

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: P332055-940

Luminaire Tested: **S123DIP-S1165D585U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332055-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D585U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6161.6 lumens
Efficiency: N/A
Efficacy: 111.8 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

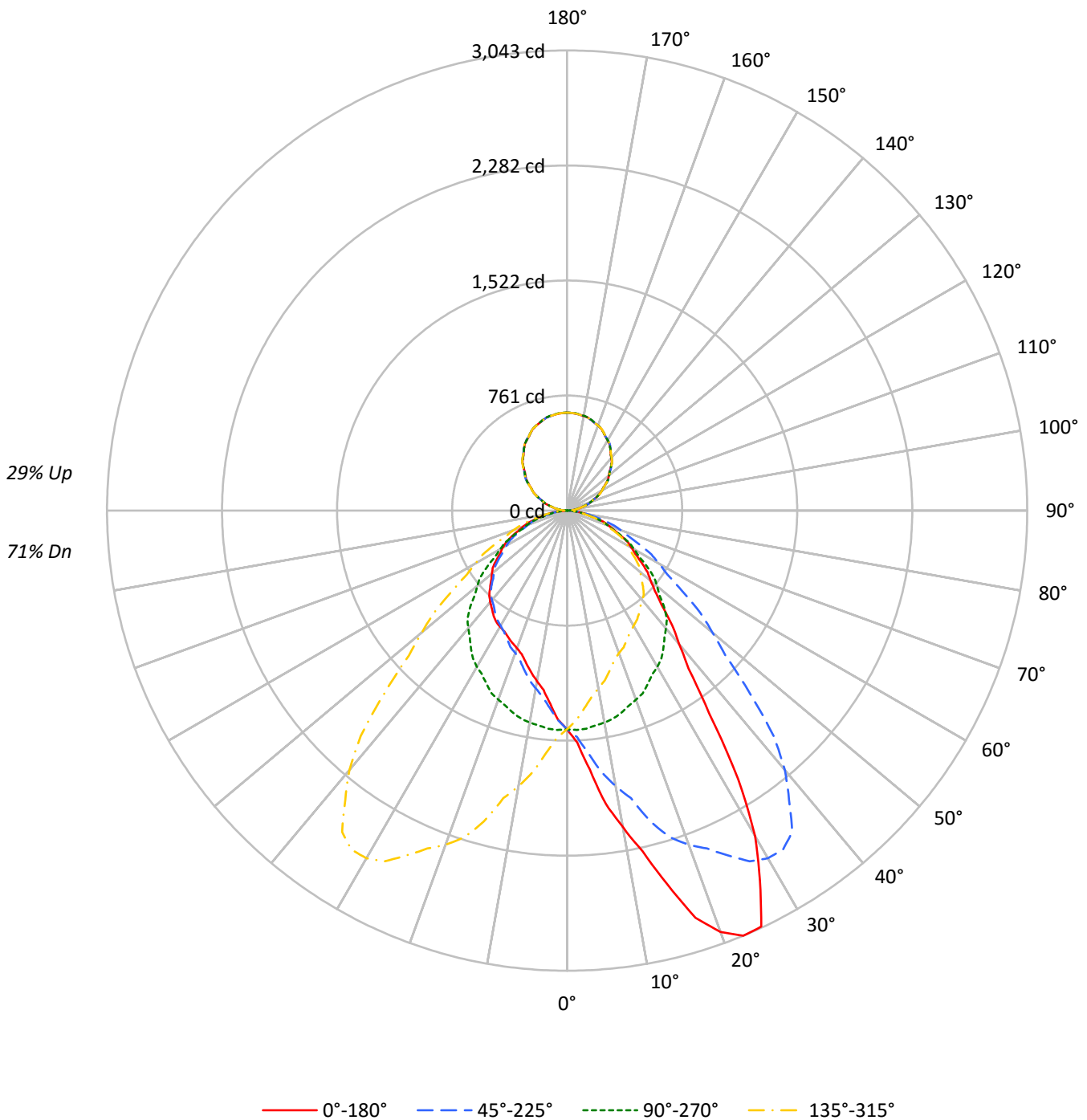
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	75	75	75	71		
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	64	64	64	61		
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	55	55	55	51		
3	86	76	69	63	81	73	66	61	66	60	56	59	55	51	53	50	47	47	47	47	47	47	47	44		
4	79	68	60	54	74	65	57	52	59	53	48	53	48	44	48	44	41	41	41	41	41	41	41	38		
5	73	61	52	46	69	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	36	36	36	33		
6	67	55	46	40	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	32	32	32	29		
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	36	31	28	28	28	28	28	28	28	26		
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	25	25	25	25	25	25	23		
9	54	41	34	28	51	40	33	28	36	30	26	33	28	24	30	26	23	23	23	23	23	23	23	21		
10	50	38	31	26	48	36	30	25	34	28	24	31	26	22	28	24	21	21	21	21	21	21	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.3
10°-20°	456.9	7.4
20°-30°	766.8	12.4
30°-40°	868.3	14.1
40°-50°	778.6	12.6
50°-60°	628.3	10.2
60°-70°	437.9	7.1
70°-80°	230.1	3.7
80°-90°	58.2	0.9
90°-100°	42.2	0.7
100°-110°	126.2	2.0
110°-120°	214.7	3.5
120°-130°	282.4	4.6
130°-140°	317.5	5.2
140°-150°	312.1	5.1
150°-160°	262.7	4.3
160°-170°	174.9	2.8
170°-180°	61.2	1.0
0°-30°	1366.2	22.2
0°-40°	2234.5	36.3
0°-60°	3641.5	59.1
0°-90°	4367.7	70.9
90°-120°	383.2	6.2
90°-150°	1295.1	21.0
90°-180°	1794.0	29.1
0°-180°	6161.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	15	0	15	0	15	10
95°	40	30	40	30	40	41
105°	121	114	121	114	121	128
115°	217	216	217	216	217	215
125°	313	316	313	316	313	280
135°	410	410	410	410	410	315
145°	498	498	498	498	498	311
155°	569	570	569	570	569	262
165°	619	621	619	621	619	175
175°	643	646	643	646	643	61
180°	648	648	648	648	648	



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	19.9	18.7	19.3	19.7	19.2	19.6	20.1	20.6	21.0	21.5	21.8
90°	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1	12.7	12.2	10.7
92.5°	20.5	20.7	20.8	21.0	21.1	21.0	20.6	20.2	19.9	19.5	18.7
95°	39.7	39.7	39.7	39.7	39.7	39.4	39.0	38.5	38.1	37.6	36.7
97.5°	61.0	61.1	61.1	61.2	61.2	61.0	60.5	59.9	59.4	58.9	58.2
100°	77.3	77.0	76.9	76.6	76.4	76.2	75.8	75.4	75.1	74.7	74.2
