

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: P332812-830

Luminaire Tested: **S124DIW-S1020D770U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332812-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1020D770U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6852.0 lumens
Efficiency: N/A
Efficacy: 127.8 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: Semi-Direct

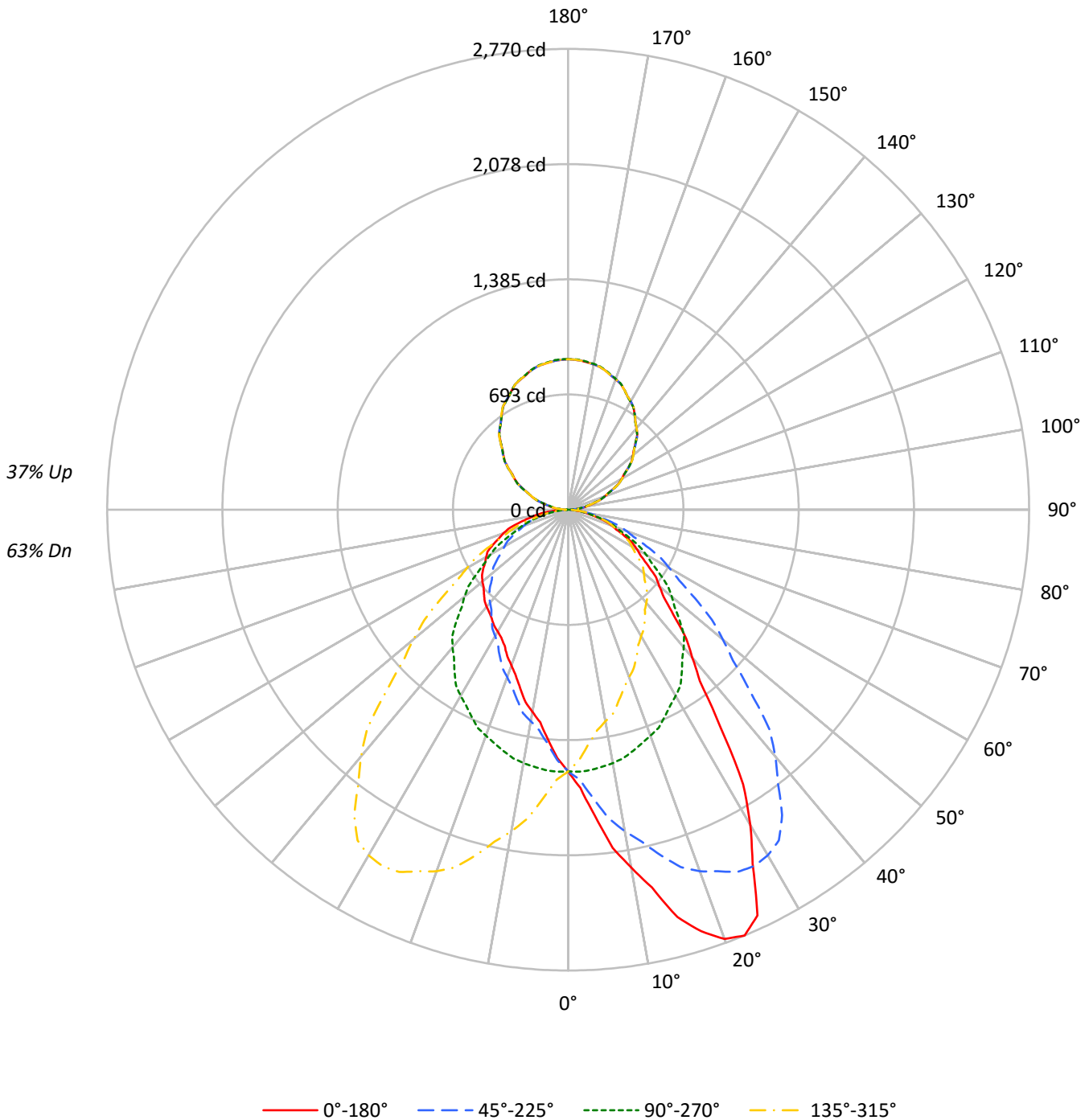
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	84	80	78	75	70	68	67	61	60	58	54
2	92	85	79	74	86	80	74	70	71	66	63	62	59	56	54	52	50	46
3	84	75	67	62	79	71	64	59	62	57	53	55	51	48	48	45	43	39
4	77	66	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	34
5	71	59	51	45	67	56	49	43	50	44	40	44	40	36	39	35	32	29
6	66	54	45	39	62	51	43	38	45	39	35	40	35	32	35	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	32	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12698	12698	12698	12698
5°	14954	12730	11237	12730
10°	17905	12675	10117	12675
15°	21184	12547	9290	12547
20°	23589	12416	8553	12416
25°	23971	12223	8044	12223
30°	20396	12039	7883	12039
35°	15682	11739	7885	11739
40°	12223	11385	8033	11385
45°	10192	10853	8169	10853
50°	8970	10206	8445	10206
55°	8217	9429	8785	9429
60°	7700	8732	9195	8732
65°	7169	7952	9534	7952
70°	6552	7183	9751	7183
75°	5855	6319	9635	6319
80°	4909	5179	9331	5179
85°	3622	3742	8929	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	2.2
10°-20°	472.3	6.9
20°-30°	749.0	10.9
30°-40°	833.5	12.2
40°-50°	758.7	11.1
50°-60°	620.0	9.0
60°-70°	442.6	6.5
70°-80°	243.7	3.6
80°-90°	69.3	1.0
90°-100°	59.7	0.9
100°-110°	176.7	2.6
110°-120°	300.0	4.4
120°-130°	395.5	5.8
130°-140°	444.2	6.5
140°-150°	436.5	6.4
150°-160°	367.1	5.4
160°-170°	244.3	3.6
170°-180°	85.5	1.2
0°-30°	1374.6	20.1
0°-40°	2208.1	32.2
0°-60°	3586.8	52.3
0°-90°	4342.5	63.4
90°-120°	536.4	7.8
90°-150°	1812.6	26.5
90°-180°	2510.0	36.6
0°-180°	6852.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1573	1573	1573	1573	1573	
5°	1845	1571	1387	1571	1845	188
15°	2535	1501	1112	1501	2535	716
25°	2691	1372	903	1372	2691	1186
35°	1591	1191	800	1191	1591	1010
45°	893	951	716	951	893	703
55°	584	670	624	670	584	527
65°	375	416	499	416	375	372
75°	188	203	309	203	188	200
85°	39	40	96	40	39	48
90°	21	2	21	2	21	12
95°	55	42	55	42	55	58
105°	171	163	171	163	171	180
115°	302	305	302	305	302	299
125°	441	444	441	444	441	393
135°	574	573	574	573	574	443
145°	697	696	697	696	697	436
155°	797	798	797	798	797	367
165°	866	868	866	868	866	244
175°	899	903	899	903	899	85
180°	904	904	904	904	904	



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1674.0	1673.6	1668.3	1667.3	1663.6	1659.0	1657.9	1649.5	1632.9	1625.0	1623.0
5°	1845.3	1858.3	1841.4	1838.1	1836.2	1814.7	1803.6	1790.5	1760.6	1742.9	1729.3
7.5°	2049.7	2051.2	2043.8	2037.8	2021.2	2002.4	1974.3	1944.4	1908.6	1871.5	1843.4
10°	2184.2	2189.3	2180.9	2179.5	2146.4	2125.4	2083.8	2048.6	2008.2	1963.2	1922.2
12.5°	2325.9	2318.6	2314.3	2286.4	2280.3	2242.2	2193.8	2157.6	2095.3	2043.5	1988.9
15°	2534.7	2520.4	2511.2	2472.8	2453.9	2401.1	2349.6	2309.9	2228.5	2150.9	2092.3
17.5°	2657.1	2671.5	2650.4	2634.6	2585.8	2548.7	2496.1	2412.7	2349.0	2252.7	2178.7
20°	2745.8	2747.0	2735.4	2719.0	2680.6	2633.7	2576.3	2485.1	2409.0	2313.1	2211.5
22.5°	2769.8	2770.0	2765.0	2749.8	2720.7	2682.7	2624.9	2548.7	2456.4	2352.2	2250.6
25°	2691.1	2688.4	2694.4	2711.2	2700.2	2688.4	2655.2	2598.5	2512.5	2402.4	2292.9
27.5°	2398.6	2416.6	2449.7	2491.4	2531.6	2562.2	2570.8	2559.2	2505.8	2415.3	2300.7
30°	2188.0	2210.2	2235.0	2276.6	2357.4	2403.7	2454.6	2492.9	2471.4	2399.1	2292.3
32.5°	1956.6	1962.1	1998.8	2046.3	2120.2	2209.2	2289.8	2367.9	2393.8	2355.9	2266.7
35°	1591.2	1600.2	1640.0	1687.0	1777.5	1886.3	2007.5	2115.7	2205.0	2240.8	2195.2
37.5°	1298.4	1324.6	1352.7	1403.2	1482.9	1580.8	1706.8	1846.7	1979.8	2068.9	2084.1
40°	1159.8	1176.1	1196.3	1234.7	1302.5	1398.9	1507.1	1667.5	1808.8	1936.5	1978.2
42.5°	1050.4	1059.9	1072.2	1107.0	1158.7	1254.5	1353.3	1494.3	1636.3	1788.9	1858.9
45°	892.7	902.5	923.3	943.5	982.6	1049.0	1140.9	1256.9	1399.6	1546.9	1675.8
47.5°	778.7	785.0	797.4	819.1	852.2	896.1	970.8	1067.7	1200.0	1342.9	1480.4
50°	714.2	719.3	729.2	748.7	774.1	813.1	874.4	965.0	1068.6	1212.6	1347.5
52.5°	663.1	665.2	672.3	685.6	705.8	738.7	788.9	863.8	960.2	1088.5	1222.9
55°	583.8	586.4	593.0	602.8	620.3	641.1	679.6	735.7	819.7	931.1	1047.7
57.5°	518.7	520.5	525.9	529.7	544.2	561.2	590.7	630.7	694.5	788.9	893.1
60°	476.9	475.7	482.2	485.4	495.2	509.5	532.3	570.8	626.1	702.4	798.1
62.5°	436.3	434.5	440.0	444.2	449.9	462.1	480.7	510.9	555.8	624.7	707.5
65°	375.3	372.7	376.0	381.2	386.3	392.9	406.6	433.3	469.1	518.7	581.8
67.5°	314.1	316.8	317.4	319.9	322.9	331.8	341.2	360.1	385.3	425.0	478.5
