

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: P331731-830

Luminaire Tested: **S122RDIP-S865D1080U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331731-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S865D1080U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7077.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

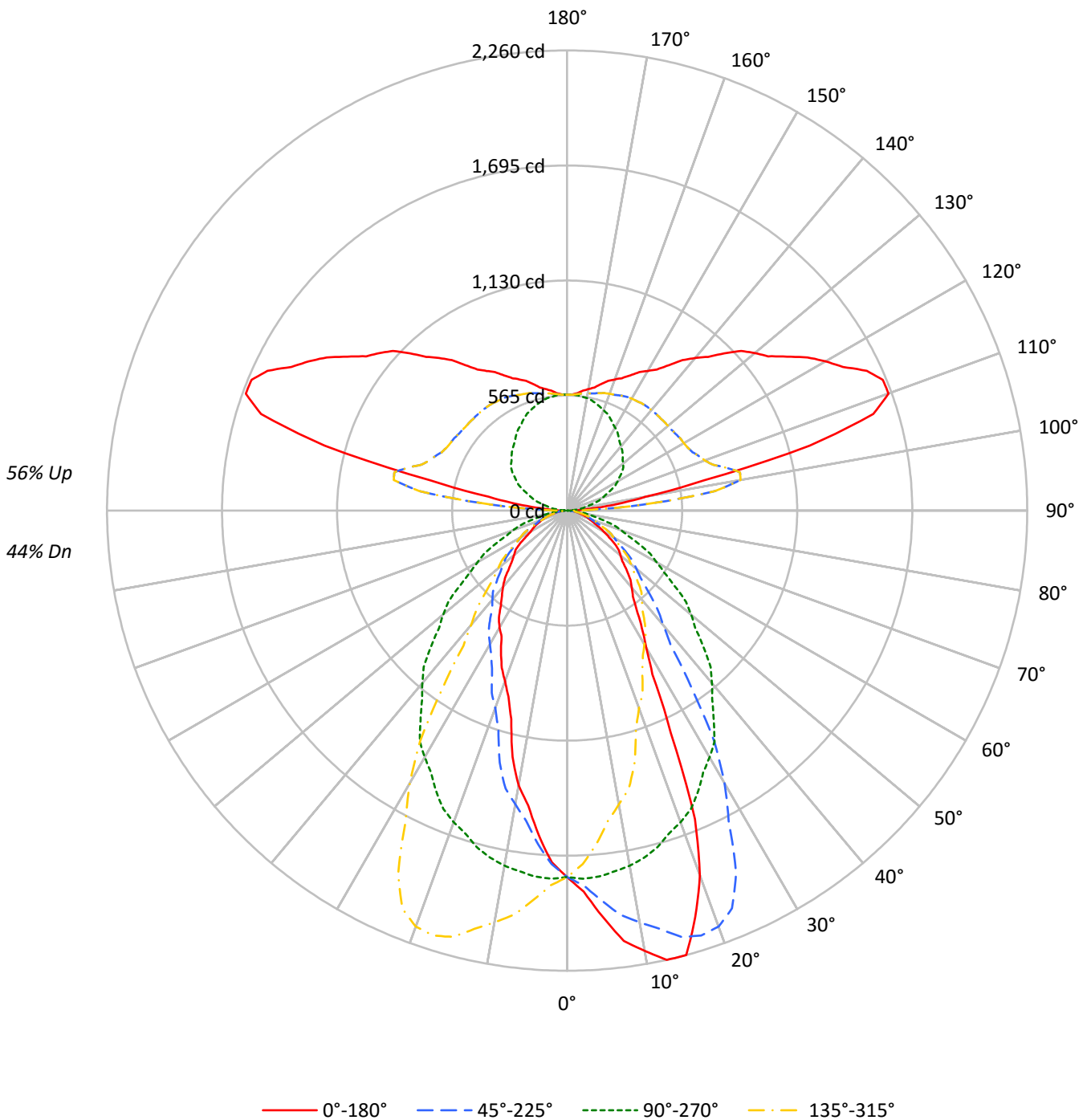
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	80	71	69	67	58	56	55	46	45	44	38
2	89	82	76	72	81	75	71	66	63	60	57	52	49	47	41	40	38	33
3	82	73	66	61	75	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	65	58	52	69	60	54	49	51	46	42	42	38	36	34	31	29	26
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23
6	64	53	45	39	59	49	42	37	41	36	32	35	31	28	28	26	23	21
7	59	48	40	35	54	44	38	33	38	33	29	32	28	25	26	23	21	19
8	55	44	36	31	51	40	34	29	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	26	32	27	23	27	23	21	22	20	18	16
10	48	37	30	25	44	34	28	24	30	25	21	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.4
10°-20°	475.4	6.7
20°-30°	612.6	8.7
30°-40°	582.2	8.2
40°-50°	498.7	7.0
50°-60°	379.8	5.4
60°-70°	240.1	3.4
70°-80°	119.9	1.7
80°-90°	36.3	0.5
90°-100°	227.7	3.2
100°-110°	772.5	10.9
110°-120°	820.7	11.6
120°-130°	675.6	9.5
130°-140°	542.5	7.7
140°-150°	410.0	5.8
150°-160°	288.1	4.1
160°-170°	169.6	2.4
170°-180°	55.2	0.8
0°-30°	1258.6	17.8
0°-40°	1840.8	26.0
0°-60°	2719.4	38.4
0°-90°	3115.7	44.0
90°-120°	1820.9	25.7
90°-150°	3449.0	48.7
90°-180°	3962.0	56.0
0°-180°	7077.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	25
90°	36	1	36	1	36	20
95°	125	38	125	38	125	162
105°	1234	134	1234	134	1234	1194
115°	1624	235	1624	235	1624	1590
125°	1317	328	1317	328	1317	1190
135°	1092	385	1092	385	1092	848
145°	872	440	872	440	872	554
155°	732	500	732	500	732	342
165°	643	545	643	545	643	184
175°	579	568	579	568	579	56
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	15.3	15.7	15.7	15.7	15.7	15.6	15.1	16.0	15.7	16.5	15.7
90°	36.1	36.1	36.1	36.1	36.1	35.1	32.9	35.1	36.1	37.2	36.1
92.5°	60.7	62.4	61.5	65.0	65.9	72.7	81.9	95.5	120.3	142.3	140.3
95°	124.8	123.8	127.1	135.7	150.0	174.1	220.1	286.9	375.6	429.2	379.9
97.5°	245.7	254.9	270.9	297.8	350.2	429.2	547.7	669.4	768.6	732.7	551.9
100°	392.0	411.7	443.5	490.5	581.4	713.9	863.9	999.7	1022.7	865.0	595.6
102.5°	689.8	716.5	756.2	836.5	935.3	1075.6	1185.3	1216.1	1117.3	869.4	579.0
105°	1234.0	1249.3	1296.4	1364.2	1432.2	1468.3	1454.1	1330.3	1102.6	811.3	546.4
107.5°	1576.2	1596.6	1606.0	1609.8	1601.2	1548.2	1434.4	1248.0	1006.4	749.1	530.2
110°	1679.6	1680.7	1670.8	1650.0	1603.0	1513.2	1373.0	1177.0	946.0	719.3	526.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1677.8	1672.0	1653.3	1618.5	1553.0	1450.1	1300.3	1112.2	904.0	700.1	527.5
