

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: P332653-927

Luminaire Tested: **S124DIP-S1020D1035U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332653-927  
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: S124DIP-S1020D1035U927-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6487.1 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

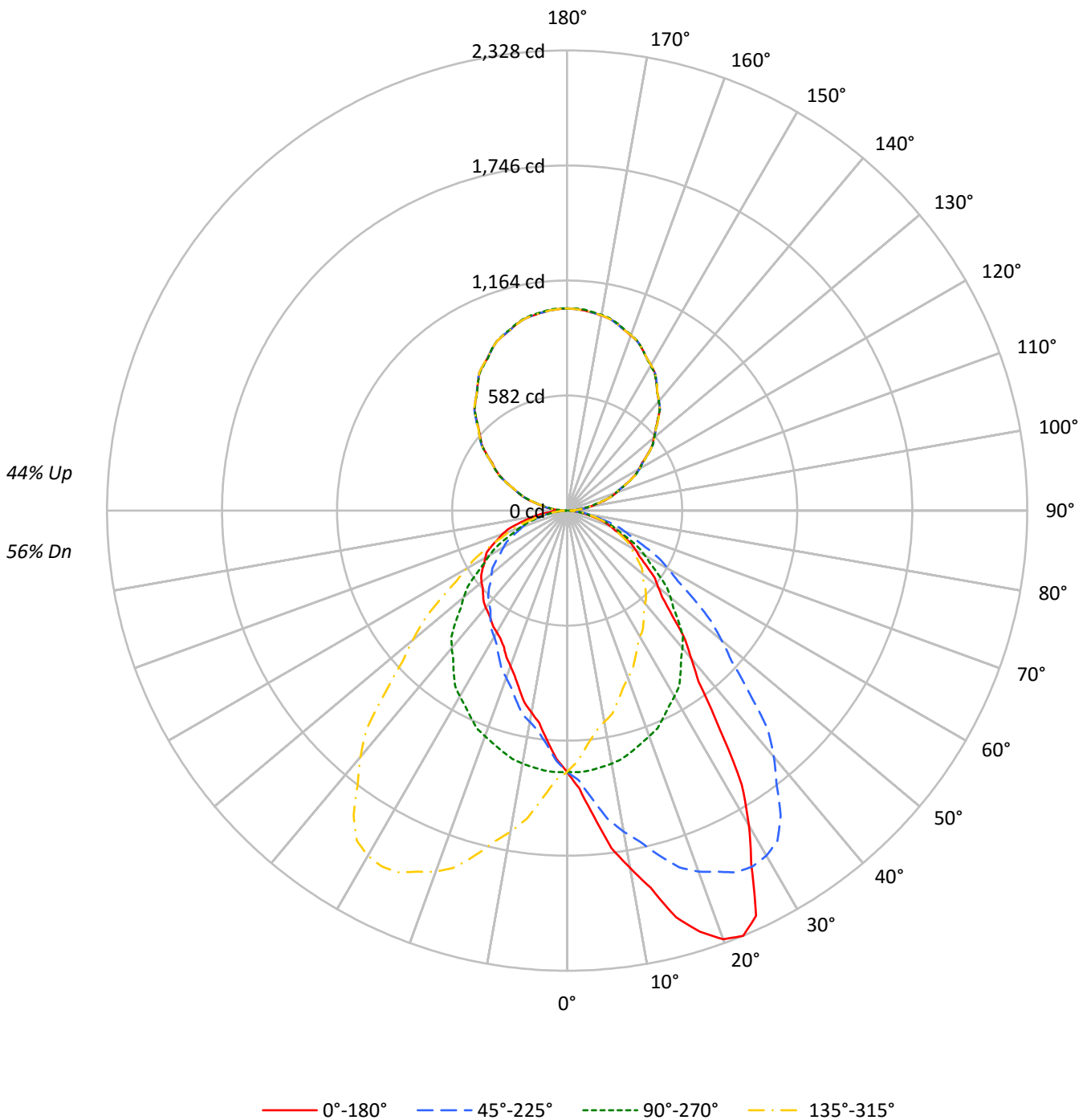
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	77	74	72	65	64	62	55	54	53	48
2	91	83	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	60	77	69	62	57	60	55	51	51	48	44	43	41	38	35
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	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	21
8	55	43	35	30	52	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	20	17	15

