

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: P332643-935

Luminaire Tested: **S124DIP-S1020D810U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332643-935  
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: S124DIP-S1020D810U935-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6751.1 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

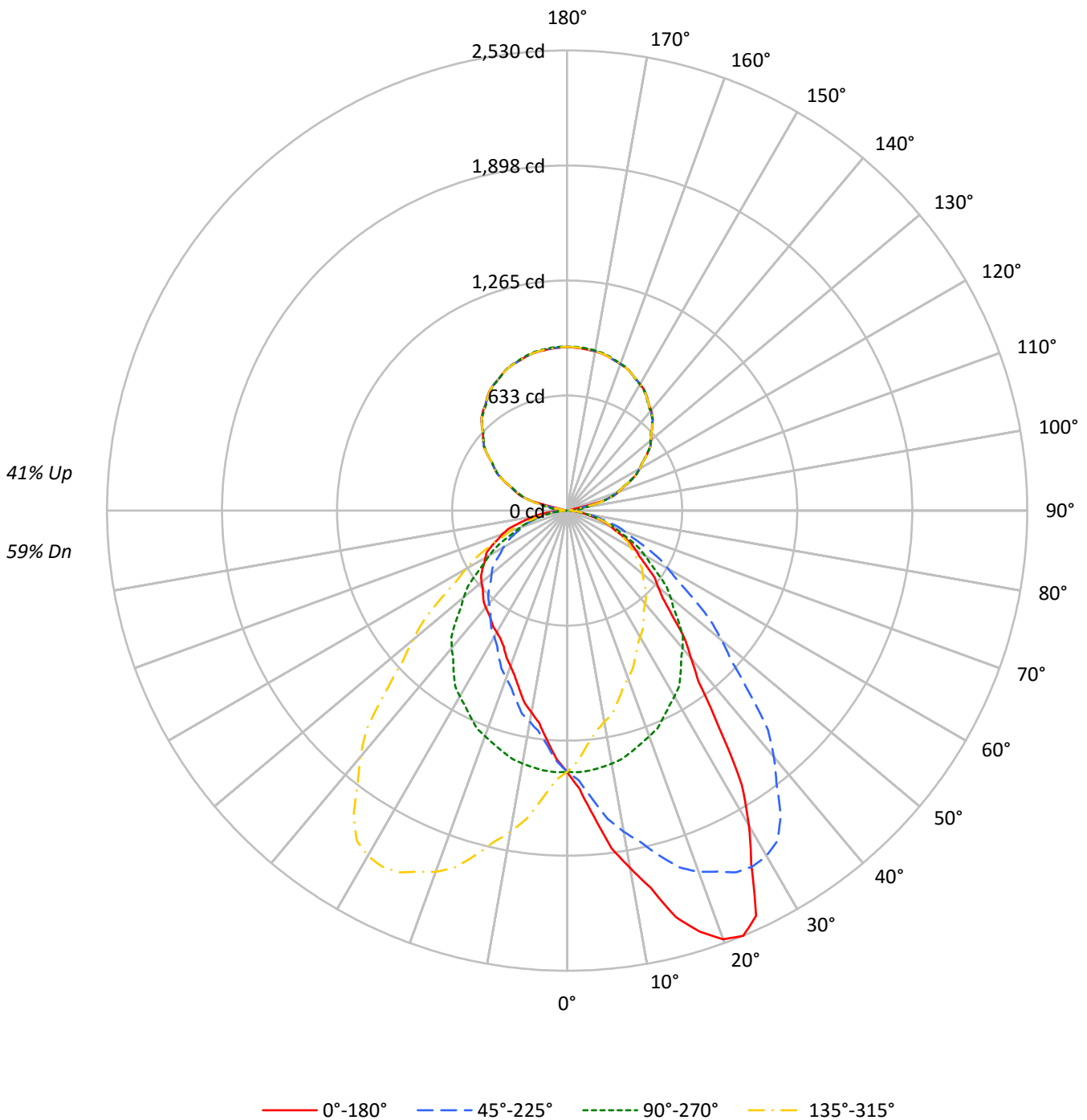
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**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	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	68	64	61	59	56	54	51	48	46	42
3	83	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	40	37	35	31
5	70	59	51	45	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	21
8	56	43	36	30	52	41	34	29	36	31	27	32	27	24	28	24	21	19
9	52	40	32	27	49	38	31	26	33	28	24	30	25	22	26	22	19	17
10	49	37	29	24	45	35	28	23	31	25	22	27	23	20	24	20	18	16

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

	0°	90°	180°	270°
0°	11599	11599	11599	11599
5°	13661	11629	10264	11629
10°	16356	11579	9241	11579
15°	19351	11462	8487	11462
20°	21549	11342	7814	11342
25°	21896	11166	7349	11166
30°	18632	10997	7202	10997
35°	14325	10723	7203	10723
40°	11166	10400	7339	10400
45°	9310	9914	7462	9914
50°	8194	9323	7714	9323
55°	7506	8612	8025	8612
60°	7035	7976	8399	7976
65°	6550	7265	8709	7265
70°	5986	6559	8908	6559
75°	5346	5774	8799	5774
80°	4482	4733	8522	4733
85°	3307	3418	8160	3418



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	2.1
10°-20°	431.5	6.4
20°-30°	684.2	10.1
30°-40°	761.4	11.3
40°-50°	693.1	10.3
50°-60°	566.4	8.4
60°-70°	404.3	6.0
70°-80°	222.6	3.3
80°-90°	63.4	0.9
90°-100°	30.8	0.5
100°-110°	196.3	2.9
110°-120°	375.5	5.6
120°-130°	476.7	7.1
130°-140°	510.0	7.6
140°-150°	476.9	7.1
150°-160°	384.6	5.7
160°-170°	248.0	3.7
170°-180°	85.5	1.3
0°-30°	1255.6	18.6
0°-40°	2017.1	29.9
0°-60°	3276.5	48.5
0°-90°	3966.9	58.8
90°-120°	602.6	8.9
90°-150°	2066.1	30.6
90°-180°	2784.0	41.2
0°-180°	6751.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1686	1435	1267	1435	1686	171
15°	2315	1371	1016	1371	2315	654
25°	2458	1254	825	1254	2458	1084
35°	1454	1088	731	1088	1454	923
45°	816	868	654	868	816	642
55°	533	612	570	612	533	482
65°	343	380	456	380	343	339
75°	171	185	282	185	171	182
85°	36	37	88	37	36	44
90°	20	2	20	2	20	10
95°	20	37	20	37	20	16
105°	192	203	192	203	192	167
115°	381	378	381	378	381	377
125°	536	532	536	532	536	477
135°	664	660	664	660	664	511
145°	765	761	765	761	765	478
155°	833	834	833	834	833	384
165°	876	880	876	880	876	247
175°	895	900	895	900	895	85
180°	900	900	900	900	900	



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1529.2	1528.8	1524.0	1523.0	1519.7	1515.4	1514.5	1506.8	1491.6	1484.5	1482.6
5°	1685.7	1697.5	1682.0	1679.1	1677.3	1657.7	1647.5	1635.6	1608.3	1592.2	1579.7
7.5°	1872.3	1873.7	1867.0	1861.5	1846.3	1829.2	1803.5	1776.2	1743.5	1709.6	1683.9
10°	1995.2	1999.9	1992.2	1991.0	1960.7	1941.6	1903.5	1871.4	1834.4	1793.4	1755.9
12.5°	2124.7	2118.0	2114.1	2088.6	2083.0	2048.2	2004.0	1970.9	1914.0	1866.7	1816.8
15°	2315.4	2302.3	2294.0	2258.8	2241.6	2193.4	2146.3	2110.1	2035.7	1964.8	1911.2
17.5°	2427.2	2440.4	2421.1	2406.7	2362.1	2328.2	2280.2	2204.0	2145.8	2057.8	1990.2
20°	2508.3	2509.4	2498.7	2483.8	2448.7	2405.9	2353.5	2270.1	2200.5	2113.0	2020.2
22.5°	2530.1	2530.4	2525.8	2511.9	2485.4	2450.6	2397.8	2328.2	2243.9	2148.7	2055.9
25°	2458.2	2455.8	2461.3	2476.7	2466.6	2455.8	2425.5	2373.7	2295.2	2194.5	2094.6
27.5°	2191.1	2207.5	2237.7	2275.9	2312.6	2340.5	2348.4	2337.8	2289.1	2206.3	2101.6
30°	1998.7	2019.0	2041.6	2079.7	2153.4	2195.7	2242.2	2277.3	2257.6	2191.6	2094.0
32.5°	1787.3	1792.3	1825.9	1869.2	1936.8	2018.1	2091.7	2163.0	2186.7	2152.1	2070.6
35°	1453.5	1461.8	1498.1	1541.0	1623.8	1723.1	1833.8	1932.7	2014.2	2046.9	2005.3
37.5°	1186.1	1210.0	1235.7	1281.8	1354.6	1444.1	1559.1	1687.0	1808.5	1889.9	1903.8
40°	1059.5	1074.4	1092.8	1127.9	1189.8	1277.9	1376.7	1523.2	1652.3	1769.0	1807.1
42.5°	959.5	968.2	979.5	1011.2	1058.4	1146.0	1236.2	1365.0	1494.7	1634.2	1698.1
45°	815.5	824.4	843.4	861.9	897.6	958.3	1042.2	1148.1	1278.5	1413.1	1530.9
47.5°	711.4	717.1	728.4	748.2	778.5	818.6	886.8	975.3	1096.1	1226.8	1352.3
50°	652.4	657.1	666.1	683.9	707.1	742.8	798.7	881.5	976.1	1107.7	1230.9
52.5°	605.7	607.6	614.2	626.3	644.7	674.8	720.7	789.1	877.1	994.4	1117.1
55°	533.3	535.7	541.7	550.6	566.6	585.7	620.8	672.0	748.8	850.6	957.1
57.5°	473.8	475.4	480.4	483.9	497.1	512.6	539.6	576.2	634.4	720.7	815.8
60°	435.7	434.5	440.5	443.4	452.4	465.5	486.3	521.4	572.0	641.6	729.1
62.5°	398.6	396.9	401.9	405.8	411.0	422.1	439.1	466.7	507.7	570.7	646.3
65°	342.9	340.4	343.5	348.2	352.9	359.0	371.4	395.8	428.5	473.8	531.5
67.5°	286.9	289.4	289.9	292.2	295.0	303.1	311.7	328.9	352.0	388.2	437.1
70°	253.6	254.2	256.6	256.6	258.3	265.4	272.6	282.8	305.3	338.7	378.6
