

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: P332065-935

Luminaire Tested: **S123DIP-S1165D805U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332065-935
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: S123DIP-S1165D805U935-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6719.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

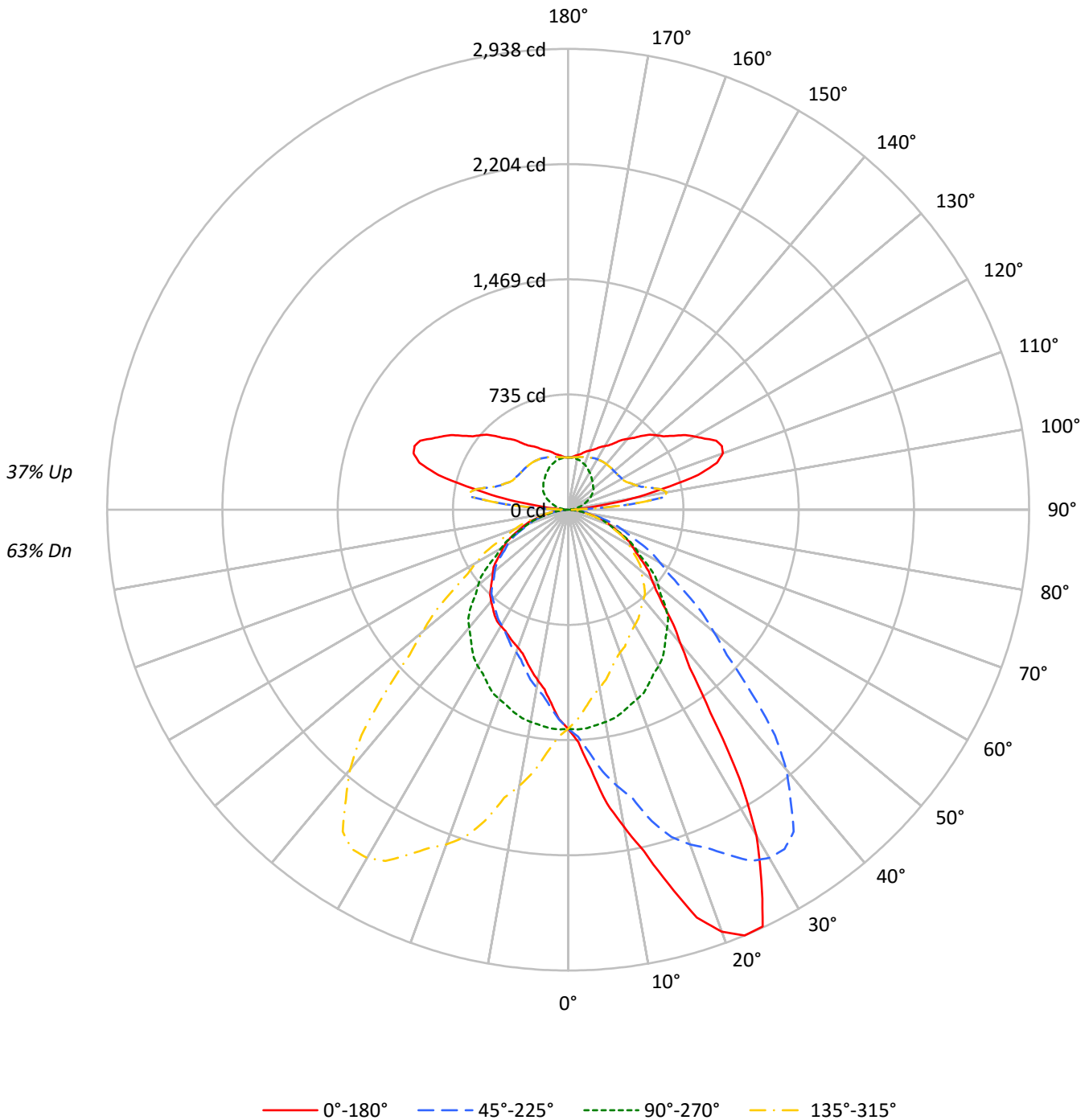
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	89	95	91	88	84	80	77	75	70	68	66	61	59	58	54
2	92	85	79	74	86	80	74	70	70	66	63	62	59	56	54	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	55	51	48	48	45	42	39
4	77	66	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	39	33	41	35	31	36	32	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	32	27	33	29	25	30	26	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	21	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	2.0
10°-20°	441.2	6.6
20°-30°	740.4	11.0
30°-40°	838.4	12.5
40°-50°	751.8	11.2
50°-60°	606.7	9.0
60°-70°	422.8	6.3
70°-80°	222.2	3.3
80°-90°	56.9	0.8
90°-100°	185.1	2.8
100°-110°	524.0	7.8
110°-120°	515.5	7.7
120°-130°	411.2	6.1
130°-140°	324.2	4.8
140°-150°	242.0	3.6
150°-160°	168.6	2.5
160°-170°	99.1	1.5
170°-180°	32.2	0.5
0°-30°	1319.2	19.6
0°-40°	2157.5	32.1
0°-60°	3516.1	52.3
0°-90°	4218.0	62.8
90°-120°	1224.6	18.2
90°-150°	2201.9	32.8
90°-180°	2502.0	37.2
0°-180°	6719.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	53
90°	20	1	20	1	20	13
95°	78	23	78	23	78	141
105°	856	78	856	78	856	845
115°	1041	138	1041	138	1041	1012
125°	821	192	821	192	821	744
135°	666	225	666	225	666	516
145°	520	256	520	256	520	331
155°	431	291	431	291	431	201
165°	376	318	376	318	376	108
175°	339	332	339	332	339	33
180°	332	332	332	332	332	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	20.1	19.2	19.6	20.0	19.6	19.9	20.3	20.7	21.1	21.8	21.9
90°	19.5	20.2	19.5	18.9	19.5	18.2	17.5	16.8	16.2	16.8	14.8
92.5°	32.5	33.7	33.0	35.0	36.2	39.7	44.9	56.7	78.1	103.5	113.9
95°	78.1	80.8	85.5	91.5	104.4	128.5	164.3	242.4	323.8	399.2	355.4
97.5°	212.6	218.3	236.5	266.8	316.5	397.0	483.9	604.1	661.9	618.6	452.9
100°	422.1	421.4	447.6	496.8	564.7	660.4	739.1	793.7	770.1	637.5	430.8
102.5°	619.1	634.6	656.6	695.5	748.4	809.0	854.9	856.6	775.5	602.4	398.5
105°	856.3	859.6	881.1	906.7	937.7	955.2	942.4	875.1	734.4	541.2	358.8
107.5°	992.7	998.9	1006.3	1014.9	1014.3	990.3	931.3	822.1	662.5	487.1	333.5
110°	1048.8	1050.1	1051.5	1046.0	1027.3	980.1	895.3	771.5	617.3	456.4	323.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1060.1	1059.8	1054.7	1038.0	1003.5	943.0	847.9	721.3	578.0	435.9	318.4
