

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: P332847

Luminaire Tested: **S124DIW-S1195D1050U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332847
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1050U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9511.8 lumens
Efficiency: N/A
Efficacy: 141.1 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

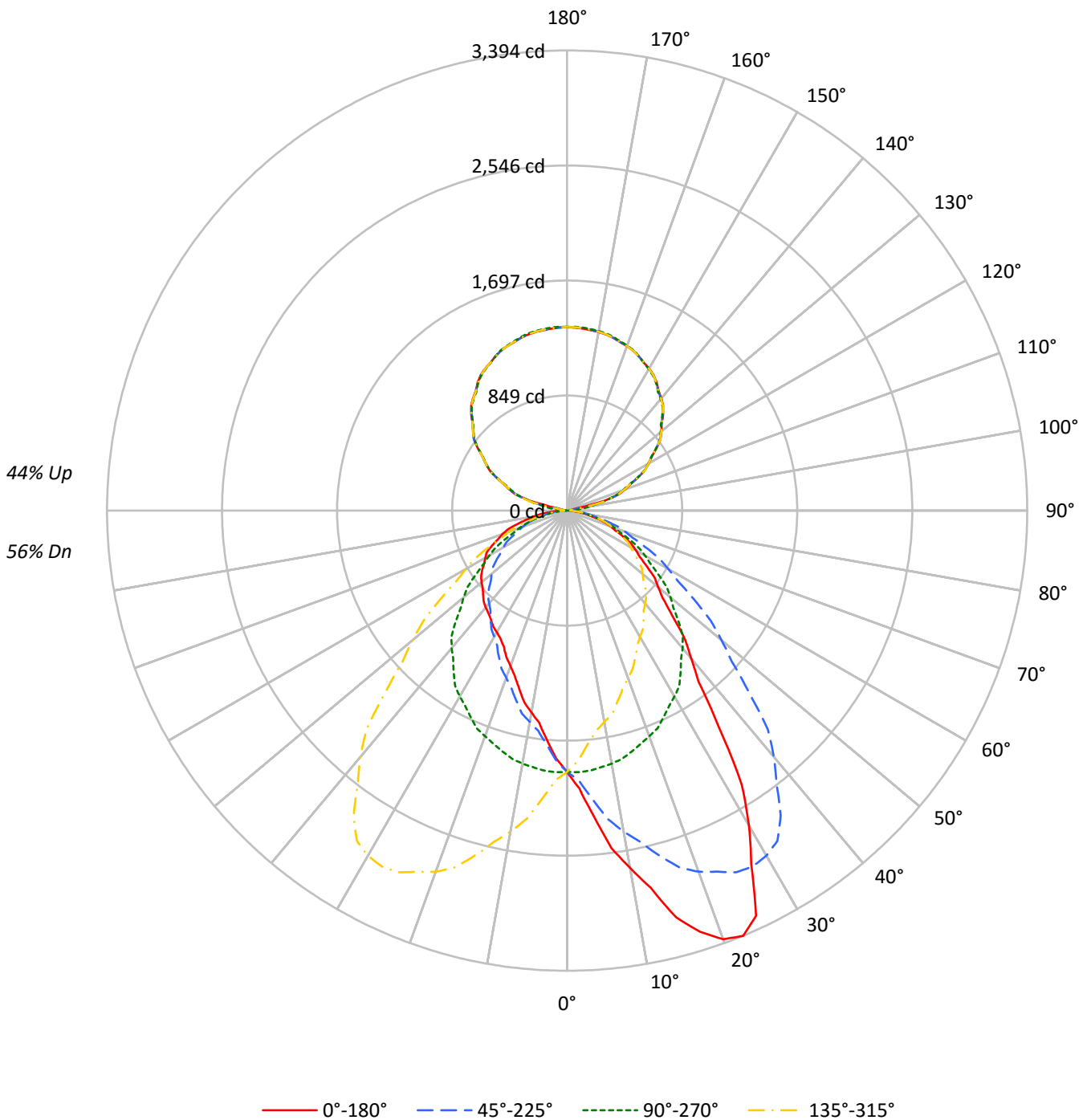
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52	48				
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40				
3	83	73	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34				
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30				
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26				
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23				
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20				
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18				
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17				
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.0
10°-20°	578.8	6.1
20°-30°	917.8	9.6
30°-40°	1021.3	10.7
40°-50°	929.7	9.8
50°-60°	759.7	8.0
60°-70°	542.4	5.7
70°-80°	298.7	3.1
80°-90°	85.5	0.9
90°-100°	46.3	0.5
100°-110°	295.4	3.1
110°-120°	565.1	5.9
120°-130°	717.4	7.5
130°-140°	767.5	8.1
140°-150°	717.7	7.5
150°-160°	578.8	6.1
160°-170°	373.3	3.9
170°-180°	128.7	1.4
0°-30°	1684.3	17.7
0°-40°	2705.6	28.4
0°-60°	4395.1	46.2
0°-90°	5321.6	55.9
90°-120°	906.8	9.5
90°-150°	3109.5	32.7
90°-180°	4190.0	44.1
0°-180°	9511.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	30	3	30	3	30	15
95°	29	56	29	56	29	23
105°	289	305	289	305	289	252
115°	574	569	574	569	574	568
125°	806	800	806	800	806	718
135°	1000	993	1000	993	1000	770
145°	1151	1145	1151	1145	1151	719
155°	1254	1255	1254	1255	1254	578
165°	1318	1324	1318	1324	1318	372
175°	1346	1355	1346	1355	1346	128
180°	1355	1355	1355	1355	1355	



TEST NUMBER: P332847

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	20.1	22.0	21.9	22.4	23.6	24.1	24.4	23.5	25.8	26.2	28.4
90°	30.4	29.9	29.5	29.0	28.6	27.7	26.3	25.0	23.6	22.3	20.5
92.5°	28.0	27.9	27.8	27.7	27.6	26.9	25.5	24.2	22.8	21.5	19.7
95°	29.4	29.2	28.9	28.7	28.5	27.7	26.3	25.0	23.6	22.3	22.1
97.5°	28.4	28.1	27.9	27.7	27.5	27.3	27.2	27.0	26.9	26.7	51.9
100°	28.4	28.1	27.9	27.7	27.5	29.3	33.1	36.9	40.8	44.6	75.7
102.5°	29.2	29.1	29.1	29.0	29.0	49.6	90.9	132.2	173.5	214.8	218.8
105°	288.8	296.9	305.0	313.1	321.2	324.2	322.2	320.2	318.1	316.1	315.0
107.5°	402.4	401.6	400.7	399.9	399.0	398.1	397.1	396.1	395.1	394.1	392.6
110°	451.9	451.2	450.5	449.9	449.2	448.6	448.2	447.7	447.3	446.8	445.5



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	501.3	500.5	499.6	498.8	497.9	497.5	497.6	497.7	497.8	497.9	497.2