72.5°	220.2	222.7	221.8	223.7	225.0	229.7	235.0	244.6	263.9	288.7	322.4
75°	171.4	173.2	173.2	173.8	175.6	177.4	181.5	188.6	202.3	220.8	244.0
77.5°	125.0	125.3	126.1	128.2	128.2	131.0	134.1	139.9	146.6	159.3	173.4
80°	96.4	97.6	97.0	98.2	98.2	100.6	101.8	108.9	111.9	120.2	131.6
82.5°	70.7	71.9	71.8	73.4	74.4	74.9	76.5	79.4	82.4	89.7	94.4
85°	35.7	36.9	35.7	36.9	38.7	39.3	41.1	41.7	44.1	45.8	50.0
87.5°	14.6	15.8	15.8	16.3	17.1	17.5	17.8	17.1	18.9	19.1	20.8
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1	15.2	14.3	13.1
95°	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6	15.7	14.8	14.6
97.5°	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0	17.8	17.7	34.4
100°	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5	27.0	29.6	50.3
102.5°	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8	115.3	142.8	145.4
105°	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8	211.4	210.0	209.3
107.5°	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2	262.5	261.9	260.9
110°	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5	297.2	296.9	296.0



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7	330.8	330.8	330.4
115°	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3	380.0	379.7	379.9
117.5°	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2	430.2	430.3	430.0
120°	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1	460.8	460.5	460.6
122.5°	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5	491.4	491.2	490.9
125°	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1	533.6	533.2	533.5
127.5°	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4	576.4	576.5	575.8
130°	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2	602.0	601.8	601.4
132.5°	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5	627.3	627.2	626.5
135°	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4	662.0	661.8	661.2
137.5°	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8	695.5	695.2	694.5
140°	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5	716.1	715.6	715.3
142.5°	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6	735.4	735.0	734.9
145°	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0	762.9	762.8	762.8
147.5°	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1	787.0	786.9	787.0
150°	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5	802.5	802.5	802.6
152.5°	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9	815.6	815.4	815.6
155°	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0	833.4	832.8	833.2
157.5°	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5	848.8	848.0	848.5
160°	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5	858.6	857.6	857.8
162.5°	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5	866.7	865.7	865.9
165°	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9	877.7	876.5	876.5
167.5°	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3	885.9	884.6	884.7
170°	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3	891.1	890.0	889.8
172.5°	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6	894.4	893.2	893.0
175°	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4	898.0	896.7	896.6
177.5°	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0	899.9	899.0	898.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1483.1	1476.4	1471.6	1467.8	1457.3	1451.1	1446.4	1439.7	1432.1	1424.0	1414.0
5°	1567.2	1547.0	1532.1	1509.5	1488.1	1470.2	1451.7	1435.0	1414.8	1392.8	1376.7
7.5°	1655.6	1625.6	1587.0	1553.5	1515.9	1483.2	1453.9	1423.8	1392.7	1362.4	1334.7
10°	1711.8	1673.2	1630.3	1579.7	1532.1	1489.8	1450.5	1412.5	1375.5	1338.6	1307.1
12.5°	1772.3	1724.1	1660.8	1601.6	1548.3	1491.8	1444.3	1397.7	1353.1	1314.3	1277.6
15°	1853.5	1783.8	1710.6	1631.5	1561.3	1495.2	1430.3	1371.4	1321.4	1270.1	1234.5
17.5°	1903.4	1817.2	1733.5	1650.8	1565.7	1482.5	1412.5	1344.5	1281.9	1231.1	1186.0
20°	1936.2	1850.5	1746.4	1663.6	1562.5	1476.7	1395.8	1320.2	1254.7	1200.6	1154.1
22.5°	1964.8	1865.8	1761.6	1652.7	1552.0	1461.0	1372.4	1296.4	1229.5	1172.4	1127.9
25°	1980.3	1866.6	1753.5	1645.2	1530.9	1423.1	1342.8	1253.5	1182.1	1122.0	1074.4
27.5°	1981.9	1860.4	1732.4	1612.1	1494.1	1393.8	1292.4	1212.5	1138.4	1074.9	1029.2
30°	1976.7	1849.9	1712.4	1582.1	1463.6	1354.7	1266.6	1179.7	1104.1	1041.0	993.4
32.5°	1960.1	1828.0	1686.7	1548.8	1426.0	1319.5	1228.6	1145.9	1072.2	1010.0	960.1
35°	1911.9	1781.5	1630.9	1487.5	1361.8	1254.1	1172.0	1088.0	1014.3	955.3	907.1
37.5°	1836.5	1718.6	1565.6	1417.1	1293.7	1185.5	1104.1	1028.3	961.7	901.9	852.5
40°	1770.7	1667.2	1513.6	1369.0	1235.7	1132.7	1056.5	986.9	920.8	864.3	817.3
42.5°	1695.1	1604.8	1463.2	1309.9	1181.4	1078.0	1003.7	941.2	878.9	826.6	779.6
45°	1560.0	1500.6	1367.2	1225.5	1091.7	994.0	923.2	868.4	816.1	764.8	725.6
47.5°	1404.8	1375.3	1263.1	1128.5	1001.4	905.2	843.8	793.2	747.3	703.9	669.3
