

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: P332046

Luminaire Tested: **S123DIP-S1165D365U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332046
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-S1165D365U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6143.7 lumens
Efficiency: N/A
Efficacy: 123.4 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

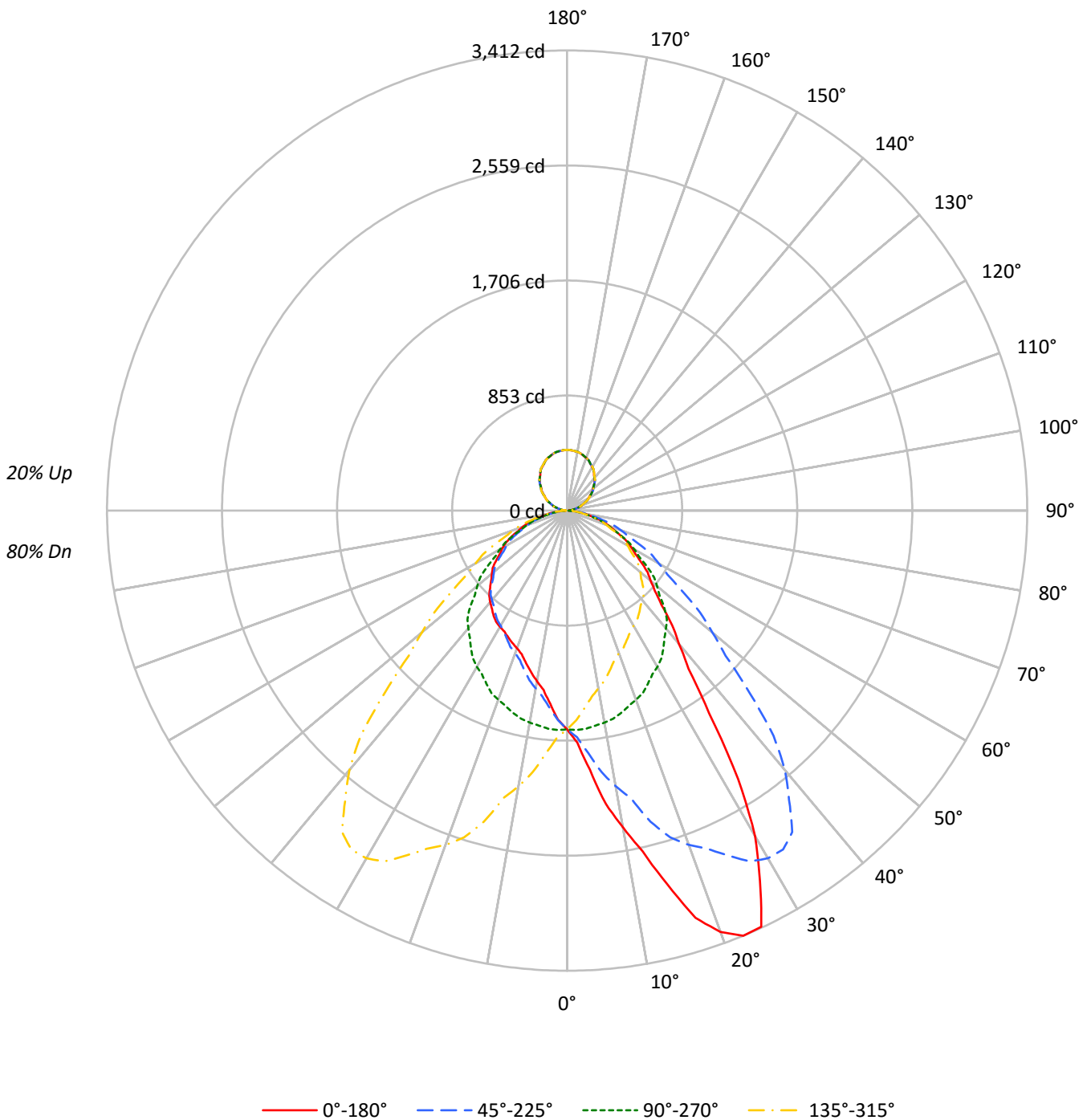
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	91	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	69	61	55	77	67	59	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	46	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	43	39	35	33
7	64	51	43	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	33	56	45	37	32	42	35	31	39	34	29	37	32	28	26
9	55	42	35	29	53	41	34	29	39	32	28	36	31	27	34	29	25	23
10	52	39	32	27	49	38	31	26	36	29	25	33	28	24	31	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17460	17460	17460	17460
5°	20822	17535	15540	17535
10°	26063	17446	14036	17446
15°	31967	17306	13067	17306
20°	38080	17087	12441	17087
25°	40435	16820	12302	16820
30°	34657	16625	12367	16625
35°	24103	16348	12496	16348
40°	18156	16024	12456	16024
45°	15075	15541	12298	15541
50°	13504	14555	12188	14555
55°	12624	13495	12035	13495
60°	11842	12385	11911	12385
65°	11130	11291	11530	11291
70°	10439	10043	10980	10043
75°	9349	8792	10069	8792
80°	8182	7209	8672	7209
85°	6410	5236	5829	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.6
10°-20°	512.4	8.3
20°-30°	859.9	14.0
30°-40°	973.7	15.8
40°-50°	873.2	14.2
50°-60°	704.7	11.5
60°-70°	491.0	8.0
70°-80°	258.1	4.2
80°-90°	64.5	1.0
90°-100°	29.3	0.5
100°-110°	87.7	1.4
110°-120°	149.2	2.4
120°-130°	196.2	3.2
130°-140°	220.6	3.6
140°-150°	216.8	3.5
150°-160°	182.5	3.0
160°-170°	121.5	2.0
170°-180°	42.5	0.7
0°-30°	1532.1	24.9
0°-40°	2505.8	40.8
0°-60°	4083.7	66.5
0°-90°	4897.3	79.7
90°-120°	266.2	4.3
90°-150°	899.9	14.6
90°-180°	1246.0	20.3
0°-180°	6143.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1622	1622	1622	1622	1622	
5°	1927	1623	1438	1623	1927	200
15°	2869	1553	1173	1553	2869	828
25°	3405	1416	1036	1416	3405	1493
35°	1834	1244	951	1244	1834	1192
45°	990	1021	808	1021	990	784
55°	673	719	641	719	673	604
65°	437	443	453	443	437	435
75°	225	211	242	211	225	241
85°	52	42	47	42	52	62
90°	11	0	11	0	11	8
95°	28	21	28	21	28	28
105°	84	80	84	80	84	89
115°	150	150	150	150	150	149
125°	217	220	217	220	217	194
135°	285	285	285	285	285	219
145°	346	346	346	346	346	216
155°	395	396	395	396	395	182
165°	430	432	430	432	430	121
175°	447	449	447	449	447	42
180°	450	450	450	450	450	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1721.5	1720.2	1717.1	1719.6	1714.6	1707.6	1707.0	1700.7	1682.5	1681.2	1676.2
5°	1927.1	1920.8	1920.0	1919.2	1908.2	1893.3	1865.0	1862.6	1824.9	1806.0	1783.3
7.5°	2193.3	2196.6	2185.2	2175.1	2141.5	2119.3	2089.0	2050.2	2003.8	1956.8	1925.5
10°	2384.5	2410.4	2378.2	2356.2	2335.8	2297.2	2252.5	2196.6	2140.8	2075.6	2026.1
12.5°	2589.5	2602.2	2595.7	2575.0	2543.2	2484.6	2405.2	2343.8	2292.4	2183.8	2139.9
15°	2868.6	2916.6	2885.9	2815.2	2816.7	2760.9	2657.2	2543.2	2482.7	2387.6	2258.0
17.5°	3166.0	3172.0	3158.9	3100.0	3060.7	2984.0	2888.3	2779.0	2656.4	2541.4	2403.8
20°	3324.4	3319.7	3292.2	3261.6	3194.0	3134.3	3029.7	2907.9	2750.7	2637.6	2487.4
22.5°	3412.5	3404.6	3391.6	3365.9	3309.7	3245.5	3151.7	3018.6	2868.9	2713.0	2539.6
25°	3404.6	3414.8	3416.4	3409.3	3389.7	3351.2	3277.3	3171.2	3021.9	2821.5	2640.7
27.5°	3096.5	3111.0	3153.0	3190.2	3231.9	3274.3	3268.6	3216.0	3105.5	2932.4	2711.4
30°	2788.4	2757.0	2834.8	2933.1	2999.9	3117.7	3183.8	3187.7	3125.6	2977.1	2761.7
32.5°	2360.9	2395.5	2429.9	2550.8	2696.8	2829.2	2960.6	3066.4	3078.5	2979.6	2791.3