115°	1623.8	1613.9	1585.5	1535.1	1457.4	1344.5	1201.2	1032.6	851.9	678.8	532.2
117.5°	1527.2	1518.9	1488.8	1435.7	1356.4	1250.7	1120.6	972.5	819.0	668.5	540.0
120°	1465.0	1454.1	1422.3	1370.8	1294.2	1194.6	1078.5	942.7	801.4	662.4	545.3
122.5°	1400.1	1391.0	1362.7	1312.1	1243.4	1153.4	1043.5	919.1	786.6	658.9	551.4
125°	1317.2	1308.4	1281.1	1239.4	1175.9	1093.8	997.5	884.7	765.3	652.6	560.6
127.5°	1244.5	1237.5	1213.8	1174.9	1119.5	1043.7	952.8	850.7	745.6	648.8	570.0
130°	1203.3	1194.6	1172.7	1135.5	1081.8	1009.6	923.0	828.9	732.5	647.1	577.0
132.5°	1160.4	1152.5	1132.4	1095.1	1042.4	974.5	895.0	807.9	722.0	646.2	584.0
135°	1091.7	1087.2	1067.5	1031.4	984.3	923.0	850.7	778.4	707.3	644.9	592.4
137.5°	1024.2	1017.7	1000.3	969.2	926.3	872.9	815.5	755.1	697.0	644.7	599.8
140°	977.8	971.2	954.8	926.3	891.3	843.1	792.8	740.2	690.9	643.9	603.3
142.5°	931.3	930.0	915.4	889.5	856.2	816.0	772.6	727.9	684.8	643.9	606.0
145°	871.6	868.3	857.3	838.7	812.5	780.7	746.8	710.6	676.7	641.6	608.8
147.5°	821.4	819.4	812.0	797.1	775.4	752.2	725.8	697.3	668.4	637.7	609.6
150°	791.6	790.5	784.0	770.8	754.4	734.7	711.7	687.6	661.3	635.1	608.8
152.5°	766.2	766.0	761.2	749.8	736.9	719.8	700.3	678.0	655.2	630.7	607.0
155°	732.5	734.7	730.3	722.6	710.6	698.5	682.1	664.6	643.9	623.0	604.4
157.5°	703.8	703.8	701.8	695.5	686.9	677.5	663.7	649.0	633.1	615.1	599.4
160°	685.4	685.4	684.3	678.8	671.2	663.5	651.5	639.4	625.2	609.9	596.7
162.5°	667.9	668.7	667.7	663.9	656.3	650.4	640.1	629.8	618.2	605.5	594.1
165°	642.7	643.9	643.9	639.4	635.1	630.7	623.0	615.4	606.6	596.7	589.1
167.5°	619.5	620.9	621.0	618.6	616.7	612.7	607.5	601.5	595.2	589.1	584.0
170°	605.5	607.7	608.8	605.5	604.4	602.2	597.9	594.6	589.1	584.7	581.4
172.5°	594.1	595.4	596.5	595.0	593.9	592.6	589.1	586.6	583.0	579.5	577.9
175°	579.2	581.4	582.5	581.4	581.4	580.3	579.2	578.2	574.9	573.7	572.7
177.5°	570.2	572.0	572.9	572.9	572.9	572.9	572.0	572.0	570.2	569.4	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	14.4	13.4	12.3	11.1	11.2	11.2	12.9	14.7	13.4	12.7	12.2
90°	29.6	21.9	16.4	13.1	10.9	8.8	4.3	1.1	4.3	8.8	10.9
92.5°	109.2	74.5	49.7	39.4	32.0	27.1	19.2	13.4	19.2	27.1	32.0
95°	252.9	157.7	107.3	81.1	63.5	53.6	42.7	38.4	42.7	53.6	63.5
97.5°	340.7	208.0	144.8	115.0	94.8	79.9	68.3	62.4	68.3	79.9	94.8
100°	359.1	225.6	167.5	136.9	115.0	97.5	87.6	84.3	87.6	97.5	115.0
102.5°	360.1	241.3	187.7	157.0	134.2	116.7	106.9	104.4	106.9	116.7	134.2
105°	365.7	268.2	216.8	186.2	162.0	145.6	138.0	133.6	138.0	145.6	162.0
107.5°	380.8	295.9	245.9	215.1	191.1	176.1	168.6	165.1	168.6	176.1	191.1
110°	393.0	314.2	266.1	234.3	211.3	197.1	190.5	186.2	190.5	197.1	211.3