102.5°	94.0	94.1	94.1	94.2	94.2	94.0	93.7	93.4	93.0	92.6	91.9
105°	121.1	120.8	120.6	120.4	120.1	120.0	120.0	120.0	120.0	120.0	119.0
107.5°	149.3	149.4	149.5	149.6	149.8	149.6	149.3	148.9	148.6	148.2	147.8
110°	168.4	168.6	168.8	169.1	169.2	169.2	168.7	168.3	167.8	167.4	167.1



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	188.7	188.8	188.8	188.9	188.9	188.6	188.1	187.5	187.0	186.5	186.5
115°	216.7	216.8	216.9	217.0	217.1	217.1	217.0	216.9	216.8	216.7	216.9
117.5°	245.0	245.4	245.7	246.0	246.3	246.5	246.5	246.6	246.6	246.6	246.9
120°	265.0	265.2	265.5	265.6	265.9	266.1	266.2	266.3	266.4	266.5	267.1
122.5°	284.1	284.5	284.7	285.1	285.3	285.7	286.0	286.2	286.6	286.9	287.1
125°	312.8	313.3	313.7	314.1	314.6	315.0	315.5	315.9	316.4	316.9	317.1
127.5°	341.3	341.9	342.4	343.0	343.5	344.0	344.6	345.3	346.0	346.6	346.8
130°	360.1	360.9	361.7	362.5	363.3	363.9	364.4	364.8	365.2	365.7	366.0
132.5°	379.6	380.2	380.8	381.5	382.1	382.6	383.2	383.7	384.2	384.9	385.0
135°	409.9	410.2	410.4	410.6	410.8	411.2	411.6	412.1	412.6	413.0	413.1
137.5°	436.7	437.1	437.6	438.0	438.5	438.9	439.3	439.8	440.3	440.8	440.5
140°	454.2	455.0	455.8	456.6	457.4	457.8	457.9	458.1	458.2	458.3	458.2
142.5°	472.1	472.7	473.3	473.9	474.6	474.9	475.0	475.1	475.3	475.4	475.2
145°	497.9	498.4	498.8	499.3	499.7	500.1	500.2	500.2	500.3	500.5	500.2
147.5°	520.9	521.7	522.3	523.0	523.6	524.0	524.0	524.0	524.0	524.0	523.7
150°	535.6	536.3	536.9	537.6	538.3	538.6	538.6	538.6	538.6	538.6	538.4
152.5°	549.8	550.5	551.0	551.6	552.1	552.4	552.2	552.1	551.8	551.6	551.5
155°	569.2	570.0	570.7	571.5	572.3	572.5	572.0	571.6	571.1	570.7	570.6
157.5°	586.7	587.4	588.0	588.6	589.2	589.3	588.9	588.4	587.9	587.5	587.4
160°	598.2	598.6	599.1	599.5	599.9	599.9	599.3	598.8	598.2	597.6	597.6
162.5°	606.7	607.4	608.1	608.9	609.6	609.7	609.1	608.5	608.0	607.4	607.3
165°	619.0	619.8	620.5	621.3	622.1	622.2	621.5	620.9	620.2	619.5	619.5
167.5°	629.5	630.2	630.9	631.6	632.3	632.3	631.6	630.9	630.2	629.5	629.4
170°	634.7	635.5	636.3	637.1	637.9	637.9	637.1	636.3	635.5	634.7	634.7
172.5°	638.8	639.6	640.4	641.2	642.0	642.0	641.3	640.6	640.0	639.3	639.3
175°	643.4	644.2	645.0	645.8	646.6	646.7	646.0	645.2	644.6	643.9	643.9
177.5°	645.9	646.5	647.1	647.7	648.4	648.5	647.9	647.4	646.8	646.2	646.2
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	22.6	22.8	20.9	18.4	17.0	15.2	14.9	13.6	12.7	12.9	12.6
90°	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5	1.6	2.8	3.9
92.5°	17.8	17.0	16.2	15.4	14.6	13.8	13.1	12.3	13.1	13.8	14.6
