

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: P333243-830

Luminaire Tested: **S125DIP-S850D1205U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333243-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S850D1205U830-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7330.4 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

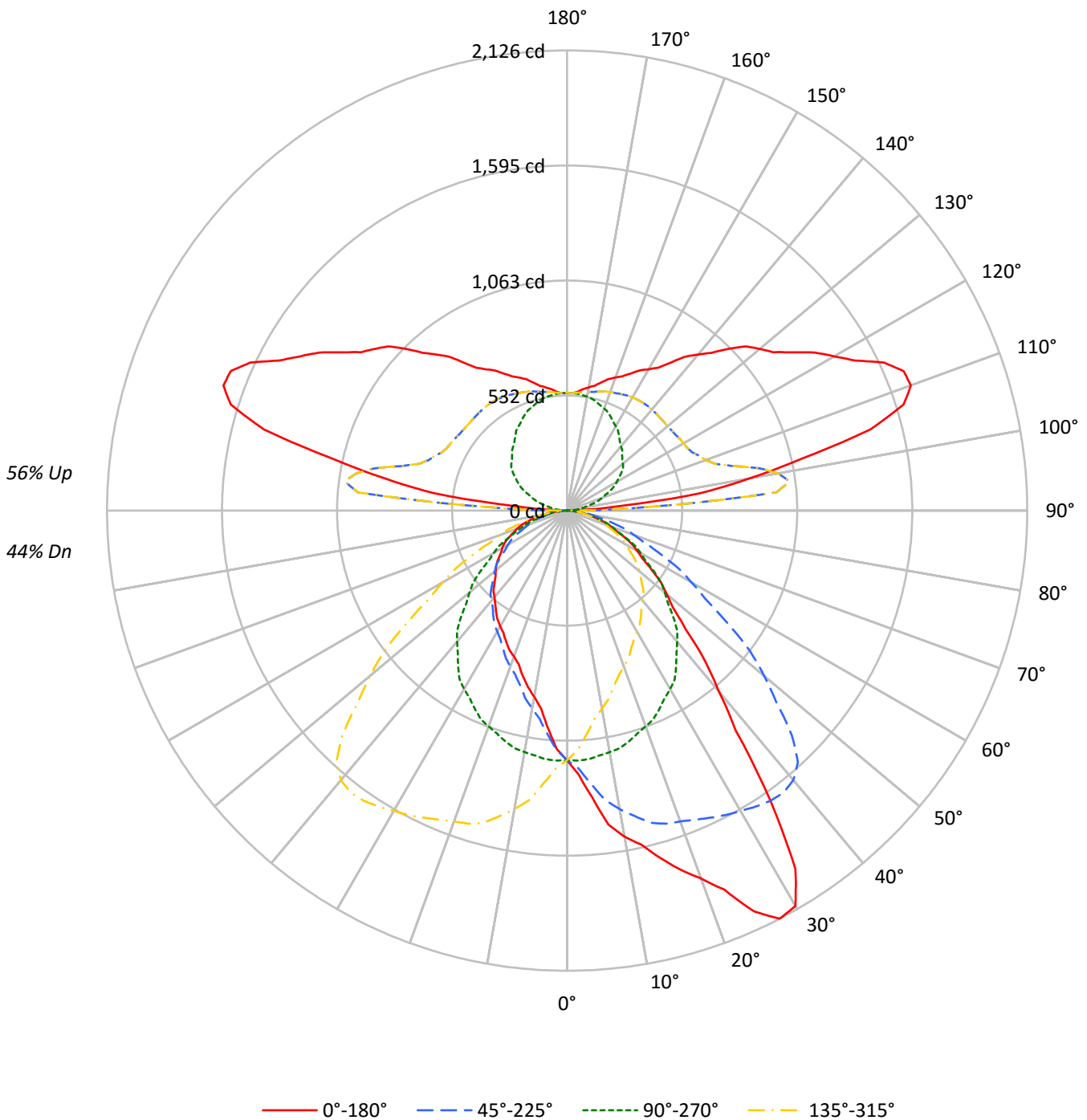
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43	38				
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32				
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	33	32	27				
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	32	29	27	24				
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20				
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16				
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	24	21	25	21	18	20	17	15	13				
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7447	7447	7447	7447
5°	8624	7472	6543	7472
10°	10033	7433	5732	7433
15°	11106	7379	5288	7379
20°	12432	7292	4931	7292
25°	14564	7195	4757	7195
30°	15731	7099	4606	7099
35°	12934	6918	4507	6918
40°	9193	6668	4398	6668
45°	7063	6330	4337	6330
50°	6028	5910	4326	5910
55°	5368	5499	4365	5499
60°	4841	5052	4476	5052
65°	4473	4600	4592	4600
70°	4067	4132	4658	4132
75°	3591	3638	4616	3638
80°	3020	2964	4225	2964
85°	2393	2134	3409	2134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.5
10°-20°	330.5	4.5
20°-30°	536.7	7.3
30°-40°	654.6	8.9
40°-50°	595.5	8.1
50°-60°	474.4	6.5
60°-70°	330.4	4.5
70°-80°	176.2	2.4
80°-90°	47.5	0.6
90°-100°	393.7	5.4
100°-110°	846.4	11.5
110°-120°	794.4	10.8
120°-130°	643.8	8.8
130°-140°	516.6	7.0
140°-150°	389.9	5.3
150°-160°	274.4	3.7
160°-170°	161.8	2.2
170°-180°	52.6	0.7
0°-30°	978.2	13.3
0°-40°	1632.8	22.3
0°-60°	2702.7	36.9
0°-90°	3256.8	44.4
90°-120°	2034.5	27.8
90°-150°	3584.8	48.9
90°-180°	4074.0	55.6
0°-180°	7330.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1330	1152	1009	1152	1330	134
15°	1661	1104	791	1104	1661	476
25°	2044	1010	668	1010	2044	934
35°	1640	878	572	878	1640	1004
45°	773	693	475	693	773	619
55°	477	488	388	488	477	429
65°	293	301	300	301	293	290
75°	144	146	185	146	144	155
85°	32	29	46	29	32	38
90°	25	1	25	1	25	18
95°	257	36	257	36	257	365
105°	1451	124	1451	124	1451	1442
115°	1616	221	1616	221	1616	1579
125°	1274	307	1274	307	1274	1152
135°	1058	359	1058	359	1058	820
145°	834	418	834	418	834	530
155°	700	478	700	478	700	326
165°	613	521	613	521	613	175
175°	551	542	551	542	551	54
180°	543	543	543	543	543	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1219.7	1218.0	1216.5	1213.3	1215.7	1209.1	1205.9	1200.4	1193.8	1191.5	1188.7
5°	1330.2	1332.7	1335.1	1324.8	1325.9	1319.0	1303.3	1290.6	1280.3	1267.2	1257.8
7.5°	1463.4	1457.5	1457.1	1450.5	1439.0	1429.8	1413.3	1392.4	1372.2	1349.1	1329.9
10°	1529.9	1530.4	1526.0	1518.2	1506.0	1497.1	1475.6	1455.0	1430.1	1400.7	1379.7
12.5°	1580.1	1582.1	1576.5	1565.9	1560.0	1540.2	1523.3	1498.9	1469.2	1445.8	1413.7
15°	1661.1	1655.7	1651.8	1638.6	1628.3	1607.8	1580.8	1555.4	1523.1	1493.2	1463.4
17.5°	1739.2	1743.5	1736.2	1724.1	1692.2	1668.2	1632.1	1597.2	1557.1	1517.0	1481.4
20°	1808.9	1812.8	1801.6	1780.6	1742.4	1718.3	1670.8	1625.9	1579.3	1528.0	1488.8
22.5°	1895.8	1892.7	1877.5	1845.5	1812.4	1768.1	1716.7	1661.9	1603.6	1545.6	1493.6
25°	2043.8	2023.3	2013.9	1974.3	1930.8	1865.7	1795.2	1715.0	1642.5	1565.7	1499.1
27.5°	2125.8	2119.4	2109.0	2081.4	2035.6	1966.0	1882.9	1785.1	1682.9	1585.9	1498.8
30°	2109.4	2110.4	2111.4	2102.5	2073.2	2020.8	1938.2	1832.9	1711.5	1602.3	1501.6
32.5°	1963.8	1981.6	1998.6	2018.7	2026.9	2016.9	1965.1	1870.1	1745.2	1621.2	1500.0
35°	1640.5	1646.0	1701.2	1756.1	1830.4	1888.2	1926.8	1884.8	1779.5	1637.1	1498.1
37.5°	1279.1	1305.6	1343.9	1405.8	1513.2	1609.3	1733.0	1789.8	1755.9	1642.3	1494.7
40°	1090.4	1114.9	1139.8	1203.0	1293.5	1410.0	1550.5	1670.4	1698.3	1625.9	1482.9
42.5°	944.8	964.1	991.8	1039.3	1115.0	1218.1	1352.4	1509.1	1605.5	1578.1	1458.3
45°	773.3	785.5	807.1	844.7	899.6	980.3	1098.7	1270.1	1419.3	1468.8	1399.8
47.5°	661.9	661.8	678.5	704.6	744.1	812.8	900.3	1034.5	1194.0	1311.9	1306.5
50°	600.0	597.6	610.8	633.3	664.6	710.1	793.8	901.0	1054.2	1187.8	1225.0
52.5°	546.8	547.1	555.2	571.8	598.0	637.0	699.5	796.1	927.0	1064.1	1134.2
55°	476.7	474.8	484.0	495.3	514.3	539.8	584.8	658.7	765.0	900.0	991.1
57.5°	412.5	417.8	421.6	429.4	445.3	462.3	500.3	554.5	638.8	754.7	850.9
60°	374.8	380.3	383.2	391.1	403.8	418.5	447.8	491.9	562.8	662.7	758.1
62.5°	341.2	345.4	346.4	353.5	363.8	378.1	401.2	438.2	494.3	581.6	675.1
65°	292.7	292.7	294.6	302.0	306.9	319.6	337.2	364.1	409.2	477.2	556.9
67.5°	245.9	248.3	247.7	251.0	255.5	265.3	278.0	300.2	333.6	383.2	447.0
70°	215.4	217.3	216.8	219.2	224.1	230.5	240.8	261.8	285.8	328.4	383.2