115°	1041.4	1038.0	1024.5	994.9	944.4	871.1	772.1	655.0	530.5	414.0	316.4
117.5°	981.9	977.2	957.9	923.9	871.3	796.9	708.0	606.9	501.8	401.1	317.6
120°	932.3	928.2	912.1	874.4	821.2	753.3	672.4	581.6	486.7	395.1	319.8
122.5°	886.0	880.9	863.1	829.1	782.0	718.8	643.9	561.7	474.3	391.4	323.5
125°	821.2	816.5	799.7	770.1	727.0	673.1	608.6	535.1	458.4	386.4	329.2
127.5°	767.9	763.6	748.4	723.1	684.8	635.8	577.4	512.0	444.4	384.0	335.6
130°	737.8	732.4	718.2	694.1	658.3	612.6	558.0	497.5	436.9	382.4	339.9
132.5°	708.2	704.4	691.9	667.6	634.1	590.5	539.8	484.0	429.9	381.8	343.2
135°	665.7	661.0	648.9	628.7	595.7	557.3	513.6	465.8	420.7	381.0	348.0
137.5°	621.0	617.9	607.6	587.1	559.4	526.2	488.4	449.3	412.8	379.5	351.3
140°	589.7	590.4	579.5	560.8	535.1	506.2	473.9	439.5	407.9	379.0	353.4
142.5°	560.6	561.3	551.6	534.9	513.1	487.9	459.9	430.4	403.6	377.9	355.0
145°	520.3	519.0	513.6	499.5	482.7	463.1	441.6	419.4	397.9	376.3	356.1
147.5°	487.2	486.7	481.6	472.0	459.3	445.4	428.0	410.4	392.2	373.8	356.1
150°	467.9	467.9	463.8	456.4	446.3	433.5	419.4	403.9	388.4	371.6	356.1
152.5°	451.7	451.7	449.3	442.4	434.5	423.8	411.3	398.0	384.1	368.9	354.5
155°	431.4	430.8	429.5	424.0	418.0	409.9	399.8	389.1	377.6	364.2	352.8
157.5°	413.0	413.2	412.1	408.0	402.8	396.5	388.7	379.6	370.4	360.0	350.4
160°	401.2	401.8	401.8	397.9	393.1	388.4	381.7	374.3	365.5	356.8	349.4
162.5°	390.5	391.1	391.1	387.6	384.5	380.3	374.1	367.8	360.7	353.5	347.2
165°	376.3	376.3	376.9	374.3	371.6	368.2	363.5	359.5	354.0	348.7	344.0
167.5°	362.8	362.8	363.5	361.6	360.4	358.0	355.2	352.1	347.8	343.9	340.8
170°	354.7	354.7	355.4	354.0	353.4	352.1	349.4	347.3	344.0	340.6	338.6
172.5°	347.2	347.8	349.0	347.6	347.5	346.6	344.5	343.0	340.2	337.9	337.0
175°	338.6	339.2	339.9	339.2	339.2	339.2	337.9	337.3	335.9	334.6	334.6
177.5°	333.6	333.6	334.7	334.2	334.7	334.7	334.2	333.6	333.0	332.5	333.0
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	22.6	22.7	20.7	18.3	16.9	14.9	14.6	13.3	12.5	12.7	12.6
90°	12.8	10.8	8.8	7.4	6.0	4.0	2.7	1.4	2.7	4.0	6.0
92.5°	85.5	56.6	38.9	28.9	23.3	18.1	12.4	8.4	12.4	18.1	23.3
95°	245.0	144.7	87.5	61.2	43.7	32.3	24.9	22.9	24.9	32.3	43.7
97.5°	268.9	155.8	101.1	72.7	55.4	45.5	39.7	39.0	39.7	45.5	55.4
100°	253.7	154.1	107.0	80.8	64.7	55.2	50.5	49.9	50.5	55.2	64.7
102.5°	240.8	156.3	114.0	90.0	75.4	66.5	62.3	61.1	62.3	66.5	75.4
105°	231.5	162.2	125.9	105.0	92.2	84.1	80.1	78.1	80.1	84.1	92.2