35°	1834.3	1877.6	1940.4	2003.3	2160.5	2295.7	2526.7	2727.9	2888.3	2909.5	2793.9
37.5°	1478.2	1499.5	1539.3	1602.3	1705.1	1865.5	2044.2	2298.5	2530.8	2703.6	2711.1
40°	1292.1	1298.3	1343.1	1391.1	1474.4	1606.4	1767.5	1992.3	2270.5	2511.8	2612.4
42.5°	1152.5	1166.3	1185.3	1231.4	1297.7	1397.1	1546.9	1732.6	1987.6	2265.3	2462.1
45°	990.3	1006.0	1017.8	1048.4	1095.6	1162.4	1266.9	1436.7	1630.8	1917.6	2182.5
47.5°	883.1	884.3	893.1	916.2	948.3	998.4	1072.3	1181.4	1359.6	1592.3	1864.2
50°	806.4	818.9	822.1	840.1	865.3	902.2	963.5	1056.3	1202.5	1406.8	1656.7
52.5°	752.3	756.1	764.9	777.9	799.9	828.7	881.8	954.4	1069.2	1243.3	1473.1
55°	672.7	672.7	681.4	691.6	704.2	730.1	765.5	818.9	906.2	1041.3	1231.5
57.5°	599.2	603.1	609.2	612.4	623.1	640.2	669.8	710.3	775.4	879.4	1030.7
60°	550.1	557.2	556.4	562.7	572.2	585.5	610.7	643.7	701.8	785.1	912.5
62.5°	507.4	506.9	506.8	514.3	523.7	536.5	552.8	581.4	630.8	704.7	813.1
65°	437.0	435.4	440.9	445.6	448.8	458.2	470.8	495.9	528.9	583.9	668.0
67.5°	374.4	369.9	372.8	374.4	379.8	387.1	398.9	414.5	440.7	484.9	548.3
70°	331.7	327.7	326.9	328.5	333.2	338.7	347.4	362.3	386.7	422.0	468.4
72.5°	287.6	285.0	284.8	288.3	290.5	294.1	300.2	313.9	333.2	359.8	403.0
75°	224.8	224.8	224.8	225.6	227.9	231.1	235.8	242.8	257.8	276.6	305.7
77.5°	168.5	168.3	167.4	167.2	170.7	172.1	173.2	179.8	188.1	200.9	222.1
80°	132.0	128.1	129.7	132.0	133.6	134.4	136.8	138.3	145.4	152.5	167.4
82.5°	98.1	94.8	95.1	98.7	99.0	99.8	102.2	104.4	107.0	113.5	121.5
85°	51.9	51.9	52.7	52.7	53.4	52.7	55.0	55.8	55.8	59.7	64.4
87.5°	21.0	19.7	20.3	20.9	20.2	20.8	21.4	21.9	22.5	23.1	23.5
90°	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1	8.8	8.5	7.5
92.5°	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1	13.8	13.6	13.0
95°	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8	26.5	26.2	25.5
97.5°	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6	41.3	40.9	40.5
100°	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4	52.2	51.9	51.6
102.5°	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9	64.6	64.4	63.9
105°	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4	83.4	83.4	82.7
107.5°	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5	103.2	103.0	102.7
110°	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9	116.6	116.3	116.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3	129.9	129.6	129.5
115°	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7	150.6	150.5	150.7
117.5°	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3	171.3	171.3	171.5
120°	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0	185.1	185.2	185.6
122.5°	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9	199.1	199.3	199.5
125°	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5	219.8	220.2	220.3
127.5°	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9	240.4	240.8	241.0
130°	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5	253.8	254.1	254.3
132.5°	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6	267.0	267.4	267.5
135°	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3	286.6	287.0	287.0
137.5°	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6	305.9	306.2	306.0
140°	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2	318.3	318.4	318.3
142.5°	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1	330.2	330.3	330.1
145°	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6	347.7	347.7	347.5
147.5°	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2	374.2	374.2	374.1
152.5°	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5	383.4	383.3	383.2
155°	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1	396.8	396.5	396.4
157.5°	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8	408.5	408.2	408.1
160°	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0	415.6	415.2	415.2