95°	35.8	35.0	34.1	33.2	32.4	31.6	30.8	30.1	30.8	31.6	32.4
97.5°	57.6	56.9	56.3	55.6	55.1	54.5	53.9	53.3	53.9	54.5	55.1
100°	73.7	73.0	72.5	71.9	71.2	70.5	69.8	69.2	69.8	70.5	71.2
102.5°	91.2	90.4	89.7	89.1	88.7	88.3	87.9	87.5	87.9	88.3	88.7
105°	118.0	117.0	115.9	115.4	115.1	114.9	114.7	114.4	114.7	114.9	115.1
107.5°	147.4	147.0	146.6	146.3	146.2	146.1	145.9	145.8	145.9	146.1	146.2
110°	166.9	166.7	166.4	166.2	165.9	165.8	165.5	165.3	165.5	165.8	165.9



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	186.4	186.4	186.3	186.2	186.0	185.9	185.7	185.7	185.7	185.9	186.0
115°	217.1	217.3	217.6	217.5	217.2	216.9	216.5	216.2	216.5	216.9	217.2
117.5°	247.2	247.4	247.7	247.8	247.5	247.4	247.1	246.9	247.1	247.4	247.5
120°	267.7	268.2	268.8	268.8	268.0	267.3	266.7	266.0	266.7	267.3	268.0
122.5°	287.5	287.8	288.0	287.9	287.4	287.0	286.4	286.0	286.4	287.0	287.4
125°	317.4	317.5	317.8	317.7	317.4	317.0	316.7	316.4	316.7	317.0	317.4
127.5°	347.1	347.3	347.6	347.3	346.6	345.9	345.2	344.5	345.2	345.9	346.6
130°	366.4	366.8	367.0	366.8	365.9	365.0	364.1	363.2	364.1	365.0	365.9
132.5°	385.3	385.6	385.8	385.5	384.6	383.7	382.8	381.8	382.8	383.7	384.6
135°	413.2	413.3	413.5	413.1	412.5	411.8	411.2	410.5	411.2	411.8	412.5
137.5°	440.1	439.9	439.6	439.2	438.6	438.0	437.5	436.9	437.5	438.0	438.6
140°	458.1	457.9	457.8	457.4	456.9	456.4	455.8	455.2	455.8	456.4	456.9
142.5°	474.9	474.7	474.6	474.1	473.6	473.1	472.4	471.9	472.4	473.1	473.6
145°	499.8	499.4	499.1	498.8	498.6	498.4	498.2	497.9	498.2	498.4	498.6
147.5°	523.3	523.1	522.7	522.4	521.9	521.6	521.1	520.8	521.1	521.6	521.9
150°	538.1	538.0	537.7	537.5	537.3	537.1	536.8	536.6	536.8	537.1	537.3
152.5°	551.3	551.3	551.1	550.9	550.5	550.3	549.9	549.7	549.9	550.3	550.5
155°	570.4	570.3	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
157.5°	587.3	587.2	587.1	587.1	587.3	587.4	587.5	587.6	587.5	587.4	587.3
160°	597.6	597.6	597.6	597.7	598.0	598.2	598.4	598.6	598.4	598.2	598.0
162.5°	607.3	607.2	607.1	607.2	607.4	607.8	608.1	608.4	608.1	607.8	607.4
165°	619.5	619.5	619.5	619.6	620.0	620.4	620.7	621.0	620.7	620.4	620.0
167.5°	629.3	629.2	629.1	629.3	629.7	630.2	630.6	631.1	630.6	630.2	629.7
170°	634.7	634.7	634.7	635.0	635.4	635.9	636.3	636.8	636.3	635.9	635.4
172.5°	639.3	639.3	639.3	639.4	639.9	640.3	640.8	641.2	640.8	640.3	639.9
175°	643.9	643.9	643.9	644.2	644.6	645.1	645.5	646.0	645.5	645.1	644.6
177.5°	646.2	646.2	646.2	646.4	646.8	647.2	647.6	647.9	647.6	647.2	646.8
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	12.2	13.0	12.8	13.6	13.4	14.2	14.3	13.3	13.4	15.2	12.9