TEST NUMBER: P331731-830

CATALOG NUMBER: S122RDIP-S865D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	406.2	331.8	285.3	252.7	230.5	217.3	209.8	205.4	209.8	217.3	230.5
115°	425.9	359.1	312.1	282.5	260.6	247.4	240.9	235.4	240.9	247.4	260.6
117.5°	447.0	384.3	340.7	310.1	289.1	277.5	270.9	266.6	270.9	277.5	289.1
120°	461.0	401.8	359.1	328.5	306.6	296.7	290.1	285.8	290.1	296.7	306.6
122.5°	473.3	418.5	378.4	346.9	325.0	314.2	307.6	304.2	307.6	314.2	325.0
125°	492.8	443.5	404.1	373.3	351.5	338.4	331.8	328.5	331.8	338.4	351.5
127.5°	510.9	466.7	428.3	396.8	375.8	361.4	352.1	347.7	352.1	361.4	375.8
130°	522.3	480.7	442.3	411.7	389.8	374.5	363.5	359.1	363.5	374.5	389.8
132.5°	533.7	492.9	456.4	425.7	402.9	386.7	374.9	369.7	374.9	386.7	402.9
135°	548.6	510.2	475.2	444.5	419.3	402.9	389.8	385.4	389.8	402.9	419.3
137.5°	560.0	524.2	489.7	461.2	436.2	418.7	405.6	400.3	405.6	418.7	436.2
140°	566.1	532.2	499.3	470.8	446.8	429.2	416.0	411.7	416.0	429.2	446.8
142.5°	571.4	538.3	506.3	479.6	456.4	438.8	426.6	423.1	426.6	438.8	456.4
145°	578.2	547.4	517.9	493.8	471.9	455.5	444.5	440.2	444.5	455.5	471.9
147.5°	581.8	554.9	527.1	505.7	487.5	472.3	461.8	458.5	461.8	472.3	487.5
150°	583.6	558.5	533.2	513.5	497.1	482.9	474.1	470.8	474.1	482.9	497.1
152.5°	584.5	561.9	539.3	521.4	505.9	493.3	484.7	483.1	484.7	493.3	505.9
155°	585.8	567.1	548.6	532.2	520.1	508.0	501.4	500.4	501.4	508.0	520.1
157.5°	585.8	570.9	555.2	541.3	531.7	521.2	515.9	514.8	515.9	521.2	531.7
160°	585.8	572.7	559.5	547.4	538.7	529.9	525.6	524.4	525.6	529.9	538.7
162.5°	584.9	573.5	562.1	552.7	544.8	537.8	533.5	534.1	533.5	537.8	544.8
165°	582.5	574.9	565.0	558.5	552.9	546.4	544.2	545.3	544.2	546.4	552.9
167.5°	581.0	574.6	567.4	563.3	559.3	555.2	553.2	554.5	553.2	555.2	559.3
170°	579.2	573.7	568.3	565.0	562.8	559.5	558.5	560.6	558.5	559.5	562.8
172.5°	576.6	572.9	569.1	566.8	565.4	562.1	562.8	564.1	562.8	562.1	565.4
175°	573.7	571.6	569.4	568.3	568.3	566.1	567.1	568.3	567.1	566.1	568.3
177.5°	572.0	570.2	569.4	569.4	569.4	567.6	568.4	570.2	568.4	567.6	569.4
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



