

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: P332386-935

Luminaire Tested: **S123RDIP-S1165D1195U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332386-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1165D1195U935-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7657.7 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

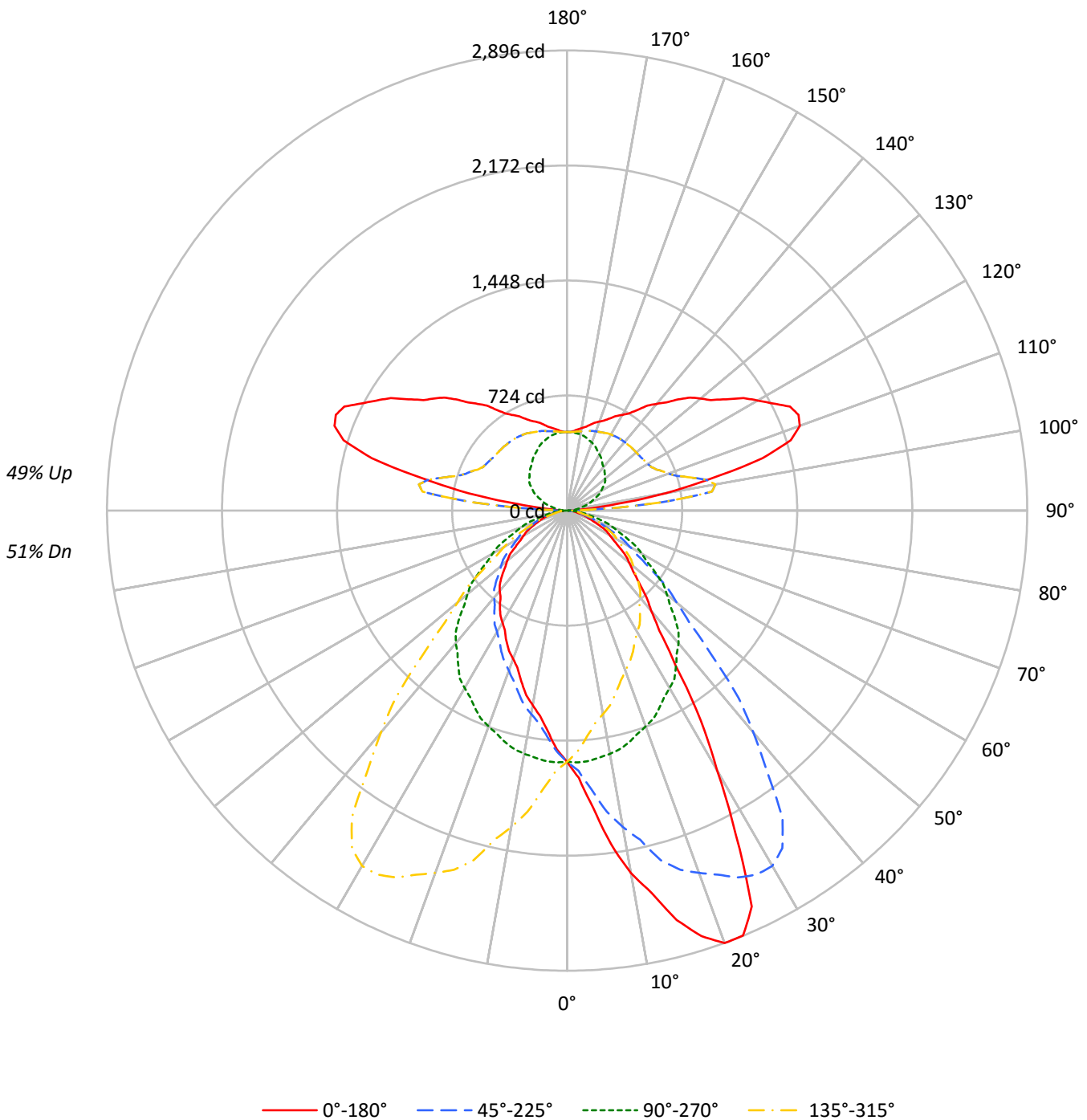
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	73	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	74	67	61	76	69	62	58	59	54	50	50	46	44	41	39	37	33
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	37	35	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	25	23
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	23	26	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.0
10°-20°	485.7	6.3
20°-30°	763.0	10.0
30°-40°	796.1	10.4
40°-50°	681.2	8.9
50°-60°	519.2	6.8
60°-70°	332.8	4.3
70°-80°	160.1	2.1
80°-90°	46.2	0.6
90°-100°	275.0	3.6
100°-110°	778.7	10.2
110°-120°	766.1	10.0
120°-130°	611.0	8.0
130°-140°	481.8	6.3
140°-150°	359.6	4.7
150°-160°	250.6	3.3
160°-170°	147.2	1.9
170°-180°	47.9	0.6
0°-30°	1404.1	18.3
0°-40°	2200.2	28.7
0°-60°	3400.7	44.4
0°-90°	3939.8	51.4
90°-120°	1819.8	23.8
90°-150°	3272.2	42.7
90°-180°	3718.0	48.6
0°-180°	7657.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	29	2	29	2	29	16
95°	116	34	116	34	116	209
105°	1272	116	1272	116	1272	1255
115°	1548	205	1548	205	1548	1504
125°	1220	285	1220	285	1220	1106
135°	989	334	989	334	989	767
145°	773	381	773	381	773	492
155°	641	433	641	433	641	299
165°	559	473	559	473	559	160
175°	503	493	503	493	503	49
180°	494	494	494	494	494	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	11.2	12.5	11.2	11.5	11.8	11.9	11.7	11.5	12.4	12.1	12.0
90°	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2	116.1	153.9	169.3
95°	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2	481.1	593.2	528.2
97.5°	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7	983.5	919.3	673.0
100°	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4	1144.4	947.4	640.2
102.5°	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1	1152.4	895.4	592.2
105°	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5	1091.4	804.3	533.2
107.5°	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6	984.6	723.8	495.6
110°	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4	917.3	678.2	481.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9	858.9	647.8	473.2
115°	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4	788.2	615.2	470.2
117.5°	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9	745.6	596.0	472.0
