

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: P332817

Luminaire Tested: **S124DIW-S1020D1050U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332817  
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-S1020D1050U835-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 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: 8798.5 lumens  
Efficiency: N/A  
Efficacy: 143.8 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

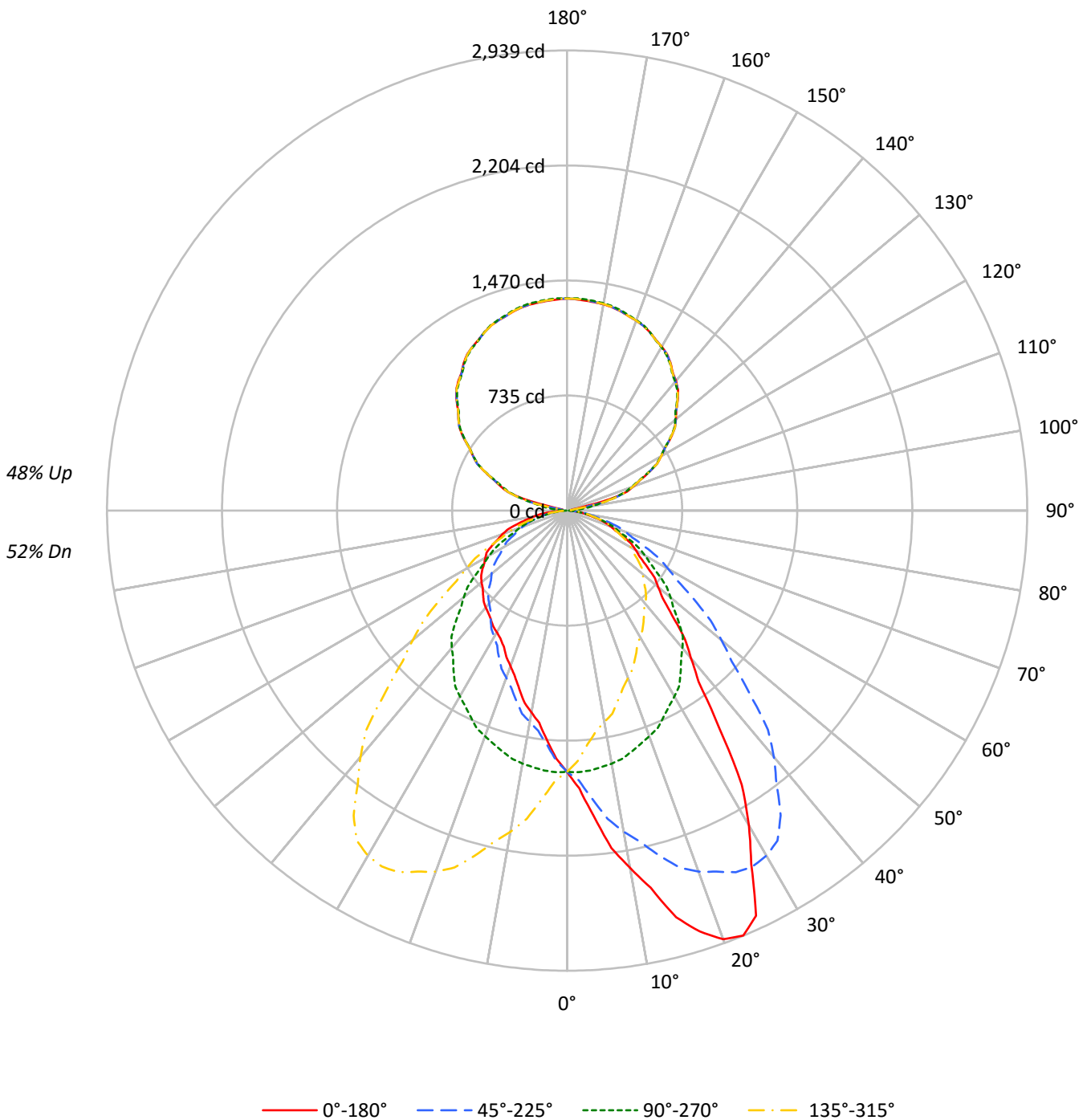
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52					52			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45					45			
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38					38			
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32					32			
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28					28			
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	27	24					24			
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21					21			
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19					19			
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17					17			
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	23	20	18	15					15			
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16	14					14			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13472	13472	13472	13472
5°	15866	13507	11921	13507
10°	18996	13448	10733	13448
15°	22476	13312	9857	13312
20°	25027	13173	9075	13173
25°	25432	12968	8535	12968
30°	21640	12773	8364	12773
35°	16638	12454	8366	12454
40°	12968	12079	8524	12079
45°	10813	11515	8667	11515
50°	9516	10827	8960	10827
55°	8718	10003	9322	10003
60°	8170	9265	9755	9265
65°	7607	8437	10115	8437
70°	6951	7619	10346	7619
75°	6210	6706	10221	6706
80°	5207	5495	9898	5495
85°	3844	3974	9476	3974



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	1.8
10°-20°	501.1	5.7
20°-30°	794.6	9.0
30°-40°	884.3	10.1
40°-50°	805.0	9.1
50°-60°	657.8	7.5
60°-70°	469.6	5.3
70°-80°	258.6	2.9
80°-90°	74.5	0.8
90°-100°	46.3	0.5
100°-110°	295.4	3.4
110°-120°	565.1	6.4
120°-130°	717.4	8.2
130°-140°	767.5	8.7
140°-150°	717.7	8.2
150°-160°	578.8	6.6
160°-170°	373.3	4.2
170°-180°	128.7	1.5
0°-30°	1458.3	16.6
0°-40°	2342.7	26.6
0°-60°	3805.5	43.3
0°-90°	4608.2	52.4
90°-120°	906.8	10.3
90°-150°	3109.5	35.3
90°-180°	4190.0	47.6
0°-180°	8798.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1669	1669	1669	1669	1669	
5°	1958	1667	1471	1667	1958	199
15°	2689	1593	1179	1593	2689	760
25°	2855	1456	958	1456	2855	1259
35°	1688	1264	849	1264	1688	1072
45°	947	1009	759	1009	947	746
55°	619	711	662	711	619	560
65°	398	442	530	442	398	394
75°	199	215	328	215	199	212
85°	42	43	102	43	42	51