115°	573.5	573.5	573.5	573.5	573.5	573.2	572.8	572.3	571.9	571.4	571.7
117.5°	646.8	646.9	647.0	647.1	647.2	647.3	647.4	647.4	647.5	647.6	647.1
120°	693.0	693.5	693.9	694.4	694.8	694.8	694.4	693.9	693.5	693.0	693.2
122.5°	738.4	738.9	739.3	739.8	740.2	740.3	740.0	739.8	739.5	739.2	738.9
125°	806.5	806.3	806.0	805.8	805.6	805.1	804.5	803.8	803.1	802.4	802.9
127.5°	866.3	866.4	866.6	866.8	867.0	867.1	867.3	867.4	867.6	867.7	866.6
130°	906.8	906.8	906.8	906.8	906.8	906.7	906.5	906.2	906.0	905.8	905.1
132.5°	944.1	944.3	944.4	944.6	944.8	944.8	944.6	944.3	944.1	943.9	943.0
135°	1000.0	999.6	999.1	998.7	998.2	997.8	997.3	996.9	996.4	996.0	995.1
137.5°	1047.8	1048.0	1048.1	1048.2	1048.4	1048.2	1047.7	1047.2	1046.7	1046.2	1045.2
140°	1081.1	1080.8	1080.6	1080.4	1080.2	1079.7	1079.0	1078.4	1077.7	1077.0	1076.6
142.5°	1108.6	1108.6	1108.5	1108.5	1108.4	1108.2	1107.7	1107.2	1106.7	1106.2	1105.9
145°	1151.0	1150.5	1150.1	1149.6	1149.2	1148.8	1148.6	1148.4	1148.2	1147.9	1147.9
147.5°	1186.0	1185.8	1185.6	1185.4	1185.1	1184.9	1184.7	1184.6	1184.4	1184.2	1184.4
150°	1208.7	1208.5	1208.3	1208.0	1207.8	1207.7	1207.7	1207.7	1207.7	1207.7	1207.9
152.5°	1228.2	1228.3	1228.4	1228.6	1228.7	1228.6	1228.2	1227.9	1227.5	1227.2	1227.6
155°	1254.3	1255.0	1255.7	1256.3	1257.0	1256.9	1256.0	1255.1	1254.2	1253.3	1254.0
157.5°	1276.2	1277.4	1278.5	1279.7	1280.9	1280.9	1279.7	1278.5	1277.4	1276.2	1277.0
160°	1290.8	1292.1	1293.5	1294.8	1296.2	1296.2	1294.8	1293.5	1292.1	1290.8	1291.0
162.5°	1302.1	1303.7	1305.2	1306.7	1308.3	1308.3	1307.0	1305.6	1304.3	1302.9	1303.2
165°	1318.1	1320.2	1322.2	1324.2	1326.2	1326.4	1324.6	1322.8	1321.0	1319.2	1319.2
167.5°	1330.1	1332.4	1334.6	1336.9	1339.1	1339.2	1337.3	1335.3	1333.3	1331.3	1331.5
170°	1337.4	1339.6	1341.9	1344.1	1346.4	1346.6	1344.8	1343.0	1341.2	1339.4	1339.2
172.5°	1341.4	1343.9	1346.3	1348.7	1351.2	1351.5	1349.7	1347.9	1346.1	1344.3	1344.1
175°	1346.5	1349.2	1351.9	1354.6	1357.3	1357.7	1355.6	1353.6	1351.6	1349.6	1349.3
177.5°	1349.8	1351.9	1354.1	1356.2	1358.4	1358.8	1357.3	1355.9	1354.4	1353.0	1352.6
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	28.0	28.3	27.3	24.3	21.9	19.5	18.3	17.2	18.3	19.5	20.6
90°	18.7	16.9	15.1	12.9	10.5	8.0	5.5	3.0	5.5	8.0	10.5
92.5°	17.9	16.1	14.3	13.3	13.2	13.0	12.9	12.8	12.9	13.0	13.2
95°	21.8	21.6	21.4	25.1	32.8	40.4	48.1	55.7	48.1	40.4	32.8
97.5°	77.0	102.1	127.3	137.4	132.7	127.9	123.1	118.3	123.1	127.9	132.7
100°	106.7	137.8	168.9	182.4	178.3	174.3	170.2	166.2	170.2	174.3	178.3
102.5°	222.9	227.0	231.0	231.5	228.6	225.6	222.6	219.7	222.6	225.6	228.6
105°	313.9	312.7	311.6	310.4	309.0	307.7	306.3	305.0	306.3	307.7	309.0