162.5°	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8	422.4	422.0	422.0
165°	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4	430.9	430.4	430.4
167.5°	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3	437.8	437.4	437.3
170°	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1	441.6	441.0	441.0
172.5°	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1	444.6	444.1	444.1
175°	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3	447.9	447.4	447.4
177.5°	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8	449.4	449.0	449.0
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1672.4	1667.4	1662.4	1653.6	1646.0	1635.3	1632.2	1628.4	1617.1	1607.1	1599.5
5°	1774.6	1755.7	1728.2	1703.1	1682.7	1655.2	1639.4	1622.9	1599.3	1578.1	1560.8
7.5°	1881.5	1844.4	1801.6	1755.4	1712.4	1670.9	1637.4	1607.5	1574.5	1543.2	1518.9
10°	1966.4	1912.9	1853.2	1788.8	1733.7	1680.3	1635.5	1596.2	1553.8	1516.8	1486.2
12.5°	2063.2	1984.0	1901.6	1823.3	1758.3	1684.1	1629.8	1579.9	1531.8	1487.3	1452.9
15°	2177.8	2077.2	1979.7	1872.1	1773.0	1680.3	1615.9	1553.0	1497.2	1451.6	1407.6
17.5°	2282.2	2168.2	2039.8	1908.8	1789.4	1679.4	1589.1	1518.1	1448.3	1392.5	1348.6
20°	2341.3	2211.6	2066.2	1930.2	1798.2	1675.6	1576.6	1491.7	1416.2	1357.3	1307.8
22.5°	2392.2	2240.5	2090.1	1944.7	1797.6	1665.5	1553.3	1465.9	1384.2	1326.5	1273.8
25°	2445.0	2263.5	2112.6	1942.0	1777.8	1641.0	1515.3	1416.2	1334.5	1266.9	1212.7
27.5°	2490.3	2261.9	2082.8	1899.4	1746.6	1609.6	1475.3	1369.1	1282.3	1208.9	1153.9
30°	2520.4	2265.0	2052.0	1870.5	1716.5	1575.0	1444.5	1337.6	1246.5	1171.8	1119.9
32.5°	2539.3	2263.1	2023.7	1830.3	1668.7	1543.5	1411.2	1300.5	1206.9	1133.5	1083.5
35°	2550.3	2249.3	1975.0	1747.1	1591.5	1469.7	1358.9	1244.1	1145.9	1077.5	1020.9
37.5°	2528.3	2220.2	1918.4	1666.9	1496.6	1376.6	1283.4	1185.6	1091.6	1016.4	967.6
40°	2493.7	2201.4	1874.4	1610.4	1431.2	1315.6	1236.3	1140.4	1047.6	976.1	930.5
42.5°	2427.7	2163.0	1826.0	1547.5	1363.3	1247.7	1174.6	1094.5	1006.8	939.6	894.1
45°	2266.6	2079.5	1753.4	1453.2	1263.0	1143.5	1079.1	1020.9	941.5	876.3	837.0
47.5°	2043.1	1954.0	1648.4	1353.7	1158.3	1043.4	976.4	929.6	871.6	818.9	781.2
50°	1887.8	1850.8	1577.3	1285.8	1088.5	976.1	911.7	869.2	827.6	774.9	740.3
52.5°	1708.6	1731.4	1494.4	1215.3	1017.5	907.0	846.3	812.6	774.8	731.5	701.4
55°	1456.3	1538.8	1351.0	1097.1	911.7	806.4	749.0	719.1	697.1	664.9	639.0
57.5°	1220.1	1325.1	1196.0	975.3	807.8	716.9	661.9	629.4	615.2	598.4	578.0
60°	1079.9	1183.6	1085.4	893.6	738.0	651.5	602.8	575.3	561.1	549.4	532.1
62.5°	954.7	1059.7	977.2	810.6	669.4	589.3	546.8	520.0	509.0	502.8	488.1
65°	782.8	873.2	818.1	681.4	571.4	500.6	462.1	443.3	433.0	430.7	421.3
67.5°	637.1	705.9	665.8	565.2	478.6	417.5	384.8	368.8	360.9	360.1	353.0
70°	541.5	605.9	575.3	484.1	409.5	361.5	333.2	319.1	314.4	313.6	309.7
72.5°	467.3	512.3	487.9	411.8	354.1	310.6	289.8	275.1	269.7	270.8	268.2
75°	345.8	379.6	365.5	312.8	266.4	238.1	220.8	211.4	206.7	209.1	205.9
77.5°	248.8	270.2	257.5	221.0	192.4	172.0	159.2	153.4	149.2	149.0	147.6
80°	187.8	200.4	193.3	171.3	147.8	130.5	120.2	116.3	114.0	113.2	112.4
82.5°	133.8	144.5	136.1	121.0	105.0	94.6	88.8	83.6	81.9	82.4	81.6
85°	67.6	71.5	68.4	58.9	52.7	47.9	44.8	42.4	40.9	41.7	40.1
87.5°	24.6	25.0	22.9	20.2	18.8	16.7	16.6	15.2	14.1	14.2	13.7
90°	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4	1.1	1.9	2.7
92.5°	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6	9.1	9.6	10.2
95°	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9	21.4	21.9	22.5
97.5°	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0	37.4	37.9	38.3
100°	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1	48.5	49.0	49.5
102.5°	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8	61.1	61.3	61.6