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1776.1	1775.6	1770.0	1768.9	1765.0	1760.1	1759.0	1750.1	1732.4	1724.1	1721.9
5°	1957.8	1971.6	1953.6	1950.2	1948.1	1925.3	1913.5	1899.7	1867.9	1849.2	1834.7
7.5°	2174.6	2176.2	2168.4	2162.0	2144.4	2124.5	2094.7	2062.9	2025.0	1985.6	1955.8
10°	2317.3	2322.8	2313.8	2312.4	2277.2	2255.0	2210.8	2173.5	2130.6	2082.9	2039.4
12.5°	2467.7	2459.9	2455.4	2425.8	2419.3	2378.9	2327.5	2289.1	2223.0	2168.1	2110.1
15°	2689.2	2674.0	2664.3	2623.5	2603.5	2547.5	2492.8	2450.7	2364.3	2282.0	2219.8
17.5°	2819.1	2834.4	2812.0	2795.2	2743.4	2704.1	2648.3	2559.8	2492.2	2390.0	2311.5
20°	2913.2	2914.5	2902.1	2884.8	2844.0	2794.3	2733.4	2636.6	2555.8	2454.1	2346.3
22.5°	2938.6	2938.9	2933.6	2917.4	2886.6	2846.2	2784.9	2704.1	2606.1	2495.6	2387.8
25°	2855.1	2852.3	2858.6	2876.5	2864.8	2852.3	2817.1	2756.9	2665.7	2548.8	2432.7
27.5°	2544.8	2563.9	2599.0	2643.3	2685.9	2718.4	2727.5	2715.2	2658.6	2562.5	2440.9
30°	2321.4	2344.9	2371.2	2415.4	2501.1	2550.2	2604.2	2644.9	2622.1	2545.4	2432.0
32.5°	2075.9	2081.7	2120.7	2171.0	2249.5	2343.9	2429.4	2512.2	2539.7	2499.5	2404.9
35°	1688.2	1697.8	1740.0	1789.8	1885.9	2001.3	2129.9	2244.7	2339.4	2377.4	2329.0
37.5°	1377.6	1405.4	1435.2	1488.7	1573.3	1677.2	1810.8	1959.3	2100.5	2195.0	2211.1
40°	1230.5	1247.8	1269.2	1310.0	1381.9	1484.2	1599.0	1769.1	1919.1	2054.6	2098.8
42.5°	1114.4	1124.5	1137.6	1174.5	1229.3	1331.0	1435.8	1585.4	1736.0	1898.0	1972.2
45°	947.1	957.5	979.6	1001.0	1042.5	1113.0	1210.5	1333.5	1484.9	1641.2	1778.0
47.5°	826.2	832.9	846.0	869.0	904.2	950.7	1030.0	1132.8	1273.1	1424.8	1570.6
50°	757.7	763.2	773.6	794.3	821.3	862.7	927.7	1023.8	1133.7	1286.5	1429.6
52.5°	703.5	705.7	713.3	727.4	748.8	783.7	837.0	916.5	1018.7	1154.9	1297.4
55°	619.4	622.2	629.1	639.5	658.1	680.2	721.0	780.5	869.7	987.9	1111.6
57.5°	550.3	552.2	558.0	562.0	577.4	595.4	626.7	669.2	736.8	837.0	947.5
60°	506.0	504.7	511.6	515.0	525.4	540.6	564.8	605.6	664.3	745.2	846.8
62.5°	462.9	461.0	466.8	471.3	477.3	490.3	510.0	542.0	589.7	662.8	750.6
65°	398.2	395.4	398.9	404.4	409.9	416.9	431.4	459.7	497.7	550.3	617.3
67.5°	333.2	336.1	336.7	339.4	342.6	352.0	362.0	382.0	408.8	450.9	507.7
70°	294.5	295.2	298.0	298.0	300.0	308.3	316.6	328.4	354.6	393.4	439.7
72.5°	255.8	258.7	257.6	259.8	261.3	266.8	272.9	284.1	306.5	335.3	374.4
75°	199.1	201.2	201.2	201.9	203.9	206.0	210.8	219.1	235.0	256.5	283.4
77.5°	145.2	145.5	146.4	148.9	148.9	152.2	155.8	162.5	170.3	185.0	201.4
80°	112.0	113.4	112.7	114.1	114.1	116.8	118.2	126.5	130.0	139.6	152.8
82.5°	82.1	83.5	83.4	85.3	86.4	87.0	88.9	92.2	95.7	104.2	109.6
85°	41.5	42.9	41.5	42.9	44.9	45.6	47.7	48.4	51.2	53.2	58.1
87.5°	18.2	19.8	19.7	20.2	21.2	21.6	21.9	21.0	23.0	23.3	25.1