107.5°	391.1	389.5	388.0	386.9	386.2	385.5	384.9	384.2	384.9	385.5	386.2
110°	444.1	442.8	441.4	440.4	439.7	439.0	438.4	437.7	438.4	439.0	439.7



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	496.6	496.0	495.4	494.4	493.2	492.0	490.8	489.6	490.8	492.0	493.2
115°	571.9	572.1	572.3	572.1	571.4	570.8	570.1	569.4	570.1	570.8	571.4
117.5°	646.6	646.1	645.6	644.9	644.0	643.1	642.2	641.3	642.2	643.1	644.0
120°	693.5	693.7	693.9	693.6	692.7	691.8	690.9	690.0	690.9	691.8	692.7
122.5°	738.6	738.3	738.0	737.5	737.0	736.4	735.9	735.4	735.9	736.4	737.0
125°	803.3	803.8	804.2	804.0	803.1	802.2	801.3	800.4	801.3	802.2	803.1
127.5°	865.6	864.6	863.5	862.9	862.7	862.5	862.2	862.0	862.2	862.5	862.7
130°	904.4	903.8	903.1	902.6	902.4	902.2	902.0	901.7	902.0	902.2	902.4
132.5°	942.2	941.3	940.5	939.8	939.4	939.0	938.6	938.2	938.6	939.0	939.4
135°	994.2	993.3	992.4	992.0	992.2	992.5	992.7	992.9	992.7	992.5	992.2
137.5°	1044.2	1043.2	1042.2	1041.7	1041.6	1041.5	1041.4	1041.3	1041.4	1041.5	1041.6
140°	1076.1	1075.7	1075.2	1074.8	1074.3	1073.9	1073.4	1073.0	1073.4	1073.9	1074.3
142.5°	1105.6	1105.4	1105.1	1104.6	1103.8	1102.9	1102.1	1101.3	1102.1	1102.9	1103.8
145°	1147.9	1147.9	1147.9	1147.6	1146.9	1146.2	1145.6	1144.9	1145.6	1146.2	1146.9
147.5°	1184.7	1184.9	1185.1	1184.6	1183.3	1182.1	1180.8	1179.5	1180.8	1182.1	1183.3
150°	1208.2	1208.4	1208.6	1208.3	1207.4	1206.5	1205.6	1204.7	1205.6	1206.5	1207.4
152.5°	1228.0	1228.4	1228.8	1228.6	1227.9	1227.2	1226.5	1225.7	1226.5	1227.2	1227.9
155°	1254.7	1255.3	1256.0	1256.2	1256.0	1255.8	1255.6	1255.3	1255.6	1255.8	1256.0
157.5°	1277.7	1278.5	1279.3	1279.7	1279.8	1280.0	1280.1	1280.3	1280.1	1280.0	1279.8
160°	1291.2	1291.5	1291.7	1292.1	1292.8	1293.5	1294.2	1294.8	1294.2	1293.5	1292.8
162.5°	1303.4	1303.6	1303.8	1304.4	1305.2	1306.1	1307.0	1307.8	1307.0	1306.1	1305.2
165°	1319.2	1319.2	1319.2	1319.7	1320.8	1322.0	1323.1	1324.2	1323.1	1322.0	1320.8
167.5°	1331.6	1331.7	1331.9	1332.5	1333.7	1334.9	1336.0	1337.2	1336.0	1334.9	1333.7
170°	1339.0	1338.7	1338.5	1339.1	1340.4	1341.8	1343.1	1344.5	1343.1	1341.8	1340.4
172.5°	1343.8	1343.6	1343.4	1343.9	1345.3	1346.6	1348.0	1349.3	1348.0	1346.6	1345.3
175°	1349.1	1348.9	1348.7	1349.2	1350.6	1351.9	1353.3	1354.6	1353.3	1351.9	1350.6
177.5°	1352.3	1351.9	1351.6	1352.0	1353.3	1354.5	1355.8	1357.0	1355.8	1354.5	1353.3
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	23.0	23.5	26.4	28.0	30.3	33.8	35.4	42.7	45.5	49.0	54.9
90°	12.9	15.1	16.9	18.7	20.5	22.3	23.6	25.0	26.3	27.7	28.6
92.5°	13.3	14.3	16.1	17.9	19.7	21.5	22.8	24.2	25.5	26.9	27.6
95°	25.1	21.4	21.6	21.8	22.1	22.3	23.6	25.0	26.3	27.7	28.5