90°	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1	13.6	14.0	14.4
92.5°	15.4	16.2	17.0	17.8	18.7	19.5	19.9	20.2	20.6	21.0	21.1
95°	33.2	34.1	35.0	35.8	36.7	37.6	38.1	38.5	39.0	39.4	39.7
97.5°	55.6	56.3	56.9	57.6	58.2	58.9	59.4	59.9	60.5	61.0	61.2
100°	71.9	72.5	73.0	73.7	74.2	74.7	75.1	75.4	75.8	76.2	76.4
102.5°	89.1	89.7	90.4	91.2	91.9	92.6	93.0	93.4	93.7	94.0	94.2
105°	115.4	115.9	117.0	118.0	119.0	120.0	120.0	120.0	120.0	120.0	120.1
107.5°	146.3	146.6	147.0	147.4	147.8	148.2	148.6	148.9	149.3	149.6	149.8
110°	166.2	166.4	166.7	166.9	167.1	167.4	167.8	168.3	168.7	169.2	169.2



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	186.2	186.3	186.4	186.4	186.5	186.5	187.0	187.5	188.1	188.6	188.9
115°	217.5	217.6	217.3	217.1	216.9	216.7	216.8	216.9	217.0	217.1	217.1
117.5°	247.8	247.7	247.4	247.2	246.9	246.6	246.6	246.6	246.5	246.5	246.3
120°	268.8	268.8	268.2	267.7	267.1	266.5	266.4	266.3	266.2	266.1	265.9
122.5°	287.9	288.0	287.8	287.5	287.1	286.9	286.6	286.2	286.0	285.7	285.3
125°	317.7	317.8	317.5	317.4	317.1	316.9	316.4	315.9	315.5	315.0	314.6
127.5°	347.3	347.6	347.3	347.1	346.8	346.6	346.0	345.3	344.6	344.0	343.5
130°	366.8	367.0	366.8	366.4	366.0	365.7	365.2	364.8	364.4	363.9	363.3
132.5°	385.5	385.8	385.6	385.3	385.0	384.9	384.2	383.7	383.2	382.6	382.1
135°	413.1	413.5	413.3	413.2	413.1	413.0	412.6	412.1	411.6	411.2	410.8
137.5°	439.2	439.6	439.9	440.1	440.5	440.8	440.3	439.8	439.3	438.9	438.5
140°	457.4	457.8	457.9	458.1	458.2	458.3	458.2	458.1	457.9	457.8	457.4
142.5°	474.1	474.6	474.7	474.9	475.2	475.4	475.3	475.1	475.0	474.9	474.6
145°	498.8	499.1	499.4	499.8	500.2	500.5	500.3	500.2	500.2	500.1	499.7
147.5°	522.4	522.7	523.1	523.3	523.7	524.0	524.0	524.0	524.0	524.0	523.6
150°	537.5	537.7	538.0	538.1	538.4	538.6	538.6	538.6	538.6	538.6	538.3
152.5°	550.9	551.1	551.3	551.3	551.5	551.6	551.8	552.1	552.2	552.4	552.1
155°	570.2	570.2	570.3	570.4	570.6	570.7	571.1	571.6	572.0	572.5	572.3
157.5°	587.1	587.1	587.2	587.3	587.4	587.5	587.9	588.4	588.9	589.3	589.2
160°	597.7	597.6	597.6	597.6	597.6	597.6	598.2	598.8	599.3	599.9	599.9
162.5°	607.2	607.1	607.2	607.3	607.3	607.4	608.0	608.5	609.1	609.7	609.6
165°	619.6	619.5	619.5	619.5	619.5	619.5	620.2	620.9	621.5	622.2	622.1
167.5°	629.3	629.1	629.2	629.3	629.4	629.5	630.2	630.9	631.6	632.3	632.3
170°	635.0	634.7	634.7	634.7	634.7	634.7	635.5	636.3	637.1	637.9	637.9
172.5°	639.4	639.3	639.3	639.3	639.3	639.3	640.0	640.6	641.3	642.0	642.0
175°	644.2	643.9	643.9	643.9	643.9	643.9	644.6	645.2	646.0	646.7	646.6