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1722.5	1714.7	1709.2	1704.8	1692.6	1685.4	1679.9	1672.1	1663.3	1653.9	1642.3
5°	1820.2	1796.7	1779.4	1753.2	1728.3	1707.5	1686.1	1666.7	1643.2	1617.7	1599.0
7.5°	1922.9	1888.0	1843.2	1804.3	1760.6	1722.6	1688.6	1653.7	1617.5	1582.4	1550.2
10°	1988.2	1943.3	1893.5	1834.7	1779.4	1730.3	1684.7	1640.5	1597.6	1554.7	1518.1
12.5°	2058.4	2002.4	1928.9	1860.2	1798.2	1732.6	1677.5	1623.3	1571.6	1526.5	1483.8
15°	2152.7	2071.8	1986.8	1894.9	1813.3	1736.6	1661.2	1592.8	1534.7	1475.2	1433.8
17.5°	2210.7	2110.6	2013.4	1917.3	1818.5	1721.8	1640.5	1561.5	1488.8	1429.8	1377.5
20°	2248.8	2149.3	2028.3	1932.2	1814.7	1715.1	1621.1	1533.3	1457.3	1394.4	1340.4
22.5°	2282.0	2167.0	2046.0	1919.5	1802.5	1696.9	1594.0	1505.7	1428.0	1361.7	1310.0
25°	2300.0	2167.9	2036.6	1910.8	1778.0	1652.9	1559.6	1455.9	1372.9	1303.1	1247.8
27.5°	2301.9	2160.7	2012.1	1872.3	1735.3	1618.8	1501.0	1408.3	1322.2	1248.4	1195.3
30°	2295.8	2148.6	1988.9	1837.5	1699.9	1573.4	1471.1	1370.2	1282.4	1209.1	1153.8
32.5°	2276.5	2123.1	1959.0	1798.8	1656.2	1532.5	1426.9	1330.9	1245.3	1173.1	1115.1
35°	2220.5	2069.1	1894.2	1727.6	1581.7	1456.6	1361.2	1263.7	1178.0	1109.5	1053.6
37.5°	2133.0	1996.1	1818.3	1645.9	1502.6	1376.9	1282.4	1194.3	1117.0	1047.5	990.1
40°	2056.6	1936.3	1758.0	1590.0	1435.2	1315.6	1227.1	1146.2	1069.5	1003.8	949.2
42.5°	1968.7	1863.9	1699.4	1521.4	1372.1	1252.0	1165.7	1093.1	1020.8	960.1	905.5
45°	1811.9	1742.8	1587.9	1423.4	1267.9	1154.5	1072.2	1008.6	947.8	888.3	842.7
47.5°	1631.6	1597.3	1467.0	1310.7	1163.1	1051.3	980.0	921.2	867.9	817.5	777.3
50°	1510.5	1493.9	1381.2	1230.5	1089.5	984.4	912.5	862.1	816.4	772.2	734.2
52.5°	1391.0	1390.5	1288.9	1150.9	1020.4	919.2	847.8	800.7	761.1	725.2	691.0
55°	1208.4	1227.8	1148.3	1025.2	908.4	817.1	752.8	710.7	683.0	653.3	627.7
57.5°	1040.7	1072.8	1007.2	898.8	801.4	717.3	661.3	629.6	600.2	582.2	563.6
60°	931.2	961.6	910.5	819.2	727.3	655.4	602.1	573.8	548.2	535.8	522.6
62.5°	833.9	861.0	823.1	738.5	658.7	589.5	544.6	517.4	500.1	486.5	477.8
65°	694.8	717.6	685.1	623.6	555.1	499.8	463.2	441.7	425.2	419.6	409.9
67.5°	561.6	582.4	564.8	512.5	457.6	415.8	387.1	366.5	356.7	351.9	345.0
70°	482.5	503.3	484.6	439.0	396.8	361.6	334.6	322.8	312.5	310.4	300.7
72.5°	415.6	429.7	411.1	375.4	339.3	309.6	288.7	276.4	271.0	267.3	262.0
75°	311.8	324.2	311.8	284.1	258.5	237.8	219.8	215.0	208.8	206.7	203.2
77.5°	220.7	231.4	221.9	204.6	185.5	169.5	159.8	153.6	152.2	148.6	150.3
80°	168.7	175.6	166.6	154.9	139.6	128.6	121.7	118.2	114.1	112.7	115.4
82.5°	121.1	124.2	119.6	111.7	100.4	93.2	88.5	84.5	83.6	83.9	83.9
85°	62.9	62.2	61.5	54.6	51.2	46.3	43.6	42.9	42.2	43.6	44.9