97.5°	137.4	127.3	102.1	77.0	51.9	26.7	26.9	27.0	27.2	27.3	27.5
100°	182.4	168.9	137.8	106.7	75.7	44.6	40.8	36.9	33.1	29.3	27.5
102.5°	231.5	231.0	227.0	222.9	218.8	214.8	173.5	132.2	90.9	49.6	29.0
105°	310.4	311.6	312.7	313.9	315.0	316.1	318.1	320.2	322.2	324.2	321.2
107.5°	386.9	388.0	389.5	391.1	392.6	394.1	395.1	396.1	397.1	398.1	399.0
110°	440.4	441.4	442.8	444.1	445.5	446.8	447.3	447.7	448.2	448.6	449.2



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	494.4	495.4	496.0	496.6	497.2	497.9	497.8	497.7	497.6	497.5	497.9
115°	572.1	572.3	572.1	571.9	571.7	571.4	571.9	572.3	572.8	573.2	573.5
117.5°	644.9	645.6	646.1	646.6	647.1	647.6	647.5	647.4	647.4	647.3	647.2
120°	693.6	693.9	693.7	693.5	693.2	693.0	693.5	693.9	694.4	694.8	694.8
122.5°	737.5	738.0	738.3	738.6	738.9	739.2	739.5	739.8	740.0	740.3	740.2
125°	804.0	804.2	803.8	803.3	802.9	802.4	803.1	803.8	804.5	805.1	805.6
127.5°	862.9	863.5	864.6	865.6	866.6	867.7	867.6	867.4	867.3	867.1	867.0
130°	902.6	903.1	903.8	904.4	905.1	905.8	906.0	906.2	906.5	906.7	906.8
132.5°	939.8	940.5	941.3	942.2	943.0	943.9	944.1	944.3	944.6	944.8	944.8
135°	992.0	992.4	993.3	994.2	995.1	996.0	996.4	996.9	997.3	997.8	998.2
137.5°	1041.7	1042.2	1043.2	1044.2	1045.2	1046.2	1046.7	1047.2	1047.7	1048.2	1048.4
140°	1074.8	1075.2	1075.7	1076.1	1076.6	1077.0	1077.7	1078.4	1079.0	1079.7	1080.2
142.5°	1104.6	1105.1	1105.4	1105.6	1105.9	1106.2	1106.7	1107.2	1107.7	1108.2	1108.4
145°	1147.6	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.4	1148.6	1148.8	1149.2
147.5°	1184.6	1185.1	1184.9	1184.7	1184.4	1184.2	1184.4	1184.6	1184.7	1184.9	1185.1
150°	1208.3	1208.6	1208.4	1208.2	1207.9	1207.7	1207.7	1207.7	1207.7	1207.7	1207.8
152.5°	1228.6	1228.8	1228.4	1228.0	1227.6	1227.2	1227.5	1227.9	1228.2	1228.6	1228.7
155°	1256.2	1256.0	1255.3	1254.7	1254.0	1253.3	1254.2	1255.1	1256.0	1256.9	1257.0
157.5°	1279.7	1279.3	1278.5	1277.7	1277.0	1276.2	1277.4	1278.5	1279.7	1280.9	1280.9
160°	1292.1	1291.7	1291.5	1291.2	1291.0	1290.8	1292.1	1293.5	1294.8	1296.2	1296.2
162.5°	1304.4	1303.8	1303.6	1303.4	1303.2	1302.9	1304.3	1305.6	1307.0	1308.3	1308.3
165°	1319.7	1319.2	1319.2	1319.2	1319.2	1319.2	1321.0	1322.8	1324.6	1326.4	1326.2
167.5°	1332.5	1331.9	1331.7	1331.6	1331.5	1331.3	1333.3	1335.3	1337.3	1339.2	1339.1
170°	1339.1	1338.5	1338.7	1339.0	1339.2	1339.4	1341.2	1343.0	1344.8	1346.6	1346.4
172.5°	1343.9	1343.4	1343.6	1343.8	1344.1	1344.3	1346.1	1347.9	1349.7	1351.5	1351.2
175°	1349.2	1348.7	1348.9	1349.1	1349.3	1349.6	1351.6	1353.6	1355.6	1357.7	1357.3
177.5°	1352.0	1351.6	1351.9	1352.3	1352.6	1353.0	1354.4	1355.9	1357.3	1358.8	1358.4
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	56.9	57.6	59.6	61.0	59.6	57.6	56.9	54.9	49.0	45.5	42.7