72.5°	187.9	188.7	187.5	190.7	193.6	199.2	210.7	221.9	244.3	280.2	325.3
75°	143.9	144.9	145.8	147.8	150.7	153.6	159.6	170.8	185.5	212.4	241.3
77.5°	107.8	106.0	108.4	108.1	109.7	112.0	117.2	123.1	135.2	152.2	174.6
80°	81.2	81.7	81.7	82.2	84.6	86.1	90.6	94.9	104.2	117.0	132.6
82.5°	59.3	60.6	59.9	60.7	62.8	63.8	66.3	69.8	75.3	85.3	96.6
85°	32.3	29.9	30.8	31.9	31.9	32.3	34.2	35.7	38.6	42.6	46.9
87.5°	14.4	15.2	15.4	15.4	15.7	15.4	16.7	16.5	17.4	18.4	19.5
90°	25.2	25.2	24.1	24.1	24.1	21.9	20.8	19.7	18.7	17.5	15.4
92.5°	69.8	71.6	73.1	75.8	89.8	106.0	140.8	194.1	285.9	353.1	358.8
95°	257.4	274.9	283.6	316.5	394.3	486.3	620.9	787.4	949.5	970.3	791.8
97.5°	622.1	636.1	667.9	729.2	796.8	924.8	1056.0	1172.7	1201.5	1036.2	707.1
100°	854.2	871.8	912.3	991.2	1066.7	1180.6	1293.5	1347.1	1262.7	988.9	630.8
102.5°	1113.6	1126.7	1170.7	1226.8	1307.7	1384.8	1438.9	1405.8	1226.0	905.7	573.0
105°	1451.1	1464.2	1486.2	1522.3	1557.4	1569.4	1521.3	1371.2	1108.3	794.0	516.9
107.5°	1630.3	1639.1	1646.3	1646.5	1628.8	1571.6	1447.8	1247.6	988.4	717.1	493.2
110°	1689.9	1689.9	1682.2	1661.4	1612.1	1519.0	1364.6	1156.5	919.9	681.2	486.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1682.9	1675.0	1656.0	1620.2	1548.1	1438.4	1282.2	1084.7	869.1	660.2	486.3
115°	1616.5	1602.2	1571.6	1519.0	1433.6	1314.2	1164.2	994.5	813.7	637.4	489.6
117.5°	1500.2	1491.5	1461.0	1406.7	1321.3	1211.7	1082.5	936.1	780.6	626.2	496.8
120°	1424.8	1416.1	1386.5	1334.0	1252.9	1156.5	1036.0	904.7	762.2	620.9	503.8
122.5°	1358.3	1350.4	1320.8	1272.6	1200.3	1110.1	1002.8	881.0	746.5	616.6	509.9
125°	1273.8	1262.7	1238.7	1193.7	1132.5	1053.6	958.3	846.6	725.0	611.1	520.2
127.5°	1201.5	1196.7	1173.8	1134.2	1078.6	1004.8	915.8	811.5	705.3	608.5	531.8
130°	1162.0	1155.5	1133.5	1097.4	1042.6	971.5	886.0	789.7	692.2	606.7	538.9
132.5°	1122.6	1115.1	1095.0	1058.9	1004.1	935.5	858.0	767.7	681.6	606.7	546.7
135°	1058.0	1051.4	1031.7	995.5	947.3	885.0	814.8	739.2	669.2	606.7	557.4
137.5°	988.9	981.8	963.6	930.7	887.6	834.5	776.3	715.2	658.0	608.0	567.3
140°	940.8	935.3	918.9	890.4	849.9	803.9	753.5	702.0	652.7	608.9	571.7
142.5°	896.1	891.5	875.9	851.9	817.5	777.6	734.2	690.6	648.4	609.8	574.3
145°	834.5	830.2	818.1	799.5	773.2	743.7	709.6	675.7	641.8	608.9	577.2
147.5°	782.4	780.4	773.5	758.6	737.7	715.4	689.3	661.8	635.0	606.1	578.2
150°	753.5	752.4	748.0	734.9	718.4	698.7	678.0	653.8	629.7	603.4	578.2
152.5°	730.8	729.6	725.2	714.7	701.0	685.6	666.6	645.1	623.6	599.9	577.4
155°	699.8	698.7	695.4	687.8	676.8	664.8	649.4	631.9	613.3	593.6	575.0
157.5°	672.2	672.4	669.4	663.0	654.5	645.1	633.2	618.8	603.7	587.0	572.1
160°	653.8	655.0	652.7	647.2	639.6	631.9	620.9	610.0	595.8	582.7	569.5
162.5°	637.2	637.4	637.0	632.4	626.4	619.6	610.5	600.4	588.8	577.4	566.8
165°	613.3	613.3	613.3	611.1	606.7	601.2	594.7	587.0	578.2	569.5	562.9
167.5°	591.4	591.6	592.5	590.5	588.3	584.4	579.4	574.3	568.0	561.8	556.8
170°	578.2	579.4	579.4	578.2	576.1	573.9	570.6	567.3	561.8	557.4	554.2
172.5°	566.0	567.1	568.8	566.8	566.5	565.1	562.7	559.4	555.7	552.2	550.6
175°	550.9	552.0	554.2	553.1	553.1	553.1	550.9	550.9	547.6	546.5	546.5
177.5°	543.2	543.2	545.8	545.0	545.8	545.8	545.8	545.0	544.1	543.2	543.2
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1186.4	1183.6	1180.4	1175.0	1168.4	1164.8	1159.3	1155.8	1148.8	1142.9	1136.6
5°	1246.5	1233.8	1222.1	1206.9	1190.2	1179.5	1166.8	1152.5	1137.9	1122.8	1106.1
7.5°	1308.9	1286.4	1261.9	1235.6	1209.8	1186.2	1163.6	1141.3	1120.6	1095.5	1074.3
10°	1350.8	1322.4	1292.0	1256.3	1221.6	1191.3	1160.5	1133.5	1106.1	1076.8	1050.7
12.5°	1392.7	1354.9	1312.0	1272.8	1231.0	1194.4	1158.1	1123.7	1089.3	1056.8	1026.5
15°	1422.3	1388.9	1349.3	1293.5	1246.5	1196.2	1148.2	1103.6	1062.1	1025.9	987.7
17.5°	1441.7	1398.8	1356.3	1302.8	1241.1	1184.8	1130.5	1079.5	1032.6	986.7	949.9
20°	1445.3	1401.2	1356.7	1304.3	1241.1	1176.6	1122.3	1061.0	1010.7	963.2	918.1
22.5°	1444.1	1394.2	1345.7	1291.8	1230.2	1170.7	1105.0	1042.6	988.0	941.2	894.3
25°	1433.0	1379.7	1319.0	1264.7	1204.0	1140.9	1074.3	1009.7	953.9	900.5	854.0
27.5°	1423.8	1354.6	1285.9	1222.6	1163.9	1106.1	1042.4	976.2	914.4	860.3	816.4
30°	1412.5	1336.6	1259.2	1193.2	1133.0	1076.8	1016.5	952.0	887.3	834.4	787.5
32.5°	1402.3	1313.9	1232.3	1160.4	1096.6	1041.9	986.4	924.9	861.5	807.9	760.8
35°	1382.6	1280.3	1186.8	1105.6	1037.6	981.3	934.8	877.5	819.3	767.4	722.4
37.5°	1357.6	1236.2	1136.0	1050.7	976.2	916.9	873.6	829.6	773.7	723.8	683.1
40°	1338.0	1204.9	1098.7	1011.6	934.3	872.6	832.5	790.9	744.4	698.0	654.9
42.5°	1313.4	1176.8	1061.2	967.4	890.8	830.8	788.6	753.3	712.3	668.9	629.0
45°	1268.1	1125.7	1000.4	899.6	822.2	763.0	719.4	693.1	662.2	621.0	587.3
47.5°	1201.5	1064.3	934.7	830.7	750.8	696.0	655.2	629.8	608.0	577.5	546.9