120°	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3	723.2	587.2	475.2
122.5°	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7	704.8	581.6	480.8
125°	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3	681.2	574.2	489.1
127.5°	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9	660.5	570.6	498.8
130°	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3	649.2	568.2	505.1
132.5°	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3	638.9	567.4	510.0
135°	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2	625.3	566.2	517.2
137.5°	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6	613.4	564.0	522.0
140°	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2	606.2	563.2	525.2
142.5°	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6	599.8	561.6	527.6
145°	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2	591.2	559.2	529.2
147.5°	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8	582.8	555.4	529.2
150°	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2	577.2	552.2	529.2
152.5°	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4	570.8	548.2	526.8
155°	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2	561.2	541.2	524.2
157.5°	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2	550.4	535.0	520.8
160°	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2	543.2	530.2	519.2
162.5°	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6	536.0	525.4	516.0
165°	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2	526.2	518.1	511.2
167.5°	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4	516.8	511.0	506.4
170°	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2	511.2	506.2	503.2
172.5°	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8	505.6	502.1	500.8
175°	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2	499.2	497.1	497.1
177.5°	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8	495.0	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	12.5	11.3	11.8	11.4	12.7	12.6	15.4	17.7	18.7	16.9	17.5
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4	18.4	26.8	34.6
95°	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0	37.0	48.0	65.0
97.5°	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0	59.0	67.6	82.4
100°	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0	75.0	82.1	96.0
102.5°	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8	92.6	98.8	112.0
105°	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1	119.1	125.0	137.1
107.5°	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8	145.9	151.6	163.4
110°	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0	165.1	170.0	181.1