107.5°	230.9	173.2	141.4	122.0	109.9	102.0	98.2	96.1	98.2	102.0	109.9
110°	233.6	182.4	152.1	133.3	121.8	114.4	111.1	109.1	111.1	114.4	121.8



TEST NUMBER: P332065-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	238.9	191.6	163.4	145.2	133.7	126.3	123.0	120.9	123.0	126.3	133.7
115°	247.7	206.6	181.1	162.9	151.4	144.7	140.7	138.0	140.7	144.7	151.4
117.5°	259.3	222.7	197.3	180.6	167.7	161.5	158.2	155.1	158.2	161.5	167.7
120°	267.9	232.9	208.7	191.8	179.1	172.3	168.9	166.9	168.9	172.3	179.1
122.5°	276.0	243.7	220.0	202.1	189.9	182.5	179.2	177.2	179.2	182.5	189.9
125°	288.8	259.2	235.6	217.4	204.7	197.3	193.2	191.8	193.2	197.3	204.7
127.5°	299.3	272.6	249.9	231.7	217.6	210.0	205.0	203.0	205.0	210.0	217.6
130°	306.3	280.7	258.5	240.3	226.2	218.1	212.1	210.0	212.1	218.1	226.2
132.5°	312.7	287.7	266.0	248.4	234.3	224.5	218.0	215.4	218.0	224.5	234.3
135°	321.1	298.2	277.3	259.2	245.0	235.0	227.6	224.8	227.6	235.0	245.0
137.5°	327.3	305.5	285.4	268.5	254.6	243.8	236.5	233.7	236.5	243.8	254.6
140°	330.5	310.3	290.8	274.0	260.5	249.8	243.0	239.6	243.0	249.8	260.5
142.5°	333.7	314.1	295.1	279.4	265.9	256.2	248.9	246.1	248.9	256.2	265.9
145°	337.3	319.1	301.6	286.1	274.7	264.6	258.5	256.5	258.5	264.6	274.7
147.5°	339.4	323.1	307.1	293.9	282.8	274.1	268.2	267.0	268.2	274.1	282.8
150°	339.9	325.8	310.3	298.2	288.8	280.0	274.7	274.0	274.7	280.0	288.8
152.5°	341.0	327.4	314.1	302.5	294.2	286.5	281.1	280.9	281.1	286.5	294.2
155°	341.3	330.5	319.1	309.6	302.2	295.5	291.4	291.4	291.4	295.5	302.2
157.5°	342.0	332.3	323.1	315.8	309.5	303.6	300.3	299.8	300.3	303.6	309.5
160°	342.0	333.9	325.8	319.1	314.4	309.0	306.3	306.3	306.3	309.0	314.4
162.5°	341.4	334.4	327.4	321.8	317.6	313.3	311.2	311.2	311.2	313.3	317.6
165°	339.9	335.2	329.8	325.1	322.4	319.1	317.7	318.4	317.7	319.1	322.4
167.5°	338.9	335.1	331.2	328.2	326.3	323.8	323.1	323.9	323.1	323.8	326.3
170°	337.3	334.6	331.2	329.8	328.5	326.5	325.8	327.2	325.8	326.5	328.5
172.5°	336.7	334.6	331.7	330.9	330.1	328.6	328.5	329.3	328.5	328.6	330.1
175°	335.2	333.9	332.5	331.8	331.8	330.5	331.2	331.8	331.2	330.5	331.8
177.5°	334.2	333.0	332.5	332.5	332.5	332.0	332.5	333.0	332.5	332.0	332.5
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	12.3	13.1	13.0	13.9	13.8	14.7	14.6	13.7	13.8	15.6	13.7
90°	7.4	8.8	10.8	12.8	14.8	16.8	16.2	16.8	17.5	18.2	19.5
92.5°	28.9	38.9	56.6	85.5	113.9	103.5	78.1	56.7	44.9	39.7	36.2
95°	61.2	87.5	144.7	245.0	355.4	399.2	323.8	242.4	164.3	128.5	104.4
97.5°	72.7	101.1	155.8	268.9	452.9	618.6	661.9	604.1	483.9	397.0	316.5