90°	29.0	29.5	29.9	30.4	29.9	29.5	29.0	28.6	27.7	26.3	25.0
92.5°	27.7	27.8	27.9	28.0	27.9	27.8	27.7	27.6	26.9	25.5	24.2
95°	28.7	28.9	29.2	29.4	29.2	28.9	28.7	28.5	27.7	26.3	25.0
97.5°	27.7	27.9	28.1	28.4	28.1	27.9	27.7	27.5	27.3	27.2	27.0
100°	27.7	27.9	28.1	28.4	28.1	27.9	27.7	27.5	29.3	33.1	36.9
102.5°	29.0	29.1	29.1	29.2	29.1	29.1	29.0	29.0	49.6	90.9	132.2
105°	313.1	305.0	296.9	288.8	296.9	305.0	313.1	321.2	324.2	322.2	320.2
107.5°	399.9	400.7	401.6	402.4	401.6	400.7	399.9	399.0	398.1	397.1	396.1
110°	449.9	450.5	451.2	451.9	451.2	450.5	449.9	449.2	448.6	448.2	447.7



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	498.8	499.6	500.5	501.3	500.5	499.6	498.8	497.9	497.5	497.6	497.7
115°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.2	572.8	572.3
117.5°	647.1	647.0	646.9	646.8	646.9	647.0	647.1	647.2	647.3	647.4	647.4
120°	694.4	693.9	693.5	693.0	693.5	693.9	694.4	694.8	694.8	694.4	693.9
122.5°	739.8	739.3	738.9	738.4	738.9	739.3	739.8	740.2	740.3	740.0	739.8
125°	805.8	806.0	806.3	806.5	806.3	806.0	805.8	805.6	805.1	804.5	803.8
127.5°	866.8	866.6	866.4	866.3	866.4	866.6	866.8	867.0	867.1	867.3	867.4
130°	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.7	906.5	906.2
132.5°	944.6	944.4	944.3	944.1	944.3	944.4	944.6	944.8	944.8	944.6	944.3
135°	998.7	999.1	999.6	1000.0	999.6	999.1	998.7	998.2	997.8	997.3	996.9
137.5°	1048.2	1048.1	1048.0	1047.8	1048.0	1048.1	1048.2	1048.4	1048.2	1047.7	1047.2
140°	1080.4	1080.6	1080.8	1081.1	1080.8	1080.6	1080.4	1080.2	1079.7	1079.0	1078.4
142.5°	1108.5	1108.5	1108.6	1108.6	1108.6	1108.5	1108.5	1108.4	1108.2	1107.7	1107.2
145°	1149.6	1150.1	1150.5	1151.0	1150.5	1150.1	1149.6	1149.2	1148.8	1148.6	1148.4
147.5°	1185.4	1185.6	1185.8	1186.0	1185.8	1185.6	1185.4	1185.1	1184.9	1184.7	1184.6
150°	1208.0	1208.3	1208.5	1208.7	1208.5	1208.3	1208.0	1207.8	1207.7	1207.7	1207.7
152.5°	1228.6	1228.4	1228.3	1228.2	1228.3	1228.4	1228.6	1228.7	1228.6	1228.2	1227.9
155°	1256.3	1255.7	1255.0	1254.3	1255.0	1255.7	1256.3	1257.0	1256.9	1256.0	1255.1
157.5°	1279.7	1278.5	1277.4	1276.2	1277.4	1278.5	1279.7	1280.9	1280.9	1279.7	1278.5
160°	1294.8	1293.5	1292.1	1290.8	1292.1	1293.5	1294.8	1296.2	1296.2	1294.8	1293.5
162.5°	1306.7	1305.2	1303.7	1302.1	1303.7	1305.2	1306.7	1308.3	1308.3	1307.0	1305.6
165°	1324.2	1322.2	1320.2	1318.1	1320.2	1322.2	1324.2	1326.2	1326.4	1324.6	1322.8
167.5°	1336.9	1334.6	1332.4	1330.1	1332.4	1334.6	1336.9	1339.1	1339.2	1337.3	1335.3
170°	1344.1	1341.9	1339.6	1337.4	1339.6	1341.9	1344.1	1346.4	1346.6	1344.8	1343.0
172.5°	1348.7	1346.3	1343.9	1341.4	1343.9	1346.3	1348.7	1351.2	1351.5	1349.7	1347.9
175°	1354.6	1351.9	1349.2	1346.5	1349.2	1351.9	1354.6	1357.3	1357.7	1355.6	1353.6