50°	1142.3	1018.5	887.3	784.0	704.3	648.9	611.3	588.2	569.7	546.2	520.3
52.5°	1076.1	960.9	840.7	738.7	659.7	605.1	568.3	548.0	532.5	515.7	490.1
55°	971.0	873.2	761.6	664.6	591.7	538.4	506.1	488.4	475.7	463.0	447.3
57.5°	855.2	778.6	679.8	591.3	524.1	475.5	445.4	428.2	418.4	411.8	402.6
60°	773.7	708.2	623.0	542.2	476.7	433.7	404.3	391.1	382.8	377.3	370.5
62.5°	698.2	644.4	565.4	491.7	434.4	393.7	367.5	354.7	346.7	344.0	338.4
65°	586.8	545.3	480.1	419.0	370.0	335.3	313.2	301.0	296.1	293.1	293.7
67.5°	477.1	451.8	399.4	347.3	308.2	279.1	261.5	252.0	249.6	245.7	245.6
70°	410.1	391.1	347.0	301.5	266.7	244.2	228.6	218.8	216.3	214.3	213.9
72.5°	351.0	334.3	296.1	259.6	228.4	208.6	195.7	189.8	185.8	184.6	184.5
75°	263.8	254.5	224.1	195.3	173.7	160.0	151.3	145.8	142.9	142.4	142.9
77.5°	187.6	179.5	160.1	139.7	126.1	115.7	108.3	106.4	103.1	103.2	102.6
80°	140.9	135.5	123.4	107.2	96.0	87.1	83.2	79.7	78.8	77.3	78.8
82.5°	102.2	96.4	88.1	77.9	68.5	63.2	59.3	58.2	57.7	56.9	57.3
85°	50.4	50.9	46.0	38.2	34.2	31.3	28.8	28.8	28.4	27.9	28.4
87.5°	20.1	18.9	17.1	15.5	13.1	11.4	10.7	10.7	9.8	9.9	10.7
90°	14.2	12.1	10.9	8.8	6.6	4.3	2.2	1.1	2.2	4.3	6.6
92.5°	250.0	149.6	89.8	57.9	39.0	25.4	16.2	13.4	16.2	25.4	39.0
95°	489.6	248.6	131.4	82.1	58.1	46.0	37.2	36.1	37.2	46.0	58.1
97.5°	390.8	214.2	136.7	101.2	79.6	67.5	61.4	60.0	61.4	67.5	79.6
100°	354.9	212.4	148.9	116.1	95.3	83.2	78.9	76.6	78.9	83.2	95.3
102.5°	340.0	220.4	163.8	131.9	112.8	99.9	96.4	95.1	96.4	99.9	112.8
105°	334.0	236.6	188.4	157.7	140.2	129.2	123.8	123.8	123.8	129.2	140.2
107.5°	344.1	260.6	214.0	186.4	168.2	159.2	154.0	151.7	154.0	159.2	168.2
110°	353.7	278.1	233.3	204.8	188.4	178.5	174.2	171.9	174.2	178.5	188.4



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	366.0	294.8	251.7	224.0	207.6	197.7	194.3	192.1	194.3	197.7	207.6
115°	384.4	320.9	280.4	253.0	236.6	226.7	223.4	221.2	223.4	226.7	236.6
117.5°	405.5	347.6	309.2	282.8	264.2	254.3	250.8	247.5	250.8	254.3	264.2
120°	419.4	366.9	328.6	301.1	282.6	272.7	268.3	265.0	268.3	272.7	282.6
122.5°	435.3	385.3	346.9	319.6	299.2	289.4	285.9	283.4	285.9	289.4	299.2
125°	456.7	409.6	373.4	345.0	324.1	314.3	308.9	306.6	308.9	314.3	324.1
127.5°	476.5	433.0	398.2	369.8	347.6	335.2	328.1	324.8	328.1	335.2	347.6
130°	489.6	447.9	414.0	385.5	362.5	348.3	339.5	336.2	339.5	348.3	362.5
132.5°	501.0	461.9	428.0	399.5	375.7	359.7	349.1	345.0	349.1	359.7	375.7
135°	516.9	480.8	446.9	417.3	394.3	376.7	363.6	359.2	363.6	376.7	394.3
137.5°	528.8	494.2	463.3	432.8	410.3	392.8	380.5	377.2	380.5	392.8	410.3
140°	536.7	503.8	472.0	442.4	421.7	404.2	391.0	387.7	391.0	404.2	421.7
142.5°	541.0	509.9	479.9	452.1	432.2	414.6	402.4	399.9	402.4	414.6	432.2
145°	547.6	520.2	491.7	466.6	446.9	431.5	420.6	418.4	420.6	431.5	446.9
147.5°	551.6	526.8	501.8	479.7	462.6	448.4	438.9	437.6	438.9	448.4	462.6
150°	554.2	531.1	507.1	488.4	473.2	458.9	451.2	449.0	451.2	458.9	473.2
152.5°	555.9	535.6	513.2	496.3	481.9	469.4	462.6	461.3	462.6	469.4	481.9
155°	557.4	539.9	521.3	506.0	495.0	484.1	477.5	477.5	477.5	484.1	495.0
157.5°	558.6	543.7	527.6	516.0	506.4	497.0	491.7	492.0	491.7	497.0	506.4
160°	558.6	545.4	531.1	521.3	512.6	504.9	500.5	501.6	500.5	504.9	512.6
162.5°	557.7	547.1	534.7	526.6	519.5	512.7	508.4	509.4	508.4	512.7	519.5
165°	556.4	547.6	538.9	532.3	527.9	522.5	519.2	521.3	519.2	522.5	527.9
167.5°	553.7	547.6	540.4	536.2	533.1	530.1	528.1	529.2	528.1	530.1	533.1
170°	552.0	547.6	542.2	538.9	536.7	534.4	533.4	534.4	533.4	534.4	536.7
172.5°	550.3	546.7	542.2	540.5	539.2	537.1	536.0	538.0	536.0	537.1	539.2
175°	547.6	545.4	542.2	542.2	542.2	541.0	539.9	542.2	539.9	541.0	542.2
177.5°	545.0	544.1	542.3	542.3	543.2	542.3	542.3	544.1	542.3	542.3	543.2
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1133.1	1128.8	1125.3	1117.5	1113.1	1107.3	1102.6	1107.7	1102.2	1104.6	1101.0
5°	1097.8	1084.1	1074.3	1060.1	1047.8	1036.6	1028.3	1026.8	1022.8	1021.0	1015.0
7.5°	1055.3	1038.1	1021.3	1002.8	987.0	971.1	960.9	952.5	947.0	939.6	934.6
10°	1030.2	1007.2	987.7	965.2	945.6	928.4	914.7	907.9	901.5	892.2	888.8
12.5°	999.3	975.5	951.6	927.6	908.8	889.7	877.9	867.5	863.2	852.6	851.6
15°	962.2	926.5	903.0	878.5	852.5	836.9	827.1	815.9	811.0	803.6	798.2
17.5°	917.9	886.1	856.7	831.3	809.1	795.9	783.7	776.0	767.6	762.8	754.0
20°	885.9	855.5	826.1	799.2	782.1	766.9	757.1	749.8	741.0	738.6	729.7
22.5°	858.8	825.4	797.2	774.6	755.8	738.8	728.1	723.2	717.1	709.5	707.8
25°	814.9	780.1	756.2	733.7	717.0	701.3	694.0	687.7	681.7	676.4	674.4
27.5°	776.9	745.8	717.4	697.0	682.6	668.3	661.8	654.0	649.8	645.5	640.2
30°	750.3	718.5	693.5	673.9	658.3	645.5	638.7	633.3	629.4	625.5	622.5
32.5°	722.8	693.4	669.2	650.1	634.4	624.8	618.7	614.9	610.6	605.9	602.2
35°	686.6	654.3	630.8	614.3	602.0	594.7	587.8	584.4	579.5	579.5	575.5