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

	0°	90°	180°	270°
0°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	2.0
10°-20°	397.0	6.1
20°-30°	629.5	9.7
30°-40°	700.6	10.8
40°-50°	637.7	9.8
50°-60°	521.1	8.0
60°-70°	372.0	5.7
70°-80°	204.9	3.2
80°-90°	59.0	0.9
90°-100°	67.4	1.0
100°-110°	199.8	3.1
110°-120°	339.1	5.2
120°-130°	447.1	6.9
130°-140°	502.1	7.7
140°-150°	493.4	7.6
150°-160°	415.0	6.4
160°-170°	276.1	4.3
170°-180°	96.7	1.5
0°-30°	1155.3	17.8
0°-40°	1855.8	28.6
0°-60°	3014.6	46.5
0°-90°	3650.5	56.3
90°-120°	606.3	9.3
90°-150°	2048.8	31.6
90°-180°	2837.0	43.7
0°-180°	6487.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	41
90°	24	2	24	2	24	13
95°	62	48	62	48	62	65
105°	193	184	193	184	193	203
115°	342	345	342	345	342	338
125°	498	502	498	502	498	444
135°	648	648	648	648	648	501
145°	788	787	788	787	788	493
155°	901	901	901	901	901	415
165°	979	981	979	981	979	276
175°	1016	1021	1016	1021	1016	96
180°	1022	1022	1022	1022	1022	



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CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	14.4	15.6	15.5	15.9	16.7	17.0	17.3	16.6	18.1	18.4	19.9
90°	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5	18.5	17.4	16.0
92.5°	35.1	34.9	34.7	34.5	34.3	33.8	33.2	32.6	31.9	31.3	30.3
95°	62.5	62.5	62.5	62.5	62.5	62.2	61.7	61.2	60.6	60.1	58.9
97.5°	97.9	97.9	97.9	97.9	97.9	97.6	97.0	96.3	95.7	95.1	93.6
100°	122.6	122.6	122.6	122.6	122.6	122.4	122.0	121.7	121.4	121.0	119.4
102.5°	150.4	150.3	150.1	150.0	149.8	149.5	149.0	148.5	148.1	147.6	146.1
105°	192.9	192.4	191.9	191.3	190.8	190.3	189.8	189.3	188.7	188.2	187.5
107.5°	234.3	234.4	234.4	234.5	234.5	234.2	233.8	233.3	232.8	232.3	232.2
110°	264.1	263.6	263.0	262.5	262.0	261.9	262.2	262.6	262.9	263.3	263.5