50°	1300.5	1286.2	1189.2	1059.5	938.1	847.6	785.7	742.3	702.9	664.9	632.1
52.5°	1197.7	1197.2	1109.7	990.9	878.6	791.4	730.0	689.4	655.3	624.4	595.0
55°	1040.4	1057.1	988.7	882.7	782.1	703.5	648.2	611.9	588.1	562.5	540.4
57.5°	896.0	923.7	867.2	773.9	690.0	617.6	569.4	542.1	516.8	501.3	485.3
60°	801.8	827.9	783.9	705.3	626.2	564.3	518.4	494.0	472.0	461.3	450.0
62.5°	718.0	741.3	708.7	635.8	567.1	507.6	468.9	445.5	430.6	418.9	411.4
65°	598.2	617.9	589.9	536.9	477.9	430.3	398.8	380.3	366.1	361.3	352.9
67.5°	483.5	501.4	486.3	441.3	394.0	358.0	333.3	315.6	307.1	303.0	297.0
70°	415.4	433.3	417.2	378.0	341.6	311.3	288.1	277.9	269.1	267.3	258.9
72.5°	357.8	370.0	354.0	323.2	292.1	266.6	248.6	238.0	233.3	230.1	225.6
75°	268.5	279.1	268.5	244.6	222.6	204.7	189.2	185.1	179.8	178.0	175.0
77.5°	190.0	199.2	191.1	176.2	159.7	145.9	137.6	132.2	131.0	127.9	129.4
80°	145.3	151.2	143.4	133.4	120.2	110.7	104.8	101.8	98.2	97.0	99.4
82.5°	104.3	106.9	103.0	96.2	86.4	80.2	76.2	72.8	72.0	72.2	72.2
85°	54.2	53.6	53.0	47.0	44.1	39.9	37.5	36.9	36.3	37.5	38.7
87.5°	20.6	20.8	20.1	17.9	16.2	14.4	13.6	12.7	13.6	14.4	15.2
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5	8.6	8.7	8.8
95°	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0	31.9	26.9	21.8
97.5°	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6	81.8	85.0	88.2
100°	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4	113.1	115.8	118.5
102.5°	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9	147.9	149.9	151.9
105°	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6	203.5	204.4	205.3
107.5°	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3	255.7	256.1	256.7
110°	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8	291.3	291.7	292.1





TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3	326.1	326.9	327.7
115°	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3	378.8	379.3	379.7
117.5°	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1	426.7	427.3	427.9
120°	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5	459.1	459.7	460.3
122.5°	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6	489.0	489.3	489.7
125°	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8	532.4	533.0	533.6
127.5°	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7	572.9	573.1	573.3
130°	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2	599.3	599.4	599.6
132.5°	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4	623.6	624.0	624.2
135°	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8	659.6	659.4	659.3
137.5°	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9	692.0	692.1	692.1
140°	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9	713.3	713.5	713.9
142.5°	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8	732.3	732.9	733.4
145°	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7	761.2	761.6	762.1
147.5°	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8	784.6	785.4	786.3
150°	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5	801.1	801.7	802.3
152.5°	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4	814.9	815.4	815.9
155°	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1	834.2	834.4	834.6
157.5°	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7	850.6	850.5	850.4
160°	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4	859.9	859.5	859.0
162.5°	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0	868.4	867.8	867.3
165°	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9	879.2	878.4	877.6
167.5°	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5	887.7	886.9	886.1
170°	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4	892.4	891.6	890.6
172.5°	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6	895.7	894.8	893.9
175°	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1	899.1	898.3	897.4
177.5°	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7	900.9	900.0	899.1
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1409.2	1405.0	1398.8	1390.2	1383.0	1375.4	1373.6	1370.6	1376.4	1371.6	1370.2
5°	1363.0	1350.6	1334.5	1316.0	1305.3	1289.9	1286.9	1280.9	1275.0	1274.4	1268.4
7.5°	1314.1	1295.8	1274.7	1255.9	1238.5	1221.6	1210.6	1208.2	1199.4	1194.2	1188.3
10°	1282.7	1260.1	1235.7	1217.8	1197.6	1179.7	1167.3	1160.1	1154.1	1147.5	1141.6
12.5°	1245.5	1221.5	1201.4	1182.1	1158.0	1144.4	1123.9	1111.5	1110.3	1110.4	1094.9
15°	1202.3	1178.5	1147.5	1120.2	1107.1	1080.9	1069.6	1055.3	1046.4	1037.4	1030.4
17.5°	1153.0	1123.3	1099.2	1067.7	1042.7	1021.8	1007.0	998.4	985.0	972.3	963.2
20°	1122.0	1090.5	1064.8	1031.5	1004.1	978.5	966.0	954.2	944.0	933.3	923.2
22.5°	1090.5	1057.6	1026.2	993.9	968.5	941.4	929.4	913.2	903.5	897.6	887.4
25°	1041.0	1005.3	969.6	938.7	912.5	888.6	872.6	860.1	849.4	844.6	838.1
27.5°	987.2	951.7	917.2	882.1	852.4	835.1	822.3	812.8	806.7	800.3	797.4
30°	953.0	916.0	879.2	846.4	819.0	801.8	789.9	783.3	778.5	775.6	772.6