TEST NUMBER: P331731-830

CATALOG NUMBER: S122RDIP-S865D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	12.2	12.3	12.3	13.9	15.3	15.0	14.7	14.0	13.6	14.0	13.8
90°	13.1	16.4	21.9	29.6	36.1	37.2	36.1	35.1	32.9	35.1	36.1
92.5°	39.4	49.7	74.5	109.2	140.3	142.3	120.3	95.5	81.9	72.7	65.9
95°	81.1	107.3	157.7	252.9	379.9	429.2	375.6	286.9	220.1	174.1	150.0
97.5°	115.0	144.8	208.0	340.7	551.9	732.7	768.6	669.4	547.7	429.2	350.2
100°	136.9	167.5	225.6	359.1	595.6	865.0	1022.7	999.7	863.9	713.9	581.4
102.5°	157.0	187.7	241.3	360.1	579.0	869.4	1117.3	1216.1	1185.3	1075.6	935.3
105°	186.2	216.8	268.2	365.7	546.4	811.3	1102.6	1330.3	1454.1	1468.3	1432.2
107.5°	215.1	245.9	295.9	380.8	530.2	749.1	1006.4	1248.0	1434.4	1548.2	1601.2
110°	234.3	266.1	314.2	393.0	526.7	719.3	946.0	1177.0	1373.0	1513.2	1603.0



TEST NUMBER: P331731-830

CATALOG NUMBER: S122RDIP-S865D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	252.7	285.3	331.8	406.2	527.5	700.1	904.0	1112.2	1300.3	1450.1	1553.0
115°	282.5	312.1	359.1	425.9	532.2	678.8	851.9	1032.6	1201.2	1344.5	1457.4
117.5°	310.1	340.7	384.3	447.0	540.0	668.5	819.0	972.5	1120.6	1250.7	1356.4
120°	328.5	359.1	401.8	461.0	545.3	662.4	801.4	942.7	1078.5	1194.6	1294.2
122.5°	346.9	378.4	418.5	473.3	551.4	658.9	786.6	919.1	1043.5	1153.4	1243.4
125°	373.3	404.1	443.5	492.8	560.6	652.6	765.3	884.7	997.5	1093.8	1175.9
127.5°	396.8	428.3	466.7	510.9	570.0	648.8	745.6	850.7	952.8	1043.7	1119.5
130°	411.7	442.3	480.7	522.3	577.0	647.1	732.5	828.9	923.0	1009.6	1081.8
132.5°	425.7	456.4	492.9	533.7	584.0	646.2	722.0	807.9	895.0	974.5	1042.4
135°	444.5	475.2	510.2	548.6	592.4	644.9	707.3	778.4	850.7	923.0	984.3
137.5°	461.2	489.7	524.2	560.0	599.8	644.7	697.0	755.1	815.5	872.9	926.3
140°	470.8	499.3	532.2	566.1	603.3	643.9	690.9	740.2	792.8	843.1	891.3
142.5°	479.6	506.3	538.3	571.4	606.0	643.9	684.8	727.9	772.6	816.0	856.2
145°	493.8	517.9	547.4	578.2	608.8	641.6	676.7	710.6	746.8	780.7	812.5
147.5°	505.7	527.1	554.9	581.8	609.6	637.7	668.4	697.3	725.8	752.2	775.4
150°	513.5	533.2	558.5	583.6	608.8	635.1	661.3	687.6	711.7	734.7	754.4
152.5°	521.4	539.3	561.9	584.5	607.0	630.7	655.2	678.0	700.3	719.8	736.9
155°	532.2	548.6	567.1	585.8	604.4	623.0	643.9	664.6	682.1	698.5	710.6
157.5°	541.3	555.2	570.9	585.8	599.4	615.1	633.1	649.0	663.7	677.5	686.9
160°	547.4	559.5	572.7	585.8	596.7	609.9	625.2	639.4	651.5	663.5	671.2
162.5°	552.7	562.1	573.5	584.9	594.1	605.5	618.2	629.8	640.1	650.4	656.3
165°	558.5	565.0	574.9	582.5	589.1	596.7	606.6	615.4	623.0	630.7	635.1
167.5°	563.3	567.4	574.6	581.0	584.0	589.1	595.2	601.5	607.5	612.7	616.7
170°	565.0	568.3	573.7	579.2	581.4	584.7	589.1	594.6	597.9	602.2	604.4
172.5°	566.8	569.1	572.9	576.6	577.9	579.5	583.0	586.6	589.1	592.6	593.9
175°	568.3	569.4	571.6	573.7	572.7	573.7	574.9	578.2	579.2	580.3	581.4
177.5°	569.4	569.4	570.2	572.0	570.2	569.4	570.2	572.0	572.0	572.9	572.9
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