37.5°	645.8	617.9	597.2	582.0	571.1	564.5	557.0	554.7	551.6	549.5	548.2
40°	621.6	595.6	576.1	560.9	549.1	543.8	537.9	534.0	532.0	529.5	528.6
42.5°	596.5	571.7	553.0	538.9	528.8	524.1	518.7	515.9	512.0	508.8	508.2
45°	558.5	534.4	517.4	506.1	497.3	491.9	488.4	482.6	480.6	476.7	476.2
47.5°	522.3	499.3	482.5	473.3	465.5	461.1	455.7	449.9	447.6	445.6	445.4
50°	495.3	474.3	458.5	449.8	442.4	436.1	430.6	426.8	425.3	425.3	426.3
52.5°	467.9	450.0	436.7	425.9	419.0	412.2	407.2	404.8	402.6	404.9	406.7
55°	427.7	409.6	399.8	389.6	382.8	374.8	372.5	371.5	370.0	373.9	375.9
57.5°	385.3	372.6	361.1	350.9	344.8	340.3	337.0	336.3	339.0	340.9	347.3
60°	358.3	343.6	333.3	325.5	318.1	315.2	314.2	313.2	315.2	320.6	328.9
62.5°	328.5	316.6	305.5	299.6	294.3	289.4	289.2	289.7	293.7	299.8	308.1
65°	284.8	274.6	267.2	260.3	256.0	253.1	254.0	256.0	260.3	268.7	278.0
67.5°	240.5	233.5	226.9	221.3	217.1	217.1	218.1	221.0	226.2	235.8	244.3
70°	211.9	204.1	198.7	196.2	192.8	190.9	193.8	198.7	203.1	211.9	219.2
72.5°	183.3	176.7	172.5	170.8	169.4	167.8	168.7	174.0	180.0	188.8	197.4
75°	140.9	138.5	135.5	133.7	132.1	133.1	134.1	139.0	143.9	153.2	163.0
77.5°	102.8	100.3	98.6	98.1	97.3	97.7	100.6	104.2	109.0	115.7	123.1
80°	77.9	76.8	75.9	75.4	75.4	75.9	79.7	82.2	86.6	93.0	98.9
82.5°	56.6	56.1	55.9	55.8	56.2	56.3	58.6	61.8	65.5	70.3	75.4
85°	29.9	28.8	30.3	30.8	29.9	31.3	32.3	34.2	35.7	38.2	40.6
87.5°	11.5	12.7	12.6	13.4	13.7	14.9	14.7	16.5	17.4	18.5	18.6
90°	8.8	10.9	12.1	14.2	15.4	17.5	18.7	19.7	20.8	21.9	24.1
92.5°	57.9	89.8	149.6	250.0	358.8	353.1	285.9	194.1	140.8	106.0	89.8
95°	82.1	131.4	248.6	489.6	791.8	970.3	949.5	787.4	620.9	486.3	394.3
97.5°	101.2	136.7	214.2	390.8	707.1	1036.2	1201.5	1172.7	1056.0	924.8	796.8
100°	116.1	148.9	212.4	354.9	630.8	988.9	1262.7	1347.1	1293.5	1180.6	1066.7
102.5°	131.9	163.8	220.4	340.0	573.0	905.7	1226.0	1405.8	1438.9	1384.8	1307.7
105°	157.7	188.4	236.6	334.0	516.9	794.0	1108.3	1371.2	1521.3	1569.4	1557.4
107.5°	186.4	214.0	260.6	344.1	493.2	717.1	988.4	1247.6	1447.8	1571.6	1628.8
110°	204.8	233.3	278.1	353.7	486.3	681.2	919.9	1156.5	1364.6	1519.0	1612.1



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	224.0	251.7	294.8	366.0	486.3	660.2	869.1	1084.7	1282.2	1438.4	1548.1
115°	253.0	280.4	320.9	384.4	489.6	637.4	813.7	994.5	1164.2	1314.2	1433.6
117.5°	282.8	309.2	347.6	405.5	496.8	626.2	780.6	936.1	1082.5	1211.7	1321.3
120°	301.1	328.6	366.9	419.4	503.8	620.9	762.2	904.7	1036.0	1156.5	1252.9
122.5°	319.6	346.9	385.3	435.3	509.9	616.6	746.5	881.0	1002.8	1110.1	1200.3
125°	345.0	373.4	409.6	456.7	520.2	611.1	725.0	846.6	958.3	1053.6	1132.5
127.5°	369.8	398.2	433.0	476.5	531.8	608.5	705.3	811.5	915.8	1004.8	1078.6
130°	385.5	414.0	447.9	489.6	538.9	606.7	692.2	789.7	886.0	971.5	1042.6
132.5°	399.5	428.0	461.9	501.0	546.7	606.7	681.6	767.7	858.0	935.5	1004.1
135°	417.3	446.9	480.8	516.9	557.4	606.7	669.2	739.2	814.8	885.0	947.3
137.5°	432.8	463.3	494.2	528.8	567.3	608.0	658.0	715.2	776.3	834.5	887.6
140°	442.4	472.0	503.8	536.7	571.7	608.9	652.7	702.0	753.5	803.9	849.9
142.5°	452.1	479.9	509.9	541.0	574.3	609.8	648.4	690.6	734.2	777.6	817.5
145°	466.6	491.7	520.2	547.6	577.2	608.9	641.8	675.7	709.6	743.7	773.2
147.5°	479.7	501.8	526.8	551.6	578.2	606.1	635.0	661.8	689.3	715.4	737.7
150°	488.4	507.1	531.1	554.2	578.2	603.4	629.7	653.8	678.0	698.7	718.4
152.5°	496.3	513.2	535.6	555.9	577.4	599.9	623.6	645.1	666.6	685.6	701.0
155°	506.0	521.3	539.9	557.4	575.0	593.6	613.3	631.9	649.4	664.8	676.8
157.5°	516.0	527.6	543.7	558.6	572.1	587.0	603.7	618.8	633.2	645.1	654.5
160°	521.3	531.1	545.4	558.6	569.5	582.7	595.8	610.0	620.9	631.9	639.6
162.5°	526.6	534.7	547.1	557.7	566.8	577.4	588.8	600.4	610.5	619.6	626.4
165°	532.3	538.9	547.6	556.4	562.9	569.5	578.2	587.0	594.7	601.2	606.7
167.5°	536.2	540.4	547.6	553.7	556.8	561.8	568.0	574.3	579.4	584.4	588.3
170°	538.9	542.2	547.6	552.0	554.2	557.4	561.8	567.3	570.6	573.9	576.1
172.5°	540.5	542.2	546.7	550.3	550.6	552.2	555.7	559.4	562.7	565.1	566.5
175°	542.2	542.2	545.4	547.6	546.5	546.5	547.6	550.9	550.9	553.1	553.1
177.5°	542.3	542.3	544.1	545.0	543.2	543.2	544.1	545.0	545.8	545.8	545.8
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1098.6	1101.4	1099.0	1102.2	1099.0	1101.4	1098.6	1101.0	1104.6	1102.2	1107.7
5°	1012.6	1008.2	1011.2	1009.2	1011.2	1008.2	1012.6	1015.0	1021.0	1022.8	1026.8
7.5°	933.1	928.9	924.2	921.9	924.2	928.9	933.1	934.6	939.6	947.0	952.5
10°	883.4	878.0	877.5	874.1	877.5	878.0	883.4	888.8	892.2	901.5	907.9
12.5°	847.0	842.0	836.4	835.0	836.4	842.0	847.0	851.6	852.6	863.2	867.5
15°	795.3	791.4	788.0	790.9	788.0	791.4	795.3	798.2	803.6	811.0	815.9
17.5°	752.3	749.1	748.5	744.9	748.5	749.1	752.3	754.0	762.8	767.6	776.0
20°	725.3	722.8	723.9	717.5	723.9	722.8	725.3	729.7	738.6	741.0	749.8