100°	80.8	107.0	154.1	253.7	430.8	637.5	770.1	793.7	739.1	660.4	564.7
102.5°	90.0	114.0	156.3	240.8	398.5	602.4	775.5	856.6	854.9	809.0	748.4
105°	105.0	125.9	162.2	231.5	358.8	541.2	734.4	875.1	942.4	955.2	937.7
107.5°	122.0	141.4	173.2	230.9	333.5	487.1	662.5	822.1	931.3	990.3	1014.3
110°	133.3	152.1	182.4	233.6	323.8	456.4	617.3	771.5	895.3	980.1	1027.3



TEST NUMBER: P332065-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.2	163.4	191.6	238.9	318.4	435.9	578.0	721.3	847.9	943.0	1003.5
115°	162.9	181.1	206.6	247.7	316.4	414.0	530.5	655.0	772.1	871.1	944.4
117.5°	180.6	197.3	222.7	259.3	317.6	401.1	501.8	606.9	708.0	796.9	871.3
120°	191.8	208.7	232.9	267.9	319.8	395.1	486.7	581.6	672.4	753.3	821.2
122.5°	202.1	220.0	243.7	276.0	323.5	391.4	474.3	561.7	643.9	718.8	782.0
125°	217.4	235.6	259.2	288.8	329.2	386.4	458.4	535.1	608.6	673.1	727.0
127.5°	231.7	249.9	272.6	299.3	335.6	384.0	444.4	512.0	577.4	635.8	684.8
130°	240.3	258.5	280.7	306.3	339.9	382.4	436.9	497.5	558.0	612.6	658.3
132.5°	248.4	266.0	287.7	312.7	343.2	381.8	429.9	484.0	539.8	590.5	634.1
135°	259.2	277.3	298.2	321.1	348.0	381.0	420.7	465.8	513.6	557.3	595.7
137.5°	268.5	285.4	305.5	327.3	351.3	379.5	412.8	449.3	488.4	526.2	559.4
140°	274.0	290.8	310.3	330.5	353.4	379.0	407.9	439.5	473.9	506.2	535.1
142.5°	279.4	295.1	314.1	333.7	355.0	377.9	403.6	430.4	459.9	487.9	513.1
145°	286.1	301.6	319.1	337.3	356.1	376.3	397.9	419.4	441.6	463.1	482.7
147.5°	293.9	307.1	323.1	339.4	356.1	373.8	392.2	410.4	428.0	445.4	459.3
150°	298.2	310.3	325.8	339.9	356.1	371.6	388.4	403.9	419.4	433.5	446.3
152.5°	302.5	314.1	327.4	341.0	354.5	368.9	384.1	398.0	411.3	423.8	434.5
155°	309.6	319.1	330.5	341.3	352.8	364.2	377.6	389.1	399.8	409.9	418.0
157.5°	315.8	323.1	332.3	342.0	350.4	360.0	370.4	379.6	388.7	396.5	402.8
160°	319.1	325.8	333.9	342.0	349.4	356.8	365.5	374.3	381.7	388.4	393.1
162.5°	321.8	327.4	334.4	341.4	347.2	353.5	360.7	367.8	374.1	380.3	384.5
165°	325.1	329.8	335.2	339.9	344.0	348.7	354.0	359.5	363.5	368.2	371.6
167.5°	328.2	331.2	335.1	338.9	340.8	343.9	347.8	352.1	355.2	358.0	360.4
170°	329.8	331.2	334.6	337.3	338.6	340.6	344.0	347.3	349.4	352.1	353.4
172.5°	330.9	331.7	334.6	336.7	337.0	337.9	340.2	343.0	344.5	346.6	347.5
175°	331.8	332.5	333.9	335.2	334.6	334.6	335.9	337.3	337.9	339.2	339.2
177.5°	332.5	332.5	333.0	334.2	333.0	332.5	333.0	333.6	334.2	334.7	334.7
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	13.5	13.7	13.3	12.6	13.3	13.7	13.5	13.7	15.6	13.8	13.7