TEST NUMBER: P331731-830

CATALOG NUMBER: S122RDIP-S865D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	13.8	13.2	13.8	13.2	13.8	13.2	13.8	13.8	14.0	13.6	14.0
90°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	35.1	32.9	35.1
92.5°	65.0	61.5	62.4	60.7	62.4	61.5	65.0	65.9	72.7	81.9	95.5
95°	135.7	127.1	123.8	124.8	123.8	127.1	135.7	150.0	174.1	220.1	286.9
97.5°	297.8	270.9	254.9	245.7	254.9	270.9	297.8	350.2	429.2	547.7	669.4
100°	490.5	443.5	411.7	392.0	411.7	443.5	490.5	581.4	713.9	863.9	999.7
102.5°	836.5	756.2	716.5	689.8	716.5	756.2	836.5	935.3	1075.6	1185.3	1216.1
105°	1364.2	1296.4	1249.3	1234.0	1249.3	1296.4	1364.2	1432.2	1468.3	1454.1	1330.3
107.5°	1609.8	1606.0	1596.6	1576.2	1596.6	1606.0	1609.8	1601.2	1548.2	1434.4	1248.0
110°	1650.0	1670.8	1680.7	1679.6	1680.7	1670.8	1650.0	1603.0	1513.2	1373.0	1177.0