32.5°	918.2	881.8	842.9	813.0	788.5	773.2	764.1	757.6	755.2	754.1	753.0
35°	862.5	825.5	789.9	763.1	739.9	733.9	726.2	722.6	721.4	725.6	727.4
37.5°	808.6	774.3	741.4	715.4	700.3	691.6	688.9	689.1	693.3	697.0	701.3
40°	773.8	740.5	709.5	686.9	672.6	667.3	666.1	669.0	673.8	678.0	682.7
42.5°	739.9	707.1	679.0	657.8	647.8	642.9	643.7	646.6	653.3	658.4	665.6
45°	687.5	660.1	632.7	615.4	607.1	608.3	608.3	613.6	620.2	627.9	635.7
47.5°	638.1	610.4	588.0	573.4	569.1	568.1	571.4	578.4	587.8	597.4	608.2
50°	604.8	578.5	558.9	545.8	541.1	542.9	547.6	554.1	565.4	577.4	588.7
52.5°	570.9	547.1	528.9	516.8	513.4	516.7	521.4	531.8	541.7	554.5	568.2
55°	518.4	498.2	483.9	475.0	473.8	475.6	481.0	492.2	506.5	522.6	535.7
57.5°	466.1	449.3	436.2	430.0	430.6	432.2	441.1	454.5	469.8	486.9	503.8
60°	430.9	415.4	404.8	400.0	400.5	404.2	414.8	427.4	446.4	463.0	481.0
62.5°	397.6	384.0	373.8	369.5	368.7	376.5	386.8	399.8	418.8	437.4	456.7
65°	344.1	333.3	325.0	322.6	324.4	330.4	343.5	360.7	376.8	396.4	416.6
67.5°	291.6	282.8	277.2	278.2	280.3	289.1	300.1	315.0	333.2	353.5	373.6
70°	258.3	249.9	245.2	245.8	249.4	260.1	269.7	284.5	304.2	325.0	341.6
72.5°	224.0	218.5	214.3	216.8	220.3	227.7	239.6	254.5	271.8	291.2	308.8
75°	172.0	172.0	169.6	171.4	176.8	183.9	192.9	208.4	225.6	241.1	255.4
77.5°	127.6	126.3	127.9	130.0	133.1	141.5	151.8	162.8	175.8	191.3	203.1
80°	97.6	98.2	101.2	104.8	106.0	112.5	123.2	133.4	143.4	156.5	167.8
82.5°	73.4	74.0	75.5	80.0	81.2	88.3	95.1	105.2	114.4	123.2	132.6
85°	39.9	39.9	42.9	44.6	47.6	52.3	56.6	62.5	70.9	76.8	85.7
87.5°	17.0	17.2	19.4	20.6	22.2	24.9	26.0	31.4	33.5	36.1	40.5
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1	17.0	17.8	18.3
95°	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6	17.5	18.4	18.9
97.5°	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0	18.1	18.2	18.3
100°	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5	22.0	19.5	18.3
102.5°	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8	60.4	33.0	19.3
105°	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8	214.0	215.4	213.4
107.5°	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2	263.8	264.5	265.1
110°	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5	297.8	298.1	298.4



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7	330.6	330.5	330.8
115°	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3	380.6	380.9	381.1
117.5°	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2	430.2	430.1	430.0
120°	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1	461.4	461.7	461.7
122.5°	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5	491.7	491.9	491.8
125°	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1	534.5	534.9	535.3
127.5°	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4	576.3	576.2	576.1
130°	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2	602.3	602.4	602.5
132.5°	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5	627.6	627.8	627.8
135°	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4	662.6	663.0	663.2
137.5°	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8	696.1	696.5	696.5
140°	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5	717.0	717.4	717.7
142.5°	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6	736.0	736.3	736.5
145°	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0	763.2	763.4	763.5
147.5°	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1	787.2	787.3	787.5
150°	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5	802.5	802.5	802.5
152.5°	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9	816.1	816.3	816.4
155°	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0	834.6	835.2	835.3
157.5°	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5	850.3	851.1	851.1
160°	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5	860.4	861.3	861.3
162.5°	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5	868.4	869.4	869.3
165°	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9	880.1	881.3	881.2
167.5°	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3	888.6	889.8	889.8
170°	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3	893.5	894.8	894.6
172.5°	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6	896.8	898.0	897.8
175°	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4	900.8	902.1	901.9
177.5°	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0	901.9	902.8	902.6
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1369.2	1368.3	1364.9	1364.5	1364.9	1368.3	1369.2	1370.2	1371.6	1376.4	1370.6
5°	1264.8	1261.9	1260.1	1266.6	1260.1	1261.9	1264.8	1268.4	1274.4	1275.0	1280.9
7.5°	1186.1	1183.8	1178.5	1176.9	1178.5	1183.8	1186.1	1188.3	1194.2	1199.4	1208.2
10°	1135.7	1133.2	1128.5	1127.3	1128.5	1133.2	1135.7	1141.6	1147.5	1154.1	1160.1
12.5°	1087.1	1082.4	1081.4	1082.5	1081.4	1082.4	1087.1	1094.9	1110.4	1110.3	1111.5