90°	18.9	19.5	20.2	19.5	20.2	19.5	18.9	19.5	18.2	17.5	16.8
92.5°	35.0	33.0	33.7	32.5	33.7	33.0	35.0	36.2	39.7	44.9	56.7
95°	91.5	85.5	80.8	78.1	80.8	85.5	91.5	104.4	128.5	164.3	242.4
97.5°	266.8	236.5	218.3	212.6	218.3	236.5	266.8	316.5	397.0	483.9	604.1
100°	496.8	447.6	421.4	422.1	421.4	447.6	496.8	564.7	660.4	739.1	793.7
102.5°	695.5	656.6	634.6	619.1	634.6	656.6	695.5	748.4	809.0	854.9	856.6
105°	906.7	881.1	859.6	856.3	859.6	881.1	906.7	937.7	955.2	942.4	875.1
107.5°	1014.9	1006.3	998.9	992.7	998.9	1006.3	1014.9	1014.3	990.3	931.3	822.1
110°	1046.0	1051.5	1050.1	1048.8	1050.1	1051.5	1046.0	1027.3	980.1	895.3	771.5



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1038.0	1054.7	1059.8	1060.1	1059.8	1054.7	1038.0	1003.5	943.0	847.9	721.3
115°	994.9	1024.5	1038.0	1041.4	1038.0	1024.5	994.9	944.4	871.1	772.1	655.0
117.5°	923.9	957.9	977.2	981.9	977.2	957.9	923.9	871.3	796.9	708.0	606.9
120°	874.4	912.1	928.2	932.3	928.2	912.1	874.4	821.2	753.3	672.4	581.6
122.5°	829.1	863.1	880.9	886.0	880.9	863.1	829.1	782.0	718.8	643.9	561.7
125°	770.1	799.7	816.5	821.2	816.5	799.7	770.1	727.0	673.1	608.6	535.1
127.5°	723.1	748.4	763.6	767.9	763.6	748.4	723.1	684.8	635.8	577.4	512.0
130°	694.1	718.2	732.4	737.8	732.4	718.2	694.1	658.3	612.6	558.0	497.5
132.5°	667.6	691.9	704.4	708.2	704.4	691.9	667.6	634.1	590.5	539.8	484.0
135°	628.7	648.9	661.0	665.7	661.0	648.9	628.7	595.7	557.3	513.6	465.8
137.5°	587.1	607.6	617.9	621.0	617.9	607.6	587.1	559.4	526.2	488.4	449.3
140°	560.8	579.5	590.4	589.7	590.4	579.5	560.8	535.1	506.2	473.9	439.5
142.5°	534.9	551.6	561.3	560.6	561.3	551.6	534.9	513.1	487.9	459.9	430.4
145°	499.5	513.6	519.0	520.3	519.0	513.6	499.5	482.7	463.1	441.6	419.4
147.5°	472.0	481.6	486.7	487.2	486.7	481.6	472.0	459.3	445.4	428.0	410.4
150°	456.4	463.8	467.9	467.9	467.9	463.8	456.4	446.3	433.5	419.4	403.9
152.5°	442.4	449.3	451.7	451.7	451.7	449.3	442.4	434.5	423.8	411.3	398.0
155°	424.0	429.5	430.8	431.4	430.8	429.5	424.0	418.0	409.9	399.8	389.1
157.5°	408.0	412.1	413.2	413.0	413.2	412.1	408.0	402.8	396.5	388.7	379.6
160°	397.9	401.8	401.8	401.2	401.8	401.8	397.9	393.1	388.4	381.7	374.3
162.5°	387.6	391.1	391.1	390.5	391.1	391.1	387.6	384.5	380.3	374.1	367.8
165°	374.3	376.9	376.3	376.3	376.3	376.9	374.3	371.6	368.2	363.5	359.5
167.5°	361.6	363.5	362.8	362.8	362.8	363.5	361.6	360.4	358.0	355.2	352.1
170°	354.0	355.4	354.7	354.7	354.7	355.4	354.0	353.4	352.1	349.4	347.3
172.5°	347.6	349.0	347.8	347.2	347.8	349.0	347.6	347.5	346.6	344.5	343.0