TEST NUMBER: P332386-935

CATALOG NUMBER: S123RDIP-S1165D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7	182.7	187.7	198.6
115°	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1	209.1	215.1	225.1
117.5°	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5	235.1	240.0	249.3
120°	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1	251.1	256.1	266.1
122.5°	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3	266.3	271.3	282.1
125°	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1	287.1	293.1	304.1
127.5°	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7	304.7	312.1	323.3
130°	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1	315.1	324.1	336.1
132.5°	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1	323.9	333.7	348.1
135°	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2	338.1	349.1	364.1
137.5°	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3	351.5	362.3	378.3
140°	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1	361.1	371.1	387.1
142.5°	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8	370.0	380.7	395.1
145°	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2	384.1	393.1	408.1
147.5°	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7	398.6	407.3	420.3
150°	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2	408.1	416.1	429.1
152.5°	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6	417.8	425.8	437.1
155°	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2	433.2	439.2	449.2
157.5°	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6	446.3	451.2	459.9
160°	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1	455.1	459.2	467.2
162.5°	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4	462.4	465.5	472.0
165°	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2	472.2	474.2	479.1
167.5°	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4	480.2	481.1	485.0
170°	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2	484.1	485.2	488.2
172.5°	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4	488.2	488.4	490.6
175°	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2	492.1	491.2	493.2
177.5°	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0	494.2	493.4	494.2
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332386-935

CATALOG NUMBER: S123RDIP-S1165D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	17.4	19.4	20.5	21.7	22.8	22.9	23.2	23.4	24.1	24.4	24.7
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	29.0
92.5°	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2	66.8	59.0	53.8
95°	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2	244.1	191.1	155.1
97.5°	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7	719.0	590.0	470.4
100°	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4	1098.4	981.4	839.3
102.5°	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1	1270.4	1202.2	1112.2
105°	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5	1400.5	1419.5	1393.5
107.5°	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6	1384.1	1471.7	1507.4
110°	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4	1330.5	1456.6	1526.6



TEST NUMBER: P332386-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9	1260.1	1401.3	1491.3
115°	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4	1147.4	1294.4	1403.5
117.5°	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9	1052.1	1184.2	1294.9
120°	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3	999.4	1119.4	1220.5
122.5°	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7	956.9	1068.2	1162.0
125°	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3	904.3	1000.3	1080.4
127.5°	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9	858.1	944.7	1017.5
130°	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3	829.3	910.3	978.4
132.5°	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3	802.1	877.5	942.4
135°	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2	763.3	828.3	885.3
137.5°	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6	725.8	781.9	831.3
140°	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2	704.2	752.3	795.3
142.5°	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6	683.5	725.0	762.5
145°	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2	656.3	688.3	717.2
147.5°	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8	636.0	661.9	682.4
150°	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2	623.2	644.2	663.2
152.5°	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4	611.2	629.8	645.7
155°	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2	594.2	609.2	621.2
157.5°	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2	577.6	589.2	598.6
160°	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2	567.2	577.2	584.2
162.5°	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6	556.0	565.2	571.4
165°	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2	540.2	547.2	552.2
167.5°	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4	528.0	532.0	535.6
170°	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2	519.2	523.1	525.2
172.5°	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8	512.0	515.2	516.3
175°	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2	502.1	504.2	504.2
177.5°	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8	496.5	497.4	497.4
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332386-935