70°	277.6	278.2	280.9	280.9	282.8	290.6	298.4	309.5	334.2	370.8	414.4
72.5°	241.1	243.8	242.8	244.9	246.3	251.5	257.2	267.8	288.9	316.0	352.9
75°	187.7	189.6	189.6	190.3	192.2	194.2	198.7	206.5	221.5	241.8	267.1
77.5°	136.9	137.1	138.0	140.3	140.3	143.5	146.8	153.2	160.5	174.4	189.8
80°	105.6	106.9	106.2	107.5	107.5	110.1	111.4	119.2	122.5	131.6	144.0
82.5°	77.4	78.7	78.6	80.4	81.4	82.0	83.8	86.9	90.2	98.2	103.3
85°	39.1	40.4	39.1	40.4	42.3	43.0	45.0	45.6	48.3	50.1	54.8
87.5°	15.6	17.2	17.1	17.5	18.6	18.9	19.3	18.6	20.5	20.8	22.6
90°	21.0	20.6	20.4	20.1	19.7	19.1	18.2	17.2	16.3	15.4	14.1
92.5°	31.1	30.9	30.7	30.5	30.3	30.0	29.4	28.8	28.3	27.7	26.9
95°	55.2	55.2	55.2	55.2	55.2	55.0	54.6	54.1	53.6	53.2	52.1
97.5°	86.6	86.6	86.6	86.6	86.6	86.3	85.8	85.2	84.6	84.1	82.8
100°	108.4	108.4	108.4	108.4	108.4	108.3	107.9	107.6	107.4	107.1	105.7
102.5°	133.1	132.9	132.8	132.7	132.5	132.2	131.9	131.4	131.0	130.5	129.2
105°	170.7	170.2	169.8	169.3	168.8	168.3	167.9	167.4	166.9	166.5	165.9
107.5°	207.4	207.4	207.5	207.5	207.5	207.3	206.8	206.4	205.9	205.6	205.5
110°	233.7	233.2	232.7	232.2	231.8	231.7	232.1	232.3	232.6	232.9	233.1



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	260.5	260.4	260.3	260.2	260.1	260.1	260.1	260.2	260.3	260.3	260.6
115°	302.2	302.4	302.6	302.7	302.8	302.9	303.1	303.3	303.4	303.6	303.9
117.5°	342.0	342.2	342.5	342.9	343.2	343.6	344.1	344.7	345.2	345.7	345.9
120°	372.1	371.8	371.6	371.3	370.9	371.2	371.9	372.7	373.4	374.3	374.8
122.5°	397.4	397.9	398.4	399.0	399.5	400.1	400.7	401.1	401.7	402.3	402.5
125°	440.7	441.0	441.3	441.7	442.0	442.2	442.6	442.9	443.2	443.5	443.7
127.5°	480.9	481.1	481.4	481.6	481.8	482.1	482.5	482.8	483.1	483.4	483.6
130°	507.2	507.7	508.4	509.1	509.6	510.1	510.4	510.8	511.0	511.3	511.3
132.5°	535.2	535.4	535.6	535.9	536.1	536.4	536.8	537.1	537.3	537.6	537.8
135°	573.6	574.1	574.6	575.0	575.5	575.9	576.2	576.5	576.8	577.1	577.1
137.5°	614.1	614.0	613.9	613.8	613.7	613.9	614.3	614.6	615.0	615.5	615.2
140°	638.7	638.9	638.9	639.1	639.3	639.4	639.6	639.8	639.9	640.1	640.1
142.5°	663.3	663.4	663.4	663.4	663.5	663.5	663.5	663.5	663.5	663.5	663.7
145°	696.7	697.2	697.7	698.1	698.6	698.9	699.1	699.3	699.4	699.6	699.4
147.5°	730.6	730.8	730.9	731.0	731.2	731.3	731.5	731.6	731.7	731.9	732.0
150°	751.3	751.5	751.6	751.8	752.0	752.1	752.1	752.1	752.1	752.1	752.1
152.5°	770.3	770.7	771.2	771.6	771.9	771.9	771.6	771.2	770.8	770.4	770.3
155°	796.8	797.4	798.1	798.6	799.3	799.3	798.6	798.1	797.4	796.8	796.9
157.5°	820.4	821.0	821.5	822.0	822.6	822.6	822.1	821.6	821.1	820.7	820.8
160°	833.9	834.6	835.4	836.2	837.0	837.2	836.7	836.2	835.8	835.3	835.4
162.5°	847.8	848.7	849.4	850.2	850.9	850.9	850.1	849.2	848.4	847.5	847.7
165°	866.0	866.7	867.2	867.9	868.6	868.4	867.4	866.5	865.5	864.6	865.0
167.5°	879.0	880.1	881.0	881.9	882.9	882.9	881.9	881.1	880.1	879.2	879.1
170°	886.4	887.4	888.5	889.6	890.7	890.8	889.9	888.9	888.0	887.0	886.8
172.5°	892.5	893.5	894.7	895.7	896.8	896.8	895.8	894.8	893.7	892.6	892.6
175°	898.9	900.0	901.1	902.2	903.2	903.2	902.2	901.1	900.0	898.9	899.1
177.5°	902.3	903.2	904.3	905.2	906.3	906.3	905.4	904.6	903.7	902.9	902.9
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1623.5	1616.2	1611.0	1606.8	1595.3	1588.6	1583.4	1576.0	1567.7	1558.9	1547.9
5°	1715.6	1693.5	1677.2	1652.5	1629.0	1609.4	1589.2	1570.9	1548.8	1524.8	1507.1
7.5°	1812.4	1779.5	1737.3	1700.6	1659.4	1623.6	1591.6	1558.7	1524.6	1491.5	1461.1
10°	1874.0	1831.6	1784.7	1729.3	1677.2	1630.9	1587.9	1546.2	1505.8	1465.4	1430.9
12.5°	1940.1	1887.3	1818.1	1753.3	1694.9	1633.0	1581.1	1530.0	1481.3	1438.8	1398.5
15°	2029.0	1952.8	1872.6	1786.0	1709.1	1636.8	1565.8	1501.3	1446.5	1390.4	1351.4
17.5°	2083.7	1989.3	1897.7	1807.1	1714.0	1622.9	1546.2	1471.8	1403.3	1347.6	1298.4
20°	2119.6	2025.8	1911.8	1821.2	1710.4	1616.6	1528.0	1445.2	1373.6	1314.3	1263.4
22.5°	2150.9	2042.5	1928.4	1809.2	1698.9	1599.4	1502.4	1419.2	1346.0	1283.5	1234.7
25°	2167.8	2043.3	1919.6	1801.0	1675.8	1557.9	1470.0	1372.2	1294.0	1228.2	1176.1
27.5°	2169.6	2036.6	1896.5	1764.7	1635.6	1525.8	1414.8	1327.4	1246.2	1176.7	1126.6
30°	2163.9	2025.1	1874.6	1731.9	1602.2	1483.0	1386.6	1291.5	1208.7	1139.6	1087.5
32.5°	2145.7	2001.1	1846.4	1695.4	1561.0	1444.4	1344.9	1254.4	1173.7	1105.7	1051.0
35°	2092.9	1950.2	1785.4	1628.3	1490.8	1372.9	1283.0	1191.1	1110.3	1045.8	993.1
37.5°	2010.4	1881.4	1713.8	1551.3	1416.3	1297.8	1208.7	1125.7	1052.8	987.3	933.2
40°	1938.4	1825.0	1657.0	1498.6	1352.7	1240.0	1156.6	1080.3	1008.0	946.1	894.7
42.5°	1855.6	1756.8	1601.8	1434.0	1293.3	1180.1	1098.7	1030.3	962.1	904.9	853.5
45°	1707.8	1642.7	1496.7	1341.6	1195.0	1088.2	1010.6	950.6	893.3	837.3	794.3
47.5°	1537.9	1505.5	1382.7	1235.4	1096.3	990.9	923.7	868.3	818.0	770.5	732.6