22.5°	703.8	699.0	698.4	697.1	698.4	699.0	703.8	707.8	709.5	717.1	723.2
25°	670.1	667.6	665.2	667.6	665.2	667.6	670.1	674.4	676.4	681.7	687.7
27.5°	640.6	637.6	637.0	637.3	637.0	637.6	640.6	640.2	645.5	649.8	654.0
30°	622.5	617.6	618.1	617.6	618.1	617.6	622.5	622.5	625.5	629.4	633.3
32.5°	602.9	599.6	599.0	598.0	599.0	599.6	602.9	602.2	605.9	610.6	614.9
35°	574.1	574.1	571.7	571.7	571.7	574.1	574.1	575.5	579.5	579.5	584.4
37.5°	547.0	546.5	545.0	545.3	545.0	546.5	547.0	548.2	549.5	551.6	554.7
40°	526.6	526.1	524.6	521.7	524.6	526.1	526.6	528.6	529.5	532.0	534.0
42.5°	507.0	505.4	504.7	503.7	504.7	505.4	507.0	508.2	508.8	512.0	515.9
45°	476.2	476.2	475.2	474.8	475.2	476.2	476.2	476.2	476.7	480.6	482.6
47.5°	446.3	447.1	449.0	448.7	449.0	447.1	446.3	445.4	445.6	447.6	449.9
50°	428.2	428.8	430.2	430.6	430.2	428.8	428.2	426.3	425.3	425.3	426.8
52.5°	408.3	411.1	412.9	412.6	412.9	411.1	408.3	406.7	404.9	402.6	404.8
55°	380.3	383.7	387.1	387.7	387.1	383.7	380.3	375.9	373.9	370.0	371.5
57.5°	352.6	357.4	361.0	362.1	361.0	357.4	352.6	347.3	340.9	339.0	336.3
60°	333.8	340.2	344.6	346.5	344.6	340.2	333.8	328.9	320.6	315.2	313.2
62.5°	315.8	322.9	327.3	327.7	327.3	322.9	315.8	308.1	299.8	293.7	289.7
65°	286.3	293.7	297.6	300.5	297.6	293.7	286.3	278.0	268.7	260.3	256.0
67.5°	254.6	261.9	266.3	268.6	266.3	261.9	254.6	244.3	235.8	226.2	221.0
70°	231.5	238.8	244.7	246.7	244.7	238.8	231.5	219.2	211.9	203.1	198.7
72.5°	208.8	215.4	220.1	222.3	220.1	215.4	208.8	197.4	188.8	180.0	174.0
75°	169.4	178.1	182.6	185.0	182.6	178.1	169.4	163.0	153.2	143.9	139.0
77.5°	130.5	138.6	141.3	142.5	141.3	138.6	130.5	123.1	115.7	109.0	104.2
80°	104.7	109.6	113.0	113.6	113.0	109.6	104.7	98.9	93.0	86.6	82.2
82.5°	80.5	84.5	85.7	86.9	85.7	84.5	80.5	75.4	70.3	65.5	61.8
85°	44.0	46.0	46.5	46.0	46.5	46.0	44.0	40.6	38.2	35.7	34.2
87.5°	19.3	18.9	19.1	19.9	19.1	18.9	19.3	18.6	18.5	17.4	16.5
90°	24.1	24.1	25.2	25.2	25.2	24.1	24.1	24.1	21.9	20.8	19.7
92.5°	75.8	73.1	71.6	69.8	71.6	73.1	75.8	89.8	106.0	140.8	194.1
95°	316.5	283.6	274.9	257.4	274.9	283.6	316.5	394.3	486.3	620.9	787.4
97.5°	729.2	667.9	636.1	622.1	636.1	667.9	729.2	796.8	924.8	1056.0	1172.7
100°	991.2	912.3	871.8	854.2	871.8	912.3	991.2	1066.7	1180.6	1293.5	1347.1
102.5°	1226.8	1170.7	1126.7	1113.6	1126.7	1170.7	1226.8	1307.7	1384.8	1438.9	1405.8
105°	1522.3	1486.2	1464.2	1451.1	1464.2	1486.2	1522.3	1557.4	1569.4	1521.3	1371.2
107.5°	1646.5	1646.3	1639.1	1630.3	1639.1	1646.3	1646.5	1628.8	1571.6	1447.8	1247.6
110°	1661.4	1682.2	1689.9	1689.9	1689.9	1682.2	1661.4	1612.1	1519.0	1364.6	1156.5



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1620.2	1656.0	1675.0	1682.9	1675.0	1656.0	1620.2	1548.1	1438.4	1282.2	1084.7
115°	1519.0	1571.6	1602.2	1616.5	1602.2	1571.6	1519.0	1433.6	1314.2	1164.2	994.5
117.5°	1406.7	1461.0	1491.5	1500.2	1491.5	1461.0	1406.7	1321.3	1211.7	1082.5	936.1
120°	1334.0	1386.5	1416.1	1424.8	1416.1	1386.5	1334.0	1252.9	1156.5	1036.0	904.7
122.5°	1272.6	1320.8	1350.4	1358.3	1350.4	1320.8	1272.6	1200.3	1110.1	1002.8	881.0
125°	1193.7	1238.7	1262.7	1273.8	1262.7	1238.7	1193.7	1132.5	1053.6	958.3	846.6
127.5°	1134.2	1173.8	1196.7	1201.5	1196.7	1173.8	1134.2	1078.6	1004.8	915.8	811.5
130°	1097.4	1133.5	1155.5	1162.0	1155.5	1133.5	1097.4	1042.6	971.5	886.0	789.7
132.5°	1058.9	1095.0	1115.1	1122.6	1115.1	1095.0	1058.9	1004.1	935.5	858.0	767.7
135°	995.5	1031.7	1051.4	1058.0	1051.4	1031.7	995.5	947.3	885.0	814.8	739.2
137.5°	930.7	963.6	981.8	988.9	981.8	963.6	930.7	887.6	834.5	776.3	715.2
140°	890.4	918.9	935.3	940.8	935.3	918.9	890.4	849.9	803.9	753.5	702.0
142.5°	851.9	875.9	891.5	896.1	891.5	875.9	851.9	817.5	777.6	734.2	690.6
145°	799.5	818.1	830.2	834.5	830.2	818.1	799.5	773.2	743.7	709.6	675.7
147.5°	758.6	773.5	780.4	782.4	780.4	773.5	758.6	737.7	715.4	689.3	661.8
150°	734.9	748.0	752.4	753.5	752.4	748.0	734.9	718.4	698.7	678.0	653.8
152.5°	714.7	725.2	729.6	730.8	729.6	725.2	714.7	701.0	685.6	666.6	645.1
155°	687.8	695.4	698.7	699.8	698.7	695.4	687.8	676.8	664.8	649.4	631.9
157.5°	663.0	669.4	672.4	672.2	672.4	669.4	663.0	654.5	645.1	633.2	618.8
160°	647.2	652.7	655.0	653.8	655.0	652.7	647.2	639.6	631.9	620.9	610.0
162.5°	632.4	637.0	637.4	637.2	637.4	637.0	632.4	626.4	619.6	610.5	600.4
165°	611.1	613.3	613.3	613.3	613.3	613.3	611.1	606.7	601.2	594.7	587.0
167.5°	590.5	592.5	591.6	591.4	591.6	592.5	590.5	588.3	584.4	579.4	574.3
170°	578.2	579.4	579.4	578.2	579.4	579.4	578.2	576.1	573.9	570.6	567.3
172.5°	566.8	568.8	567.1	566.0	567.1	568.8	566.8	566.5	565.1	562.7	559.4
175°	553.1	554.2	552.0	550.9	552.0	554.2	553.1	553.1	553.1	550.9	550.9
177.5°	545.0	545.8	543.2	543.2	543.2	545.8	545.0	545.8	545.8	545.8	545.0