175°	339.2	339.9	339.2	338.6	339.2	339.9	339.2	339.2	339.2	337.9	337.3
177.5°	334.2	334.7	333.6	333.6	333.6	334.7	334.2	334.7	334.7	334.2	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	14.6	14.7	13.8	13.9	13.0	13.1	12.3	12.6	12.7	12.5	13.3
90°	16.2	16.8	14.8	12.8	10.8	8.8	7.4	6.0	4.0	2.7	1.4
92.5°	78.1	103.5	113.9	85.5	56.6	38.9	28.9	23.3	18.1	12.4	8.4
95°	323.8	399.2	355.4	245.0	144.7	87.5	61.2	43.7	32.3	24.9	22.9
97.5°	661.9	618.6	452.9	268.9	155.8	101.1	72.7	55.4	45.5	39.7	39.0
100°	770.1	637.5	430.8	253.7	154.1	107.0	80.8	64.7	55.2	50.5	49.9
102.5°	775.5	602.4	398.5	240.8	156.3	114.0	90.0	75.4	66.5	62.3	61.1
105°	734.4	541.2	358.8	231.5	162.2	125.9	105.0	92.2	84.1	80.1	78.1
107.5°	662.5	487.1	333.5	230.9	173.2	141.4	122.0	109.9	102.0	98.2	96.1
110°	617.3	456.4	323.8	233.6	182.4	152.1	133.3	121.8	114.4	111.1	109.1



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	578.0	435.9	318.4	238.9	191.6	163.4	145.2	133.7	126.3	123.0	120.9
115°	530.5	414.0	316.4	247.7	206.6	181.1	162.9	151.4	144.7	140.7	138.0
117.5°	501.8	401.1	317.6	259.3	222.7	197.3	180.6	167.7	161.5	158.2	155.1
120°	486.7	395.1	319.8	267.9	232.9	208.7	191.8	179.1	172.3	168.9	166.9
122.5°	474.3	391.4	323.5	276.0	243.7	220.0	202.1	189.9	182.5	179.2	177.2
125°	458.4	386.4	329.2	288.8	259.2	235.6	217.4	204.7	197.3	193.2	191.8
127.5°	444.4	384.0	335.6	299.3	272.6	249.9	231.7	217.6	210.0	205.0	203.0
130°	436.9	382.4	339.9	306.3	280.7	258.5	240.3	226.2	218.1	212.1	210.0
132.5°	429.9	381.8	343.2	312.7	287.7	266.0	248.4	234.3	224.5	218.0	215.4
135°	420.7	381.0	348.0	321.1	298.2	277.3	259.2	245.0	235.0	227.6	224.8
137.5°	412.8	379.5	351.3	327.3	305.5	285.4	268.5	254.6	243.8	236.5	233.7
140°	407.9	379.0	353.4	330.5	310.3	290.8	274.0	260.5	249.8	243.0	239.6
142.5°	403.6	377.9	355.0	333.7	314.1	295.1	279.4	265.9	256.2	248.9	246.1
145°	397.9	376.3	356.1	337.3	319.1	301.6	286.1	274.7	264.6	258.5	256.5
147.5°	392.2	373.8	356.1	339.4	323.1	307.1	293.9	282.8	274.1	268.2	267.0
150°	388.4	371.6	356.1	339.9	325.8	310.3	298.2	288.8	280.0	274.7	274.0
152.5°	384.1	368.9	354.5	341.0	327.4	314.1	302.5	294.2	286.5	281.1	280.9
155°	377.6	364.2	352.8	341.3	330.5	319.1	309.6	302.2	295.5	291.4	291.4
157.5°	370.4	360.0	350.4	342.0	332.3	323.1	315.8	309.5	303.6	300.3	299.8
160°	365.5	356.8	349.4	342.0	333.9	325.8	319.1	314.4	309.0	306.3	306.3
162.5°	360.7	353.5	347.2	341.4	334.4	327.4	321.8	317.6	313.3	311.2	311.2
165°	354.0	348.7	344.0	339.9	335.2	329.8	325.1	322.4	319.1	317.7	318.4
167.5°	347.8	343.9	340.8	338.9	335.1	331.2	328.2	326.3	323.8	323.1	323.9