50°	1423.7	1408.1	1301.8	1159.8	1026.9	927.8	860.1	812.6	769.5	727.8	692.0
52.5°	1311.1	1310.6	1214.8	1084.8	961.8	866.4	799.1	754.7	717.4	683.5	651.3
55°	1139.0	1157.3	1082.3	966.3	856.2	770.2	709.5	669.9	643.8	615.8	591.6
57.5°	980.9	1011.2	949.3	847.2	755.4	676.1	623.3	593.4	565.7	548.7	531.2
60°	877.7	906.3	858.2	772.1	685.5	617.7	567.5	540.8	516.7	505.0	492.6
62.5°	786.0	811.5	775.8	696.1	620.9	555.6	513.3	487.7	471.4	458.5	450.3
65°	654.9	676.4	645.7	587.8	523.2	471.1	436.6	416.3	400.8	395.5	386.3
67.5°	529.3	548.9	532.3	483.1	431.3	391.9	364.9	345.4	336.2	331.7	325.2
70°	454.8	474.4	456.8	413.8	374.0	340.8	315.4	304.3	294.5	292.6	283.4
72.5°	391.7	405.0	387.5	353.8	319.8	291.8	272.1	260.5	255.4	251.9	246.9
75°	293.9	305.6	293.9	267.8	243.6	224.1	207.2	202.6	196.8	194.8	191.5
77.5°	208.0	218.1	209.2	192.8	174.8	159.8	150.6	144.8	143.5	140.1	141.7
80°	159.0	165.5	157.0	146.0	131.6	121.2	114.7	111.4	107.5	106.2	108.8
82.5°	114.1	117.1	112.7	105.3	94.6	87.8	83.4	79.6	78.8	79.1	79.1
85°	59.3	58.6	58.0	51.5	48.3	43.6	41.1	40.4	39.8	41.1	42.3
87.5°	22.4	22.6	21.9	19.5	17.6	15.7	14.8	13.9	14.8	15.7	16.6
90°	12.9	11.7	10.5	9.0	7.3	5.6	3.8	2.1	3.8	5.6	7.3
92.5°	25.9	25.1	24.2	22.8	20.8	18.9	17.0	15.0	17.0	18.9	20.8
95°	51.0	49.9	48.8	47.6	46.2	44.8	43.4	41.9	43.4	44.8	46.2
97.5°	81.5	80.3	79.0	77.8	76.6	75.6	74.5	73.3	74.5	75.6	76.6
100°	104.2	102.8	101.4	100.4	99.8	99.2	98.6	97.9	98.6	99.2	99.8
102.5°	128.0	126.7	125.5	124.7	124.4	124.1	123.9	123.7	123.9	124.1	124.4
105°	165.2	164.7	164.0	163.6	163.4	163.3	163.2	163.0	163.2	163.3	163.4
107.5°	205.4	205.3	205.2	205.0	204.8	204.6	204.4	204.2	204.4	204.6	204.8
110°	233.3	233.4	233.6	233.5	233.2	232.9	232.5	232.2	232.5	232.9	233.2



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.9	261.2	261.5	261.6	261.6	261.5	261.4	261.4	261.4	261.5	261.6
115°	304.3	304.5	304.8	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0
117.5°	346.2	346.4	346.6	346.7	346.5	346.4	346.3	346.1	346.3	346.4	346.5
120°	375.2	375.7	376.1	376.1	375.4	374.8	374.2	373.5	374.2	374.8	375.4
122.5°	402.7	402.9	403.1	403.1	402.8	402.6	402.4	402.1	402.4	402.6	402.8
125°	443.8	443.9	444.1	444.2	444.2	444.2	444.2	444.2	444.2	444.2	444.2
127.5°	483.9	484.1	484.4	484.3	483.8	483.3	482.9	482.4	482.9	483.3	483.8
130°	511.3	511.3	511.3	511.1	510.7	510.2	509.7	509.3	509.7	510.2	510.7
132.5°	537.9	538.0	538.2	538.1	537.7	537.3	537.1	536.7	537.1	537.3	537.7
135°	577.1	577.1	577.1	576.6	575.7	574.8	573.8	573.0	573.8	574.8	575.7
137.5°	614.9	614.7	614.4	614.2	613.7	613.2	612.8	612.4	612.8	613.2	613.7
140°	640.1	640.1	640.1	639.9	639.6	639.3	638.9	638.7	638.9	639.3	639.6
142.5°	663.8	663.9	664.1	664.0	663.6	663.4	663.1	662.7	663.1	663.4	663.6
145°	699.3	699.1	698.9	698.5	698.0	697.3	696.6	696.1	696.6	697.3	698.0
147.5°	732.1	732.3	732.4	732.1	731.3	730.6	729.8	729.1	729.8	730.6	731.3
150°	752.1	752.1	752.1	751.7	751.1	750.5	749.8	749.2	749.8	750.5	751.1
152.5°	770.2	770.1	770.0	769.8	769.4	769.0	768.6	768.3	768.6	769.0	769.4
155°	797.1	797.2	797.4	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5
157.5°	820.8	820.8	820.9	821.0	821.2	821.5	821.8	822.1	821.8	821.5	821.2
160°	835.6	835.8	835.8	836.0	836.2	836.3	836.5	836.7	836.5	836.3	836.2
162.5°	847.9	848.0	848.2	848.5	848.9	849.2	849.7	850.1	849.7	849.2	848.9
165°	865.3	865.5	865.9	866.3	866.8	867.2	867.7	868.2	867.7	867.2	866.8
167.5°	879.1	879.1	879.0	879.4	880.1	880.7	881.4	881.9	881.4	880.7	880.1
170°	886.7	886.6	886.4	886.7	887.5	888.3	889.0	889.9	889.0	888.3	887.5
172.5°	892.6	892.5	892.5	892.8	893.4	894.1	894.8	895.4	894.8	894.1	893.4
175°	899.2	899.4	899.6	900.0	900.8	901.5	902.3	903.1	902.3	901.5	900.8
177.5°	902.9	902.9	902.9	903.1	903.8	904.4	905.0	905.6	905.0	904.4	903.8
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1542.7	1538.0	1531.3	1521.8	1514.0	1505.7	1503.6	1500.4	1506.7	1501.5	1500.0
5°	1492.1	1478.5	1460.8	1440.7	1428.9	1412.0	1408.7	1402.2	1395.7	1395.1	1388.6
7.5°	1438.6	1418.5	1395.4	1374.9	1355.8	1337.3	1325.2	1322.6	1313.0	1307.3	1300.8
10°	1404.2	1379.4	1352.7	1333.1	1311.0	1291.5	1277.8	1270.0	1263.4	1256.2	1249.7
12.5°	1363.5	1337.2	1315.1	1294.0	1267.7	1252.8	1230.3	1216.7	1215.5	1215.6	1198.6
15°	1316.2	1290.2	1256.2	1226.2	1211.9	1183.3	1170.9	1155.3	1145.5	1135.7	1127.9
17.5°	1262.2	1229.6	1203.2	1168.8	1141.4	1118.6	1102.4	1093.0	1078.3	1064.4	1054.4
20°	1228.2	1193.7	1165.6	1129.2	1099.2	1071.2	1057.5	1044.5	1033.4	1021.7	1010.6
22.5°	1193.8	1157.7	1123.4	1088.0	1060.2	1030.6	1017.4	999.7	989.1	982.6	971.5
25°	1139.6	1100.5	1061.4	1027.6	998.9	972.8	955.3	941.5	929.8	924.6	917.5
27.5°	1080.7	1041.9	1004.1	965.6	933.1	914.2	900.1	889.8	883.1	876.1	872.9
30°	1043.2	1002.8	962.4	926.5	896.5	877.7	864.7	857.5	852.2	849.0	845.7