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1102.6	1107.3	1113.1	1117.5	1125.3	1128.8	1133.1	1136.6	1142.9	1148.8	1155.8
5°	1028.3	1036.6	1047.8	1060.1	1074.3	1084.1	1097.8	1106.1	1122.8	1137.9	1152.5
7.5°	960.9	971.1	987.0	1002.8	1021.3	1038.1	1055.3	1074.3	1095.5	1120.6	1141.3
10°	914.7	928.4	945.6	965.2	987.7	1007.2	1030.2	1050.7	1076.8	1106.1	1133.5
12.5°	877.9	889.7	908.8	927.6	951.6	975.5	999.3	1026.5	1056.8	1089.3	1123.7
15°	827.1	836.9	852.5	878.5	903.0	926.5	962.2	987.7	1025.9	1062.1	1103.6
17.5°	783.7	795.9	809.1	831.3	856.7	886.1	917.9	949.9	986.7	1032.6	1079.5
20°	757.1	766.9	782.1	799.2	826.1	855.5	885.9	918.1	963.2	1010.7	1061.0
22.5°	728.1	738.8	755.8	774.6	797.2	825.4	858.8	894.3	941.2	988.0	1042.6
25°	694.0	701.3	717.0	733.7	756.2	780.1	814.9	854.0	900.5	953.9	1009.7
27.5°	661.8	668.3	682.6	697.0	717.4	745.8	776.9	816.4	860.3	914.4	976.2
30°	638.7	645.5	658.3	673.9	693.5	718.5	750.3	787.5	834.4	887.3	952.0
32.5°	618.7	624.8	634.4	650.1	669.2	693.4	722.8	760.8	807.9	861.5	924.9
35°	587.8	594.7	602.0	614.3	630.8	654.3	686.6	722.4	767.4	819.3	877.5
37.5°	557.0	564.5	571.1	582.0	597.2	617.9	645.8	683.1	723.8	773.7	829.6
40°	537.9	543.8	549.1	560.9	576.1	595.6	621.6	654.9	698.0	744.4	790.9
42.5°	518.7	524.1	528.8	538.9	553.0	571.7	596.5	629.0	668.9	712.3	753.3
45°	488.4	491.9	497.3	506.1	517.4	534.4	558.5	587.3	621.0	662.2	693.1
47.5°	455.7	461.1	465.5	473.3	482.5	499.3	522.3	546.9	577.5	608.0	629.8
50°	430.6	436.1	442.4	449.8	458.5	474.3	495.3	520.3	546.2	569.7	588.2
52.5°	407.2	412.2	419.0	425.9	436.7	450.0	467.9	490.1	515.7	532.5	548.0
55°	372.5	374.8	382.8	389.6	399.8	409.6	427.7	447.3	463.0	475.7	488.4
57.5°	337.0	340.3	344.8	350.9	361.1	372.6	385.3	402.6	411.8	418.4	428.2
60°	314.2	315.2	318.1	325.5	333.3	343.6	358.3	370.5	377.3	382.8	391.1
62.5°	289.2	289.4	294.3	299.6	305.5	316.6	328.5	338.4	344.0	346.7	354.7
65°	254.0	253.1	256.0	260.3	267.2	274.6	284.8	293.7	293.1	296.1	301.0
67.5°	218.1	217.1	217.1	221.3	226.9	233.5	240.5	245.6	245.7	249.6	252.0
70°	193.8	190.9	192.8	196.2	198.7	204.1	211.9	213.9	214.3	216.3	218.8
72.5°	168.7	167.8	169.4	170.8	172.5	176.7	183.3	184.5	184.6	185.8	189.8
75°	134.1	133.1	132.1	133.7	135.5	138.5	140.9	142.9	142.4	142.9	145.8
77.5°	100.6	97.7	97.3	98.1	98.6	100.3	102.8	102.6	103.2	103.1	106.4
80°	79.7	75.9	75.4	75.4	75.9	76.8	77.9	78.8	77.3	78.8	79.7
82.5°	58.6	56.3	56.2	55.8	55.9	56.1	56.6	57.3	56.9	57.7	58.2
85°	32.3	31.3	29.9	30.8	30.3	28.8	29.9	28.4	27.9	28.4	28.8
87.5°	14.7	14.9	13.7	13.4	12.6	12.7	11.5	10.7	9.9	9.8	10.7
90°	18.7	17.5	15.4	14.2	12.1	10.9	8.8	6.6	4.3	2.2	1.1
92.5°	285.9	353.1	358.8	250.0	149.6	89.8	57.9	39.0	25.4	16.2	13.4
95°	949.5	970.3	791.8	489.6	248.6	131.4	82.1	58.1	46.0	37.2	36.1
97.5°	1201.5	1036.2	707.1	390.8	214.2	136.7	101.2	79.6	67.5	61.4	60.0
100°	1262.7	988.9	630.8	354.9	212.4	148.9	116.1	95.3	83.2	78.9	76.6
102.5°	1226.0	905.7	573.0	340.0	220.4	163.8	131.9	112.8	99.9	96.4	95.1
105°	1108.3	794.0	516.9	334.0	236.6	188.4	157.7	140.2	129.2	123.8	123.8
107.5°	988.4	717.1	493.2	344.1	260.6	214.0	186.4	168.2	159.2	154.0	151.7
110°	919.9	681.2	486.3	353.7	278.1	233.3	204.8	188.4	178.5	174.2	171.9



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	869.1	660.2	486.3	366.0	294.8	251.7	224.0	207.6	197.7	194.3	192.1
115°	813.7	637.4	489.6	384.4	320.9	280.4	253.0	236.6	226.7	223.4	221.2
117.5°	780.6	626.2	496.8	405.5	347.6	309.2	282.8	264.2	254.3	250.8	247.5
120°	762.2	620.9	503.8	419.4	366.9	328.6	301.1	282.6	272.7	268.3	265.0
122.5°	746.5	616.6	509.9	435.3	385.3	346.9	319.6	299.2	289.4	285.9	283.4
125°	725.0	611.1	520.2	456.7	409.6	373.4	345.0	324.1	314.3	308.9	306.6
127.5°	705.3	608.5	531.8	476.5	433.0	398.2	369.8	347.6	335.2	328.1	324.8
130°	692.2	606.7	538.9	489.6	447.9	414.0	385.5	362.5	348.3	339.5	336.2
132.5°	681.6	606.7	546.7	501.0	461.9	428.0	399.5	375.7	359.7	349.1	345.0
135°	669.2	606.7	557.4	516.9	480.8	446.9	417.3	394.3	376.7	363.6	359.2
137.5°	658.0	608.0	567.3	528.8	494.2	463.3	432.8	410.3	392.8	380.5	377.2
140°	652.7	608.9	571.7	536.7	503.8	472.0	442.4	421.7	404.2	391.0	387.7
142.5°	648.4	609.8	574.3	541.0	509.9	479.9	452.1	432.2	414.6	402.4	399.9
145°	641.8	608.9	577.2	547.6	520.2	491.7	466.6	446.9	431.5	420.6	418.4
147.5°	635.0	606.1	578.2	551.6	526.8	501.8	479.7	462.6	448.4	438.9	437.6
150°	629.7	603.4	578.2	554.2	531.1	507.1	488.4	473.2	458.9	451.2	449.0
152.5°	623.6	599.9	577.4	555.9	535.6	513.2	496.3	481.9	469.4	462.6	461.3
155°	613.3	593.6	575.0	557.4	539.9	521.3	506.0	495.0	484.1	477.5	477.5
157.5°	603.7	587.0	572.1	558.6	543.7	527.6	516.0	506.4	497.0	491.7	492.0
160°	595.8	582.7	569.5	558.6	545.4	531.1	521.3	512.6	504.9	500.5	501.6
162.5°	588.8	577.4	566.8	557.7	547.1	534.7	526.6	519.5	512.7	508.4	509.4
165°	578.2	569.5	562.9	556.4	547.6	538.9	532.3	527.9	522.5	519.2	521.3