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	294.5	294.4	294.2	294.1	294.1	294.1	294.1	294.1	294.2	294.3	294.6
115°	341.6	341.7	341.9	342.1	342.3	342.5	342.6	342.8	343.0	343.2	343.5
117.5°	386.5	386.8	387.2	387.5	387.9	388.4	389.0	389.6	390.1	390.8	391.0
120°	420.6	420.3	419.9	419.6	419.2	419.5	420.4	421.3	422.2	423.0	423.6
122.5°	449.1	449.7	450.4	451.0	451.6	452.3	452.9	453.4	454.1	454.6	454.9
125°	498.1	498.5	498.8	499.2	499.6	499.9	500.3	500.6	501.0	501.3	501.5
127.5°	543.5	543.8	544.1	544.4	544.6	544.9	545.3	545.7	546.1	546.4	546.7
130°	573.2	573.9	574.6	575.4	576.1	576.6	576.9	577.3	577.7	578.0	578.0
132.5°	604.9	605.1	605.5	605.7	606.0	606.3	606.7	607.0	607.4	607.8	607.8
135°	648.4	648.9	649.4	650.0	650.5	650.9	651.3	651.6	652.0	652.4	652.4
137.5°	694.1	694.0	693.9	693.8	693.6	693.9	694.3	694.7	695.2	695.7	695.4
140°	721.9	722.1	722.2	722.5	722.6	722.8	722.9	723.2	723.3	723.5	723.5
142.5°	749.7	749.8	749.8	749.9	749.9	750.0	750.0	750.0	750.0	750.0	750.2
145°	787.5	788.1	788.6	789.1	789.6	790.0	790.2	790.4	790.5	790.7	790.5
147.5°	825.9	826.0	826.2	826.3	826.5	826.6	826.8	827.0	827.1	827.3	827.4
150°	849.2	849.4	849.5	849.8	849.9	850.0	850.0	850.0	850.0	850.0	850.0
152.5°	870.7	871.2	871.6	872.1	872.6	872.6	872.1	871.7	871.3	870.8	870.8
155°	900.6	901.3	902.1	902.7	903.4	903.4	902.7	902.1	901.3	900.6	900.8
157.5°	927.3	928.0	928.5	929.2	929.7	929.8	929.2	928.7	928.2	927.6	927.7
160°	942.5	943.4	944.3	945.2	946.0	946.2	945.7	945.2	944.6	944.1	944.3
162.5°	958.3	959.3	960.1	961.0	961.9	961.8	960.8	959.9	958.9	958.0	958.2
165°	978.9	979.6	980.3	981.0	981.7	981.5	980.5	979.5	978.3	977.3	977.6
167.5°	993.6	994.7	995.8	996.9	998.0	998.0	997.0	995.9	994.8	993.8	993.7
170°	1001.8	1003.1	1004.2	1005.5	1006.7	1006.9	1005.8	1004.7	1003.7	1002.6	1002.4
172.5°	1008.8	1010.0	1011.2	1012.5	1013.7	1013.8	1012.5	1011.3	1010.1	1008.9	1008.9
175°	1016.1	1017.3	1018.5	1019.8	1021.0	1021.0	1019.8	1018.5	1017.3	1016.1	1016.2
177.5°	1019.9	1021.0	1022.1	1023.3	1024.4	1024.5	1023.4	1022.5	1021.4	1020.5	1020.5
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	19.6	19.7	19.0	17.0	15.2	13.5	12.7	11.9	12.7	13.5	14.3
90°	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4	4.3	6.3	8.2
92.5°	29.3	28.4	27.4	25.7	23.5	21.3	19.2	17.0	19.2	21.3	23.5
95°	57.7	56.4	55.1	53.8	52.2	50.6	49.0	47.5	49.0	50.6	52.2
97.5°	92.1	90.7	89.3	87.9	86.7	85.4	84.1	82.9	84.1	85.4	86.7
100°	117.8	116.2	114.6	113.5	112.8	112.1	111.4	110.7	111.4	112.1	112.8
102.5°	144.7	143.2	141.8	140.9	140.6	140.4	140.1	139.8	140.1	140.4	140.6
105°	186.8	186.1	185.4	185.0	184.7	184.6	184.4	184.3	184.4	184.6	184.7
107.5°	232.1	232.0	231.9	231.7	231.6	231.3	231.1	230.9	231.1	231.3	231.6
110°	263.6	263.8	264.0	264.0	263.6	263.2	262.8	262.5	262.8	263.2	263.6





TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.9	295.2	295.6	295.7	295.6	295.6	295.5	295.4	295.5	295.6	295.6
115°	343.9	344.2	344.6	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8
117.5°	391.3	391.5	391.7	391.8	391.7	391.5	391.4	391.3	391.4	391.5	391.7
120°	424.1	424.6	425.2	425.1	424.4	423.7	422.9	422.2	422.9	423.7	424.4
122.5°	455.1	455.4	455.7	455.6	455.3	455.0	454.8	454.5	454.8	455.0	455.3
125°	501.7	501.8	502.0	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1
127.5°	546.9	547.2	547.5	547.4	546.8	546.3	545.8	545.3	545.8	546.3	546.8
130°	578.0	578.0	578.0	577.7	577.2	576.7	576.2	575.6	576.2	576.7	577.2
132.5°	608.0	608.2	608.3	608.2	607.8	607.4	607.0	606.7	607.0	607.4	607.8
135°	652.4	652.4	652.4	651.8	650.8	649.7	648.6	647.6	648.6	649.7	650.8
137.5°	695.1	694.8	694.5	694.2	693.6	693.2	692.7	692.2	692.7	693.2	693.6
140°	723.5	723.5	723.5	723.3	722.9	722.6	722.2	721.9	722.2	722.6	722.9
142.5°	750.4	750.5	750.6	750.5	750.2	749.8	749.5	749.1	749.5	749.8	750.2
145°	790.4	790.2	790.0	789.6	788.9	788.1	787.4	786.7	787.4	788.1	788.9
147.5°	827.5	827.7	827.8	827.4	826.6	825.8	824.9	824.1	824.9	825.8	826.6
150°	850.0	850.0	850.0	849.7	849.0	848.3	847.6	846.8	847.6	848.3	849.0
152.5°	870.6	870.4	870.3	870.1	869.7	869.2	868.8	868.4	868.8	869.2	869.7
155°	900.9	901.1	901.3	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4
157.5°	927.7	927.7	927.8	928.0	928.3	928.6	928.9	929.2	928.9	928.6	928.3
160°	944.4	944.6	944.8	945.0	945.2	945.3	945.5	945.7	945.5	945.3	945.2
162.5°	958.4	958.5	958.7	959.0	959.5	960.0	960.4	960.8	960.4	960.0	959.5
165°	978.0	978.3	978.7	979.1	979.7	980.2	980.7	981.3	980.7	980.2	979.7
167.5°	993.7	993.6	993.6	994.0	994.7	995.5	996.2	997.0	996.2	995.5	994.7
170°	1002.3	1002.1	1001.9	1002.3	1003.1	1004.0	1004.9	1005.8	1004.9	1004.0	1003.1
172.5°	1008.8	1008.8	1008.8	1009.2	1009.9	1010.7	1011.4	1012.1	1011.4	1010.7	1009.9
175°	1016.4	1016.6	1016.8	1017.3	1018.2	1019.1	1019.9	1020.8	1019.9	1019.1	1018.2
177.5°	1020.5	1020.5	1020.5	1020.8	1021.5	1022.2	1022.9	1023.7	1022.9	1022.2	1021.5
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	16.0	16.4	18.4	19.6	21.2	23.6	24.7	29.8	31.7	34.1	38.2
90°	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5	20.6	21.6	22.3
92.5°	25.7	27.4	28.4	29.3	30.3	31.3	31.9	32.6	33.2	33.8	34.3
95°	53.8	55.1	56.4	57.7	58.9	60.1	60.6	61.2	61.7	62.2	62.5
97.5°	87.9	89.3	90.7	92.1	93.6	95.1	95.7	96.3	97.0	97.6	97.9
100°	113.5	114.6	116.2	117.8	119.4	121.0	121.4	121.7	122.0	122.4	122.6
102.5°	140.9	141.8	143.2	144.7	146.1	147.6	148.1	148.5	149.0	149.5	149.8
105°	185.0	185.4	186.1	186.8	187.5	188.2	188.7	189.3	189.8	190.3	190.8
107.5°	231.7	231.9	232.0	232.1	232.2	232.3	232.8	233.3	233.8	234.2	234.5
110°	264.0	264.0	263.8	263.6	263.5	263.3	262.9	262.6	262.2	261.9	262.0