32.5°	1005.1	965.3	922.7	890.0	863.2	846.4	836.5	829.3	826.7	825.6	824.3
35°	944.1	903.7	864.7	835.4	809.9	803.4	794.9	791.0	789.8	794.3	796.3
37.5°	885.1	847.6	811.6	783.2	766.6	757.1	754.1	754.3	758.9	763.0	767.7
40°	847.1	810.6	776.7	752.0	736.3	730.5	729.2	732.4	737.6	742.2	747.3
42.5°	810.0	774.1	743.3	720.1	709.2	703.8	704.6	707.8	715.2	720.8	728.6
45°	752.6	722.6	692.7	673.7	664.6	665.9	665.9	671.8	678.9	687.4	695.9
47.5°	698.5	668.3	643.7	627.7	623.0	621.9	625.6	633.2	643.5	653.9	665.8
50°	662.0	633.3	611.8	597.5	592.3	594.3	599.5	606.6	619.0	632.1	644.4
52.5°	625.0	598.9	579.0	565.7	562.0	565.6	570.8	582.1	593.0	607.0	622.0
55°	567.5	545.4	529.7	520.0	518.7	520.7	526.5	538.9	554.5	572.1	586.4
57.5°	510.3	491.8	477.5	470.7	471.4	473.2	482.9	497.6	514.3	533.0	551.5
60°	471.7	454.8	443.1	437.9	438.5	442.4	454.1	467.9	488.7	506.9	526.5
62.5°	435.3	420.4	409.2	404.5	403.6	412.2	423.4	437.6	458.5	478.8	499.9
65°	376.6	364.9	355.8	353.2	355.2	361.7	376.0	394.8	412.5	433.9	456.1
67.5°	319.2	309.6	303.4	304.5	306.9	316.5	328.6	344.8	364.8	387.0	409.0
70°	282.8	273.6	268.4	269.1	273.1	284.7	295.2	311.4	333.0	355.8	374.0
72.5°	245.2	239.2	234.6	237.3	241.2	249.3	262.3	278.6	297.6	318.8	338.0
75°	188.3	188.3	185.7	187.7	193.5	201.3	211.1	228.1	246.9	263.9	279.6
77.5°	139.7	138.3	140.0	142.3	145.7	155.0	166.2	178.2	192.5	209.4	222.3
80°	106.9	107.5	110.7	114.7	116.0	123.2	134.9	146.0	157.0	171.4	183.7
82.5°	80.3	81.0	82.7	87.6	88.9	96.6	104.2	115.2	125.3	134.9	145.2
85°	43.6	43.6	46.9	48.8	52.1	57.3	61.9	68.4	77.6	84.1	93.8
87.5°	18.5	18.8	21.1	22.4	24.2	27.1	28.3	34.2	36.5	39.3	44.1
90°	9.0	10.5	11.7	12.9	14.1	15.4	16.3	17.2	18.2	19.1	19.7
92.5°	22.8	24.2	25.1	25.9	26.9	27.7	28.3	28.8	29.4	30.0	30.3
95°	47.6	48.8	49.9	51.0	52.1	53.2	53.6	54.1	54.6	55.0	55.2
97.5°	77.8	79.0	80.3	81.5	82.8	84.1	84.6	85.2	85.8	86.3	86.6
100°	100.4	101.4	102.8	104.2	105.7	107.1	107.4	107.6	107.9	108.3	108.4
102.5°	124.7	125.5	126.7	128.0	129.2	130.5	131.0	131.4	131.9	132.2	132.5
105°	163.6	164.0	164.7	165.2	165.9	166.5	166.9	167.4	167.9	168.3	168.8
107.5°	205.0	205.2	205.3	205.4	205.5	205.6	205.9	206.4	206.8	207.3	207.5
110°	233.5	233.6	233.4	233.3	233.1	232.9	232.6	232.3	232.1	231.7	231.8



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	261.6	261.5	261.2	260.9	260.6	260.3	260.3	260.2	260.1	260.1	260.1
115°	305.0	304.8	304.5	304.3	303.9	303.6	303.4	303.3	303.1	302.9	302.8
117.5°	346.7	346.6	346.4	346.2	345.9	345.7	345.2	344.7	344.1	343.6	343.2
120°	376.1	376.1	375.7	375.2	374.8	374.3	373.4	372.7	371.9	371.2	370.9
122.5°	403.1	403.1	402.9	402.7	402.5	402.3	401.7	401.1	400.7	400.1	399.5
125°	444.2	444.1	443.9	443.8	443.7	443.5	443.2	442.9	442.6	442.2	442.0
127.5°	484.3	484.4	484.1	483.9	483.6	483.4	483.1	482.8	482.5	482.1	481.8
130°	511.1	511.3	511.3	511.3	511.3	511.3	511.0	510.8	510.4	510.1	509.6
132.5°	538.1	538.2	538.0	537.9	537.8	537.6	537.3	537.1	536.8	536.4	536.1
135°	576.6	577.1	577.1	577.1	577.1	577.1	576.8	576.5	576.2	575.9	575.5
137.5°	614.2	614.4	614.7	614.9	615.2	615.5	615.0	614.6	614.3	613.9	613.7
140°	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.8	639.6	639.4	639.3
142.5°	664.0	664.1	663.9	663.8	663.7	663.5	663.5	663.5	663.5	663.5	663.5
145°	698.5	698.9	699.1	699.3	699.4	699.6	699.4	699.3	699.1	698.9	698.6
147.5°	732.1	732.4	732.3	732.1	732.0	731.9	731.7	731.6	731.5	731.3	731.2
150°	751.7	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.1	752.0
152.5°	769.8	770.0	770.1	770.2	770.3	770.4	770.8	771.2	771.6	771.9	771.9
155°	797.5	797.4	797.2	797.1	796.9	796.8	797.4	798.1	798.6	799.3	799.3
157.5°	821.0	820.9	820.8	820.8	820.8	820.7	821.1	821.6	822.1	822.6	822.6
160°	836.0	835.8	835.8	835.6	835.4	835.3	835.8	836.2	836.7	837.2	837.0
162.5°	848.5	848.2	848.0	847.9	847.7	847.5	848.4	849.2	850.1	850.9	850.9
165°	866.3	865.9	865.5	865.3	865.0	864.6	865.5	866.5	867.4	868.4	868.6
167.5°	879.4	879.0	879.1	879.1	879.1	879.2	880.1	881.1	881.9	882.9	882.9
170°	886.7	886.4	886.6	886.7	886.8	887.0	888.0	888.9	889.9	890.8	890.7
172.5°	892.8	892.5	892.5	892.6	892.6	892.6	893.7	894.8	895.8	896.8	896.8
175°	900.0	899.6	899.4	899.2	899.1	898.9	900.0	901.1	902.2	903.2	903.2
177.5°	903.1	902.9	902.9	902.9	902.9	902.9	903.7	904.6	905.4	906.3	906.3
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1498.9	1497.9	1494.2	1493.7	1494.2	1497.9	1498.9	1500.0	1501.5	1506.7	1500.4
5°	1384.6	1381.4	1379.4	1386.6	1379.4	1381.4	1384.6	1388.6	1395.1	1395.7	1402.2
7.5°	1298.4	1295.9	1290.2	1288.4	1290.2	1295.9	1298.4	1300.8	1307.3	1313.0	1322.6
10°	1243.2	1240.6	1235.4	1234.1	1235.4	1240.6	1243.2	1249.7	1256.2	1263.4	1270.0
12.5°	1190.1	1184.9	1183.8	1185.1	1183.8	1184.9	1190.1	1198.6	1215.6	1215.5	1216.7
15°	1119.5	1116.8	1109.7	1111.6	1109.7	1116.8	1119.5	1127.9	1135.7	1145.5	1155.3