87.5°	24.8	24.9	24.0	21.4	19.2	17.1	16.0	15.0	16.0	17.1	18.1
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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1636.7	1631.8	1624.6	1614.6	1606.3	1597.5	1595.3	1591.9	1598.6	1593.0	1591.4
5°	1583.1	1568.6	1549.9	1528.5	1516.0	1498.1	1494.6	1487.7	1480.8	1480.1	1473.2
7.5°	1526.3	1505.0	1480.5	1458.7	1438.5	1418.8	1406.0	1403.2	1393.0	1387.0	1380.1
10°	1489.8	1463.5	1435.2	1414.4	1390.9	1370.2	1355.7	1347.4	1340.4	1332.8	1325.9
12.5°	1446.6	1418.7	1395.3	1372.9	1345.0	1329.2	1305.3	1290.9	1289.6	1289.7	1271.7
15°	1396.4	1368.8	1332.8	1301.0	1285.8	1255.4	1242.3	1225.7	1215.3	1204.9	1196.7
17.5°	1339.1	1304.6	1276.6	1240.1	1211.0	1186.8	1169.6	1159.6	1144.0	1129.3	1118.7
20°	1303.1	1266.5	1236.7	1198.0	1166.2	1136.5	1122.0	1108.2	1096.4	1084.0	1072.2
22.5°	1266.6	1228.3	1191.9	1154.3	1124.8	1093.4	1079.4	1060.6	1049.4	1042.5	1030.7
25°	1209.1	1167.6	1126.1	1090.2	1059.8	1032.1	1013.5	998.9	986.5	981.0	973.4
27.5°	1146.6	1105.4	1065.3	1024.5	990.0	969.9	955.0	944.0	936.9	929.5	926.1
30°	1106.8	1063.9	1021.1	983.0	951.2	931.2	917.4	909.8	904.2	900.8	897.3
32.5°	1066.4	1024.1	979.0	944.3	915.8	898.0	887.5	879.9	877.1	875.9	874.6
35°	1001.7	958.8	917.4	886.3	859.3	852.4	843.4	839.2	837.9	842.7	844.8
37.5°	939.1	899.3	861.1	830.9	813.3	803.2	800.1	800.3	805.2	809.5	814.5
40°	898.7	860.0	824.0	797.8	781.2	775.0	773.6	777.0	782.6	787.4	792.9
42.5°	859.4	821.3	788.6	764.0	752.4	746.7	747.6	751.0	758.8	764.7	773.0
45°	798.5	766.7	734.9	714.8	705.1	706.5	706.5	712.7	720.3	729.3	738.3
47.5°	741.1	709.0	682.9	666.0	661.0	659.8	663.7	671.8	682.7	693.8	706.4
50°	702.4	671.9	649.1	633.9	628.4	630.5	636.0	643.6	656.7	670.6	683.7
52.5°	663.1	635.4	614.3	600.2	596.3	600.1	605.6	617.6	629.1	644.0	659.9
55°	602.1	578.6	562.0	551.7	550.3	552.4	558.6	571.7	588.3	607.0	622.2
57.5°	541.4	521.8	506.6	499.4	500.1	502.0	512.3	527.9	545.6	565.5	585.1
60°	500.5	482.5	470.1	464.6	465.2	469.4	481.8	496.4	518.5	537.8	558.6
62.5°	461.8	446.0	434.1	429.2	428.2	437.3	449.2	464.3	486.4	508.0	530.4
65°	399.6	387.1	377.5	374.7	376.8	383.7	398.9	418.9	437.6	460.4	483.9
67.5°	338.7	328.5	321.9	323.1	325.6	335.8	348.6	365.8	387.0	410.6	433.9
70°	300.0	290.3	284.8	285.5	289.7	302.1	313.2	330.4	353.3	377.5	396.8
72.5°	260.2	253.8	248.9	251.8	255.9	264.5	278.3	295.6	315.7	338.2	358.6
75°	199.8	199.8	197.0	199.1	205.3	213.6	224.0	242.0	262.0	280.0	296.6
77.5°	148.2	146.7	148.5	151.0	154.6	164.4	176.3	189.1	204.2	222.2	235.9
80°	113.4	114.1	117.5	121.7	123.1	130.7	143.1	154.9	166.6	181.8	194.9
82.5°	85.2	85.9	87.7	92.9	94.3	102.5	110.5	122.2	132.9	143.1	154.0