167.5°	568.0	561.8	556.8	553.7	547.6	540.4	536.2	533.1	530.1	528.1	529.2
170°	561.8	557.4	554.2	552.0	547.6	542.2	538.9	536.7	534.4	533.4	534.4
172.5°	555.7	552.2	550.6	550.3	546.7	542.2	540.5	539.2	537.1	536.0	538.0
175°	547.6	546.5	546.5	547.6	545.4	542.2	542.2	542.2	541.0	539.9	542.2
177.5°	544.1	543.2	543.2	545.0	544.1	542.3	542.3	543.2	542.3	542.3	544.1
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



TEST NUMBER: P333243-830

CATALOG NUMBER: S125DIP-S850D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1159.3	1164.8	1168.4	1175.0	1180.4	1183.6	1186.4	1188.7	1191.5	1193.8	1200.4
5°	1166.8	1179.5	1190.2	1206.9	1222.1	1233.8	1246.5	1257.8	1267.2	1280.3	1290.6
7.5°	1163.6	1186.2	1209.8	1235.6	1261.9	1286.4	1308.9	1329.9	1349.1	1372.2	1392.4
10°	1160.5	1191.3	1221.6	1256.3	1292.0	1322.4	1350.8	1379.7	1400.7	1430.1	1455.0
12.5°	1158.1	1194.4	1231.0	1272.8	1312.0	1354.9	1392.7	1413.7	1445.8	1469.2	1498.9
15°	1148.2	1196.2	1246.5	1293.5	1349.3	1388.9	1422.3	1463.4	1493.2	1523.1	1555.4
17.5°	1130.5	1184.8	1241.1	1302.8	1356.3	1398.8	1441.7	1481.4	1517.0	1557.1	1597.2
20°	1122.3	1176.6	1241.1	1304.3	1356.7	1401.2	1445.3	1488.8	1528.0	1579.3	1625.9
22.5°	1105.0	1170.7	1230.2	1291.8	1345.7	1394.2	1444.1	1493.6	1545.6	1603.6	1661.9
25°	1074.3	1140.9	1204.0	1264.7	1319.0	1379.7	1433.0	1499.1	1565.7	1642.5	1715.0
27.5°	1042.4	1106.1	1163.9	1222.6	1285.9	1354.6	1423.8	1498.8	1585.9	1682.9	1785.1
30°	1016.5	1076.8	1133.0	1193.2	1259.2	1336.6	1412.5	1501.6	1602.3	1711.5	1832.9
32.5°	986.4	1041.9	1096.6	1160.4	1232.3	1313.9	1402.3	1500.0	1621.2	1745.2	1870.1
35°	934.8	981.3	1037.6	1105.6	1186.8	1280.3	1382.6	1498.1	1637.1	1779.5	1884.8
37.5°	873.6	916.9	976.2	1050.7	1136.0	1236.2	1357.6	1494.7	1642.3	1755.9	1789.8
40°	832.5	872.6	934.3	1011.6	1098.7	1204.9	1338.0	1482.9	1625.9	1698.3	1670.4
42.5°	788.6	830.8	890.8	967.4	1061.2	1176.8	1313.4	1458.3	1578.1	1605.5	1509.1
45°	719.4	763.0	822.2	899.6	1000.4	1125.7	1268.1	1399.8	1468.8	1419.3	1270.1
47.5°	655.2	696.0	750.8	830.7	934.7	1064.3	1201.5	1306.5	1311.9	1194.0	1034.5
50°	611.3	648.9	704.3	784.0	887.3	1018.5	1142.3	1225.0	1187.8	1054.2	901.0
52.5°	568.3	605.1	659.7	738.7	840.7	960.9	1076.1	1134.2	1064.1	927.0	796.1
55°	506.1	538.4	591.7	664.6	761.6	873.2	971.0	991.1	900.0	765.0	658.7
57.5°	445.4	475.5	524.1	591.3	679.8	778.6	855.2	850.9	754.7	638.8	554.5
60°	404.3	433.7	476.7	542.2	623.0	708.2	773.7	758.1	662.7	562.8	491.9
62.5°	367.5	393.7	434.4	491.7	565.4	644.4	698.2	675.1	581.6	494.3	438.2
65°	313.2	335.3	370.0	419.0	480.1	545.3	586.8	556.9	477.2	409.2	364.1
67.5°	261.5	279.1	308.2	347.3	399.4	451.8	477.1	447.0	383.2	333.6	300.2
70°	228.6	244.2	266.7	301.5	347.0	391.1	410.1	383.2	328.4	285.8	261.8
72.5°	195.7	208.6	228.4	259.6	296.1	334.3	351.0	325.3	280.2	244.3	221.9
75°	151.3	160.0	173.7	195.3	224.1	254.5	263.8	241.3	212.4	185.5	170.8
77.5°	108.3	115.7	126.1	139.7	160.1	179.5	187.6	174.6	152.2	135.2	123.1
80°	83.2	87.1	96.0	107.2	123.4	135.5	140.9	132.6	117.0	104.2	94.9
82.5°	59.3	63.2	68.5	77.9	88.1	96.4	102.2	96.6	85.3	75.3	69.8
85°	28.8	31.3	34.2	38.2	46.0	50.9	50.4	46.9	42.6	38.6	35.7
87.5°	10.7	11.4	13.1	15.5	17.1	18.9	20.1	19.5	18.4	17.4	16.5
90°	2.2	4.3	6.6	8.8	10.9	12.1	14.2	15.4	17.5	18.7	19.7
92.5°	16.2	25.4	39.0	57.9	89.8	149.6	250.0	358.8	353.1	285.9	194.1
95°	37.2	46.0	58.1	82.1	131.4	248.6	489.6	791.8	970.3	949.5	787.4
97.5°	61.4	67.5	79.6	101.2	136.7	214.2	390.8	707.1	1036.2	1201.5	1172.7
100°	78.9	83.2	95.3	116.1	148.9	212.4	354.9	630.8	988.9	1262.7	1347.1
102.5°	96.4	99.9	112.8	131.9	163.8	220.4	340.0	573.0	905.7	1226.0	1405.8
105°	123.8	129.2	140.2	157.7	188.4	236.6	334.0	516.9	794.0	1108.3	1371.2
107.5°	154.0	159.2	168.2	186.4	214.0	260.6	344.1	493.2	717.1	988.4	1247.6
110°	174.2	178.5	188.4	204.8	233.3	278.1	353.7	486.3	681.2	919.9	1156.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	194.3	197.7	207.6	224.0	251.7	294.8	366.0	486.3	660.2	869.1	1084.7
115°	223.4	226.7	236.6	253.0	280.4	320.9	384.4	489.6	637.4	813.7	994.5
117.5°	250.8	254.3	264.2	282.8	309.2	347.6	405.5	496.8	626.2	780.6	936.1
120°	268.3	272.7	282.6	301.1	328.6	366.9	419.4	503.8	620.9	762.2	904.7
122.5°	285.9	289.4	299.2	319.6	346.9	385.3	435.3	509.9	616.6	746.5	881.0
125°	308.9	314.3	324.1	345.0	373.4	409.6	456.7	520.2	611.1	725.0	846.6
127.5°	328.1	335.2	347.6	369.8	398.2	433.0	476.5	531.8	608.5	705.3	811.5
130°	339.5	348.3	362.5	385.5	414.0	447.9	489.6	538.9	606.7	692.2	789.7
132.5°	349.1	359.7	375.7	399.5	428.0	461.9	501.0	546.7	606.7	681.6	767.7
135°	363.6	376.7	394.3	417.3	446.9	480.8	516.9	557.4	606.7	669.2	739.2
137.5°	380.5	392.8	410.3	432.8	463.3	494.2	528.8	567.3	608.0	658.0	715.2
140°	391.0	404.2	421.7	442.4	472.0	503.8	536.7	571.7	608.9	652.7	702.0
142.5°	402.4	414.6	432.2	452.1	479.9	509.9	541.0	574.3	609.8	648.4	690.6