177.5°	646.4	646.2	646.2	646.2	646.2	646.2	646.8	647.4	647.9	648.5	648.4
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	13.0	13.0	12.6	12.0	12.6	13.0	13.0	12.9	15.2	13.4	13.3
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1
92.5°	21.0	20.8	20.7	20.5	20.7	20.8	21.0	21.1	21.0	20.6	20.2
95°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.4	39.0	38.5
97.5°	61.2	61.1	61.1	61.0	61.1	61.1	61.2	61.2	61.0	60.5	59.9
100°	76.6	76.9	77.0	77.3	77.0	76.9	76.6	76.4	76.2	75.8	75.4
102.5°	94.2	94.1	94.1	94.0	94.1	94.1	94.2	94.2	94.0	93.7	93.4
105°	120.4	120.6	120.8	121.1	120.8	120.6	120.4	120.1	120.0	120.0	120.0
107.5°	149.6	149.5	149.4	149.3	149.4	149.5	149.6	149.8	149.6	149.3	148.9
110°	169.1	168.8	168.6	168.4	168.6	168.8	169.1	169.2	169.2	168.7	168.3



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	188.9	188.8	188.8	188.7	188.8	188.8	188.9	188.9	188.6	188.1	187.5
115°	217.0	216.9	216.8	216.7	216.8	216.9	217.0	217.1	217.1	217.0	216.9
117.5°	246.0	245.7	245.4	245.0	245.4	245.7	246.0	246.3	246.5	246.5	246.6
120°	265.6	265.5	265.2	265.0	265.2	265.5	265.6	265.9	266.1	266.2	266.3
122.5°	285.1	284.7	284.5	284.1	284.5	284.7	285.1	285.3	285.7	286.0	286.2
125°	314.1	313.7	313.3	312.8	313.3	313.7	314.1	314.6	315.0	315.5	315.9
127.5°	343.0	342.4	341.9	341.3	341.9	342.4	343.0	343.5	344.0	344.6	345.3
130°	362.5	361.7	360.9	360.1	360.9	361.7	362.5	363.3	363.9	364.4	364.8
132.5°	381.5	380.8	380.2	379.6	380.2	380.8	381.5	382.1	382.6	383.2	383.7
135°	410.6	410.4	410.2	409.9	410.2	410.4	410.6	410.8	411.2	411.6	412.1
137.5°	438.0	437.6	437.1	436.7	437.1	437.6	438.0	438.5	438.9	439.3	439.8
140°	456.6	455.8	455.0	454.2	455.0	455.8	456.6	457.4	457.8	457.9	458.1
142.5°	473.9	473.3	472.7	472.1	472.7	473.3	473.9	474.6	474.9	475.0	475.1
145°	499.3	498.8	498.4	497.9	498.4	498.8	499.3	499.7	500.1	500.2	500.2
147.5°	523.0	522.3	521.7	520.9	521.7	522.3	523.0	523.6	524.0	524.0	524.0
150°	537.6	536.9	536.3	535.6	536.3	536.9	537.6	538.3	538.6	538.6	538.6
152.5°	551.6	551.0	550.5	549.8	550.5	551.0	551.6	552.1	552.4	552.2	552.1
155°	571.5	570.7	570.0	569.2	570.0	570.7	571.5	572.3	572.5	572.0	571.6
157.5°	588.6	588.0	587.4	586.7	587.4	588.0	588.6	589.2	589.3	588.9	588.4
160°	599.5	599.1	598.6	598.2	598.6	599.1	599.5	599.9	599.9	599.3	598.8
162.5°	608.9	608.1	607.4	606.7	607.4	608.1	608.9	609.6	609.7	609.1	608.5
165°	621.3	620.5	619.8	619.0	619.8	620.5	621.3	622.1	622.2	621.5	620.9
167.5°	631.6	630.9	630.2	629.5	630.2	630.9	631.6	632.3	632.3	631.6	630.9