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	295.7	295.6	295.2	294.9	294.6	294.3	294.2	294.1	294.1	294.1	294.1
115°	344.8	344.6	344.2	343.9	343.5	343.2	343.0	342.8	342.6	342.5	342.3
117.5°	391.8	391.7	391.5	391.3	391.0	390.8	390.1	389.6	389.0	388.4	387.9
120°	425.1	425.2	424.6	424.1	423.6	423.0	422.2	421.3	420.4	419.5	419.2
122.5°	455.6	455.7	455.4	455.1	454.9	454.6	454.1	453.4	452.9	452.3	451.6
125°	502.1	502.0	501.8	501.7	501.5	501.3	501.0	500.6	500.3	499.9	499.6
127.5°	547.4	547.5	547.2	546.9	546.7	546.4	546.1	545.7	545.3	544.9	544.6
130°	577.7	578.0	578.0	578.0	578.0	578.0	577.7	577.3	576.9	576.6	576.1
132.5°	608.2	608.3	608.2	608.0	607.8	607.8	607.4	607.0	606.7	606.3	606.0
135°	651.8	652.4	652.4	652.4	652.4	652.4	652.0	651.6	651.3	650.9	650.5
137.5°	694.2	694.5	694.8	695.1	695.4	695.7	695.2	694.7	694.3	693.9	693.6
140°	723.3	723.5	723.5	723.5	723.5	723.5	723.3	723.2	722.9	722.8	722.6
142.5°	750.5	750.6	750.5	750.4	750.2	750.0	750.0	750.0	750.0	750.0	749.9
145°	789.6	790.0	790.2	790.4	790.5	790.7	790.5	790.4	790.2	790.0	789.6
147.5°	827.4	827.8	827.7	827.5	827.4	827.3	827.1	827.0	826.8	826.6	826.5
150°	849.7	850.0	850.0	850.0	850.0	850.0	850.0	850.0	850.0	850.0	849.9
152.5°	870.1	870.3	870.4	870.6	870.8	870.8	871.3	871.7	872.1	872.6	872.6
155°	901.4	901.3	901.1	900.9	900.8	900.6	901.3	902.1	902.7	903.4	903.4
157.5°	928.0	927.8	927.7	927.7	927.7	927.6	928.2	928.7	929.2	929.8	929.7
160°	945.0	944.8	944.6	944.4	944.3	944.1	944.6	945.2	945.7	946.2	946.0
162.5°	959.0	958.7	958.5	958.4	958.2	958.0	958.9	959.9	960.8	961.8	961.9
165°	979.1	978.7	978.3	978.0	977.6	977.3	978.3	979.5	980.5	981.5	981.7
167.5°	994.0	993.6	993.6	993.7	993.7	993.8	994.8	995.9	997.0	998.0	998.0
170°	1002.3	1001.9	1002.1	1002.3	1002.4	1002.6	1003.7	1004.7	1005.8	1006.9	1006.7
172.5°	1009.2	1008.8	1008.8	1008.8	1008.9	1008.9	1010.1	1011.3	1012.5	1013.8	1013.7
175°	1017.3	1016.8	1016.6	1016.4	1016.2	1016.1	1017.3	1018.5	1019.8	1021.0	1021.0
177.5°	1020.8	1020.5	1020.5	1020.5	1020.5	1020.5	1021.4	1022.5	1023.4	1024.5	1024.4
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	39.6	40.1	41.5	42.5	41.5	40.1	39.6	38.2	34.1	31.7	29.8
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5
92.5°	34.5	34.7	34.9	35.1	34.9	34.7	34.5	34.3	33.8	33.2	32.6
95°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.2	61.7	61.2
97.5°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.6	97.0	96.3
100°	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.4	122.0	121.7
102.5°	150.0	150.1	150.3	150.4	150.3	150.1	150.0	149.8	149.5	149.0	148.5
105°	191.3	191.9	192.4	192.9	192.4	191.9	191.3	190.8	190.3	189.8	189.3
107.5°	234.5	234.4	234.4	234.3	234.4	234.4	234.5	234.5	234.2	233.8	233.3
110°	262.5	263.0	263.6	264.1	263.6	263.0	262.5	262.0	261.9	262.2	262.6



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	294.1	294.2	294.4	294.5	294.4	294.2	294.1	294.1	294.1	294.1	294.1
115°	342.1	341.9	341.7	341.6	341.7	341.9	342.1	342.3	342.5	342.6	342.8
117.5°	387.5	387.2	386.8	386.5	386.8	387.2	387.5	387.9	388.4	389.0	389.6
120°	419.6	419.9	420.3	420.6	420.3	419.9	419.6	419.2	419.5	420.4	421.3
122.5°	451.0	450.4	449.7	449.1	449.7	450.4	451.0	451.6	452.3	452.9	453.4
125°	499.2	498.8	498.5	498.1	498.5	498.8	499.2	499.6	499.9	500.3	500.6
127.5°	544.4	544.1	543.8	543.5	543.8	544.1	544.4	544.6	544.9	545.3	545.7
130°	575.4	574.6	573.9	573.2	573.9	574.6	575.4	576.1	576.6	576.9	577.3
132.5°	605.7	605.5	605.1	604.9	605.1	605.5	605.7	606.0	606.3	606.7	607.0
135°	650.0	649.4	648.9	648.4	648.9	649.4	650.0	650.5	650.9	651.3	651.6
137.5°	693.8	693.9	694.0	694.1	694.0	693.9	693.8	693.6	693.9	694.3	694.7
140°	722.5	722.2	722.1	721.9	722.1	722.2	722.5	722.6	722.8	722.9	723.2
142.5°	749.9	749.8	749.8	749.7	749.8	749.8	749.9	749.9	750.0	750.0	750.0
145°	789.1	788.6	788.1	787.5	788.1	788.6	789.1	789.6	790.0	790.2	790.4
147.5°	826.3	826.2	826.0	825.9	826.0	826.2	826.3	826.5	826.6	826.8	827.0
150°	849.8	849.5	849.4	849.2	849.4	849.5	849.8	849.9	850.0	850.0	850.0
152.5°	872.1	871.6	871.2	870.7	871.2	871.6	872.1	872.6	872.6	872.1	871.7
155°	902.7	902.1	901.3	900.6	901.3	902.1	902.7	903.4	903.4	902.7	902.1
157.5°	929.2	928.5	928.0	927.3	928.0	928.5	929.2	929.7	929.8	929.2	928.7
160°	945.2	944.3	943.4	942.5	943.4	944.3	945.2	946.0	946.2	945.7	945.2
162.5°	961.0	960.1	959.3	958.3	959.3	960.1	961.0	961.9	961.8	960.8	959.9
165°	981.0	980.3	979.6	978.9	979.6	980.3	981.0	981.7	981.5	980.5	979.5
167.5°	996.9	995.8	994.7	993.6	994.7	995.8	996.9	998.0	998.0	997.0	995.9
170°	1005.5	1004.2	1003.1	1001.8	1003.1	1004.2	1005.5	1006.7	1006.9	1005.8	1004.7
172.5°	1012.5	1011.2	1010.0	1008.8	1010.0	1011.2	1012.5	1013.7	1013.8	1012.5	1011.3
175°	1019.8	1018.5	1017.3	1016.1	1017.3	1018.5	1019.8	1021.0	1021.0	1019.8	1018.5
177.5°	1023.3	1022.1	1021.0	1019.9	1021.0	1022.1	1023.3	1024.4	1024.5	1023.4	1022.5
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	24.7	23.6	21.2	19.6	18.4	16.4	16.0	14.3	13.5	12.7	11.9
90°	18.5	17.4	16.0	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4
92.5°	31.9	31.3	30.3	29.3	28.4	27.4	25.7	23.5	21.3	19.2	17.0
95°	60.6	60.1	58.9	57.7	56.4	55.1	53.8	52.2	50.6	49.0	47.5
97.5°	95.7	95.1	93.6	92.1	90.7	89.3	87.9	86.7	85.4	84.1	82.9
100°	121.4	121.0	119.4	117.8	116.2	114.6	113.5	112.8	112.1	111.4	110.7
102.5°	148.1	147.6	146.1	144.7	143.2	141.8	140.9	140.6	140.4	140.1	139.8
105°	188.7	188.2	187.5	186.8	186.1	185.4	185.0	184.7	184.6	184.4	184.3
107.5°	232.8	232.3	232.2	232.1	232.0	231.9	231.7	231.6	231.3	231.1	230.9
110°	262.9	263.3	263.5	263.6	263.8	264.0	264.0	263.6	263.2	262.8	262.5