15°	1022.6	1020.2	1013.7	1015.5	1013.7	1020.2	1022.6	1030.4	1037.4	1046.4	1055.3
17.5°	959.0	956.1	948.2	955.2	948.2	956.1	959.0	963.2	972.3	985.0	998.4
20°	919.0	914.2	910.1	909.5	910.1	914.2	919.0	923.2	933.3	944.0	954.2
22.5°	880.9	876.7	876.2	872.4	876.2	876.7	880.9	887.4	897.6	903.5	913.2
25°	833.3	829.1	827.9	825.0	827.9	829.1	833.3	838.1	844.6	849.4	860.1
27.5°	796.8	794.7	792.6	793.5	792.6	794.7	796.8	797.4	800.3	806.7	812.8
30°	774.4	773.8	772.6	772.6	772.6	773.8	774.4	772.6	775.6	778.5	783.3
32.5°	755.8	755.7	756.4	756.4	756.4	755.7	755.8	753.0	754.1	755.2	757.6
35°	729.7	731.5	732.7	730.9	732.7	731.5	729.7	727.4	725.6	721.4	722.6
37.5°	706.2	707.9	709.6	711.6	709.6	707.9	706.2	701.3	697.0	693.3	689.1
40°	688.0	692.2	693.4	696.4	693.4	692.2	688.0	682.7	678.0	673.8	669.0
42.5°	670.9	675.5	678.6	679.2	678.6	675.5	670.9	665.6	658.4	653.3	646.6
45°	644.6	649.4	653.6	653.6	653.6	649.4	644.6	635.7	627.9	620.2	613.6
47.5°	617.3	624.2	628.4	629.5	628.4	624.2	617.3	608.2	597.4	587.8	578.4
50°	598.8	607.1	611.3	614.2	611.3	607.1	598.8	588.7	577.4	565.4	554.1
52.5°	580.7	589.0	594.6	596.2	594.6	589.0	580.7	568.2	554.5	541.7	531.8
55°	549.4	561.3	567.8	570.2	567.8	561.3	549.4	535.7	522.6	506.5	492.2
57.5°	519.9	530.8	538.5	540.2	538.5	530.8	519.9	503.8	486.9	469.8	454.5
60°	497.0	508.9	518.4	520.2	518.4	508.9	497.0	481.0	463.0	446.4	427.4
62.5°	473.6	486.0	494.6	499.3	494.6	486.0	473.6	456.7	437.4	418.8	399.8
65°	433.3	445.8	454.2	455.9	454.2	445.8	433.3	416.6	396.4	376.8	360.7
67.5°	389.3	401.7	407.3	410.7	407.3	401.7	389.3	373.6	353.5	333.2	315.0
70°	358.3	368.4	374.4	377.4	374.4	368.4	358.3	341.6	325.0	304.2	284.5
72.5°	323.0	333.6	340.6	341.2	340.6	333.6	323.0	308.8	291.2	271.8	254.5
75°	269.1	278.5	282.1	282.1	282.1	278.5	269.1	255.4	241.1	225.6	208.4
77.5°	212.9	217.8	222.4	223.3	222.4	217.8	212.9	203.1	191.3	175.8	162.8
80°	176.8	179.8	183.3	183.3	183.3	179.8	176.8	167.8	156.5	143.4	133.4
82.5°	139.7	142.2	145.7	145.3	145.7	142.2	139.7	132.6	123.2	114.4	105.2
85°	84.6	89.9	89.3	88.1	89.3	89.9	84.6	85.7	76.8	70.9	62.5
87.5°	41.9	42.4	44.0	45.0	44.0	42.4	41.9	40.5	36.1	33.5	31.4
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	18.4	18.4	18.5	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1
95°	19.1	19.2	19.4	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6
97.5°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0
100°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5
102.5°	19.3	19.3	19.4	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8
105°	208.0	202.6	197.3	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8
107.5°	265.7	266.2	266.8	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2
110°	298.9	299.4	299.8	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.4	332.0	332.5	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7
115°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3
117.5°	430.0	429.9	429.8	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2
120°	461.4	461.1	460.8	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1
122.5°	491.5	491.2	490.9	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5
125°	535.5	535.5	535.7	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1
127.5°	575.9	575.8	575.8	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4
130°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2
132.5°	627.7	627.5	627.4	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5
135°	663.6	663.8	664.2	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4
137.5°	696.5	696.4	696.3	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8
140°	717.9	718.0	718.2	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5
142.5°	736.5	736.6	736.6	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6
145°	763.9	764.1	764.5	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0
147.5°	787.6	787.7	787.9	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1
150°	802.7	802.8	803.0	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5
152.5°	816.3	816.2	816.1	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9
155°	834.7	834.3	833.9	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0
157.5°	850.3	849.5	848.8	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5
160°	860.4	859.5	858.6	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5
162.5°	868.2	867.2	866.3	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5
165°	879.9	878.6	877.2	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9
167.5°	888.3	886.7	885.3	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3
170°	893.1	891.7	890.1	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3
172.5°	896.2	894.6	892.9	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6
175°	900.1	898.3	896.5	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4
177.5°	901.1	899.7	898.3	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1373.6	1375.4	1383.0	1390.2	1398.8	1405.0	1409.2	1414.0	1424.0	1432.1	1439.7
