.5°	52.0	52.4	52.7	53.0	52.7	52.4	52.0	51.7	51.1	50.1	49.2
95°	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.0	93.2	92.4
97.5°	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.4	146.5	145.5
100°	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	184.9	184.3	183.8
102.5°	226.6	226.8	227.0	227.2	227.0	226.8	226.6	226.3	225.9	225.1	224.3
105°	289.1	289.9	290.7	291.4	290.7	289.9	289.1	288.3	287.5	286.7	285.9
107.5°	354.2	354.2	354.1	354.0	354.1	354.2	354.2	354.3	353.9	353.2	352.4
110°	396.6	397.4	398.2	398.9	398.2	397.4	396.6	395.8	395.6	396.2	396.7



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	444.3	444.5	444.7	444.8	444.7	444.5	444.3	444.2	444.2	444.3	444.3
115°	516.8	516.6	516.3	516.0	516.3	516.6	516.8	517.1	517.4	517.6	517.8
117.5°	585.4	584.9	584.4	583.8	584.4	584.9	585.4	586.0	586.7	587.6	588.5
120°	633.9	634.4	634.9	635.5	634.9	634.4	633.9	633.3	633.7	635.1	636.4
122.5°	681.4	680.4	679.5	678.5	679.5	680.4	681.4	682.3	683.3	684.1	685.0
125°	754.1	753.6	753.0	752.5	753.0	753.6	754.1	754.6	755.2	755.7	756.2
127.5°	822.4	822.0	821.5	821.1	821.5	822.0	822.4	822.8	823.2	823.8	824.3
130°	869.2	868.2	867.0	866.0	867.0	868.2	869.2	870.2	871.0	871.6	872.1
132.5°	915.0	914.7	914.2	913.8	914.2	914.7	915.0	915.4	915.9	916.5	917.0
135°	981.8	981.0	980.2	979.5	980.2	981.0	981.8	982.6	983.3	983.9	984.4
137.5°	1048.1	1048.2	1048.4	1048.5	1048.4	1048.2	1048.1	1047.9	1048.1	1048.8	1049.6
140°	1091.4	1091.1	1090.8	1090.6	1090.8	1091.1	1091.4	1091.6	1091.9	1092.2	1092.4
142.5°	1132.7	1132.7	1132.7	1132.6	1132.7	1132.7	1132.7	1132.8	1132.9	1132.9	1133.0
145°	1192.1	1191.3	1190.5	1189.7	1190.5	1191.3	1192.1	1192.9	1193.4	1193.7	1194.0
147.5°	1248.3	1248.1	1247.8	1247.5	1247.8	1248.1	1248.3	1248.6	1248.8	1249.0	1249.3
150°	1283.7	1283.4	1283.2	1282.9	1283.2	1283.4	1283.7	1284.0	1284.0	1284.0	1284.0
152.5°	1317.4	1316.8	1316.1	1315.3	1316.1	1316.8	1317.4	1318.1	1318.1	1317.5	1316.8
155°	1363.7	1362.6	1361.6	1360.5	1361.6	1362.6	1363.7	1364.8	1364.8	1363.7	1362.6
157.5°	1403.6	1402.7	1401.8	1400.9	1401.8	1402.7	1403.6	1404.5	1404.5	1403.7	1403.0
160°	1427.8	1426.5	1425.1	1423.8	1425.1	1426.5	1427.8	1429.1	1429.4	1428.6	1427.8
162.5°	1451.7	1450.4	1449.1	1447.7	1449.1	1450.4	1451.7	1453.0	1452.9	1451.5	1450.1
165°	1481.9	1480.9	1479.8	1478.8	1479.8	1480.9	1481.9	1483.0	1482.7	1481.1	1479.6
167.5°	1505.9	1504.3	1502.6	1500.9	1502.6	1504.3	1505.9	1507.6	1507.6	1506.0	1504.4
170°	1519.0	1517.1	1515.3	1513.4	1515.3	1517.1	1519.0	1520.8	1521.0	1519.4	1517.8
172.5°	1529.5	1527.6	1525.7	1523.9	1525.7	1527.6	1529.5	1531.4	1531.4	1529.5	1527.8
175°	1540.5	1538.7	1536.8	1534.9	1536.8	1538.7	1540.5	1542.4	1542.4	1540.5	1538.7