145°	420.6	431.5	446.9	466.6	491.7	520.2	547.6	577.2	608.9	641.8	675.7
147.5°	438.9	448.4	462.6	479.7	501.8	526.8	551.6	578.2	606.1	635.0	661.8
150°	451.2	458.9	473.2	488.4	507.1	531.1	554.2	578.2	603.4	629.7	653.8
152.5°	462.6	469.4	481.9	496.3	513.2	535.6	555.9	577.4	599.9	623.6	645.1
155°	477.5	484.1	495.0	506.0	521.3	539.9	557.4	575.0	593.6	613.3	631.9
157.5°	491.7	497.0	506.4	516.0	527.6	543.7	558.6	572.1	587.0	603.7	618.8
160°	500.5	504.9	512.6	521.3	531.1	545.4	558.6	569.5	582.7	595.8	610.0
162.5°	508.4	512.7	519.5	526.6	534.7	547.1	557.7	566.8	577.4	588.8	600.4
165°	519.2	522.5	527.9	532.3	538.9	547.6	556.4	562.9	569.5	578.2	587.0
167.5°	528.1	530.1	533.1	536.2	540.4	547.6	553.7	556.8	561.8	568.0	574.3
170°	533.4	534.4	536.7	538.9	542.2	547.6	552.0	554.2	557.4	561.8	567.3
172.5°	536.0	537.1	539.2	540.5	542.2	546.7	550.3	550.6	552.2	555.7	559.4
175°	539.9	541.0	542.2	542.2	542.2	545.4	547.6	546.5	546.5	547.6	550.9
177.5°	542.3	542.3	543.2	542.3	542.3	544.1	545.0	543.2	543.2	544.1	545.0
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1205.9	1209.1	1215.7	1213.3	1216.5	1218.0	1219.7
5°	1303.3	1319.0	1325.9	1324.8	1335.1	1332.7	1330.2
7.5°	1413.3	1429.8	1439.0	1450.5	1457.1	1457.5	1463.4
10°	1475.6	1497.1	1506.0	1518.2	1526.0	1530.4	1529.9
12.5°	1523.3	1540.2	1560.0	1565.9	1576.5	1582.1	1580.1
15°	1580.8	1607.8	1628.3	1638.6	1651.8	1655.7	1661.1
17.5°	1632.1	1668.2	1692.2	1724.1	1736.2	1743.5	1739.2
20°	1670.8	1718.3	1742.4	1780.6	1801.6	1812.8	1808.9
22.5°	1716.7	1768.1	1812.4	1845.5	1877.5	1892.7	1895.8
25°	1795.2	1865.7	1930.8	1974.3	2013.9	2023.3	2043.8
27.5°	1882.9	1966.0	2035.6	2081.4	2109.0	2119.4	2125.8
30°	1938.2	2020.8	2073.2	2102.5	2111.4	2110.4	2109.4
32.5°	1965.1	2016.9	2026.9	2018.7	1998.6	1981.6	1963.8
35°	1926.8	1888.2	1830.4	1756.1	1701.2	1646.0	1640.5
37.5°	1733.0	1609.3	1513.2	1405.8	1343.9	1305.6	1279.1
40°	1550.5	1410.0	1293.5	1203.0	1139.8	1114.9	1090.4
42.5°	1352.4	1218.1	1115.0	1039.3	991.8	964.1	944.8
45°	1098.7	980.3	899.6	844.7	807.1	785.5	773.3
47.5°	900.3	812.8	744.1	704.6	678.5	661.8	661.9
50°	793.8	710.1	664.6	633.3	610.8	597.6	600.0
52.5°	699.5	637.0	598.0	571.8	555.2	547.1	546.8
55°	584.8	539.8	514.3	495.3	484.0	474.8	476.7
57.5°	500.3	462.3	445.3	429.4	421.6	417.8	412.5
60°	447.8	418.5	403.8	391.1	383.2	380.3	374.8
62.5°	401.2	378.1	363.8	353.5	346.4	345.4	341.2
65°	337.2	319.6	306.9	302.0	294.6	292.7	292.7
67.5°	278.0	265.3	255.5	251.0	247.7	248.3	245.9
70°	240.8	230.5	224.1	219.2	216.8	217.3	215.4
72.5°	210.7	199.2	193.6	190.7	187.5	188.7	187.9
75°	159.6	153.6	150.7	147.8	145.8	144.9	143.9
77.5°	117.2	112.0	109.7	108.1	108.4	106.0	107.8
80°	90.6	86.1	84.6	82.2	81.7	81.7	81.2
82.5°	66.3	63.8	62.8	60.7	59.9	60.6	59.3
85°	34.2	32.3	31.9	31.9	30.8	29.9	32.3
87.5°	16.7	15.4	15.7	15.4	15.4	15.2	14.4
90°	20.8	21.9	24.1	24.1	24.1	25.2	25.2
92.5°	140.8	106.0	89.8	75.8	73.1	71.6	69.8
95°	620.9	486.3	394.3	316.5	283.6	274.9	257.4
97.5°	1056.0	924.8	796.8	729.2	667.9	636.1	622.1
100°	1293.5	1180.6	1066.7	991.2	912.3	871.8	854.2
102.5°	1438.9	1384.8	1307.7	1226.8	1170.7	1126.7	1113.6
105°	1521.3	1569.4	1557.4	1522.3	1486.2	1464.2	1451.1
107.5°	1447.8	1571.6	1628.8	1646.5	1646.3	1639.1	1630.3
110°	1364.6	1519.0	1612.1	1661.4	1682.2	1689.9	1689.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1282.2	1438.4	1548.1	1620.2	1656.0	1675.0	1682.9
115°	1164.2	1314.2	1433.6	1519.0	1571.6	1602.2	1616.5
117.5°	1082.5	1211.7	1321.3	1406.7	1461.0	1491.5	1500.2
120°	1036.0	1156.5	1252.9	1334.0	1386.5	1416.1	1424.8
122.5°	1002.8	1110.1	1200.3	1272.6	1320.8	1350.4	1358.3
125°	958.3	1053.6	1132.5	1193.7	1238.7	1262.7	1273.8
127.5°	915.8	1004.8	1078.6	1134.2	1173.8	1196.7	1201.5
130°	886.0	971.5	1042.6	1097.4	1133.5	1155.5	1162.0
132.5°	858.0	935.5	1004.1	1058.9	1095.0	1115.1	1122.6
135°	814.8	885.0	947.3	995.5	1031.7	1051.4	1058.0
137.5°	776.3	834.5	887.6	930.7	963.6	981.8	988.9
140°	753.5	803.9	849.9	890.4	918.9	935.3	940.8
142.5°	734.2	777.6	817.5	851.9	875.9	891.5	896.1
145°	709.6	743.7	773.2	799.5	818.1	830.2	834.5
147.5°	689.3	715.4	737.7	758.6	773.5	780.4	782.4
150°	678.0	698.7	718.4	734.9	748.0	752.4	753.5
152.5°	666.6	685.6	701.0	714.7	725.2	729.6	730.8
155°	649.4	664.8	676.8	687.8	695.4	698.7	699.8
157.5°	633.2	645.1	654.5	663.0	669.4	672.4	672.2
160°	620.9	631.9	639.6	647.2	652.7	655.0	653.8
162.5°	610.5	619.6	626.4	632.4	637.0	637.4	637.2
165°	594.7	601.2	606.7	611.1	613.3	613.3	613.3
167.5°	579.4	584.4	588.3	590.5	592.5	591.6	591.4
170°	570.6	573.9	576.1	578.2	579.4	579.4	578.2
172.5°	562.7	565.1	566.5	566.8	568.8	567.1	566.0
175°	550.9	553.1	553.1	553.1	554.2	552.0	550.9
177.5°	545.8	545.8	545.8	545.0	545.8	543.2	543.2
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2

(END OF REPORT)