5°	1286.9	1289.9	1305.3	1316.0	1334.5	1350.6	1363.0	1376.7	1392.8	1414.8	1435.0
7.5°	1210.6	1221.6	1238.5	1255.9	1274.7	1295.8	1314.1	1334.7	1362.4	1392.7	1423.8
10°	1167.3	1179.7	1197.6	1217.8	1235.7	1260.1	1282.7	1307.1	1338.6	1375.5	1412.5
12.5°	1123.9	1144.4	1158.0	1182.1	1201.4	1221.5	1245.5	1277.6	1314.3	1353.1	1397.7
15°	1069.6	1080.9	1107.1	1120.2	1147.5	1178.5	1202.3	1234.5	1270.1	1321.4	1371.4
17.5°	1007.0	1021.8	1042.7	1067.7	1099.2	1123.3	1153.0	1186.0	1231.1	1281.9	1344.5
20°	966.0	978.5	1004.1	1031.5	1064.8	1090.5	1122.0	1154.1	1200.6	1254.7	1320.2
22.5°	929.4	941.4	968.5	993.9	1026.2	1057.6	1090.5	1127.9	1172.4	1229.5	1296.4
25°	872.6	888.6	912.5	938.7	969.6	1005.3	1041.0	1074.4	1122.0	1182.1	1253.5
27.5°	822.3	835.1	852.4	882.1	917.2	951.7	987.2	1029.2	1074.9	1138.4	1212.5
30°	789.9	801.8	819.0	846.4	879.2	916.0	953.0	993.4	1041.0	1104.1	1179.7
32.5°	764.1	773.2	788.5	813.0	842.9	881.8	918.2	960.1	1010.0	1072.2	1145.9
35°	726.2	733.9	739.9	763.1	789.9	825.5	862.5	907.1	955.3	1014.3	1088.0
37.5°	688.9	691.6	700.3	715.4	741.4	774.3	808.6	852.5	901.9	961.7	1028.3
40°	666.1	667.3	672.6	686.9	709.5	740.5	773.8	817.3	864.3	920.8	986.9
42.5°	643.7	642.9	647.8	657.8	679.0	707.1	739.9	779.6	826.6	878.9	941.2
45°	608.3	608.3	607.1	615.4	632.7	660.1	687.5	725.6	764.8	816.1	868.4
47.5°	571.4	568.1	569.1	573.4	588.0	610.4	638.1	669.3	703.9	747.3	793.2
50°	547.6	542.9	541.1	545.8	558.9	578.5	604.8	632.1	664.9	702.9	742.3
52.5°	521.4	516.7	513.4	516.8	528.9	547.1	570.9	595.0	624.4	655.3	689.4
55°	481.0	475.6	473.8	475.0	483.9	498.2	518.4	540.4	562.5	588.1	611.9
57.5°	441.1	432.2	430.6	430.0	436.2	449.3	466.1	485.3	501.3	516.8	542.1
60°	414.8	404.2	400.5	400.0	404.8	415.4	430.9	450.0	461.3	472.0	494.0
62.5°	386.8	376.5	368.7	369.5	373.8	384.0	397.6	411.4	418.9	430.6	445.5
65°	343.5	330.4	324.4	322.6	325.0	333.3	344.1	352.9	361.3	366.1	380.3
67.5°	300.1	289.1	280.3	278.2	277.2	282.8	291.6	297.0	303.0	307.1	315.6
70°	269.7	260.1	249.4	245.8	245.2	249.9	258.3	258.9	267.3	269.1	277.9
72.5°	239.6	227.7	220.3	216.8	214.3	218.5	224.0	225.6	230.1	233.3	238.0
75°	192.9	183.9	176.8	171.4	169.6	172.0	172.0	175.0	178.0	179.8	185.1
77.5°	151.8	141.5	133.1	130.0	127.9	126.3	127.6	129.4	127.9	131.0	132.2
80°	123.2	112.5	106.0	104.8	101.2	98.2	97.6	99.4	97.0	98.2	101.8
82.5°	95.1	88.3	81.2	80.0	75.5	74.0	73.4	72.2	72.2	72.0	72.8
85°	56.6	52.3	47.6	44.6	42.9	39.9	39.9	38.7	37.5	36.3	36.9
87.5°	26.0	24.9	22.2	20.6	19.4	17.2	17.0	15.2	14.4	13.6	12.7
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	15.2	14.3	13.1	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5
95°	15.7	14.8	14.6	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0
97.5°	17.8	17.7	34.4	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6
100°	27.0	29.6	50.3	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4
102.5°	115.3	142.8	145.4	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9
105°	211.4	210.0	209.3	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6
107.5°	262.5	261.9	260.9	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3
110°	297.2	296.9	296.0	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	330.8	330.8	330.4	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3
115°	380.0	379.7	379.9	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3
117.5°	430.2	430.3	430.0	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1
120°	460.8	460.5	460.6	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5
122.5°	491.4	491.2	490.9	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6
125°	533.6	533.2	533.5	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8
127.5°	576.4	576.5	575.8	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7
130°	602.0	601.8	601.4	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2
132.5°	627.3	627.2	626.5	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4
135°	662.0	661.8	661.2	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8
137.5°	695.5	695.2	694.5	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9
140°	716.1	715.6	715.3	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9
142.5°	735.4	735.0	734.9	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8
145°	762.9	762.8	762.8	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7
147.5°	787.0	786.9	787.0	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8
150°	802.5	802.5	802.6	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5
152.5°	815.6	815.4	815.6	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4
155°	833.4	832.8	833.2	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1
157.5°	848.8	848.0	848.5	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7
160°	858.6	857.6	857.8	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4