105°	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5	79.7	79.8	80.0
107.5°	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3	101.4	101.5	101.6
110°	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9	115.0	115.2	115.3



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0	129.1	129.2	129.3
115°	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2	150.4	150.7	150.9
117.5°	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5	171.7	171.9	172.0
120°	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8	185.3	185.8	186.2
122.5°	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7	199.0	199.4	199.7
125°	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8	220.0	220.3	220.5
127.5°	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3	239.8	240.3	240.8
130°	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3	252.9	253.6	254.2
132.5°	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3	266.0	266.6	267.2
135°	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2	285.7	286.1	286.6
137.5°	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6	304.0	304.3	304.7
140°	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3	316.7	317.1	317.5
142.5°	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9	328.3	328.7	329.1
145°	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0	346.1	346.3	346.4
147.5°	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8	362.1	362.4	362.7
150°	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8	373.0	373.1	373.3
152.5°	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9	382.1	382.3	382.5
155°	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3	408.2	408.1	408.0
160°	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9	415.8	415.6	415.5
162.5°	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7	422.5	422.3	422.1
165°	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5	431.3	431.0	430.8
167.5°	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5	438.2	437.9	437.5
170°	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4	442.1	441.8	441.5
172.5°	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6	445.2	444.9	444.6
175°	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8	448.5	448.2	447.9
177.5°	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1	449.9	449.6	449.4
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1595.1	1590.7	1584.4	1575.0	1567.4	1555.5	1555.5	1557.4	1557.4	1556.8	1555.5
5°	1546.7	1534.9	1520.8	1504.3	1487.0	1469.7	1466.5	1460.2	1455.5	1452.4	1448.5
7.5°	1495.6	1474.7	1454.1	1431.0	1409.9	1392.5	1380.4	1370.3	1363.9	1357.0	1351.9
10°	1461.0	1435.1	1410.7	1386.4	1359.6	1338.4	1325.1	1315.6	1308.6	1302.3	1299.1
12.5°	1420.2	1390.5	1363.6	1340.5	1311.2	1289.4	1276.7	1272.2	1263.9	1250.7	1243.8
15°	1360.4	1332.9	1300.7	1265.3	1251.2	1224.5	1209.5	1202.5	1197.7	1187.5	1184.4
17.5°	1309.3	1273.3	1237.2	1210.8	1184.5	1162.8	1154.5	1145.7	1139.4	1131.1	1128.6
20°	1268.5	1236.3	1203.2	1175.0	1147.4	1123.9	1116.8	1110.5	1104.2	1100.3	1097.1
22.5°	1227.0	1194.8	1167.4	1141.0	1111.6	1096.2	1088.5	1081.6	1077.2	1074.5	1071.4
25°	1168.7	1140.4	1109.7	1086.1	1062.6	1052.3	1047.6	1043.7	1040.6	1036.6	1035.8
27.5°	1116.5	1085.7	1060.8	1038.8	1021.9	1013.4	1008.8	1006.9	1007.6	1009.0	1009.9
30°	1077.5	1049.2	1028.8	1009.9	994.2	986.3	985.5	985.5	988.7	989.5	991.0
32.5°	1041.7	1018.4	998.0	979.7	967.8	962.4	965.4	965.4	967.9	970.0	972.8
35°	989.5	969.0	953.3	937.6	927.4	929.7	931.3	932.9	936.8	941.5	944.7
37.5°	939.6	921.9	905.5	893.3	888.6	892.8	896.6	899.9	904.4	908.1	911.2
40°	903.8	890.4	874.7	863.7	865.3	867.7	870.8	874.7	878.7	881.0	884.2
42.5°	870.5	856.5	844.6	835.4	837.6	840.6	842.5	844.6	849.1	853.4	855.2