85°	46.3	46.3	49.8	51.8	55.3	60.8	65.7	72.6	82.3	89.2	99.5
87.5°	20.3	20.7	23.3	24.8	26.8	29.9	31.3	37.6	40.1	43.1	48.3
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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1590.3	1589.2	1585.3	1584.8	1585.3	1589.2	1590.3	1591.4	1593.0	1598.6	1591.9
5°	1469.0	1465.6	1463.5	1471.1	1463.5	1465.6	1469.0	1473.2	1480.1	1480.8	1487.7
7.5°	1377.6	1374.9	1368.8	1366.9	1368.8	1374.9	1377.6	1380.1	1387.0	1393.0	1403.2
10°	1319.0	1316.2	1310.7	1309.3	1310.7	1316.2	1319.0	1325.9	1332.8	1340.4	1347.4
12.5°	1262.6	1257.1	1256.0	1257.3	1256.0	1257.1	1262.6	1271.7	1289.7	1289.6	1290.9
15°	1187.7	1184.9	1177.3	1179.4	1177.3	1184.9	1187.7	1196.7	1204.9	1215.3	1225.7
17.5°	1113.8	1110.5	1101.3	1109.4	1101.3	1110.5	1113.8	1118.7	1129.3	1144.0	1159.6
20°	1067.4	1061.8	1057.0	1056.3	1057.0	1061.8	1067.4	1072.2	1084.0	1096.4	1108.2
22.5°	1023.1	1018.2	1017.7	1013.2	1017.7	1018.2	1023.1	1030.7	1042.5	1049.4	1060.6
25°	967.8	963.0	961.6	958.2	961.6	963.0	967.8	973.4	981.0	986.5	998.9
27.5°	925.4	923.0	920.5	921.6	920.5	923.0	925.4	926.1	929.5	936.9	944.0
30°	899.4	898.7	897.3	897.3	897.3	898.7	899.4	897.3	900.8	904.2	909.8
32.5°	877.8	877.7	878.5	878.5	878.5	877.7	877.8	874.6	875.9	877.1	879.9
35°	847.5	849.6	851.0	848.9	851.0	849.6	847.5	844.8	842.7	837.9	839.2
37.5°	820.2	822.2	824.2	826.5	824.2	822.2	820.2	814.5	809.5	805.2	800.3
40°	799.1	804.0	805.4	808.8	805.4	804.0	799.1	792.9	787.4	782.6	777.0
42.5°	779.2	784.6	788.2	788.9	788.2	784.6	779.2	773.0	764.7	758.8	751.0
45°	748.7	754.2	759.1	759.1	759.1	754.2	748.7	738.3	729.3	720.3	712.7
47.5°	717.0	725.0	729.9	731.1	729.9	725.0	717.0	706.4	693.8	682.7	671.8
50°	695.5	705.1	710.0	713.4	710.0	705.1	695.5	683.7	670.6	656.7	643.6
52.5°	674.4	684.1	690.6	692.4	690.6	684.1	674.4	659.9	644.0	629.1	617.6
55°	638.1	651.9	659.5	662.3	659.5	651.9	638.1	622.2	607.0	588.3	571.7
57.5°	603.8	616.5	625.4	627.4	625.4	616.5	603.8	585.1	565.5	545.6	527.9
60°	577.2	591.1	602.1	604.2	602.1	591.1	577.2	558.6	537.8	518.5	496.4
62.5°	550.1	564.5	574.5	579.9	574.5	564.5	550.1	530.4	508.0	486.4	464.3
65°	503.3	517.8	527.5	529.5	527.5	517.8	503.3	483.9	460.4	437.6	418.9
67.5°	452.1	466.6	473.0	477.0	473.0	466.6	452.1	433.9	410.6	387.0	365.8
70°	416.2	427.9	434.8	438.3	434.8	427.9	416.2	396.8	377.5	353.3	330.4
72.5°	375.2	387.5	395.6	396.3	395.6	387.5	375.2	358.6	338.2	315.7	295.6
75°	312.5	323.5	327.7	327.7	327.7	323.5	312.5	296.6	280.0	262.0	242.0
77.5°	247.3	253.0	258.3	259.4	258.3	253.0	247.3	235.9	222.2	204.2	189.1
80°	205.3	208.8	212.9	212.9	212.9	208.8	205.3	194.9	181.8	166.6	154.9
82.5°	162.2	165.1	169.2	168.7	169.2	165.1	162.2	154.0	143.1	132.9	122.2