170°	344.0	340.6	338.6	337.3	334.6	331.2	329.8	328.5	326.5	325.8	327.2
172.5°	340.2	337.9	337.0	336.7	334.6	331.7	330.9	330.1	328.6	328.5	329.3
175°	335.9	334.6	334.6	335.2	333.9	332.5	331.8	331.8	330.5	331.2	331.8
177.5°	333.0	332.5	333.0	334.2	333.0	332.5	332.5	332.5	332.0	332.5	333.0
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P332065-935

CATALOG NUMBER: S123DIP-S1165D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.6	14.9	16.9	18.3	20.7	22.7	22.6	21.9	21.8	21.1	20.7
90°	2.7	4.0	6.0	7.4	8.8	10.8	12.8	14.8	16.8	16.2	16.8
92.5°	12.4	18.1	23.3	28.9	38.9	56.6	85.5	113.9	103.5	78.1	56.7
95°	24.9	32.3	43.7	61.2	87.5	144.7	245.0	355.4	399.2	323.8	242.4
97.5°	39.7	45.5	55.4	72.7	101.1	155.8	268.9	452.9	618.6	661.9	604.1
100°	50.5	55.2	64.7	80.8	107.0	154.1	253.7	430.8	637.5	770.1	793.7
102.5°	62.3	66.5	75.4	90.0	114.0	156.3	240.8	398.5	602.4	775.5	856.6
105°	80.1	84.1	92.2	105.0	125.9	162.2	231.5	358.8	541.2	734.4	875.1
107.5°	98.2	102.0	109.9	122.0	141.4	173.2	230.9	333.5	487.1	662.5	822.1
110°	111.1	114.4	121.8	133.3	152.1	182.4	233.6	323.8	456.4	617.3	771.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	126.3	133.7	145.2	163.4	191.6	238.9	318.4	435.9	578.0	721.3
115°	140.7	144.7	151.4	162.9	181.1	206.6	247.7	316.4	414.0	530.5	655.0
117.5°	158.2	161.5	167.7	180.6	197.3	222.7	259.3	317.6	401.1	501.8	606.9
120°	168.9	172.3	179.1	191.8	208.7	232.9	267.9	319.8	395.1	486.7	581.6
122.5°	179.2	182.5	189.9	202.1	220.0	243.7	276.0	323.5	391.4	474.3	561.7
125°	193.2	197.3	204.7	217.4	235.6	259.2	288.8	329.2	386.4	458.4	535.1
127.5°	205.0	210.0	217.6	231.7	249.9	272.6	299.3	335.6	384.0	444.4	512.0
130°	212.1	218.1	226.2	240.3	258.5	280.7	306.3	339.9	382.4	436.9	497.5
132.5°	218.0	224.5	234.3	248.4	266.0	287.7	312.7	343.2	381.8	429.9	484.0
135°	227.6	235.0	245.0	259.2	277.3	298.2	321.1	348.0	381.0	420.7	465.8
137.5°	236.5	243.8	254.6	268.5	285.4	305.5	327.3	351.3	379.5	412.8	449.3
140°	243.0	249.8	260.5	274.0	290.8	310.3	330.5	353.4	379.0	407.9	439.5
142.5°	248.9	256.2	265.9	279.4	295.1	314.1	333.7	355.0	377.9	403.6	430.4
145°	258.5	264.6	274.7	286.1	301.6	319.1	337.3	356.1	376.3	397.9	419.4
147.5°	268.2	274.1	282.8	293.9	307.1	323.1	339.4	356.1	373.8	392.2	410.4
150°	274.7	280.0	288.8	298.2	310.3	325.8	339.9	356.1	371.6	388.4	403.9
152.5°	281.1	286.5	294.2	302.5	314.1	327.4	341.0	354.5	368.9	384.1	398.0
155°	291.4	295.5	302.2	309.6	319.1	330.5	341.3	352.8	364.2	377.6	389.1
157.5°	300.3	303.6	309.5	315.8	323.1	332.3	342.0	350.4	360.0	370.4	379.6