TEST NUMBER: P331731-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1618.5	1653.3	1672.0	1677.8	1672.0	1653.3	1618.5	1553.0	1450.1	1300.3	1112.2
115°	1535.1	1585.5	1613.9	1623.8	1613.9	1585.5	1535.1	1457.4	1344.5	1201.2	1032.6
117.5°	1435.7	1488.8	1518.9	1527.2	1518.9	1488.8	1435.7	1356.4	1250.7	1120.6	972.5
120°	1370.8	1422.3	1454.1	1465.0	1454.1	1422.3	1370.8	1294.2	1194.6	1078.5	942.7
122.5°	1312.1	1362.7	1391.0	1400.1	1391.0	1362.7	1312.1	1243.4	1153.4	1043.5	919.1
125°	1239.4	1281.1	1308.4	1317.2	1308.4	1281.1	1239.4	1175.9	1093.8	997.5	884.7
127.5°	1174.9	1213.8	1237.5	1244.5	1237.5	1213.8	1174.9	1119.5	1043.7	952.8	850.7
130°	1135.5	1172.7	1194.6	1203.3	1194.6	1172.7	1135.5	1081.8	1009.6	923.0	828.9
132.5°	1095.1	1132.4	1152.5	1160.4	1152.5	1132.4	1095.1	1042.4	974.5	895.0	807.9
135°	1031.4	1067.5	1087.2	1091.7	1087.2	1067.5	1031.4	984.3	923.0	850.7	778.4
137.5°	969.2	1000.3	1017.7	1024.2	1017.7	1000.3	969.2	926.3	872.9	815.5	755.1
140°	926.3	954.8	971.2	977.8	971.2	954.8	926.3	891.3	843.1	792.8	740.2
142.5°	889.5	915.4	930.0	931.3	930.0	915.4	889.5	856.2	816.0	772.6	727.9
145°	838.7	857.3	868.3	871.6	868.3	857.3	838.7	812.5	780.7	746.8	710.6
147.5°	797.1	812.0	819.4	821.4	819.4	812.0	797.1	775.4	752.2	725.8	697.3
150°	770.8	784.0	790.5	791.6	790.5	784.0	770.8	754.4	734.7	711.7	687.6
152.5°	749.8	761.2	766.0	766.2	766.0	761.2	749.8	736.9	719.8	700.3	678.0
155°	722.6	730.3	734.7	732.5	734.7	730.3	722.6	710.6	698.5	682.1	664.6
157.5°	695.5	701.8	703.8	703.8	703.8	701.8	695.5	686.9	677.5	663.7	649.0
160°	678.8	684.3	685.4	685.4	685.4	684.3	678.8	671.2	663.5	651.5	639.4
162.5°	663.9	667.7	668.7	667.9	668.7	667.7	663.9	656.3	650.4	640.1	629.8
165°	639.4	643.9	643.9	642.7	643.9	643.9	639.4	635.1	630.7	623.0	615.4
167.5°	618.6	621.0	620.9	619.5	620.9	621.0	618.6	616.7	612.7	607.5	601.5
170°	605.5	608.8	607.7	605.5	607.7	608.8	605.5	604.4	602.2	597.9	594.6
172.5°	595.0	596.5	595.4	594.1	595.4	596.5	595.0	593.9	592.6	589.1	586.6
175°	581.4	582.5	581.4	579.2	581.4	582.5	581.4	581.4	580.3	579.2	578.2
177.5°	572.9	572.9	572.0	570.2	572.0	572.9	572.9	572.9	572.9	572.0	572.0
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	14.7	15.0	15.3	13.9	12.3	12.3	12.2	12.2	12.7	13.4	14.7
90°	36.1	37.2	36.1	29.6	21.9	16.4	13.1	10.9	8.8	4.3	1.1
92.5°	120.3	142.3	140.3	109.2	74.5	49.7	39.4	32.0	27.1	19.2	13.4
95°	375.6	429.2	379.9	252.9	157.7	107.3	81.1	63.5	53.6	42.7	38.4
97.5°	768.6	732.7	551.9	340.7	208.0	144.8	115.0	94.8	79.9	68.3	62.4