45°	819.7	808.7	797.7	792.2	793.8	795.4	796.9	799.3	803.2	806.4	807.1
47.5°	762.7	755.0	747.6	742.2	744.7	744.1	746.2	751.2	752.4	754.3	758.7
50°	726.2	719.1	710.5	708.9	708.9	708.9	709.7	716.0	716.0	719.1	722.3
52.5°	686.0	681.4	675.9	673.1	671.8	671.8	675.1	678.3	679.5	683.9	687.1
55°	626.4	621.7	616.9	614.6	613.0	614.6	620.9	622.4	626.4	628.7	631.1
57.5°	564.3	560.7	556.9	555.6	555.3	557.4	560.8	565.5	566.5	573.7	577.3
60°	523.4	517.9	514.8	514.8	513.2	520.3	518.7	526.6	528.1	532.9	538.4
62.5°	481.3	473.9	472.7	472.7	474.9	476.9	479.1	482.6	486.6	492.6	496.9
65°	413.4	409.5	415.0	414.2	412.6	417.3	417.3	421.3	426.0	431.5	440.1
67.5°	349.1	347.1	347.5	347.5	349.9	352.6	354.8	358.2	363.9	369.7	375.4
70°	305.7	308.1	304.2	307.3	309.7	310.4	312.0	316.7	323.0	326.9	333.2
72.5°	263.6	263.4	263.9	265.2	267.5	268.9	270.5	275.9	282.8	286.1	291.1
75°	202.8	202.0	204.3	204.3	208.3	209.8	211.4	213.8	220.1	224.8	228.7
77.5°	148.1	149.0	148.5	151.2	150.1	150.4	155.3	157.7	158.3	167.6	169.6
80°	111.6	113.2	114.0	114.7	115.5	114.0	119.5	121.8	121.8	127.3	131.2
82.5°	80.2	81.1	83.2	83.9	84.1	85.7	86.1	87.9	89.8	92.1	97.3
85°	40.1	42.4	43.2	42.4	43.2	41.7	44.0	44.8	45.6	45.6	45.6
87.5°	13.3	14.1	13.7	14.5	14.1	14.9	15.0	13.8	13.8	15.8	13.3
90°	3.5	4.4	5.4	6.4	7.5	8.5	8.8	9.1	9.4	9.7	10.0
92.5°	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1	14.3	14.6	14.7
95°	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8	27.1	27.4	27.6
97.5°	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6	42.0	42.4	42.5
100°	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4	52.7	52.9	53.1
102.5°	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9	65.1	65.3	65.4
105°	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4	83.4	83.4	83.5
107.5°	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5	103.7	104.0	104.1
110°	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9	117.2	117.5	117.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3	130.7	131.1	131.2
115°	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7	150.8	150.9	150.9
117.5°	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3	171.3	171.3	171.1
120°	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0	184.9	184.9	184.7
122.5°	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9	198.7	198.5	198.3
125°	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5	219.2	218.9	218.6
127.5°	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9	239.5	239.0	238.6
130°	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5	253.1	252.8	252.4
132.5°	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6	266.2	265.9	265.5
135°	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3	286.0	285.7	285.5
137.5°	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6	305.3	304.9	304.6
140°	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2	318.2	318.1	317.8
142.5°	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1	330.0	330.0	329.7
145°	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6	347.5	347.4	347.2
147.5°	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2	374.2	374.2	374.0
152.5°	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5	383.7	383.8	383.6
155°	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1	397.4	397.8	397.6
157.5°	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8	409.2	409.5	409.4
160°	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0	416.4	416.8	416.8
162.5°	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8	423.2	423.6	423.5
165°	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4	431.8	432.3	432.3
167.5°	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3	438.8	439.3	439.3
170°	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1	442.7	443.2	443.2
172.5°	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1	445.6	446.1	446.1