177.5°	1356.2	1354.1	1351.9	1349.8	1351.9	1354.1	1356.2	1358.4	1358.8	1357.3	1355.9
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	35.4	33.8	30.3	28.0	26.4	23.5	23.0	20.6	19.5	18.3	17.2
90°	23.6	22.3	20.5	18.7	16.9	15.1	12.9	10.5	8.0	5.5	3.0
92.5°	22.8	21.5	19.7	17.9	16.1	14.3	13.3	13.2	13.0	12.9	12.8
95°	23.6	22.3	22.1	21.8	21.6	21.4	25.1	32.8	40.4	48.1	55.7
97.5°	26.9	26.7	51.9	77.0	102.1	127.3	137.4	132.7	127.9	123.1	118.3
100°	40.8	44.6	75.7	106.7	137.8	168.9	182.4	178.3	174.3	170.2	166.2
102.5°	173.5	214.8	218.8	222.9	227.0	231.0	231.5	228.6	225.6	222.6	219.7
105°	318.1	316.1	315.0	313.9	312.7	311.6	310.4	309.0	307.7	306.3	305.0
107.5°	395.1	394.1	392.6	391.1	389.5	388.0	386.9	386.2	385.5	384.9	384.2
110°	447.3	446.8	445.5	444.1	442.8	441.4	440.4	439.7	439.0	438.4	437.7



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	497.8	497.9	497.2	496.6	496.0	495.4	494.4	493.2	492.0	490.8	489.6
115°	571.9	571.4	571.7	571.9	572.1	572.3	572.1	571.4	570.8	570.1	569.4
117.5°	647.5	647.6	647.1	646.6	646.1	645.6	644.9	644.0	643.1	642.2	641.3
120°	693.5	693.0	693.2	693.5	693.7	693.9	693.6	692.7	691.8	690.9	690.0
122.5°	739.5	739.2	738.9	738.6	738.3	738.0	737.5	737.0	736.4	735.9	735.4
125°	803.1	802.4	802.9	803.3	803.8	804.2	804.0	803.1	802.2	801.3	800.4
127.5°	867.6	867.7	866.6	865.6	864.6	863.5	862.9	862.7	862.5	862.2	862.0
130°	906.0	905.8	905.1	904.4	903.8	903.1	902.6	902.4	902.2	902.0	901.7
132.5°	944.1	943.9	943.0	942.2	941.3	940.5	939.8	939.4	939.0	938.6	938.2
135°	996.4	996.0	995.1	994.2	993.3	992.4	992.0	992.2	992.5	992.7	992.9
137.5°	1046.7	1046.2	1045.2	1044.2	1043.2	1042.2	1041.7	1041.6	1041.5	1041.4	1041.3
140°	1077.7	1077.0	1076.6	1076.1	1075.7	1075.2	1074.8	1074.3	1073.9	1073.4	1073.0
142.5°	1106.7	1106.2	1105.9	1105.6	1105.4	1105.1	1104.6	1103.8	1102.9	1102.1	1101.3
145°	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1147.6	1146.9	1146.2	1145.6	1144.9
147.5°	1184.4	1184.2	1184.4	1184.7	1184.9	1185.1	1184.6	1183.3	1182.1	1180.8	1179.5
150°	1207.7	1207.7	1207.9	1208.2	1208.4	1208.6	1208.3	1207.4	1206.5	1205.6	1204.7
152.5°	1227.5	1227.2	1227.6	1228.0	1228.4	1228.8	1228.6	1227.9	1227.2	1226.5	1225.7
155°	1254.2	1253.3	1254.0	1254.7	1255.3	1256.0	1256.2	1256.0	1255.8	1255.6	1255.3
157.5°	1277.4	1276.2	1277.0	1277.7	1278.5	1279.3	1279.7	1279.8	1280.0	1280.1	1280.3
160°	1292.1	1290.8	1291.0	1291.2	1291.5	1291.7	1292.1	1292.8	1293.5	1294.2	1294.8
162.5°	1304.3	1302.9	1303.2	1303.4	1303.6	1303.8	1304.4	1305.2	1306.1	1307.0	1307.8
165°	1321.0	1319.2	1319.2	1319.2	1319.2	1319.2	1319.7	1320.8	1322.0	1323.1	1324.2
167.5°	1333.3	1331.3	1331.5	1331.6	1331.7	1331.9	1332.5	1333.7	1334.9	1336.0	1337.2