170°	637.1	636.3	635.5	634.7	635.5	636.3	637.1	637.9	637.9	637.1	636.3
172.5°	641.2	640.4	639.6	638.8	639.6	640.4	641.2	642.0	642.0	641.3	640.6
175°	645.8	645.0	644.2	643.4	644.2	645.0	645.8	646.6	646.7	646.0	645.2
177.5°	647.7	647.1	646.5	645.9	646.5	647.1	647.7	648.4	648.5	647.9	647.4
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	14.3	14.2	13.4	13.6	12.8	13.0	12.2	12.6	12.9	12.7	13.6
90°	12.7	12.2	10.7	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5
92.5°	19.9	19.5	18.7	17.8	17.0	16.2	15.4	14.6	13.8	13.1	12.3
95°	38.1	37.6	36.7	35.8	35.0	34.1	33.2	32.4	31.6	30.8	30.1
97.5°	59.4	58.9	58.2	57.6	56.9	56.3	55.6	55.1	54.5	53.9	53.3
100°	75.1	74.7	74.2	73.7	73.0	72.5	71.9	71.2	70.5	69.8	69.2
102.5°	93.0	92.6	91.9	91.2	90.4	89.7	89.1	88.7	88.3	87.9	87.5
105°	120.0	120.0	119.0	118.0	117.0	115.9	115.4	115.1	114.9	114.7	114.4
107.5°	148.6	148.2	147.8	147.4	147.0	146.6	146.3	146.2	146.1	145.9	145.8
110°	167.8	167.4	167.1	166.9	166.7	166.4	166.2	165.9	165.8	165.5	165.3



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	187.0	186.5	186.5	186.4	186.4	186.3	186.2	186.0	185.9	185.7	185.7
115°	216.8	216.7	216.9	217.1	217.3	217.6	217.5	217.2	216.9	216.5	216.2
117.5°	246.6	246.6	246.9	247.2	247.4	247.7	247.8	247.5	247.4	247.1	246.9
120°	266.4	266.5	267.1	267.7	268.2	268.8	268.8	268.0	267.3	266.7	266.0
122.5°	286.6	286.9	287.1	287.5	287.8	288.0	287.9	287.4	287.0	286.4	286.0
125°	316.4	316.9	317.1	317.4	317.5	317.8	317.7	317.4	317.0	316.7	316.4
127.5°	346.0	346.6	346.8	347.1	347.3	347.6	347.3	346.6	345.9	345.2	344.5
130°	365.2	365.7	366.0	366.4	366.8	367.0	366.8	365.9	365.0	364.1	363.2
132.5°	384.2	384.9	385.0	385.3	385.6	385.8	385.5	384.6	383.7	382.8	381.8
135°	412.6	413.0	413.1	413.2	413.3	413.5	413.1	412.5	411.8	411.2	410.5
137.5°	440.3	440.8	440.5	440.1	439.9	439.6	439.2	438.6	438.0	437.5	436.9
140°	458.2	458.3	458.2	458.1	457.9	457.8	457.4	456.9	456.4	455.8	455.2
142.5°	475.3	475.4	475.2	474.9	474.7	474.6	474.1	473.6	473.1	472.4	471.9
145°	500.3	500.5	500.2	499.8	499.4	499.1	498.8	498.6	498.4	498.2	497.9
147.5°	524.0	524.0	523.7	523.3	523.1	522.7	522.4	521.9	521.6	521.1	520.8
150°	538.6	538.6	538.4	538.1	538.0	537.7	537.5	537.3	537.1	536.8	536.6
152.5°	551.8	551.6	551.5	551.3	551.3	551.1	550.9	550.5	550.3	549.9	549.7
155°	571.1	570.7	570.6	570.4	570.3	570.2	570.2	570.2	570.2	570.2	570.2
157.5°	587.9	587.5	587.4	587.3	587.2	587.1	587.1	587.3	587.4	587.5	587.6
160°	598.2	597.6	597.6	597.6	597.6	597.6	597.7	598.0	598.2	598.4	598.6
162.5°	608.0	607.4	607.3	607.3	607.2	607.1	607.2	607.4	607.8	608.1	608.4