17.5°	1049.8	1046.7	1038.0	1045.7	1038.0	1046.7	1049.8	1054.4	1064.4	1078.3	1093.0
20°	1006.1	1000.8	996.3	995.6	996.3	1000.8	1006.1	1010.6	1021.7	1033.4	1044.5
22.5°	964.3	959.7	959.2	955.0	959.2	959.7	964.3	971.5	982.6	989.1	999.7
25°	912.2	907.7	906.3	903.1	906.3	907.7	912.2	917.5	924.6	929.8	941.5
27.5°	872.2	870.0	867.6	868.6	867.6	870.0	872.2	872.9	876.1	883.1	889.8
30°	847.7	847.1	845.7	845.7	845.7	847.1	847.7	845.7	849.0	852.2	857.5
32.5°	827.4	827.3	828.0	828.0	828.0	827.3	827.4	824.3	825.6	826.7	829.3
35°	798.8	800.8	802.1	800.1	802.1	800.8	798.8	796.3	794.3	789.8	791.0
37.5°	773.1	775.0	776.8	779.0	776.8	775.0	773.1	767.7	763.0	758.9	754.3
40°	753.2	757.8	759.1	762.3	759.1	757.8	753.2	747.3	742.2	737.6	732.4
42.5°	734.4	739.5	742.9	743.6	742.9	739.5	734.4	728.6	720.8	715.2	707.8
45°	705.7	710.9	715.5	715.5	715.5	710.9	705.7	695.9	687.4	678.9	671.8
47.5°	675.8	683.3	688.0	689.1	688.0	683.3	675.8	665.8	653.9	643.5	633.2
50°	655.5	664.6	669.2	672.4	669.2	664.6	655.5	644.4	632.1	619.0	606.6
52.5°	635.7	644.8	650.9	652.6	650.9	644.8	635.7	622.0	607.0	593.0	582.1
55°	601.4	614.4	621.6	624.2	621.6	614.4	601.4	586.4	572.1	554.5	538.9
57.5°	569.1	581.1	589.5	591.4	589.5	581.1	569.1	551.5	533.0	514.3	497.6
60°	544.0	557.1	567.5	569.5	567.5	557.1	544.0	526.5	506.9	488.7	467.9
62.5°	518.5	532.1	541.5	546.6	541.5	532.1	518.5	499.9	478.8	458.5	437.6
65°	474.4	488.0	497.2	499.1	497.2	488.0	474.4	456.1	433.9	412.5	394.8
67.5°	426.1	439.8	445.8	449.6	445.8	439.8	426.1	409.0	387.0	364.8	344.8
70°	392.3	403.3	409.8	413.1	409.8	403.3	392.3	374.0	355.8	333.0	311.4
72.5°	353.6	365.2	372.9	373.5	372.9	365.2	353.6	338.0	318.8	297.6	278.6
75°	294.5	304.9	308.9	308.9	308.9	304.9	294.5	279.6	263.9	246.9	228.1
77.5°	233.1	238.5	243.5	244.5	243.5	238.5	233.1	222.3	209.4	192.5	178.2
80°	193.5	196.8	200.7	200.7	200.7	196.8	193.5	183.7	171.4	157.0	146.0
82.5°	152.9	155.6	159.5	159.0	159.5	155.6	152.9	145.2	134.9	125.3	115.2
85°	92.6	98.4	97.7	96.4	97.7	98.4	92.6	93.8	84.1	77.6	68.4
87.5°	45.7	46.3	47.9	49.0	47.9	46.3	45.7	44.1	39.3	36.5	34.2
90°	20.1	20.4	20.6	21.0	20.6	20.4	20.1	19.7	19.1	18.2	17.2
92.5°	30.5	30.7	30.9	31.1	30.9	30.7	30.5	30.3	30.0	29.4	28.8
95°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.0	54.6	54.1
97.5°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.3	85.8	85.2
100°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.3	107.9	107.6
102.5°	132.7	132.8	132.9	133.1	132.9	132.8	132.7	132.5	132.2	131.9	131.4
105°	169.3	169.8	170.2	170.7	170.2	169.8	169.3	168.8	168.3	167.9	167.4
107.5°	207.5	207.5	207.4	207.4	207.4	207.5	207.5	207.5	207.3	206.8	206.4
110°	232.2	232.7	233.2	233.7	233.2	232.7	232.2	231.8	231.7	232.1	232.3



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	260.2	260.3	260.4	260.5	260.4	260.3	260.2	260.1	260.1	260.1	260.2
115°	302.7	302.6	302.4	302.2	302.4	302.6	302.7	302.8	302.9	303.1	303.3
117.5°	342.9	342.5	342.2	342.0	342.2	342.5	342.9	343.2	343.6	344.1	344.7
120°	371.3	371.6	371.8	372.1	371.8	371.6	371.3	370.9	371.2	371.9	372.7
122.5°	399.0	398.4	397.9	397.4	397.9	398.4	399.0	399.5	400.1	400.7	401.1
125°	441.7	441.3	441.0	440.7	441.0	441.3	441.7	442.0	442.2	442.6	442.9
127.5°	481.6	481.4	481.1	480.9	481.1	481.4	481.6	481.8	482.1	482.5	482.8
130°	509.1	508.4	507.7	507.2	507.7	508.4	509.1	509.6	510.1	510.4	510.8
132.5°	535.9	535.6	535.4	535.2	535.4	535.6	535.9	536.1	536.4	536.8	537.1
135°	575.0	574.6	574.1	573.6	574.1	574.6	575.0	575.5	575.9	576.2	576.5
137.5°	613.8	613.9	614.0	614.1	614.0	613.9	613.8	613.7	613.9	614.3	614.6
140°	639.1	638.9	638.9	638.7	638.9	638.9	639.1	639.3	639.4	639.6	639.8
142.5°	663.4	663.4	663.4	663.3	663.4	663.4	663.4	663.5	663.5	663.5	663.5
145°	698.1	697.7	697.2	696.7	697.2	697.7	698.1	698.6	698.9	699.1	699.3
147.5°	731.0	730.9	730.8	730.6	730.8	730.9	731.0	731.2	731.3	731.5	731.6
150°	751.8	751.6	751.5	751.3	751.5	751.6	751.8	752.0	752.1	752.1	752.1
152.5°	771.6	771.2	770.7	770.3	770.7	771.2	771.6	771.9	771.9	771.6	771.2
155°	798.6	798.1	797.4	796.8	797.4	798.1	798.6	799.3	799.3	798.6	798.1
157.5°	822.0	821.5	821.0	820.4	821.0	821.5	822.0	822.6	822.6	822.1	821.6
160°	836.2	835.4	834.6	833.9	834.6	835.4	836.2	837.0	837.2	836.7	836.2
162.5°	850.2	849.4	848.7	847.8	848.7	849.4	850.2	850.9	850.9	850.1	849.2
165°	867.9	867.2	866.7	866.0	866.7	867.2	867.9	868.6	868.4	867.4	866.5
167.5°	881.9	881.0	880.1	879.0	880.1	881.0	881.9	882.9	882.9	881.9	881.1
170°	889.6	888.5	887.4	886.4	887.4	888.5	889.6	890.7	890.8	889.9	888.9
172.5°	895.7	894.7	893.5	892.5	893.5	894.7	895.7	896.8	896.8	895.8	894.8
175°	902.2	901.1	900.0	898.9	900.0	901.1	902.2	903.2	903.2	902.2	901.1
177.5°	905.2	904.3	903.2	902.3	903.2	904.3	905.2	906.3	906.3	905.4	904.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1503.6	1505.7	1514.0	1521.8	1531.3	1538.0	1542.7	1547.9	1558.9	1567.7	1576.0