85°	98.2	104.4	103.7	102.3	103.7	104.4	98.2	99.5	89.2	82.3	72.6
87.5°	50.1	50.7	52.4	53.6	52.4	50.7	50.1	48.3	43.1	40.1	37.6
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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-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



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1595.3	1597.5	1606.3	1614.6	1624.6	1631.8	1636.7	1642.3	1653.9	1663.3	1672.1
5°	1494.6	1498.1	1516.0	1528.5	1549.9	1568.6	1583.1	1599.0	1617.7	1643.2	1666.7
7.5°	1406.0	1418.8	1438.5	1458.7	1480.5	1505.0	1526.3	1550.2	1582.4	1617.5	1653.7
10°	1355.7	1370.2	1390.9	1414.4	1435.2	1463.5	1489.8	1518.1	1554.7	1597.6	1640.5
12.5°	1305.3	1329.2	1345.0	1372.9	1395.3	1418.7	1446.6	1483.8	1526.5	1571.6	1623.3
15°	1242.3	1255.4	1285.8	1301.0	1332.8	1368.8	1396.4	1433.8	1475.2	1534.7	1592.8
17.5°	1169.6	1186.8	1211.0	1240.1	1276.6	1304.6	1339.1	1377.5	1429.8	1488.8	1561.5
20°	1122.0	1136.5	1166.2	1198.0	1236.7	1266.5	1303.1	1340.4	1394.4	1457.3	1533.3
22.5°	1079.4	1093.4	1124.8	1154.3	1191.9	1228.3	1266.6	1310.0	1361.7	1428.0	1505.7
25°	1013.5	1032.1	1059.8	1090.2	1126.1	1167.6	1209.1	1247.8	1303.1	1372.9	1455.9
27.5°	955.0	969.9	990.0	1024.5	1065.3	1105.4	1146.6	1195.3	1248.4	1322.2	1408.3
30°	917.4	931.2	951.2	983.0	1021.1	1063.9	1106.8	1153.8	1209.1	1282.4	1370.2
32.5°	887.5	898.0	915.8	944.3	979.0	1024.1	1066.4	1115.1	1173.1	1245.3	1330.9
35°	843.4	852.4	859.3	886.3	917.4	958.8	1001.7	1053.6	1109.5	1178.0	1263.7
37.5°	800.1	803.2	813.3	830.9	861.1	899.3	939.1	990.1	1047.5	1117.0	1194.3
40°	773.6	775.0	781.2	797.8	824.0	860.0	898.7	949.2	1003.8	1069.5	1146.2
42.5°	747.6	746.7	752.4	764.0	788.6	821.3	859.4	905.5	960.1	1020.8	1093.1
45°	706.5	706.5	705.1	714.8	734.9	766.7	798.5	842.7	888.3	947.8	1008.6
47.5°	663.7	659.8	661.0	666.0	682.9	709.0	741.1	777.3	817.5	867.9	921.2
50°	636.0	630.5	628.4	633.9	649.1	671.9	702.4	734.2	772.2	816.4	862.1
52.5°	605.6	600.1	596.3	600.2	614.3	635.4	663.1	691.0	725.2	761.1	800.7
55°	558.6	552.4	550.3	551.7	562.0	578.6	602.1	627.7	653.3	683.0	710.7
57.5°	512.3	502.0	500.1	499.4	506.6	521.8	541.4	563.6	582.2	600.2	629.6
60°	481.8	469.4	465.2	464.6	470.1	482.5	500.5	522.6	535.8	548.2	573.8
62.5°	449.2	437.3	428.2	429.2	434.1	446.0	461.8	477.8	486.5	500.1	517.4
65°	398.9	383.7	376.8	374.7	377.5	387.1	399.6	409.9	419.6	425.2	441.7
67.5°	348.6	335.8	325.6	323.1	321.9	328.5	338.7	345.0	351.9	356.7	366.5
70°	313.2	302.1	289.7	285.5	284.8	290.3	300.0	300.7	310.4	312.5	322.8
72.5°	278.3	264.5	255.9	251.8	248.9	253.8	260.2	262.0	267.3	271.0	276.4
75°	224.0	213.6	205.3	199.1	197.0	199.8	199.8	203.2	206.7	208.8	215.0
77.5°	176.3	164.4	154.6	151.0	148.5	146.7	148.2	150.3	148.6	152.2	153.6