165°	620.2	619.5	619.5	619.5	619.5	619.5	619.6	620.0	620.4	620.7	621.0
167.5°	630.2	629.5	629.4	629.3	629.2	629.1	629.3	629.7	630.2	630.6	631.1
170°	635.5	634.7	634.7	634.7	634.7	634.7	635.0	635.4	635.9	636.3	636.8
172.5°	640.0	639.3	639.3	639.3	639.3	639.3	639.4	639.9	640.3	640.8	641.2
175°	644.6	643.9	643.9	643.9	643.9	643.9	644.2	644.6	645.1	645.5	646.0
177.5°	646.8	646.2	646.2	646.2	646.2	646.2	646.4	646.8	647.2	647.6	647.9
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	14.9	15.2	17.0	18.4	20.9	22.8	22.6	21.8	21.5	21.0	20.6
90°	1.6	2.8	3.9	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1
92.5°	13.1	13.8	14.6	15.4	16.2	17.0	17.8	18.7	19.5	19.9	20.2
95°	30.8	31.6	32.4	33.2	34.1	35.0	35.8	36.7	37.6	38.1	38.5
97.5°	53.9	54.5	55.1	55.6	56.3	56.9	57.6	58.2	58.9	59.4	59.9
100°	69.8	70.5	71.2	71.9	72.5	73.0	73.7	74.2	74.7	75.1	75.4
102.5°	87.9	88.3	88.7	89.1	89.7	90.4	91.2	91.9	92.6	93.0	93.4
105°	114.7	114.9	115.1	115.4	115.9	117.0	118.0	119.0	120.0	120.0	120.0
107.5°	145.9	146.1	146.2	146.3	146.6	147.0	147.4	147.8	148.2	148.6	148.9
110°	165.5	165.8	165.9	166.2	166.4	166.7	166.9	167.1	167.4	167.8	168.3



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	185.7	185.9	186.0	186.2	186.3	186.4	186.4	186.5	186.5	187.0	187.5
115°	216.5	216.9	217.2	217.5	217.6	217.3	217.1	216.9	216.7	216.8	216.9
117.5°	247.1	247.4	247.5	247.8	247.7	247.4	247.2	246.9	246.6	246.6	246.6
120°	266.7	267.3	268.0	268.8	268.8	268.2	267.7	267.1	266.5	266.4	266.3
122.5°	286.4	287.0	287.4	287.9	288.0	287.8	287.5	287.1	286.9	286.6	286.2
125°	316.7	317.0	317.4	317.7	317.8	317.5	317.4	317.1	316.9	316.4	315.9
127.5°	345.2	345.9	346.6	347.3	347.6	347.3	347.1	346.8	346.6	346.0	345.3
130°	364.1	365.0	365.9	366.8	367.0	366.8	366.4	366.0	365.7	365.2	364.8
132.5°	382.8	383.7	384.6	385.5	385.8	385.6	385.3	385.0	384.9	384.2	383.7
135°	411.2	411.8	412.5	413.1	413.5	413.3	413.2	413.1	413.0	412.6	412.1
137.5°	437.5	438.0	438.6	439.2	439.6	439.9	440.1	440.5	440.8	440.3	439.8
140°	455.8	456.4	456.9	457.4	457.8	457.9	458.1	458.2	458.3	458.2	458.1
142.5°	472.4	473.1	473.6	474.1	474.6	474.7	474.9	475.2	475.4	475.3	475.1
145°	498.2	498.4	498.6	498.8	499.1	499.4	499.8	500.2	500.5	500.3	500.2
147.5°	521.1	521.6	521.9	522.4	522.7	523.1	523.3	523.7	524.0	524.0	524.0
150°	536.8	537.1	537.3	537.5	537.7	538.0	538.1	538.4	538.6	538.6	538.6
152.5°	549.9	550.3	550.5	550.9	551.1	551.3	551.3	551.5	551.6	551.8	552.1
155°	570.2	570.2	570.2	570.2	570.2	570.3	570.4	570.6	570.7	571.1	571.6
157.5°	587.5	587.4	587.3	587.1	587.1	587.2	587.3	587.4	587.5	587.9	588.4