5°	1408.7	1412.0	1428.9	1440.7	1460.8	1478.5	1492.1	1507.1	1524.8	1548.8	1570.9
7.5°	1325.2	1337.3	1355.8	1374.9	1395.4	1418.5	1438.6	1461.1	1491.5	1524.6	1558.7
10°	1277.8	1291.5	1311.0	1333.1	1352.7	1379.4	1404.2	1430.9	1465.4	1505.8	1546.2
12.5°	1230.3	1252.8	1267.7	1294.0	1315.1	1337.2	1363.5	1398.5	1438.8	1481.3	1530.0
15°	1170.9	1183.3	1211.9	1226.2	1256.2	1290.2	1316.2	1351.4	1390.4	1446.5	1501.3
17.5°	1102.4	1118.6	1141.4	1168.8	1203.2	1229.6	1262.2	1298.4	1347.6	1403.3	1471.8
20°	1057.5	1071.2	1099.2	1129.2	1165.6	1193.7	1228.2	1263.4	1314.3	1373.6	1445.2
22.5°	1017.4	1030.6	1060.2	1088.0	1123.4	1157.7	1193.8	1234.7	1283.5	1346.0	1419.2
25°	955.3	972.8	998.9	1027.6	1061.4	1100.5	1139.6	1176.1	1228.2	1294.0	1372.2
27.5°	900.1	914.2	933.1	965.6	1004.1	1041.9	1080.7	1126.6	1176.7	1246.2	1327.4
30°	864.7	877.7	896.5	926.5	962.4	1002.8	1043.2	1087.5	1139.6	1208.7	1291.5
32.5°	836.5	846.4	863.2	890.0	922.7	965.3	1005.1	1051.0	1105.7	1173.7	1254.4
35°	794.9	803.4	809.9	835.4	864.7	903.7	944.1	993.1	1045.8	1110.3	1191.1
37.5°	754.1	757.1	766.6	783.2	811.6	847.6	885.1	933.2	987.3	1052.8	1125.7
40°	729.2	730.5	736.3	752.0	776.7	810.6	847.1	894.7	946.1	1008.0	1080.3
42.5°	704.6	703.8	709.2	720.1	743.3	774.1	810.0	853.5	904.9	962.1	1030.3
45°	665.9	665.9	664.6	673.7	692.7	722.6	752.6	794.3	837.3	893.3	950.6
47.5°	625.6	621.9	623.0	627.7	643.7	668.3	698.5	732.6	770.5	818.0	868.3
50°	599.5	594.3	592.3	597.5	611.8	633.3	662.0	692.0	727.8	769.5	812.6
52.5°	570.8	565.6	562.0	565.7	579.0	598.9	625.0	651.3	683.5	717.4	754.7
55°	526.5	520.7	518.7	520.0	529.7	545.4	567.5	591.6	615.8	643.8	669.9
57.5°	482.9	473.2	471.4	470.7	477.5	491.8	510.3	531.2	548.7	565.7	593.4
60°	454.1	442.4	438.5	437.9	443.1	454.8	471.7	492.6	505.0	516.7	540.8
62.5°	423.4	412.2	403.6	404.5	409.2	420.4	435.3	450.3	458.5	471.4	487.7
65°	376.0	361.7	355.2	353.2	355.8	364.9	376.6	386.3	395.5	400.8	416.3
67.5°	328.6	316.5	306.9	304.5	303.4	309.6	319.2	325.2	331.7	336.2	345.4
70°	295.2	284.7	273.1	269.1	268.4	273.6	282.8	283.4	292.6	294.5	304.3
72.5°	262.3	249.3	241.2	237.3	234.6	239.2	245.2	246.9	251.9	255.4	260.5
75°	211.1	201.3	193.5	187.7	185.7	188.3	188.3	191.5	194.8	196.8	202.6
77.5°	166.2	155.0	145.7	142.3	140.0	138.3	139.7	141.7	140.1	143.5	144.8
80°	134.9	123.2	116.0	114.7	110.7	107.5	106.9	108.8	106.2	107.5	111.4
82.5°	104.2	96.6	88.9	87.6	82.7	81.0	80.3	79.1	79.1	78.8	79.6
85°	61.9	57.3	52.1	48.8	46.9	43.6	43.6	42.3	41.1	39.8	40.4
87.5°	28.3	27.1	24.2	22.4	21.1	18.8	18.5	16.6	15.7	14.8	13.9
90°	16.3	15.4	14.1	12.9	11.7	10.5	9.0	7.3	5.6	3.8	2.1
92.5°	28.3	27.7	26.9	25.9	25.1	24.2	22.8	20.8	18.9	17.0	15.0
95°	53.6	53.2	52.1	51.0	49.9	48.8	47.6	46.2	44.8	43.4	41.9
97.5°	84.6	84.1	82.8	81.5	80.3	79.0	77.8	76.6	75.6	74.5	73.3
100°	107.4	107.1	105.7	104.2	102.8	101.4	100.4	99.8	99.2	98.6	97.9
102.5°	131.0	130.5	129.2	128.0	126.7	125.5	124.7	124.4	124.1	123.9	123.7
105°	166.9	166.5	165.9	165.2	164.7	164.0	163.6	163.4	163.3	163.2	163.0
107.5°	205.9	205.6	205.5	205.4	205.3	205.2	205.0	204.8	204.6	204.4	204.2
110°	232.6	232.9	233.1	233.3	233.4	233.6	233.5	233.2	232.9	232.5	232.2



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.3	260.3	260.6	260.9	261.2	261.5	261.6	261.6	261.5	261.4	261.4
115°	303.4	303.6	303.9	304.3	304.5	304.8	305.0	305.0	305.0	305.0	305.0
117.5°	345.2	345.7	345.9	346.2	346.4	346.6	346.7	346.5	346.4	346.3	346.1
120°	373.4	374.3	374.8	375.2	375.7	376.1	376.1	375.4	374.8	374.2	373.5
122.5°	401.7	402.3	402.5	402.7	402.9	403.1	403.1	402.8	402.6	402.4	402.1
125°	443.2	443.5	443.7	443.8	443.9	444.1	444.2	444.2	444.2	444.2	444.2
127.5°	483.1	483.4	483.6	483.9	484.1	484.4	484.3	483.8	483.3	482.9	482.4
130°	511.0	511.3	511.3	511.3	511.3	511.3	511.1	510.7	510.2	509.7	509.3
132.5°	537.3	537.6	537.8	537.9	538.0	538.2	538.1	537.7	537.3	537.1	536.7
135°	576.8	577.1	577.1	577.1	577.1	577.1	576.6	575.7	574.8	573.8	573.0
137.5°	615.0	615.5	615.2	614.9	614.7	614.4	614.2	613.7	613.2	612.8	612.4
140°	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.6	639.3	638.9	638.7
142.5°	663.5	663.5	663.7	663.8	663.9	664.1	664.0	663.6	663.4	663.1	662.7
145°	699.4	699.6	699.4	699.3	699.1	698.9	698.5	698.0	697.3	696.6	696.1
147.5°	731.7	731.9	732.0	732.1	732.3	732.4	732.1	731.3	730.6	729.8	729.1
150°	752.1	752.1	752.1	752.1	752.1	752.1	751.7	751.1	750.5	749.8	749.2
152.5°	770.8	770.4	770.3	770.2	770.1	770.0	769.8	769.4	769.0	768.6	768.3
155°	797.4	796.8	796.9	797.1	797.2	797.4	797.5	797.5	797.5	797.5	797.5
157.5°	821.1	820.7	820.8	820.8	820.8	820.9	821.0	821.2	821.5	821.8	822.1
160°	835.8	835.3	835.4	835.6	835.8	835.8	836.0	836.2	836.3	836.5	836.7
162.5°	848.4	847.5	847.7	847.9	848.0	848.2	848.5	848.9	849.2	849.7	850.1