80°	143.1	130.7	123.1	121.7	117.5	114.1	113.4	115.4	112.7	114.1	118.2
82.5°	110.5	102.5	94.3	92.9	87.7	85.9	85.2	83.9	83.9	83.6	84.5
85°	65.7	60.8	55.3	51.8	49.8	46.3	46.3	44.9	43.6	42.2	42.9
87.5°	31.3	29.9	26.8	24.8	23.3	20.7	20.3	18.1	17.1	16.0	15.0
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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-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: P332817

CATALOG NUMBER: S124DIW-S1020D1050U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1679.9	1685.4	1692.6	1704.8	1709.2	1714.7	1722.5	1721.9	1724.1	1732.4	1750.1
5°	1686.1	1707.5	1728.3	1753.2	1779.4	1796.7	1820.2	1834.7	1849.2	1867.9	1899.7
7.5°	1688.6	1722.6	1760.6	1804.3	1843.2	1888.0	1922.9	1955.8	1985.6	2025.0	2062.9
10°	1684.7	1730.3	1779.4	1834.7	1893.5	1943.3	1988.2	2039.4	2082.9	2130.6	2173.5
12.5°	1677.5	1732.6	1798.2	1860.2	1928.9	2002.4	2058.4	2110.1	2168.1	2223.0	2289.1
15°	1661.2	1736.6	1813.3	1894.9	1986.8	2071.8	2152.7	2219.8	2282.0	2364.3	2450.7
17.5°	1640.5	1721.8	1818.5	1917.3	2013.4	2110.6	2210.7	2311.5	2390.0	2492.2	2559.8
20°	1621.1	1715.1	1814.7	1932.2	2028.3	2149.3	2248.8	2346.3	2454.1	2555.8	2636.6
22.5°	1594.0	1696.9	1802.5	1919.5	2046.0	2167.0	2282.0	2387.8	2495.6	2606.1	2704.1
25°	1559.6	1652.9	1778.0	1910.8	2036.6	2167.9	2300.0	2432.7	2548.8	2665.7	2756.9
27.5°	1501.0	1618.8	1735.3	1872.3	2012.1	2160.7	2301.9	2440.9	2562.5	2658.6	2715.2
30°	1471.1	1573.4	1699.9	1837.5	1988.9	2148.6	2295.8	2432.0	2545.4	2622.1	2644.9
32.5°	1426.9	1532.5	1656.2	1798.8	1959.0	2123.1	2276.5	2404.9	2499.5	2539.7	2512.2
35°	1361.2	1456.6	1581.7	1727.6	1894.2	2069.1	2220.5	2329.0	2377.4	2339.4	2244.7
37.5°	1282.4	1376.9	1502.6	1645.9	1818.3	1996.1	2133.0	2211.1	2195.0	2100.5	1959.3
40°	1227.1	1315.6	1435.2	1590.0	1758.0	1936.3	2056.6	2098.8	2054.6	1919.1	1769.1
42.5°	1165.7	1252.0	1372.1	1521.4	1699.4	1863.9	1968.7	1972.2	1898.0	1736.0	1585.4
45°	1072.2	1154.5	1267.9	1423.4	1587.9	1742.8	1811.9	1778.0	1641.2	1484.9	1333.5
47.5°	980.0	1051.3	1163.1	1310.7	1467.0	1597.3	1631.6	1570.6	1424.8	1273.1	1132.8
50°	912.5	984.4	1089.5	1230.5	1381.2	1493.9	1510.5	1429.6	1286.5	1133.7	1023.8
52.5°	847.8	919.2	1020.4	1150.9	1288.9	1390.5	1391.0	1297.4	1154.9	1018.7	916.5
55°	752.8	817.1	908.4	1025.2	1148.3	1227.8	1208.4	1111.6	987.9	869.7	780.5
57.5°	661.3	717.3	801.4	898.8	1007.2	1072.8	1040.7	947.5	837.0	736.8	669.2
60°	602.1	655.4	727.3	819.2	910.5	961.6	931.2	846.8	745.2	664.3	605.6
62.5°	544.6	589.5	658.7	738.5	823.1	861.0	833.9	750.6	662.8	589.7	542.0
65°	463.2	499.8	555.1	623.6	685.1	717.6	694.8	617.3	550.3	497.7	459.7
67.5°	387.1	415.8	457.6	512.5	564.8	582.4	561.6	507.7	450.9	408.8	382.0