177.5°	1545.7	1544.0	1542.4	1540.6	1542.4	1544.0	1545.7	1547.4	1547.5	1546.0	1544.6
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	29.9	28.5	25.6	23.6	22.2	19.7	19.3	17.1	16.1	15.0	13.9
90°	27.9	26.3	24.2	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6
92.5°	48.2	47.3	45.8	44.4	42.9	41.4	39.0	35.6	32.2	28.9	25.6
95°	91.6	90.8	89.0	87.1	85.2	83.3	81.2	78.8	76.4	74.1	71.7
97.5°	144.5	143.5	141.4	139.2	137.0	134.9	132.8	130.9	129.0	127.1	125.2
100°	183.3	182.8	180.4	178.0	175.6	173.2	171.5	170.4	169.4	168.3	167.2
102.5°	223.6	222.9	220.7	218.6	216.3	214.2	212.9	212.5	212.1	211.6	211.2
105°	285.1	284.3	283.2	282.2	281.1	280.0	279.4	279.1	278.8	278.6	278.3
107.5°	351.6	350.9	350.8	350.6	350.5	350.3	350.1	349.7	349.4	349.1	348.8
110°	397.2	397.8	398.0	398.3	398.5	398.9	398.7	398.2	397.6	397.1	396.6



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	444.5	444.6	445.0	445.5	446.0	446.5	446.7	446.6	446.5	446.4	446.2
115°	518.2	518.4	519.0	519.4	520.0	520.5	520.8	520.8	520.8	520.8	520.8
117.5°	589.4	590.3	590.7	591.0	591.4	591.8	591.9	591.7	591.4	591.2	591.0
120°	637.7	639.1	639.8	640.6	641.4	642.2	642.1	641.0	640.0	638.9	637.9
122.5°	686.0	686.8	687.2	687.5	687.9	688.3	688.2	687.9	687.5	687.0	686.6
125°	756.8	757.3	757.6	757.8	758.1	758.4	758.5	758.5	758.5	758.5	758.5
127.5°	824.8	825.4	825.9	826.2	826.6	827.1	826.9	826.1	825.3	824.5	823.7
130°	872.7	873.1	873.1	873.1	873.1	873.1	872.7	872.0	871.2	870.4	869.6
132.5°	917.6	918.1	918.3	918.5	918.7	918.9	918.8	918.1	917.6	917.0	916.4
135°	984.9	985.5	985.5	985.5	985.5	985.5	984.7	983.1	981.4	979.9	978.3
137.5°	1050.2	1050.9	1050.5	1050.0	1049.6	1049.2	1048.6	1047.9	1047.1	1046.4	1045.7
140°	1092.7	1093.0	1093.0	1093.0	1093.0	1093.0	1092.7	1092.2	1091.6	1091.1	1090.6
142.5°	1133.1	1133.1	1133.3	1133.5	1133.7	1133.9	1133.8	1133.2	1132.7	1132.2	1131.6
145°	1194.2	1194.5	1194.2	1194.0	1193.7	1193.4	1192.8	1191.7	1190.6	1189.5	1188.5
147.5°	1249.4	1249.7	1249.9	1250.1	1250.3	1250.5	1250.0	1248.7	1247.4	1246.2	1244.9
150°	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1283.6	1282.5	1281.4	1280.3	1279.3
152.5°	1316.2	1315.6	1315.4	1315.2	1314.9	1314.8	1314.3	1313.7	1313.0	1312.4	1311.8
155°	1361.6	1360.5	1360.8	1361.0	1361.3	1361.6	1361.7	1361.7	1361.7	1361.7	1361.7
157.5°	1402.2	1401.4	1401.4	1401.4	1401.5	1401.6	1401.8	1402.3	1402.8	1403.3	1403.7
160°	1427.0	1426.2	1426.5	1426.7	1427.0	1427.3	1427.5	1427.8	1428.1	1428.3	1428.6
162.5°	1448.7	1447.2	1447.5	1447.8	1448.0	1448.3	1448.7	1449.5	1450.2	1450.9	1451.5
165°	1478.0	1476.4	1476.9	1477.4	1478.0	1478.5	1479.2	1480.0	1480.7	1481.5	1482.3
167.5°	1502.8	1501.3	1501.2	1501.1	1501.1	1501.0	1501.6	1502.7	1503.8	1504.9	1506.0