165°	865.5	864.6	865.0	865.3	865.5	865.9	866.3	866.8	867.2	867.7	868.2
167.5°	880.1	879.2	879.1	879.1	879.1	879.0	879.4	880.1	880.7	881.4	881.9
170°	888.0	887.0	886.8	886.7	886.6	886.4	886.7	887.5	888.3	889.0	889.9
172.5°	893.7	892.6	892.6	892.6	892.5	892.5	892.8	893.4	894.1	894.8	895.4
175°	900.0	898.9	899.1	899.2	899.4	899.6	900.0	900.8	901.5	902.3	903.1
177.5°	903.7	902.9	902.9	902.9	902.9	902.9	903.1	903.8	904.4	905.0	905.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1583.4	1588.6	1595.3	1606.8	1611.0	1616.2	1623.5	1623.0	1625.0	1632.9	1649.5
5°	1589.2	1609.4	1629.0	1652.5	1677.2	1693.5	1715.6	1729.3	1742.9	1760.6	1790.5
7.5°	1591.6	1623.6	1659.4	1700.6	1737.3	1779.5	1812.4	1843.4	1871.5	1908.6	1944.4
10°	1587.9	1630.9	1677.2	1729.3	1784.7	1831.6	1874.0	1922.2	1963.2	2008.2	2048.6
12.5°	1581.1	1633.0	1694.9	1753.3	1818.1	1887.3	1940.1	1988.9	2043.5	2095.3	2157.6
15°	1565.8	1636.8	1709.1	1786.0	1872.6	1952.8	2029.0	2092.3	2150.9	2228.5	2309.9
17.5°	1546.2	1622.9	1714.0	1807.1	1897.7	1989.3	2083.7	2178.7	2252.7	2349.0	2412.7
20°	1528.0	1616.6	1710.4	1821.2	1911.8	2025.8	2119.6	2211.5	2313.1	2409.0	2485.1
22.5°	1502.4	1599.4	1698.9	1809.2	1928.4	2042.5	2150.9	2250.6	2352.2	2456.4	2548.7
25°	1470.0	1557.9	1675.8	1801.0	1919.6	2043.3	2167.8	2292.9	2402.4	2512.5	2598.5
27.5°	1414.8	1525.8	1635.6	1764.7	1896.5	2036.6	2169.6	2300.7	2415.3	2505.8	2559.2
30°	1386.6	1483.0	1602.2	1731.9	1874.6	2025.1	2163.9	2292.3	2399.1	2471.4	2492.9
32.5°	1344.9	1444.4	1561.0	1695.4	1846.4	2001.1	2145.7	2266.7	2355.9	2393.8	2367.9
35°	1283.0	1372.9	1490.8	1628.3	1785.4	1950.2	2092.9	2195.2	2240.8	2205.0	2115.7
37.5°	1208.7	1297.8	1416.3	1551.3	1713.8	1881.4	2010.4	2084.1	2068.9	1979.8	1846.7
40°	1156.6	1240.0	1352.7	1498.6	1657.0	1825.0	1938.4	1978.2	1936.5	1808.8	1667.5
42.5°	1098.7	1180.1	1293.3	1434.0	1601.8	1756.8	1855.6	1858.9	1788.9	1636.3	1494.3
45°	1010.6	1088.2	1195.0	1341.6	1496.7	1642.7	1707.8	1675.8	1546.9	1399.6	1256.9
47.5°	923.7	990.9	1096.3	1235.4	1382.7	1505.5	1537.9	1480.4	1342.9	1200.0	1067.7
50°	860.1	927.8	1026.9	1159.8	1301.8	1408.1	1423.7	1347.5	1212.6	1068.6	965.0
52.5°	799.1	866.4	961.8	1084.8	1214.8	1310.6	1311.1	1222.9	1088.5	960.2	863.8
55°	709.5	770.2	856.2	966.3	1082.3	1157.3	1139.0	1047.7	931.1	819.7	735.7
57.5°	623.3	676.1	755.4	847.2	949.3	1011.2	980.9	893.1	788.9	694.5	630.7
60°	567.5	617.7	685.5	772.1	858.2	906.3	877.7	798.1	702.4	626.1	570.8
62.5°	513.3	555.6	620.9	696.1	775.8	811.5	786.0	707.5	624.7	555.8	510.9
65°	436.6	471.1	523.2	587.8	645.7	676.4	654.9	581.8	518.7	469.1	433.3
67.5°	364.9	391.9	431.3	483.1	532.3	548.9	529.3	478.5	425.0	385.3	360.1
70°	315.4	340.8	374.0	413.8	456.8	474.4	454.8	414.4	370.8	334.2	309.5
72.5°	272.1	291.8	319.8	353.8	387.5	405.0	391.7	352.9	316.0	288.9	267.8
75°	207.2	224.1	243.6	267.8	293.9	305.6	293.9	267.1	241.8	221.5	206.5
77.5°	150.6	159.8	174.8	192.8	209.2	218.1	208.0	189.8	174.4	160.5	153.2
80°	114.7	121.2	131.6	146.0	157.0	165.5	159.0	144.0	131.6	122.5	119.2
82.5°	83.4	87.8	94.6	105.3	112.7	117.1	114.1	103.3	98.2	90.2	86.9
85°	41.1	43.6	48.3	51.5	58.0	58.6	59.3	54.8	50.1	48.3	45.6
87.5°	14.8	15.7	17.6	19.5	21.9	22.6	22.4	22.6	20.8	20.5	18.6
90°	3.8	5.6	7.3	9.0	10.5	11.7	12.9	14.1	15.4	16.3	17.2
92.5°	17.0	18.9	20.8	22.8	24.2	25.1	25.9	26.9	27.7	28.3	28.8
95°	43.4	44.8	46.2	47.6	48.8	49.9	51.0	52.1	53.2	53.6	54.1
97.5°	74.5	75.6	76.6	77.8	79.0	80.3	81.5	82.8	84.1	84.6	85.2
100°	98.6	99.2	99.8	100.4	101.4	102.8	104.2	105.7	107.1	107.4	107.6
102.5°	123.9	124.1	124.4	124.7	125.5	126.7	128.0	129.2	130.5	131.0	131.4
105°	163.2	163.3	163.4	163.6	164.0	164.7	165.2	165.9	166.5	166.9	167.4
107.5°	204.4	204.6	204.8	205.0	205.2	205.3	205.4	205.5	205.6	205.9	206.4
110°	232.5	232.9	233.2	233.5	233.6	233.4	233.3	233.1	232.9	232.6	232.3



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	261.4	261.5	261.6	261.6	261.5	261.2	260.9	260.6	260.3	260.3	260.2
115°	305.0	305.0	305.0	305.0	304.8	304.5	304.3	303.9	303.6	303.4	303.3
117.5°	346.3	346.4	346.5	346.7	346.6	346.4	346.2	345.9	345.7	345.2	344.7
120°	374.2	374.8	375.4	376.1	376.1	375.7	375.2	374.8	374.3	373.4	372.7
122.5°	402.4	402.6	402.8	403.1	403.1	402.9	402.7	402.5	402.3	401.7	401.1
125°	444.2	444.2	444.2	444.2	444.1	443.9	443.8	443.7	443.5	443.2	442.9
127.5°	482.9	483.3	483.8	484.3	484.4	484.1	483.9	483.6	483.4	483.1	482.8
130°	509.7	510.2	510.7	511.1	511.3	511.3	511.3	511.3	511.3	511.0	510.8
132.5°	537.1	537.3	537.7	538.1	538.2	538.0	537.9	537.8	537.6	537.3	537.1
135°	573.8	574.8	575.7	576.6	577.1	577.1	577.1	577.1	577.1	576.8	576.5
137.5°	612.8	613.2	613.7	614.2	614.4	614.7	614.9	615.2	615.5	615.0	614.6
140°	638.9	639.3	639.6	639.9	640.1	640.1	640.1	640.1	640.1	639.9	639.8