100°	1022.7	865.0	595.6	359.1	225.6	167.5	136.9	115.0	97.5	87.6	84.3
102.5°	1117.3	869.4	579.0	360.1	241.3	187.7	157.0	134.2	116.7	106.9	104.4
105°	1102.6	811.3	546.4	365.7	268.2	216.8	186.2	162.0	145.6	138.0	133.6
107.5°	1006.4	749.1	530.2	380.8	295.9	245.9	215.1	191.1	176.1	168.6	165.1
110°	946.0	719.3	526.7	393.0	314.2	266.1	234.3	211.3	197.1	190.5	186.2



TEST NUMBER: P331731-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	904.0	700.1	527.5	406.2	331.8	285.3	252.7	230.5	217.3	209.8	205.4
115°	851.9	678.8	532.2	425.9	359.1	312.1	282.5	260.6	247.4	240.9	235.4
117.5°	819.0	668.5	540.0	447.0	384.3	340.7	310.1	289.1	277.5	270.9	266.6
120°	801.4	662.4	545.3	461.0	401.8	359.1	328.5	306.6	296.7	290.1	285.8
122.5°	786.6	658.9	551.4	473.3	418.5	378.4	346.9	325.0	314.2	307.6	304.2
125°	765.3	652.6	560.6	492.8	443.5	404.1	373.3	351.5	338.4	331.8	328.5
127.5°	745.6	648.8	570.0	510.9	466.7	428.3	396.8	375.8	361.4	352.1	347.7
130°	732.5	647.1	577.0	522.3	480.7	442.3	411.7	389.8	374.5	363.5	359.1
132.5°	722.0	646.2	584.0	533.7	492.9	456.4	425.7	402.9	386.7	374.9	369.7
135°	707.3	644.9	592.4	548.6	510.2	475.2	444.5	419.3	402.9	389.8	385.4
137.5°	697.0	644.7	599.8	560.0	524.2	489.7	461.2	436.2	418.7	405.6	400.3
140°	690.9	643.9	603.3	566.1	532.2	499.3	470.8	446.8	429.2	416.0	411.7
142.5°	684.8	643.9	606.0	571.4	538.3	506.3	479.6	456.4	438.8	426.6	423.1
145°	676.7	641.6	608.8	578.2	547.4	517.9	493.8	471.9	455.5	444.5	440.2
147.5°	668.4	637.7	609.6	581.8	554.9	527.1	505.7	487.5	472.3	461.8	458.5
150°	661.3	635.1	608.8	583.6	558.5	533.2	513.5	497.1	482.9	474.1	470.8
152.5°	655.2	630.7	607.0	584.5	561.9	539.3	521.4	505.9	493.3	484.7	483.1
155°	643.9	623.0	604.4	585.8	567.1	548.6	532.2	520.1	508.0	501.4	500.4
157.5°	633.1	615.1	599.4	585.8	570.9	555.2	541.3	531.7	521.2	515.9	514.8
160°	625.2	609.9	596.7	585.8	572.7	559.5	547.4	538.7	529.9	525.6	524.4
162.5°	618.2	605.5	594.1	584.9	573.5	562.1	552.7	544.8	537.8	533.5	534.1
165°	606.6	596.7	589.1	582.5	574.9	565.0	558.5	552.9	546.4	544.2	545.3
167.5°	595.2	589.1	584.0	581.0	574.6	567.4	563.3	559.3	555.2	553.2	554.5
170°	589.1	584.7	581.4	579.2	573.7	568.3	565.0	562.8	559.5	558.5	560.6
172.5°	583.0	579.5	577.9	576.6	572.9	569.1	566.8	565.4	562.1	562.8	564.1
175°	574.9	573.7	572.7	573.7	571.6	569.4	568.3	568.3	566.1	567.1	568.3
177.5°	570.2	569.4	570.2	572.0	570.2	569.4	569.4	569.4	567.6	568.4	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