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	294.2	294.3	294.6	294.9	295.2	295.6	295.7	295.6	295.6	295.5	295.4
115°	343.0	343.2	343.5	343.9	344.2	344.6	344.8	344.8	344.8	344.8	344.8
117.5°	390.1	390.8	391.0	391.3	391.5	391.7	391.8	391.7	391.5	391.4	391.3
120°	422.2	423.0	423.6	424.1	424.6	425.2	425.1	424.4	423.7	422.9	422.2
122.5°	454.1	454.6	454.9	455.1	455.4	455.7	455.6	455.3	455.0	454.8	454.5
125°	501.0	501.3	501.5	501.7	501.8	502.0	502.1	502.1	502.1	502.1	502.1
127.5°	546.1	546.4	546.7	546.9	547.2	547.5	547.4	546.8	546.3	545.8	545.3
130°	577.7	578.0	578.0	578.0	578.0	578.0	577.7	577.2	576.7	576.2	575.6
132.5°	607.4	607.8	607.8	608.0	608.2	608.3	608.2	607.8	607.4	607.0	606.7
135°	652.0	652.4	652.4	652.4	652.4	652.4	651.8	650.8	649.7	648.6	647.6
137.5°	695.2	695.7	695.4	695.1	694.8	694.5	694.2	693.6	693.2	692.7	692.2
140°	723.3	723.5	723.5	723.5	723.5	723.5	723.3	722.9	722.6	722.2	721.9
142.5°	750.0	750.0	750.2	750.4	750.5	750.6	750.5	750.2	749.8	749.5	749.1
145°	790.5	790.7	790.5	790.4	790.2	790.0	789.6	788.9	788.1	787.4	786.7
147.5°	827.1	827.3	827.4	827.5	827.7	827.8	827.4	826.6	825.8	824.9	824.1
150°	850.0	850.0	850.0	850.0	850.0	850.0	849.7	849.0	848.3	847.6	846.8
152.5°	871.3	870.8	870.8	870.6	870.4	870.3	870.1	869.7	869.2	868.8	868.4
155°	901.3	900.6	900.8	900.9	901.1	901.3	901.4	901.4	901.4	901.4	901.4
157.5°	928.2	927.6	927.7	927.7	927.7	927.8	928.0	928.3	928.6	928.9	929.2
160°	944.6	944.1	944.3	944.4	944.6	944.8	945.0	945.2	945.3	945.5	945.7
162.5°	958.9	958.0	958.2	958.4	958.5	958.7	959.0	959.5	960.0	960.4	960.8
165°	978.3	977.3	977.6	978.0	978.3	978.7	979.1	979.7	980.2	980.7	981.3
167.5°	994.8	993.8	993.7	993.7	993.6	993.6	994.0	994.7	995.5	996.2	997.0
170°	1003.7	1002.6	1002.4	1002.3	1002.1	1001.9	1002.3	1003.1	1004.0	1004.9	1005.8
172.5°	1010.1	1008.9	1008.9	1008.8	1008.8	1008.8	1009.2	1009.9	1010.7	1011.4	1012.1
175°	1017.3	1016.1	1016.2	1016.4	1016.6	1016.8	1017.3	1018.2	1019.1	1019.9	1020.8
177.5°	1021.4	1020.5	1020.5	1020.5	1020.5	1020.5	1020.8	1021.5	1022.2	1022.9	1023.7
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.7	13.5	15.2	17.0	19.0	19.7	19.6	19.9	18.4	18.1	16.6
90°	4.3	6.3	8.2	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5
92.5°	19.2	21.3	23.5	25.7	27.4	28.4	29.3	30.3	31.3	31.9	32.6
95°	49.0	50.6	52.2	53.8	55.1	56.4	57.7	58.9	60.1	60.6	61.2
97.5°	84.1	85.4	86.7	87.9	89.3	90.7	92.1	93.6	95.1	95.7	96.3
100°	111.4	112.1	112.8	113.5	114.6	116.2	117.8	119.4	121.0	121.4	121.7
102.5°	140.1	140.4	140.6	140.9	141.8	143.2	144.7	146.1	147.6	148.1	148.5
105°	184.4	184.6	184.7	185.0	185.4	186.1	186.8	187.5	188.2	188.7	189.3
107.5°	231.1	231.3	231.6	231.7	231.9	232.0	232.1	232.2	232.3	232.8	233.3
110°	262.8	263.2	263.6	264.0	264.0	263.8	263.6	263.5	263.3	262.9	262.6





TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	295.5	295.6	295.6	295.7	295.6	295.2	294.9	294.6	294.3	294.2	294.1
115°	344.8	344.8	344.8	344.8	344.6	344.2	343.9	343.5	343.2	343.0	342.8
117.5°	391.4	391.5	391.7	391.8	391.7	391.5	391.3	391.0	390.8	390.1	389.6
120°	422.9	423.7	424.4	425.1	425.2	424.6	424.1	423.6	423.0	422.2	421.3
122.5°	454.8	455.0	455.3	455.6	455.7	455.4	455.1	454.9	454.6	454.1	453.4
125°	502.1	502.1	502.1	502.1	502.0	501.8	501.7	501.5	501.3	501.0	500.6
127.5°	545.8	546.3	546.8	547.4	547.5	547.2	546.9	546.7	546.4	546.1	545.7
130°	576.2	576.7	577.2	577.7	578.0	578.0	578.0	578.0	578.0	577.7	577.3
132.5°	607.0	607.4	607.8	608.2	608.3	608.2	608.0	607.8	607.8	607.4	607.0
135°	648.6	649.7	650.8	651.8	652.4	652.4	652.4	652.4	652.4	652.0	651.6
137.5°	692.7	693.2	693.6	694.2	694.5	694.8	695.1	695.4	695.7	695.2	694.7
140°	722.2	722.6	722.9	723.3	723.5	723.5	723.5	723.5	723.5	723.3	723.2
142.5°	749.5	749.8	750.2	750.5	750.6	750.5	750.4	750.2	750.0	750.0	750.0
145°	787.4	788.1	788.9	789.6	790.0	790.2	790.4	790.5	790.7	790.5	790.4
147.5°	824.9	825.8	826.6	827.4	827.8	827.7	827.5	827.4	827.3	827.1	827.0
150°	847.6	848.3	849.0	849.7	850.0	850.0	850.0	850.0	850.0	850.0	850.0
152.5°	868.8	869.2	869.7	870.1	870.3	870.4	870.6	870.8	870.8	871.3	871.7
155°	901.4	901.4	901.4	901.4	901.3	901.1	900.9	900.8	900.6	901.3	902.1
157.5°	928.9	928.6	928.3	928.0	927.8	927.7	927.7	927.7	927.6	928.2	928.7
160°	945.5	945.3	945.2	945.0	944.8	944.6	944.4	944.3	944.1	944.6	945.2
162.5°	960.4	960.0	959.5	959.0	958.7	958.5	958.4	958.2	958.0	958.9	959.9
165°	980.7	980.2	979.7	979.1	978.7	978.3	978.0	977.6	977.3	978.3	979.5
167.5°	996.2	995.5	994.7	994.0	993.6	993.6	993.7	993.7	993.8	994.8	995.9
170°	1004.9	1004.0	1003.1	1002.3	1001.9	1002.1	1002.3	1002.4	1002.6	1003.7	1004.7
172.5°	1011.4	1010.7	1009.9	1009.2	1008.8	1008.8	1008.8	1008.9	1008.9	1010.1	1011.3
175°	1019.9	1019.1	1018.2	1017.3	1016.8	1016.6	1016.4	1016.2	1016.1	1017.3	1018.5
177.5°	1022.9	1022.2	1021.5	1020.8	1020.5	1020.5	1020.5	1020.5	1020.5	1021.4	1022.5
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	17.3	17.0	16.7	15.9	15.5	15.6	14.4
90°	20.6	21.6	22.3	22.7	23.1	23.4	23.7
92.5°	33.2	33.8	34.3	34.5	34.7	34.9	35.1
95°	61.7	62.2	62.5	62.5	62.5	62.5	62.5
97.5°	97.0	97.6	97.9	97.9	97.9	97.9	97.9
100°	122.0	122.4	122.6	122.6	122.6	122.6	122.6
102.5°	149.0	149.5	149.8	150.0	150.1	150.3	150.4
105°	189.8	190.3	190.8	191.3	191.9	192.4	192.9
107.5°	233.8	234.2	234.5	234.5	234.4	234.4	234.3
110°	262.2	261.9	262.0	262.5	263.0	263.6	264.1