170°	1341.2	1339.4	1339.2	1339.0	1338.7	1338.5	1339.1	1340.4	1341.8	1343.1	1344.5
172.5°	1346.1	1344.3	1344.1	1343.8	1343.6	1343.4	1343.9	1345.3	1346.6	1348.0	1349.3
175°	1351.6	1349.6	1349.3	1349.1	1348.9	1348.7	1349.2	1350.6	1351.9	1353.3	1354.6
177.5°	1354.4	1353.0	1352.6	1352.3	1351.9	1351.6	1352.0	1353.3	1354.5	1355.8	1357.0
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	18.3	19.5	21.9	24.3	27.3	28.3	28.0	28.4	26.2	25.8	23.5
90°	5.5	8.0	10.5	12.9	15.1	16.9	18.7	20.5	22.3	23.6	25.0
92.5°	12.9	13.0	13.2	13.3	14.3	16.1	17.9	19.7	21.5	22.8	24.2
95°	48.1	40.4	32.8	25.1	21.4	21.6	21.8	22.1	22.3	23.6	25.0
97.5°	123.1	127.9	132.7	137.4	127.3	102.1	77.0	51.9	26.7	26.9	27.0
100°	170.2	174.3	178.3	182.4	168.9	137.8	106.7	75.7	44.6	40.8	36.9
102.5°	222.6	225.6	228.6	231.5	231.0	227.0	222.9	218.8	214.8	173.5	132.2
105°	306.3	307.7	309.0	310.4	311.6	312.7	313.9	315.0	316.1	318.1	320.2
107.5°	384.9	385.5	386.2	386.9	388.0	389.5	391.1	392.6	394.1	395.1	396.1
110°	438.4	439.0	439.7	440.4	441.4	442.8	444.1	445.5	446.8	447.3	447.7



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	490.8	492.0	493.2	494.4	495.4	496.0	496.6	497.2	497.9	497.8	497.7
115°	570.1	570.8	571.4	572.1	572.3	572.1	571.9	571.7	571.4	571.9	572.3
117.5°	642.2	643.1	644.0	644.9	645.6	646.1	646.6	647.1	647.6	647.5	647.4
120°	690.9	691.8	692.7	693.6	693.9	693.7	693.5	693.2	693.0	693.5	693.9
122.5°	735.9	736.4	737.0	737.5	738.0	738.3	738.6	738.9	739.2	739.5	739.8
125°	801.3	802.2	803.1	804.0	804.2	803.8	803.3	802.9	802.4	803.1	803.8
127.5°	862.2	862.5	862.7	862.9	863.5	864.6	865.6	866.6	867.7	867.6	867.4
130°	902.0	902.2	902.4	902.6	903.1	903.8	904.4	905.1	905.8	906.0	906.2
132.5°	938.6	939.0	939.4	939.8	940.5	941.3	942.2	943.0	943.9	944.1	944.3
135°	992.7	992.5	992.2	992.0	992.4	993.3	994.2	995.1	996.0	996.4	996.9
137.5°	1041.4	1041.5	1041.6	1041.7	1042.2	1043.2	1044.2	1045.2	1046.2	1046.7	1047.2
140°	1073.4	1073.9	1074.3	1074.8	1075.2	1075.7	1076.1	1076.6	1077.0	1077.7	1078.4
142.5°	1102.1	1102.9	1103.8	1104.6	1105.1	1105.4	1105.6	1105.9	1106.2	1106.7	1107.2
145°	1145.6	1146.2	1146.9	1147.6	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.4
147.5°	1180.8	1182.1	1183.3	1184.6	1185.1	1184.9	1184.7	1184.4	1184.2	1184.4	1184.6
150°	1205.6	1206.5	1207.4	1208.3	1208.6	1208.4	1208.2	1207.9	1207.7	1207.7	1207.7
152.5°	1226.5	1227.2	1227.9	1228.6	1228.8	1228.4	1228.0	1227.6	1227.2	1227.5	1227.9
155°	1255.6	1255.8	1256.0	1256.2	1256.0	1255.3	1254.7	1254.0	1253.3	1254.2	1255.1
157.5°	1280.1	1280.0	1279.8	1279.7	1279.3	1278.5	1277.7	1277.0	1276.2	1277.4	1278.5
160°	1294.2	1293.5	1292.8	1292.1	1291.7	1291.5	1291.2	1291.0	1290.8	1292.1	1293.5