170°	1516.2	1514.6	1514.3	1514.1	1513.8	1513.5	1514.1	1515.4	1516.7	1518.1	1519.4
172.5°	1526.0	1524.2	1524.1	1524.1	1524.0	1523.9	1524.5	1525.6	1526.7	1527.8	1528.9
175°	1536.8	1534.9	1535.2	1535.4	1535.7	1536.0	1536.8	1538.1	1539.4	1540.7	1542.1
177.5°	1543.1	1541.6	1541.6	1541.6	1541.6	1541.6	1542.1	1543.2	1544.3	1545.3	1546.3
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	15.0	16.1	18.1	20.3	22.8	23.7	23.6	24.1	22.5	22.3	20.6
90°	6.5	9.4	12.4	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5
92.5°	28.9	32.2	35.6	39.0	41.4	42.9	44.4	45.8	47.3	48.2	49.2
95°	74.1	76.4	78.8	81.2	83.3	85.2	87.1	89.0	90.8	91.6	92.4
97.5°	127.1	129.0	130.9	132.8	134.9	137.0	139.2	141.4	143.5	144.5	145.5
100°	168.3	169.4	170.4	171.5	173.2	175.6	178.0	180.4	182.8	183.3	183.8
102.5°	211.6	212.1	212.5	212.9	214.2	216.3	218.6	220.7	222.9	223.6	224.3
105°	278.6	278.8	279.1	279.4	280.0	281.1	282.2	283.2	284.3	285.1	285.9
107.5°	349.1	349.4	349.7	350.1	350.3	350.5	350.6	350.8	350.9	351.6	352.4
110°	397.1	397.6	398.2	398.7	398.9	398.5	398.3	398.0	397.8	397.2	396.7



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	446.4	446.5	446.6	446.7	446.5	446.0	445.5	445.0	444.6	444.5	444.3
115°	520.8	520.8	520.8	520.8	520.5	520.0	519.4	519.0	518.4	518.2	517.8
117.5°	591.2	591.4	591.7	591.9	591.8	591.4	591.0	590.7	590.3	589.4	588.5
120°	638.9	640.0	641.0	642.1	642.2	641.4	640.6	639.8	639.1	637.7	636.4
122.5°	687.0	687.5	687.9	688.2	688.3	687.9	687.5	687.2	686.8	686.0	685.0
125°	758.5	758.5	758.5	758.5	758.4	758.1	757.8	757.6	757.3	756.8	756.2
127.5°	824.5	825.3	826.1	826.9	827.1	826.6	826.2	825.9	825.4	824.8	824.3
130°	870.4	871.2	872.0	872.7	873.1	873.1	873.1	873.1	873.1	872.7	872.1
132.5°	917.0	917.6	918.1	918.8	918.9	918.7	918.5	918.3	918.1	917.6	917.0
135°	979.9	981.4	983.1	984.7	985.5	985.5	985.5	985.5	985.5	984.9	984.4
137.5°	1046.4	1047.1	1047.9	1048.6	1049.2	1049.6	1050.0	1050.5	1050.9	1050.2	1049.6
140°	1091.1	1091.6	1092.2	1092.7	1093.0	1093.0	1093.0	1093.0	1093.0	1092.7	1092.4
142.5°	1132.2	1132.7	1133.2	1133.8	1133.9	1133.7	1133.5	1133.3	1133.1	1133.1	1133.0
145°	1189.5	1190.6	1191.7	1192.8	1193.4	1193.7	1194.0	1194.2	1194.5	1194.2	1194.0
147.5°	1246.2	1247.4	1248.7	1250.0	1250.5	1250.3	1250.1	1249.9	1249.7	1249.4	1249.3
150°	1280.3	1281.4	1282.5	1283.6	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0	1284.0
152.5°	1312.4	1313.0	1313.7	1314.3	1314.8	1314.9	1315.2	1315.4	1315.6	1316.2	1316.8
155°	1361.7	1361.7	1361.7	1361.7	1361.6	1361.3	1361.0	1360.8	1360.5	1361.6	1362.6
157.5°	1403.3	1402.8	1402.3	1401.8	1401.6	1401.5	1401.4	1401.4	1401.4	1402.2	1403.0
160°	1428.3	1428.1	1427.8	1427.5	1427.3	1427.0	1426.7	1426.5	1426.2	1427.0	1427.8