CATALOG NUMBER: S123RDIP-S1165D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	25.7	24.7	25.0	25.3	25.0	24.7	25.7	24.7	24.4	24.1	23.4
90°	28.0	29.0	30.0	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0
92.5°	52.0	49.0	50.0	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2
95°	136.0	127.1	120.0	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2
97.5°	396.6	351.5	324.5	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7
100°	738.2	665.2	626.2	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4
102.5°	1033.5	975.8	943.1	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1
105°	1347.5	1309.5	1277.5	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5
107.5°	1508.1	1495.3	1484.5	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6
110°	1554.5	1562.5	1560.6	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1542.6	1567.4	1574.9	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9
115°	1478.5	1522.5	1542.6	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4
117.5°	1373.1	1423.5	1452.3	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9
120°	1299.4	1355.5	1379.5	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3
122.5°	1232.3	1282.6	1309.1	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7
125°	1144.4	1188.4	1213.4	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3
127.5°	1074.6	1112.2	1134.8	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9
130°	1031.4	1067.4	1088.4	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3
132.5°	992.1	1028.1	1046.8	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3
135°	934.4	964.3	982.3	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2
137.5°	872.5	902.9	918.1	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6
140°	833.3	861.3	877.3	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2
142.5°	794.9	819.7	834.1	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6
145°	742.3	763.3	771.3	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2
147.5°	701.5	715.7	723.2	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8
150°	678.2	689.2	695.3	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2
152.5°	657.5	667.6	671.2	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4
155°	630.3	638.3	640.2	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2
157.5°	606.4	612.4	614.0	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2
160°	591.2	597.2	597.2	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2
162.5°	576.0	581.2	581.2	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6
165°	556.2	560.2	559.2	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2
167.5°	537.4	540.2	539.2	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4
170°	526.2	528.2	527.2	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2
172.5°	516.6	518.6	516.8	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8
175°	504.2	505.1	504.2	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2
177.5°	496.5	497.4	495.8	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332386-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	23.2	22.9	22.8	21.7	20.5	19.4	17.4	17.5	16.9	18.7	17.7
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	116.1	153.9	169.3	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4
95°	481.1	593.2	528.2	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0
97.5°	983.5	919.3	673.0	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0
100°	1144.4	947.4	640.2	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0
102.5°	1152.4	895.4	592.2	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8
105°	1091.4	804.3	533.2	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1
107.5°	984.6	723.8	495.6	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8
110°	917.3	678.2	481.1	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	858.9	647.8	473.2	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7
115°	788.2	615.2	470.2	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1
117.5°	745.6	596.0	472.0	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5
120°	723.2	587.2	475.2	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1
122.5°	704.8	581.6	480.8	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3
125°	681.2	574.2	489.1	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1
127.5°	660.5	570.6	498.8	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7
130°	649.2	568.2	505.1	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1
132.5°	638.9	567.4	510.0	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1
135°	625.3	566.2	517.2	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2
137.5°	613.4	564.0	522.0	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3
140°	606.2	563.2	525.2	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1
142.5°	599.8	561.6	527.6	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8
145°	591.2	559.2	529.2	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2
147.5°	582.8	555.4	529.2	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7
150°	577.2	552.2	529.2	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2
152.5°	570.8	548.2	526.8	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6
155°	561.2	541.2	524.2	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2
157.5°	550.4	535.0	520.8	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6
160°	543.2	530.2	519.2	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1
162.5°	536.0	525.4	516.0	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4
165°	526.2	518.1	511.2	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2
167.5°	516.8	511.0	506.4	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4
170°	511.2	506.2	503.2	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2
172.5°	505.6	502.1	500.8	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4
175°	499.2	497.1	497.1	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2
177.5°	495.0	494.2	495.0	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332386-935