162.5°	1307.0	1306.1	1305.2	1304.4	1303.8	1303.6	1303.4	1303.2	1302.9	1304.3	1305.6
165°	1323.1	1322.0	1320.8	1319.7	1319.2	1319.2	1319.2	1319.2	1319.2	1321.0	1322.8
167.5°	1336.0	1334.9	1333.7	1332.5	1331.9	1331.7	1331.6	1331.5	1331.3	1333.3	1335.3
170°	1343.1	1341.8	1340.4	1339.1	1338.5	1338.7	1339.0	1339.2	1339.4	1341.2	1343.0
172.5°	1348.0	1346.6	1345.3	1343.9	1343.4	1343.6	1343.8	1344.1	1344.3	1346.1	1347.9
175°	1353.3	1351.9	1350.6	1349.2	1348.7	1348.9	1349.1	1349.3	1349.6	1351.6	1353.6
177.5°	1355.8	1354.5	1353.3	1352.0	1351.6	1351.9	1352.3	1352.6	1353.0	1354.4	1355.9
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	24.4	24.1	23.6	22.4	21.9	22.0	20.1
90°	26.3	27.7	28.6	29.0	29.5	29.9	30.4
92.5°	25.5	26.9	27.6	27.7	27.8	27.9	28.0
95°	26.3	27.7	28.5	28.7	28.9	29.2	29.4
97.5°	27.2	27.3	27.5	27.7	27.9	28.1	28.4
100°	33.1	29.3	27.5	27.7	27.9	28.1	28.4
102.5°	90.9	49.6	29.0	29.0	29.1	29.1	29.2
105°	322.2	324.2	321.2	313.1	305.0	296.9	288.8
107.5°	397.1	398.1	399.0	399.9	400.7	401.6	402.4
110°	448.2	448.6	449.2	449.9	450.5	451.2	451.9



TEST NUMBER: P332847

CATALOG NUMBER: S124DIW-S1195D1050U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	497.6	497.5	497.9	498.8	499.6	500.5	501.3
115°	572.8	573.2	573.5	573.5	573.5	573.5	573.5
117.5°	647.4	647.3	647.2	647.1	647.0	646.9	646.8
120°	694.4	694.8	694.8	694.4	693.9	693.5	693.0
122.5°	740.0	740.3	740.2	739.8	739.3	738.9	738.4
125°	804.5	805.1	805.6	805.8	806.0	806.3	806.5
127.5°	867.3	867.1	867.0	866.8	866.6	866.4	866.3
130°	906.5	906.7	906.8	906.8	906.8	906.8	906.8
132.5°	944.6	944.8	944.8	944.6	944.4	944.3	944.1
135°	997.3	997.8	998.2	998.7	999.1	999.6	1000.0
137.5°	1047.7	1048.2	1048.4	1048.2	1048.1	1048.0	1047.8
140°	1079.0	1079.7	1080.2	1080.4	1080.6	1080.8	1081.1
142.5°	1107.7	1108.2	1108.4	1108.5	1108.5	1108.6	1108.6
145°	1148.6	1148.8	1149.2	1149.6	1150.1	1150.5	1151.0
147.5°	1184.7	1184.9	1185.1	1185.4	1185.6	1185.8	1186.0
150°	1207.7	1207.7	1207.8	1208.0	1208.3	1208.5	1208.7
152.5°	1228.2	1228.6	1228.7	1228.6	1228.4	1228.3	1228.2
155°	1256.0	1256.9	1257.0	1256.3	1255.7	1255.0	1254.3
157.5°	1279.7	1280.9	1280.9	1279.7	1278.5	1277.4	1276.2
160°	1294.8	1296.2	1296.2	1294.8	1293.5	1292.1	1290.8
162.5°	1307.0	1308.3	1308.3	1306.7	1305.2	1303.7	1302.1
165°	1324.6	1326.4	1326.2	1324.2	1322.2	1320.2	1318.1
167.5°	1337.3	1339.2	1339.1	1336.9	1334.6	1332.4	1330.1
170°	1344.8	1346.6	1346.4	1344.1	1341.9	1339.6	1337.4
172.5°	1349.7	1351.5	1351.2	1348.7	1346.3	1343.9	1341.4
175°	1355.6	1357.7	1357.3	1354.6	1351.9	1349.2	1346.5
177.5°	1357.3	1358.8	1358.4	1356.2	1354.1	1351.9	1349.8
180°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6

(END OF REPORT)