TEST NUMBER: P331731-830

CATALOG NUMBER: S122RDIP-S865D1080U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.9	11.2	11.2	11.1	12.3	13.4	14.4	15.7	16.5	15.7	16.0
90°	4.3	8.8	10.9	13.1	16.4	21.9	29.6	36.1	37.2	36.1	35.1
92.5°	19.2	27.1	32.0	39.4	49.7	74.5	109.2	140.3	142.3	120.3	95.5
95°	42.7	53.6	63.5	81.1	107.3	157.7	252.9	379.9	429.2	375.6	286.9
97.5°	68.3	79.9	94.8	115.0	144.8	208.0	340.7	551.9	732.7	768.6	669.4
100°	87.6	97.5	115.0	136.9	167.5	225.6	359.1	595.6	865.0	1022.7	999.7
102.5°	106.9	116.7	134.2	157.0	187.7	241.3	360.1	579.0	869.4	1117.3	1216.1
105°	138.0	145.6	162.0	186.2	216.8	268.2	365.7	546.4	811.3	1102.6	1330.3
107.5°	168.6	176.1	191.1	215.1	245.9	295.9	380.8	530.2	749.1	1006.4	1248.0
110°	190.5	197.1	211.3	234.3	266.1	314.2	393.0	526.7	719.3	946.0	1177.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	209.8	217.3	230.5	252.7	285.3	331.8	406.2	527.5	700.1	904.0	1112.2
115°	240.9	247.4	260.6	282.5	312.1	359.1	425.9	532.2	678.8	851.9	1032.6
117.5°	270.9	277.5	289.1	310.1	340.7	384.3	447.0	540.0	668.5	819.0	972.5
120°	290.1	296.7	306.6	328.5	359.1	401.8	461.0	545.3	662.4	801.4	942.7
122.5°	307.6	314.2	325.0	346.9	378.4	418.5	473.3	551.4	658.9	786.6	919.1
125°	331.8	338.4	351.5	373.3	404.1	443.5	492.8	560.6	652.6	765.3	884.7
127.5°	352.1	361.4	375.8	396.8	428.3	466.7	510.9	570.0	648.8	745.6	850.7
130°	363.5	374.5	389.8	411.7	442.3	480.7	522.3	577.0	647.1	732.5	828.9
132.5°	374.9	386.7	402.9	425.7	456.4	492.9	533.7	584.0	646.2	722.0	807.9
135°	389.8	402.9	419.3	444.5	475.2	510.2	548.6	592.4	644.9	707.3	778.4
137.5°	405.6	418.7	436.2	461.2	489.7	524.2	560.0	599.8	644.7	697.0	755.1
140°	416.0	429.2	446.8	470.8	499.3	532.2	566.1	603.3	643.9	690.9	740.2
142.5°	426.6	438.8	456.4	479.6	506.3	538.3	571.4	606.0	643.9	684.8	727.9
145°	444.5	455.5	471.9	493.8	517.9	547.4	578.2	608.8	641.6	676.7	710.6
147.5°	461.8	472.3	487.5	505.7	527.1	554.9	581.8	609.6	637.7	668.4	697.3
150°	474.1	482.9	497.1	513.5	533.2	558.5	583.6	608.8	635.1	661.3	687.6
152.5°	484.7	493.3	505.9	521.4	539.3	561.9	584.5	607.0	630.7	655.2	678.0
155°	501.4	508.0	520.1	532.2	548.6	567.1	585.8	604.4	623.0	643.9	664.6
157.5°	515.9	521.2	531.7	541.3	555.2	570.9	585.8	599.4	615.1	633.1	649.0
160°	525.6	529.9	538.7	547.4	559.5	572.7	585.8	596.7	609.9	625.2	639.4
162.5°	533.5	537.8	544.8	552.7	562.1	573.5	584.9	594.1	605.5	618.2	629.8
165°	544.2	546.4	552.9	558.5	565.0	574.9	582.5	589.1	596.7	606.6	615.4
167.5°	553.2	555.2	559.3	563.3	567.4	574.6	581.0	584.0	589.1	595.2	601.5
170°	558.5	559.5	562.8	565.0	568.3	573.7	579.2	581.4	584.7	589.1	594.6
172.5°	562.8	562.1	565.4	566.8	569.1	572.9	576.6	577.9	579.5	583.0	586.6
175°	567.1	566.1	568.3	568.3	569.4	571.6	573.7	572.7	573.7	574.9	578.2
177.5°	568.4	567.6	569.4	569.4	569.4	570.2	572.0	570.2	569.4	570.2	572.0
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	15.1	15.6	15.7	15.7	15.7	15.7	15.3
90°	32.9	35.1	36.1	36.1	36.1	36.1	36.1
92.5°	81.9	72.7	65.9	65.0	61.5	62.4	60.7
95°	220.1	174.1	150.0	135.7	127.1	123.8	124.8
97.5°	547.7	429.2	350.2	297.8	270.9	254.9	245.7
100°	863.9	713.9	581.4	490.5	443.5	411.7	392.0
102.5°	1185.3	1075.6	935.3	836.5	756.2	716.5	689.8
105°	1454.1	1468.3	1432.2	1364.2	1296.4	1249.3	1234.0
107.5°	1434.4	1548.2	1601.2	1609.8	1606.0	1596.6	1576.2
110°	1373.0	1513.2	1603.0	1650.0	1670.8	1680.7	1679.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1300.3	1450.1	1553.0	1618.5	1653.3	1672.0	1677.8
115°	1201.2	1344.5	1457.4	1535.1	1585.5	1613.9	1623.8
117.5°	1120.6	1250.7	1356.4	1435.7	1488.8	1518.9	1527.2
120°	1078.5	1194.6	1294.2	1370.8	1422.3	1454.1	1465.0
122.5°	1043.5	1153.4	1243.4	1312.1	1362.7	1391.0	1400.1
125°	997.5	1093.8	1175.9	1239.4	1281.1	1308.4	1317.2
127.5°	952.8	1043.7	1119.5	1174.9	1213.8	1237.5	1244.5
130°	923.0	1009.6	1081.8	1135.5	1172.7	1194.6	1203.3
132.5°	895.0	974.5	1042.4	1095.1	1132.4	1152.5	1160.4
135°	850.7	923.0	984.3	1031.4	1067.5	1087.2	1091.7
137.5°	815.5	872.9	926.3	969.2	1000.3	1017.7	1024.2
140°	792.8	843.1	891.3	926.3	954.8	971.2	977.8
142.5°	772.6	816.0	856.2	889.5	915.4	930.0	931.3
145°	746.8	780.7	812.5	838.7	857.3	868.3	871.6
147.5°	725.8	752.2	775.4	797.1	812.0	819.4	821.4
150°	711.7	734.7	754.4	770.8	784.0	790.5	791.6
152.5°	700.3	719.8	736.9	749.8	761.2	766.0	766.2
155°	682.1	698.5	710.6	722.6	730.3	734.7	732.5
157.5°	663.7	677.5	686.9	695.5	701.8	703.8	703.8
160°	651.5	663.5	671.2	678.8	684.3	685.4	685.4
162.5°	640.1	650.4	656.3	663.9	667.7	668.7	667.9
165°	623.0	630.7	635.1	639.4	643.9	643.9	642.7
167.5°	607.5	612.7	616.7	618.6	621.0	620.9	619.5
170°	597.9	602.2	604.4	605.5	608.8	607.7	605.5
172.5°	589.1	592.6	593.9	595.0	596.5	595.4	594.1
175°	579.2	580.3	581.4	581.4	582.5	581.4	579.2
177.5°	572.0	572.9	572.9	572.9	572.9	572.0	570.2
180°	569.4	569.4	569.4	569.4	569.4	569.4	569.4

(END OF REPORT)