175°	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3	448.8	449.3	449.2
177.5°	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8	450.1	450.5	450.5
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1551.1	1550.5	1554.9	1551.7	1554.9	1550.5	1551.1	1555.5	1556.8	1557.4	1557.4
5°	1443.7	1446.1	1438.2	1438.2	1438.2	1446.1	1443.7	1448.5	1452.4	1455.5	1460.2
7.5°	1348.2	1344.7	1345.0	1340.8	1345.0	1344.7	1348.2	1351.9	1357.0	1363.9	1370.3
10°	1289.7	1285.0	1283.4	1284.2	1283.4	1285.0	1289.7	1299.1	1302.3	1308.6	1315.6
12.5°	1241.3	1240.3	1230.0	1230.1	1230.0	1240.3	1241.3	1243.8	1250.7	1263.9	1272.2
15°	1184.4	1169.5	1167.9	1172.6	1167.9	1169.5	1184.4	1184.4	1187.5	1197.7	1202.5
17.5°	1127.3	1119.5	1119.9	1117.6	1119.9	1119.5	1127.3	1128.6	1131.1	1139.4	1145.7
20°	1097.1	1092.4	1091.6	1086.1	1091.6	1092.4	1097.1	1097.1	1100.3	1104.2	1110.5
22.5°	1069.5	1067.9	1068.4	1062.3	1068.4	1067.9	1069.5	1071.4	1074.5	1077.2	1081.6
25°	1035.1	1039.0	1035.8	1035.8	1035.8	1039.0	1035.1	1035.8	1036.6	1040.6	1043.7
27.5°	1011.8	1011.6	1010.1	1010.1	1010.1	1011.6	1011.8	1009.9	1009.0	1007.6	1006.9
30°	994.2	993.4	995.0	995.0	995.0	993.4	994.2	991.0	989.5	988.7	985.5
32.5°	976.6	977.7	978.0	978.6	978.0	977.7	976.6	972.8	970.0	967.9	965.4
35°	949.4	950.2	952.5	951.0	952.5	950.2	949.4	944.7	941.5	936.8	932.9
37.5°	912.6	916.2	915.4	916.7	915.4	916.2	912.6	911.2	908.1	904.4	899.9
40°	884.9	887.3	886.5	886.5	886.5	887.3	884.9	884.2	881.0	878.7	874.7
42.5°	856.7	858.4	856.3	855.1	856.3	858.4	856.7	855.2	853.4	849.1	844.6
45°	810.3	808.7	811.1	807.9	811.1	808.7	810.3	807.1	806.4	803.2	799.3
47.5°	758.4	760.0	760.6	763.0	760.6	760.0	758.4	758.7	754.3	752.4	751.2
50°	723.8	728.5	728.5	727.8	728.5	728.5	723.8	722.3	719.1	716.0	716.0
52.5°	689.9	692.1	695.2	695.1	695.2	692.1	689.9	687.1	683.9	679.5	678.3
55°	637.4	639.0	640.5	641.3	640.5	639.0	637.4	631.1	628.7	626.4	622.4
57.5°	583.0	582.4	586.1	587.2	586.1	582.4	583.0	577.3	573.7	566.5	565.5
60°	544.6	544.6	550.9	553.3	550.9	544.6	544.6	538.4	532.9	528.1	526.6
62.5°	503.8	506.3	512.6	509.3	512.6	506.3	503.8	496.9	492.6	486.6	482.6
65°	444.0	450.3	449.5	452.7	449.5	450.3	444.0	440.1	431.5	426.0	421.3
67.5°	381.6	385.6	391.2	391.7	391.2	385.6	381.6	375.4	369.7	363.9	358.2
70°	339.5	343.4	346.6	348.9	346.6	343.4	339.5	333.2	326.9	323.0	316.7
72.5°	298.7	300.7	308.2	304.9	308.2	300.7	298.7	291.1	286.1	282.8	275.9
75°	234.2	239.7	244.4	242.1	244.4	239.7	234.2	228.7	224.8	220.1	213.8
77.5°	173.2	178.7	180.9	178.9	180.9	178.7	173.2	169.6	167.6	158.3	157.7
80°	136.8	136.0	140.7	139.9	140.7	136.0	136.8	131.2	127.3	121.8	121.8
82.5°	100.3	99.5	101.7	102.2	101.7	99.5	100.3	97.3	92.1	89.8	87.9
85°	48.7	51.1	47.9	47.2	47.9	51.1	48.7	45.6	45.6	45.6	44.8
87.5°	13.3	13.4	12.8	12.2	12.8	13.4	13.3	13.3	15.8	13.8	13.8
90°	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1
92.5°	14.6	14.5	14.4	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1
95°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8
97.5°	42.5	42.5	42.4	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6
100°	53.2	53.4	53.6	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4
102.5°	65.4	65.4	65.3	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9
105°	83.6	83.8	84.0	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4
107.5°	104.0	103.9	103.8	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5
110°	117.4	117.3	117.1	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	131.2	131.2	131.1	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3
115°	150.8	150.7	150.6	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7
117.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3
120°	184.6	184.4	184.3	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0