162.5°	1450.9	1450.2	1449.5	1448.7	1448.3	1448.0	1447.8	1447.5	1447.2	1448.7	1450.1
165°	1481.5	1480.7	1480.0	1479.2	1478.5	1478.0	1477.4	1476.9	1476.4	1478.0	1479.6
167.5°	1504.9	1503.8	1502.7	1501.6	1501.0	1501.1	1501.1	1501.2	1501.3	1502.8	1504.4
170°	1518.1	1516.7	1515.4	1514.1	1513.5	1513.8	1514.1	1514.3	1514.6	1516.2	1517.8
172.5°	1527.8	1526.7	1525.6	1524.5	1523.9	1524.0	1524.1	1524.1	1524.2	1526.0	1527.8
175°	1540.7	1539.4	1538.1	1536.8	1536.0	1535.7	1535.4	1535.2	1534.9	1536.8	1538.7
177.5°	1545.3	1544.3	1543.2	1542.1	1541.6	1541.6	1541.6	1541.6	1541.6	1543.1	1544.6
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	21.4	21.2	20.9	20.0	19.6	19.7	18.3
90°	31.1	32.6	33.7	34.2	34.8	35.3	35.8
92.5°	50.1	51.1	51.7	52.0	52.4	52.7	53.0
95°	93.2	94.0	94.3	94.3	94.3	94.3	94.3
97.5°	146.5	147.4	147.9	147.9	147.9	147.9	147.9
100°	184.3	184.9	185.1	185.1	185.1	185.1	185.1
102.5°	225.1	225.9	226.3	226.6	226.8	227.0	227.2
105°	286.7	287.5	288.3	289.1	289.9	290.7	291.4
107.5°	353.2	353.9	354.3	354.2	354.2	354.1	354.0
110°	396.2	395.6	395.8	396.6	397.4	398.2	398.9



TEST NUMBER: P332860-927

CATALOG NUMBER: S124DIW-S1195D1560U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	444.3	444.2	444.2	444.3	444.5	444.7	444.8
115°	517.6	517.4	517.1	516.8	516.6	516.3	516.0
117.5°	587.6	586.7	586.0	585.4	584.9	584.4	583.8
120°	635.1	633.7	633.3	633.9	634.4	634.9	635.5
122.5°	684.1	683.3	682.3	681.4	680.4	679.5	678.5
125°	755.7	755.2	754.6	754.1	753.6	753.0	752.5
127.5°	823.8	823.2	822.8	822.4	822.0	821.5	821.1
130°	871.6	871.0	870.2	869.2	868.2	867.0	866.0
132.5°	916.5	915.9	915.4	915.0	914.7	914.2	913.8
135°	983.9	983.3	982.6	981.8	981.0	980.2	979.5
137.5°	1048.8	1048.1	1047.9	1048.1	1048.2	1048.4	1048.5
140°	1092.2	1091.9	1091.6	1091.4	1091.1	1090.8	1090.6
142.5°	1132.9	1132.9	1132.8	1132.7	1132.7	1132.7	1132.6
145°	1193.7	1193.4	1192.9	1192.1	1191.3	1190.5	1189.7
147.5°	1249.0	1248.8	1248.6	1248.3	1248.1	1247.8	1247.5
150°	1284.0	1284.0	1284.0	1283.7	1283.4	1283.2	1282.9
152.5°	1317.5	1318.1	1318.1	1317.4	1316.8	1316.1	1315.3
155°	1363.7	1364.8	1364.8	1363.7	1362.6	1361.6	1360.5
157.5°	1403.7	1404.5	1404.5	1403.6	1402.7	1401.8	1400.9
160°	1428.6	1429.4	1429.1	1427.8	1426.5	1425.1	1423.8
162.5°	1451.5	1452.9	1453.0	1451.7	1450.4	1449.1	1447.7
165°	1481.1	1482.7	1483.0	1481.9	1480.9	1479.8	1478.8
167.5°	1506.0	1507.6	1507.6	1505.9	1504.3	1502.6	1500.9
170°	1519.4	1521.0	1520.8	1519.0	1517.1	1515.3	1513.4
172.5°	1529.5	1531.4	1531.4	1529.5	1527.6	1525.7	1523.9
175°	1540.5	1542.4	1542.4	1540.5	1538.7	1536.8	1534.9
177.5°	1546.0	1547.5	1547.4	1545.7	1544.0	1542.4	1540.6
180°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4

(END OF REPORT)