TEST NUMBER: P332653-927

CATALOG NUMBER: S124DIP-S1020D1035U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	294.1	294.1	294.1	294.1	294.2	294.4	294.5
115°	342.6	342.5	342.3	342.1	341.9	341.7	341.6
117.5°	389.0	388.4	387.9	387.5	387.2	386.8	386.5
120°	420.4	419.5	419.2	419.6	419.9	420.3	420.6
122.5°	452.9	452.3	451.6	451.0	450.4	449.7	449.1
125°	500.3	499.9	499.6	499.2	498.8	498.5	498.1
127.5°	545.3	544.9	544.6	544.4	544.1	543.8	543.5
130°	576.9	576.6	576.1	575.4	574.6	573.9	573.2
132.5°	606.7	606.3	606.0	605.7	605.5	605.1	604.9
135°	651.3	650.9	650.5	650.0	649.4	648.9	648.4
137.5°	694.3	693.9	693.6	693.8	693.9	694.0	694.1
140°	722.9	722.8	722.6	722.5	722.2	722.1	721.9
142.5°	750.0	750.0	749.9	749.9	749.8	749.8	749.7
145°	790.2	790.0	789.6	789.1	788.6	788.1	787.5
147.5°	826.8	826.6	826.5	826.3	826.2	826.0	825.9
150°	850.0	850.0	849.9	849.8	849.5	849.4	849.2
152.5°	872.1	872.6	872.6	872.1	871.6	871.2	870.7
155°	902.7	903.4	903.4	902.7	902.1	901.3	900.6
157.5°	929.2	929.8	929.7	929.2	928.5	928.0	927.3
160°	945.7	946.2	946.0	945.2	944.3	943.4	942.5
162.5°	960.8	961.8	961.9	961.0	960.1	959.3	958.3
165°	980.5	981.5	981.7	981.0	980.3	979.6	978.9
167.5°	997.0	998.0	998.0	996.9	995.8	994.7	993.6
170°	1005.8	1006.9	1006.7	1005.5	1004.2	1003.1	1001.8
172.5°	1012.5	1013.8	1013.7	1012.5	1011.2	1010.0	1008.8
175°	1019.8	1021.0	1021.0	1019.8	1018.5	1017.3	1016.1
177.5°	1023.4	1024.5	1024.4	1023.3	1022.1	1021.0	1019.9
180°	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4	1022.4

(END OF REPORT)