CATALOG NUMBER: S123RDIP-S1165D1195U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	15.4	12.6	12.7	11.4	11.8	11.3	12.5	12.0	12.1	12.4	11.5
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.6	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2
95°	37.0	48.0	65.0	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2
97.5°	59.0	67.6	82.4	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7
100°	75.0	82.1	96.0	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4
102.5°	92.6	98.8	112.0	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1
105°	119.1	125.0	137.1	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5
107.5°	145.9	151.6	163.4	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6
110°	165.1	170.0	181.1	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	187.7	198.6	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9
115°	209.1	215.1	225.1	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4
117.5°	235.1	240.0	249.3	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9
120°	251.1	256.1	266.1	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3
122.5°	266.3	271.3	282.1	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7
125°	287.1	293.1	304.1	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3
127.5°	304.7	312.1	323.3	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9
130°	315.1	324.1	336.1	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3
132.5°	323.9	333.7	348.1	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3
135°	338.1	349.1	364.1	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2
137.5°	351.5	362.3	378.3	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6
140°	361.1	371.1	387.1	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2
142.5°	370.0	380.7	395.1	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6
145°	384.1	393.1	408.1	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2
147.5°	398.6	407.3	420.3	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8
150°	408.1	416.1	429.1	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2
152.5°	417.8	425.8	437.1	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4
155°	433.2	439.2	449.2	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2
157.5°	446.3	451.2	459.9	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2
160°	455.1	459.2	467.2	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2
162.5°	462.4	465.5	472.0	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6
165°	472.2	474.2	479.1	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2
167.5°	480.2	481.1	485.0	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4
170°	484.1	485.2	488.2	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2
172.5°	488.2	488.4	490.6	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8
175°	492.1	491.2	493.2	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2
177.5°	494.2	493.4	494.2	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	11.7	11.9	11.8	11.5	11.2	12.5	11.2
90°	26.0	27.0	29.0	28.0	29.0	30.0	29.0
92.5°	66.8	59.0	53.8	52.0	49.0	50.0	48.2
95°	244.1	191.1	155.1	136.0	127.1	120.0	116.1
97.5°	719.0	590.0	470.4	396.6	351.5	324.5	315.9
100°	1098.4	981.4	839.3	738.2	665.2	626.2	627.2
102.5°	1270.4	1202.2	1112.2	1033.5	975.8	943.1	920.2
105°	1400.5	1419.5	1393.5	1347.5	1309.5	1277.5	1272.5
107.5°	1384.1	1471.7	1507.4	1508.1	1495.3	1484.5	1475.3
110°	1330.5	1456.6	1526.6	1554.5	1562.5	1560.6	1558.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1260.1	1401.3	1491.3	1542.6	1567.4	1574.9	1575.4
115°	1147.4	1294.4	1403.5	1478.5	1522.5	1542.6	1547.6
117.5°	1052.1	1184.2	1294.9	1373.1	1423.5	1452.3	1459.1
120°	999.4	1119.4	1220.5	1299.4	1355.5	1379.5	1385.5
122.5°	956.9	1068.2	1162.0	1232.3	1282.6	1309.1	1316.6
125°	904.3	1000.3	1080.4	1144.4	1188.4	1213.4	1220.5
127.5°	858.1	944.7	1017.5	1074.6	1112.2	1134.8	1141.2
130°	829.3	910.3	978.4	1031.4	1067.4	1088.4	1096.4
132.5°	802.1	877.5	942.4	992.1	1028.1	1046.8	1052.4
135°	763.3	828.3	885.3	934.4	964.3	982.3	989.4
137.5°	725.8	781.9	831.3	872.5	902.9	918.1	922.7
140°	704.2	752.3	795.3	833.3	861.3	877.3	876.3
142.5°	683.5	725.0	762.5	794.9	819.7	834.1	833.1
145°	656.3	688.3	717.2	742.3	763.3	771.3	773.3
147.5°	636.0	661.9	682.4	701.5	715.7	723.2	724.0
150°	623.2	644.2	663.2	678.2	689.2	695.3	695.3
152.5°	611.2	629.8	645.7	657.5	667.6	671.2	671.2
155°	594.2	609.2	621.2	630.3	638.3	640.2	641.2
157.5°	577.6	589.2	598.6	606.4	612.4	614.0	613.8
160°	567.2	577.2	584.2	591.2	597.2	597.2	596.2
162.5°	556.0	565.2	571.4	576.0	581.2	581.2	580.2
165°	540.2	547.2	552.2	556.2	560.2	559.2	559.2
167.5°	528.0	532.0	535.6	537.4	540.2	539.2	539.2
170°	519.2	523.1	525.2	526.2	528.2	527.2	527.2
172.5°	512.0	515.2	516.3	516.6	518.6	516.8	516.0
175°	502.1	504.2	504.2	504.2	505.1	504.2	503.2
177.5°	496.5	497.4	497.4	496.5	497.4	495.8	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2

(END OF REPORT)