162.5°	866.7	865.7	865.9	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0
165°	877.7	876.5	876.5	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9
167.5°	885.9	884.6	884.7	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5
170°	891.1	890.0	889.8	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4
172.5°	894.4	893.2	893.0	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6
175°	898.0	896.7	896.6	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1
177.5°	899.9	899.0	898.8	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1446.4	1451.1	1457.3	1467.8	1471.6	1476.4	1483.1	1482.6	1484.5	1491.6	1506.8
5°	1451.7	1470.2	1488.1	1509.5	1532.1	1547.0	1567.2	1579.7	1592.2	1608.3	1635.6
7.5°	1453.9	1483.2	1515.9	1553.5	1587.0	1625.6	1655.6	1683.9	1709.6	1743.5	1776.2
10°	1450.5	1489.8	1532.1	1579.7	1630.3	1673.2	1711.8	1755.9	1793.4	1834.4	1871.4
12.5°	1444.3	1491.8	1548.3	1601.6	1660.8	1724.1	1772.3	1816.8	1866.7	1914.0	1970.9
15°	1430.3	1495.2	1561.3	1631.5	1710.6	1783.8	1853.5	1911.2	1964.8	2035.7	2110.1
17.5°	1412.5	1482.5	1565.7	1650.8	1733.5	1817.2	1903.4	1990.2	2057.8	2145.8	2204.0
20°	1395.8	1476.7	1562.5	1663.6	1746.4	1850.5	1936.2	2020.2	2113.0	2200.5	2270.1
22.5°	1372.4	1461.0	1552.0	1652.7	1761.6	1865.8	1964.8	2055.9	2148.7	2243.9	2328.2
25°	1342.8	1423.1	1530.9	1645.2	1753.5	1866.6	1980.3	2094.6	2194.5	2295.2	2373.7
27.5°	1292.4	1393.8	1494.1	1612.1	1732.4	1860.4	1981.9	2101.6	2206.3	2289.1	2337.8
30°	1266.6	1354.7	1463.6	1582.1	1712.4	1849.9	1976.7	2094.0	2191.6	2257.6	2277.3
32.5°	1228.6	1319.5	1426.0	1548.8	1686.7	1828.0	1960.1	2070.6	2152.1	2186.7	2163.0
35°	1172.0	1254.1	1361.8	1487.5	1630.9	1781.5	1911.9	2005.3	2046.9	2014.2	1932.7
37.5°	1104.1	1185.5	1293.7	1417.1	1565.6	1718.6	1836.5	1903.8	1889.9	1808.5	1687.0
40°	1056.5	1132.7	1235.7	1369.0	1513.6	1667.2	1770.7	1807.1	1769.0	1652.3	1523.2
42.5°	1003.7	1078.0	1181.4	1309.9	1463.2	1604.8	1695.1	1698.1	1634.2	1494.7	1365.0
45°	923.2	994.0	1091.7	1225.5	1367.2	1500.6	1560.0	1530.9	1413.1	1278.5	1148.1
47.5°	843.8	905.2	1001.4	1128.5	1263.1	1375.3	1404.8	1352.3	1226.8	1096.1	975.3
50°	785.7	847.6	938.1	1059.5	1189.2	1286.2	1300.5	1230.9	1107.7	976.1	881.5
52.5°	730.0	791.4	878.6	990.9	1109.7	1197.2	1197.7	1117.1	994.4	877.1	789.1
55°	648.2	703.5	782.1	882.7	988.7	1057.1	1040.4	957.1	850.6	748.8	672.0
57.5°	569.4	617.6	690.0	773.9	867.2	923.7	896.0	815.8	720.7	634.4	576.2
60°	518.4	564.3	626.2	705.3	783.9	827.9	801.8	729.1	641.6	572.0	521.4
62.5°	468.9	507.6	567.1	635.8	708.7	741.3	718.0	646.3	570.7	507.7	466.7
65°	398.8	430.3	477.9	536.9	589.9	617.9	598.2	531.5	473.8	428.5	395.8
67.5°	333.3	358.0	394.0	441.3	486.3	501.4	483.5	437.1	388.2	352.0	328.9
70°	288.1	311.3	341.6	378.0	417.2	433.3	415.4	378.6	338.7	305.3	282.8
72.5°	248.6	266.6	292.1	323.2	354.0	370.0	357.8	322.4	288.7	263.9	244.6
75°	189.2	204.7	222.6	244.6	268.5	279.1	268.5	244.0	220.8	202.3	188.6
77.5°	137.6	145.9	159.7	176.2	191.1	199.2	190.0	173.4	159.3	146.6	139.9
80°	104.8	110.7	120.2	133.4	143.4	151.2	145.3	131.6	120.2	111.9	108.9
82.5°	76.2	80.2	86.4	96.2	103.0	106.9	104.3	94.4	89.7	82.4	79.4
85°	37.5	39.9	44.1	47.0	53.0	53.6	54.2	50.0	45.8	44.1	41.7
87.5°	13.6	14.4	16.2	17.9	20.1	20.8	20.6	20.8	19.1	18.9	17.1
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	8.6	8.7	8.8	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1
95°	31.9	26.9	21.8	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6
97.5°	81.8	85.0	88.2	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0
100°	113.1	115.8	118.5	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5
102.5°	147.9	149.9	151.9	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8
105°	203.5	204.4	205.3	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8
107.5°	255.7	256.1	256.7	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2
110°	291.3	291.7	292.1	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5





TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.1	326.9	327.7	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7
115°	378.8	379.3	379.7	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3
117.5°	426.7	427.3	427.9	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2
120°	459.1	459.7	460.3	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1
122.5°	489.0	489.3	489.7	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5
125°	532.4	533.0	533.6	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1
127.5°	572.9	573.1	573.3	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4
130°	599.3	599.4	599.6	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2
132.5°	623.6	624.0	624.2	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5
135°	659.6	659.4	659.3	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4
137.5°	692.0	692.1	692.1	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8
140°	713.3	713.5	713.9	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5