160°	306.3	309.0	314.4	319.1	325.8	333.9	342.0	349.4	356.8	365.5	374.3
162.5°	311.2	313.3	317.6	321.8	327.4	334.4	341.4	347.2	353.5	360.7	367.8
165°	317.7	319.1	322.4	325.1	329.8	335.2	339.9	344.0	348.7	354.0	359.5
167.5°	323.1	323.8	326.3	328.2	331.2	335.1	338.9	340.8	343.9	347.8	352.1
170°	325.8	326.5	328.5	329.8	331.2	334.6	337.3	338.6	340.6	344.0	347.3
172.5°	328.5	328.6	330.1	330.9	331.7	334.6	336.7	337.0	337.9	340.2	343.0
175°	331.2	330.5	331.8	331.8	332.5	333.9	335.2	334.6	334.6	335.9	337.3
177.5°	332.5	332.0	332.5	332.5	332.5	333.0	334.2	333.0	332.5	333.0	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	20.3	19.9	19.6	20.0	19.6	19.2	20.1
90°	17.5	18.2	19.5	18.9	19.5	20.2	19.5
92.5°	44.9	39.7	36.2	35.0	33.0	33.7	32.5
95°	164.3	128.5	104.4	91.5	85.5	80.8	78.1
97.5°	483.9	397.0	316.5	266.8	236.5	218.3	212.6
100°	739.1	660.4	564.7	496.8	447.6	421.4	422.1
102.5°	854.9	809.0	748.4	695.5	656.6	634.6	619.1
105°	942.4	955.2	937.7	906.7	881.1	859.6	856.3
107.5°	931.3	990.3	1014.3	1014.9	1006.3	998.9	992.7
110°	895.3	980.1	1027.3	1046.0	1051.5	1050.1	1048.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	847.9	943.0	1003.5	1038.0	1054.7	1059.8	1060.1
115°	772.1	871.1	944.4	994.9	1024.5	1038.0	1041.4
117.5°	708.0	796.9	871.3	923.9	957.9	977.2	981.9
120°	672.4	753.3	821.2	874.4	912.1	928.2	932.3
122.5°	643.9	718.8	782.0	829.1	863.1	880.9	886.0
125°	608.6	673.1	727.0	770.1	799.7	816.5	821.2
127.5°	577.4	635.8	684.8	723.1	748.4	763.6	767.9
130°	558.0	612.6	658.3	694.1	718.2	732.4	737.8
132.5°	539.8	590.5	634.1	667.6	691.9	704.4	708.2
135°	513.6	557.3	595.7	628.7	648.9	661.0	665.7
137.5°	488.4	526.2	559.4	587.1	607.6	617.9	621.0
140°	473.9	506.2	535.1	560.8	579.5	590.4	589.7
142.5°	459.9	487.9	513.1	534.9	551.6	561.3	560.6
145°	441.6	463.1	482.7	499.5	513.6	519.0	520.3
147.5°	428.0	445.4	459.3	472.0	481.6	486.7	487.2
150°	419.4	433.5	446.3	456.4	463.8	467.9	467.9
152.5°	411.3	423.8	434.5	442.4	449.3	451.7	451.7
155°	399.8	409.9	418.0	424.0	429.5	430.8	431.4
157.5°	388.7	396.5	402.8	408.0	412.1	413.2	413.0
160°	381.7	388.4	393.1	397.9	401.8	401.8	401.2
162.5°	374.1	380.3	384.5	387.6	391.1	391.1	390.5
165°	363.5	368.2	371.6	374.3	376.9	376.3	376.3
167.5°	355.2	358.0	360.4	361.6	363.5	362.8	362.8
170°	349.4	352.1	353.4	354.0	355.4	354.7	354.7
172.5°	344.5	346.6	347.5	347.6	349.0	347.8	347.2
175°	337.9	339.2	339.2	339.2	339.9	339.2	338.6
177.5°	334.2	334.7	334.7	334.2	334.7	333.6	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5

(END OF REPORT)