122.5°	198.1	197.8	197.6	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9
125°	218.3	218.0	217.6	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5
127.5°	238.3	237.9	237.6	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9
130°	251.9	251.3	250.8	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5
132.5°	265.0	264.6	264.2	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6
135°	285.3	285.1	285.0	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3
137.5°	304.3	304.0	303.7	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6
140°	317.2	316.7	316.1	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2
142.5°	329.3	328.9	328.4	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1
145°	346.9	346.6	346.3	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6
147.5°	363.4	362.9	362.4	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1
150°	373.5	373.1	372.6	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2
152.5°	383.2	382.8	382.4	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5
155°	397.1	396.5	396.0	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1
157.5°	409.0	408.6	408.1	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8
160°	416.5	416.2	415.9	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0
162.5°	423.0	422.5	422.0	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8
165°	431.7	431.2	430.6	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4
167.5°	438.8	438.3	437.8	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3
170°	442.7	442.1	441.6	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1
172.5°	445.5	445.0	444.4	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1
175°	448.7	448.1	447.6	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3
177.5°	450.1	449.6	449.2	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1555.5	1555.5	1567.4	1575.0	1584.4	1590.7	1595.1	1599.5	1607.1	1617.1	1628.4
5°	1466.5	1469.7	1487.0	1504.3	1520.8	1534.9	1546.7	1560.8	1578.1	1599.3	1622.9
7.5°	1380.4	1392.5	1409.9	1431.0	1454.1	1474.7	1495.6	1518.9	1543.2	1574.5	1607.5
10°	1325.1	1338.4	1359.6	1386.4	1410.7	1435.1	1461.0	1486.2	1516.8	1553.8	1596.2
12.5°	1276.7	1289.4	1311.2	1340.5	1363.6	1390.5	1420.2	1452.9	1487.3	1531.8	1579.9
15°	1209.5	1224.5	1251.2	1265.3	1300.7	1332.9	1360.4	1407.6	1451.6	1497.2	1553.0
17.5°	1154.5	1162.8	1184.5	1210.8	1237.2	1273.3	1309.3	1348.6	1392.5	1448.3	1518.1
20°	1116.8	1123.9	1147.4	1175.0	1203.2	1236.3	1268.5	1307.8	1357.3	1416.2	1491.7
22.5°	1088.5	1096.2	1111.6	1141.0	1167.4	1194.8	1227.0	1273.8	1326.5	1384.2	1465.9
25°	1047.6	1052.3	1062.6	1086.1	1109.7	1140.4	1168.7	1212.7	1266.9	1334.5	1416.2
27.5°	1008.8	1013.4	1021.9	1038.8	1060.8	1085.7	1116.5	1153.9	1208.9	1282.3	1369.1
30°	985.5	986.3	994.2	1009.9	1028.8	1049.2	1077.5	1119.9	1171.8	1246.5	1337.6
32.5°	965.4	962.4	967.8	979.7	998.0	1018.4	1041.7	1083.5	1133.5	1206.9	1300.5
35°	931.3	929.7	927.4	937.6	953.3	969.0	989.5	1020.9	1077.5	1145.9	1244.1
37.5°	896.6	892.8	888.6	893.3	905.5	921.9	939.6	967.6	1016.4	1091.6	1185.6
40°	870.8	867.7	865.3	863.7	874.7	890.4	903.8	930.5	976.1	1047.6	1140.4
42.5°	842.5	840.6	837.6	835.4	844.6	856.5	870.5	894.1	939.6	1006.8	1094.5
45°	796.9	795.4	793.8	792.2	797.7	808.7	819.7	837.0	876.3	941.5	1020.9
47.5°	746.2	744.1	744.7	742.2	747.6	755.0	762.7	781.2	818.9	871.6	929.6
50°	709.7	708.9	708.9	708.9	710.5	719.1	726.2	740.3	774.9	827.6	869.2
52.5°	675.1	671.8	671.8	673.1	675.9	681.4	686.0	701.4	731.5	774.8	812.6
55°	620.9	614.6	613.0	614.6	616.9	621.7	626.4	639.0	664.9	697.1	719.1
57.5°	560.8	557.4	555.3	555.6	556.9	560.7	564.3	578.0	598.4	615.2	629.4
60°	518.7	520.3	513.2	514.8	514.8	517.9	523.4	532.1	549.4	561.1	575.3