142.5°	732.3	732.9	733.4	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6
145°	761.2	761.6	762.1	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0
147.5°	784.6	785.4	786.3	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1
150°	801.1	801.7	802.3	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5
152.5°	814.9	815.4	815.9	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9
155°	834.2	834.4	834.6	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0
157.5°	850.6	850.5	850.4	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5
160°	859.9	859.5	859.0	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5
162.5°	868.4	867.8	867.3	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5
165°	879.2	878.4	877.6	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9
167.5°	887.7	886.9	886.1	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3
170°	892.4	891.6	890.6	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3
172.5°	895.7	894.8	893.9	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6
175°	899.1	898.3	897.4	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4
177.5°	900.9	900.0	899.1	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1514.5	1515.4	1519.7	1523.0	1524.0	1528.8	1529.2
5°	1647.5	1657.7	1677.3	1679.1	1682.0	1697.5	1685.7
7.5°	1803.5	1829.2	1846.3	1861.5	1867.0	1873.7	1872.3
10°	1903.5	1941.6	1960.7	1991.0	1992.2	1999.9	1995.2
12.5°	2004.0	2048.2	2083.0	2088.6	2114.1	2118.0	2124.7
15°	2146.3	2193.4	2241.6	2258.8	2294.0	2302.3	2315.4
17.5°	2280.2	2328.2	2362.1	2406.7	2421.1	2440.4	2427.2
20°	2353.5	2405.9	2448.7	2483.8	2498.7	2509.4	2508.3
22.5°	2397.8	2450.6	2485.4	2511.9	2525.8	2530.4	2530.1
25°	2425.5	2455.8	2466.6	2476.7	2461.3	2455.8	2458.2
27.5°	2348.4	2340.5	2312.6	2275.9	2237.7	2207.5	2191.1
30°	2242.2	2195.7	2153.4	2079.7	2041.6	2019.0	1998.7
32.5°	2091.7	2018.1	1936.8	1869.2	1825.9	1792.3	1787.3
35°	1833.8	1723.1	1623.8	1541.0	1498.1	1461.8	1453.5
37.5°	1559.1	1444.1	1354.6	1281.8	1235.7	1210.0	1186.1
40°	1376.7	1277.9	1189.8	1127.9	1092.8	1074.4	1059.5
42.5°	1236.2	1146.0	1058.4	1011.2	979.5	968.2	959.5
45°	1042.2	958.3	897.6	861.9	843.4	824.4	815.5
47.5°	886.8	818.6	778.5	748.2	728.4	717.1	711.4
50°	798.7	742.8	707.1	683.9	666.1	657.1	652.4
52.5°	720.7	674.8	644.7	626.3	614.2	607.6	605.7
55°	620.8	585.7	566.6	550.6	541.7	535.7	533.3
57.5°	539.6	512.6	497.1	483.9	480.4	475.4	473.8
60°	486.3	465.5	452.4	443.4	440.5	434.5	435.7
62.5°	439.1	422.1	411.0	405.8	401.9	396.9	398.6
65°	371.4	359.0	352.9	348.2	343.5	340.4	342.9
67.5°	311.7	303.1	295.0	292.2	289.9	289.4	286.9
70°	272.6	265.4	258.3	256.6	256.6	254.2	253.6
72.5°	235.0	229.7	225.0	223.7	221.8	222.7	220.2
75°	181.5	177.4	175.6	173.8	173.2	173.2	171.4
77.5°	134.1	131.0	128.2	128.2	126.1	125.3	125.0
80°	101.8	100.6	98.2	98.2	97.0	97.6	96.4
82.5°	76.5	74.9	74.4	73.4	71.8	71.9	70.7
85°	41.1	39.3	38.7	36.9	35.7	36.9	35.7
87.5°	17.8	17.5	17.1	16.3	15.8	15.8	14.6
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	17.0	17.8	18.3	18.4	18.4	18.5	18.6
95°	17.5	18.4	18.9	19.1	19.2	19.4	19.5
97.5°	18.1	18.2	18.3	18.4	18.5	18.7	18.9
100°	22.0	19.5	18.3	18.4	18.5	18.7	18.9
102.5°	60.4	33.0	19.3	19.3	19.3	19.4	19.4
105°	214.0	215.4	213.4	208.0	202.6	197.3	191.8
107.5°	263.8	264.5	265.1	265.7	266.2	266.8	267.4
110°	297.8	298.1	298.4	298.9	299.4	299.8	300.2



TEST NUMBER: P332643-935

CATALOG NUMBER: S124DIP-S1020D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	330.6	330.5	330.8	331.4	332.0	332.5	333.1
115°	380.6	380.9	381.1	381.1	381.1	381.1	381.1
117.5°	430.2	430.1	430.0	430.0	429.9	429.8	429.8
120°	461.4	461.7	461.7	461.4	461.1	460.8	460.5
122.5°	491.7	491.9	491.8	491.5	491.2	490.9	490.6
125°	534.5	534.9	535.3	535.5	535.5	535.7	535.9
127.5°	576.3	576.2	576.1	575.9	575.8	575.8	575.6
130°	602.3	602.4	602.5	602.5	602.5	602.5	602.5
132.5°	627.6	627.8	627.8	627.7	627.5	627.4	627.3
135°	662.6	663.0	663.2	663.6	663.8	664.2	664.4
137.5°	696.1	696.5	696.5	696.5	696.4	696.3	696.2
140°	717.0	717.4	717.7	717.9	718.0	718.2	718.3
142.5°	736.0	736.3	736.5	736.5	736.6	736.6	736.6
145°	763.2	763.4	763.5	763.9	764.1	764.5	764.7
147.5°	787.2	787.3	787.5	787.6	787.7	787.9	788.1
150°	802.5	802.5	802.5	802.7	802.8	803.0	803.1
152.5°	816.1	816.3	816.4	816.3	816.2	816.1	816.1
155°	834.6	835.2	835.3	834.7	834.3	833.9	833.4
157.5°	850.3	851.1	851.1	850.3	849.5	848.8	848.0
160°	860.4	861.3	861.3	860.4	859.5	858.6	857.6
162.5°	868.4	869.4	869.3	868.2	867.2	866.3	865.2
165°	880.1	881.3	881.2	879.9	878.6	877.2	875.8
167.5°	888.6	889.8	889.8	888.3	886.7	885.3	883.8
170°	893.5	894.8	894.6	893.1	891.7	890.1	888.6
172.5°	896.8	898.0	897.8	896.2	894.6	892.9	891.3
175°	900.8	902.1	901.9	900.1	898.3	896.5	894.7
177.5°	901.9	902.8	902.6	901.1	899.7	898.3	896.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1

(END OF REPORT)