70°	334.6	361.6	396.8	439.0	484.6	503.3	482.5	439.7	393.4	354.6	328.4
72.5°	288.7	309.6	339.3	375.4	411.1	429.7	415.6	374.4	335.3	306.5	284.1
75°	219.8	237.8	258.5	284.1	311.8	324.2	311.8	283.4	256.5	235.0	219.1
77.5°	159.8	169.5	185.5	204.6	221.9	231.4	220.7	201.4	185.0	170.3	162.5
80°	121.7	128.6	139.6	154.9	166.6	175.6	168.7	152.8	139.6	130.0	126.5
82.5°	88.5	93.2	100.4	111.7	119.6	124.2	121.1	109.6	104.2	95.7	92.2
85°	43.6	46.3	51.2	54.6	61.5	62.2	62.9	58.1	53.2	51.2	48.4
87.5°	16.0	17.1	19.2	21.4	24.0	24.9	24.8	25.1	23.3	23.0	21.0
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





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**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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1759.0	1760.1	1765.0	1768.9	1770.0	1775.6	1776.1
5°	1913.5	1925.3	1948.1	1950.2	1953.6	1971.6	1957.8
7.5°	2094.7	2124.5	2144.4	2162.0	2168.4	2176.2	2174.6
10°	2210.8	2255.0	2277.2	2312.4	2313.8	2322.8	2317.3
12.5°	2327.5	2378.9	2419.3	2425.8	2455.4	2459.9	2467.7
15°	2492.8	2547.5	2603.5	2623.5	2664.3	2674.0	2689.2
17.5°	2648.3	2704.1	2743.4	2795.2	2812.0	2834.4	2819.1
20°	2733.4	2794.3	2844.0	2884.8	2902.1	2914.5	2913.2
22.5°	2784.9	2846.2	2886.6	2917.4	2933.6	2938.9	2938.6
25°	2817.1	2852.3	2864.8	2876.5	2858.6	2852.3	2855.1
27.5°	2727.5	2718.4	2685.9	2643.3	2599.0	2563.9	2544.8
30°	2604.2	2550.2	2501.1	2415.4	2371.2	2344.9	2321.4
32.5°	2429.4	2343.9	2249.5	2171.0	2120.7	2081.7	2075.9
35°	2129.9	2001.3	1885.9	1789.8	1740.0	1697.8	1688.2
37.5°	1810.8	1677.2	1573.3	1488.7	1435.2	1405.4	1377.6
40°	1599.0	1484.2	1381.9	1310.0	1269.2	1247.8	1230.5
42.5°	1435.8	1331.0	1229.3	1174.5	1137.6	1124.5	1114.4
45°	1210.5	1113.0	1042.5	1001.0	979.6	957.5	947.1
47.5°	1030.0	950.7	904.2	869.0	846.0	832.9	826.2
50°	927.7	862.7	821.3	794.3	773.6	763.2	757.7
52.5°	837.0	783.7	748.8	727.4	713.3	705.7	703.5
55°	721.0	680.2	658.1	639.5	629.1	622.2	619.4
57.5°	626.7	595.4	577.4	562.0	558.0	552.2	550.3
60°	564.8	540.6	525.4	515.0	511.6	504.7	506.0
62.5°	510.0	490.3	477.3	471.3	466.8	461.0	462.9
65°	431.4	416.9	409.9	404.4	398.9	395.4	398.2
67.5°	362.0	352.0	342.6	339.4	336.7	336.1	333.2
70°	316.6	308.3	300.0	298.0	298.0	295.2	294.5
72.5°	272.9	266.8	261.3	259.8	257.6	258.7	255.8
75°	210.8	206.0	203.9	201.9	201.2	201.2	199.1
77.5°	155.8	152.2	148.9	148.9	146.4	145.5	145.2
80°	118.2	116.8	114.1	114.1	112.7	113.4	112.0
82.5°	88.9	87.0	86.4	85.3	83.4	83.5	82.1
85°	47.7	45.6	44.9	42.9	41.5	42.9	41.5
87.5°	21.9	21.6	21.2	20.2	19.7	19.8	18.2
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



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**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)