160°	598.4	598.2	598.0	597.7	597.6	597.6	597.6	597.6	597.6	598.2	598.8
162.5°	608.1	607.8	607.4	607.2	607.1	607.2	607.3	607.3	607.4	608.0	608.5
165°	620.7	620.4	620.0	619.6	619.5	619.5	619.5	619.5	619.5	620.2	620.9
167.5°	630.6	630.2	629.7	629.3	629.1	629.2	629.3	629.4	629.5	630.2	630.9
170°	636.3	635.9	635.4	635.0	634.7	634.7	634.7	634.7	634.7	635.5	636.3
172.5°	640.8	640.3	639.9	639.4	639.3	639.3	639.3	639.3	639.3	640.0	640.6
175°	645.5	645.1	644.6	644.2	643.9	643.9	643.9	643.9	643.9	644.6	645.2
177.5°	647.6	647.2	646.8	646.4	646.2	646.2	646.2	646.2	646.2	646.8	647.4
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	20.1	19.6	19.2	19.7	19.3	18.7	19.9
90°	13.6	14.0	14.4	14.6	14.8	15.1	15.2
92.5°	20.6	21.0	21.1	21.0	20.8	20.7	20.5
95°	39.0	39.4	39.7	39.7	39.7	39.7	39.7
97.5°	60.5	61.0	61.2	61.2	61.1	61.1	61.0
100°	75.8	76.2	76.4	76.6	76.9	77.0	77.3
102.5°	93.7	94.0	94.2	94.2	94.1	94.1	94.0
105°	120.0	120.0	120.1	120.4	120.6	120.8	121.1
107.5°	149.3	149.6	149.8	149.6	149.5	149.4	149.3
110°	168.7	169.2	169.2	169.1	168.8	168.6	168.4



TEST NUMBER: P332055-940

CATALOG NUMBER: S123DIP-S1165D585U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	188.1	188.6	188.9	188.9	188.8	188.8	188.7
115°	217.0	217.1	217.1	217.0	216.9	216.8	216.7
117.5°	246.5	246.5	246.3	246.0	245.7	245.4	245.0
120°	266.2	266.1	265.9	265.6	265.5	265.2	265.0
122.5°	286.0	285.7	285.3	285.1	284.7	284.5	284.1
125°	315.5	315.0	314.6	314.1	313.7	313.3	312.8
127.5°	344.6	344.0	343.5	343.0	342.4	341.9	341.3
130°	364.4	363.9	363.3	362.5	361.7	360.9	360.1
132.5°	383.2	382.6	382.1	381.5	380.8	380.2	379.6
135°	411.6	411.2	410.8	410.6	410.4	410.2	409.9
137.5°	439.3	438.9	438.5	438.0	437.6	437.1	436.7
140°	457.9	457.8	457.4	456.6	455.8	455.0	454.2
142.5°	475.0	474.9	474.6	473.9	473.3	472.7	472.1
145°	500.2	500.1	499.7	499.3	498.8	498.4	497.9
147.5°	524.0	524.0	523.6	523.0	522.3	521.7	520.9
150°	538.6	538.6	538.3	537.6	536.9	536.3	535.6
152.5°	552.2	552.4	552.1	551.6	551.0	550.5	549.8
155°	572.0	572.5	572.3	571.5	570.7	570.0	569.2
157.5°	588.9	589.3	589.2	588.6	588.0	587.4	586.7
160°	599.3	599.9	599.9	599.5	599.1	598.6	598.2
162.5°	609.1	609.7	609.6	608.9	608.1	607.4	606.7
165°	621.5	622.2	622.1	621.3	620.5	619.8	619.0
167.5°	631.6	632.3	632.3	631.6	630.9	630.2	629.5
170°	637.1	637.9	637.9	637.1	636.3	635.5	634.7
172.5°	641.3	642.0	642.0	641.2	640.4	639.6	638.8
175°	646.0	646.7	646.6	645.8	645.0	644.2	643.4
177.5°	647.9	648.5	648.4	647.7	647.1	646.5	645.9
180°	647.5	647.5	647.5	647.5	647.5	647.5	647.5

(END OF REPORT)