142.5°	663.1	663.4	663.6	664.0	664.1	663.9	663.8	663.7	663.5	663.5	663.5
145°	696.6	697.3	698.0	698.5	698.9	699.1	699.3	699.4	699.6	699.4	699.3
147.5°	729.8	730.6	731.3	732.1	732.4	732.3	732.1	732.0	731.9	731.7	731.6
150°	749.8	750.5	751.1	751.7	752.1	752.1	752.1	752.1	752.1	752.1	752.1
152.5°	768.6	769.0	769.4	769.8	770.0	770.1	770.2	770.3	770.4	770.8	771.2
155°	797.5	797.5	797.5	797.5	797.4	797.2	797.1	796.9	796.8	797.4	798.1
157.5°	821.8	821.5	821.2	821.0	820.9	820.8	820.8	820.8	820.7	821.1	821.6
160°	836.5	836.3	836.2	836.0	835.8	835.8	835.6	835.4	835.3	835.8	836.2
162.5°	849.7	849.2	848.9	848.5	848.2	848.0	847.9	847.7	847.5	848.4	849.2
165°	867.7	867.2	866.8	866.3	865.9	865.5	865.3	865.0	864.6	865.5	866.5
167.5°	881.4	880.7	880.1	879.4	879.0	879.1	879.1	879.1	879.2	880.1	881.1
170°	889.0	888.3	887.5	886.7	886.4	886.6	886.7	886.8	887.0	888.0	888.9
172.5°	894.8	894.1	893.4	892.8	892.5	892.5	892.6	892.6	892.6	893.7	894.8
175°	902.3	901.5	900.8	900.0	899.6	899.4	899.2	899.1	898.9	900.0	901.1
177.5°	905.0	904.4	903.8	903.1	902.9	902.9	902.9	902.9	902.9	903.7	904.6
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1657.9	1659.0	1663.6	1667.3	1668.3	1673.6	1674.0
5°	1803.6	1814.7	1836.2	1838.1	1841.4	1858.3	1845.3
7.5°	1974.3	2002.4	2021.2	2037.8	2043.8	2051.2	2049.7
10°	2083.8	2125.4	2146.4	2179.5	2180.9	2189.3	2184.2
12.5°	2193.8	2242.2	2280.3	2286.4	2314.3	2318.6	2325.9
15°	2349.6	2401.1	2453.9	2472.8	2511.2	2520.4	2534.7
17.5°	2496.1	2548.7	2585.8	2634.6	2650.4	2671.5	2657.1
20°	2576.3	2633.7	2680.6	2719.0	2735.4	2747.0	2745.8
22.5°	2624.9	2682.7	2720.7	2749.8	2765.0	2770.0	2769.8
25°	2655.2	2688.4	2700.2	2711.2	2694.4	2688.4	2691.1
27.5°	2570.8	2562.2	2531.6	2491.4	2449.7	2416.6	2398.6
30°	2454.6	2403.7	2357.4	2276.6	2235.0	2210.2	2188.0
32.5°	2289.8	2209.2	2120.2	2046.3	1998.8	1962.1	1956.6
35°	2007.5	1886.3	1777.5	1687.0	1640.0	1600.2	1591.2
37.5°	1706.8	1580.8	1482.9	1403.2	1352.7	1324.6	1298.4
40°	1507.1	1398.9	1302.5	1234.7	1196.3	1176.1	1159.8
42.5°	1353.3	1254.5	1158.7	1107.0	1072.2	1059.9	1050.4
45°	1140.9	1049.0	982.6	943.5	923.3	902.5	892.7
47.5°	970.8	896.1	852.2	819.1	797.4	785.0	778.7
50°	874.4	813.1	774.1	748.7	729.2	719.3	714.2
52.5°	788.9	738.7	705.8	685.6	672.3	665.2	663.1
55°	679.6	641.1	620.3	602.8	593.0	586.4	583.8
57.5°	590.7	561.2	544.2	529.7	525.9	520.5	518.7
60°	532.3	509.5	495.2	485.4	482.2	475.7	476.9
62.5°	480.7	462.1	449.9	444.2	440.0	434.5	436.3
65°	406.6	392.9	386.3	381.2	376.0	372.7	375.3
67.5°	341.2	331.8	322.9	319.9	317.4	316.8	314.1
70°	298.4	290.6	282.8	280.9	280.9	278.2	277.6
72.5°	257.2	251.5	246.3	244.9	242.8	243.8	241.1
75°	198.7	194.2	192.2	190.3	189.6	189.6	187.7
77.5°	146.8	143.5	140.3	140.3	138.0	137.1	136.9
80°	111.4	110.1	107.5	107.5	106.2	106.9	105.6
82.5°	83.8	82.0	81.4	80.4	78.6	78.7	77.4
85°	45.0	43.0	42.3	40.4	39.1	40.4	39.1
87.5°	19.3	18.9	18.6	17.5	17.1	17.2	15.6
90°	18.2	19.1	19.7	20.1	20.4	20.6	21.0
92.5°	29.4	30.0	30.3	30.5	30.7	30.9	31.1
95°	54.6	55.0	55.2	55.2	55.2	55.2	55.2
97.5°	85.8	86.3	86.6	86.6	86.6	86.6	86.6
100°	107.9	108.3	108.4	108.4	108.4	108.4	108.4
102.5°	131.9	132.2	132.5	132.7	132.8	132.9	133.1
105°	167.9	168.3	168.8	169.3	169.8	170.2	170.7
107.5°	206.8	207.3	207.5	207.5	207.5	207.4	207.4
110°	232.1	231.7	231.8	232.2	232.7	233.2	233.7



TEST NUMBER: P332812-830

CATALOG NUMBER: S124DIW-S1020D770U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	260.1	260.1	260.1	260.2	260.3	260.4	260.5
115°	303.1	302.9	302.8	302.7	302.6	302.4	302.2
117.5°	344.1	343.6	343.2	342.9	342.5	342.2	342.0
120°	371.9	371.2	370.9	371.3	371.6	371.8	372.1
122.5°	400.7	400.1	399.5	399.0	398.4	397.9	397.4
125°	442.6	442.2	442.0	441.7	441.3	441.0	440.7
127.5°	482.5	482.1	481.8	481.6	481.4	481.1	480.9
130°	510.4	510.1	509.6	509.1	508.4	507.7	507.2
132.5°	536.8	536.4	536.1	535.9	535.6	535.4	535.2
135°	576.2	575.9	575.5	575.0	574.6	574.1	573.6
137.5°	614.3	613.9	613.7	613.8	613.9	614.0	614.1
140°	639.6	639.4	639.3	639.1	638.9	638.9	638.7
142.5°	663.5	663.5	663.5	663.4	663.4	663.4	663.3
145°	699.1	698.9	698.6	698.1	697.7	697.2	696.7
147.5°	731.5	731.3	731.2	731.0	730.9	730.8	730.6
150°	752.1	752.1	752.0	751.8	751.6	751.5	751.3
152.5°	771.6	771.9	771.9	771.6	771.2	770.7	770.3
155°	798.6	799.3	799.3	798.6	798.1	797.4	796.8
157.5°	822.1	822.6	822.6	822.0	821.5	821.0	820.4
160°	836.7	837.2	837.0	836.2	835.4	834.6	833.9
162.5°	850.1	850.9	850.9	850.2	849.4	848.7	847.8
165°	867.4	868.4	868.6	867.9	867.2	866.7	866.0
167.5°	881.9	882.9	882.9	881.9	881.0	880.1	879.0
170°	889.9	890.8	890.7	889.6	888.5	887.4	886.4
172.5°	895.8	896.8	896.8	895.7	894.7	893.5	892.5
175°	902.2	903.2	903.2	902.2	901.1	900.0	898.9
177.5°	905.4	906.3	906.3	905.2	904.3	903.2	902.3
180°	904.5	904.5	904.5	904.5	904.5	904.5	904.5

(END OF REPORT)