62.5°	479.1	476.9	474.9	472.7	472.7	473.9	481.3	488.1	502.8	509.0	520.0
65°	417.3	417.3	412.6	414.2	415.0	409.5	413.4	421.3	430.7	433.0	443.3
67.5°	354.8	352.6	349.9	347.5	347.5	347.1	349.1	353.0	360.1	360.9	368.8
70°	312.0	310.4	309.7	307.3	304.2	308.1	305.7	309.7	313.6	314.4	319.1
72.5°	270.5	268.9	267.5	265.2	263.9	263.4	263.6	268.2	270.8	269.7	275.1
75°	211.4	209.8	208.3	204.3	204.3	202.0	202.8	205.9	209.1	206.7	211.4
77.5°	155.3	150.4	150.1	151.2	148.5	149.0	148.1	147.6	149.0	149.2	153.4
80°	119.5	114.0	115.5	114.7	114.0	113.2	111.6	112.4	113.2	114.0	116.3
82.5°	86.1	85.7	84.1	83.9	83.2	81.1	80.2	81.6	82.4	81.9	83.6
85°	44.0	41.7	43.2	42.4	43.2	42.4	40.1	40.1	41.7	40.9	42.4
87.5°	15.0	14.9	14.1	14.5	13.7	14.1	13.3	13.7	14.2	14.1	15.2
90°	8.8	8.5	7.5	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4
92.5°	13.8	13.6	13.0	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6
95°	26.5	26.2	25.5	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9
97.5°	41.3	40.9	40.5	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0
100°	52.2	51.9	51.6	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1
102.5°	64.6	64.4	63.9	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8
105°	83.4	83.4	82.7	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5
107.5°	103.2	103.0	102.7	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3
110°	116.6	116.3	116.1	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	129.9	129.6	129.5	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0
115°	150.6	150.5	150.7	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2
117.5°	171.3	171.3	171.5	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5
120°	185.1	185.2	185.6	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8
122.5°	199.1	199.3	199.5	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7
125°	219.8	220.2	220.3	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8
127.5°	240.4	240.8	241.0	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3
130°	253.8	254.1	254.3	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3
132.5°	267.0	267.4	267.5	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3
135°	286.6	287.0	287.0	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2
137.5°	305.9	306.2	306.0	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6
140°	318.3	318.4	318.3	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3
142.5°	330.2	330.3	330.1	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9
145°	347.7	347.7	347.5	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0
147.5°	364.1	364.1	363.8	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8
150°	374.2	374.2	374.1	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8
152.5°	383.4	383.3	383.2	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9
155°	396.8	396.5	396.4	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.5	408.2	408.1	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3
160°	415.6	415.2	415.2	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9
162.5°	422.4	422.0	422.0	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7
165°	430.9	430.4	430.4	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5
167.5°	437.8	437.4	437.3	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5
170°	441.6	441.0	441.0	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4
172.5°	444.6	444.1	444.1	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6
175°	447.9	447.4	447.4	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8
177.5°	449.4	449.0	449.0	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332046

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1632.2	1635.3	1646.0	1653.6	1662.4	1667.4	1672.4	1676.2	1681.2	1682.5	1700.7
5°	1639.4	1655.2	1682.7	1703.1	1728.2	1755.7	1774.6	1783.3	1806.0	1824.9	1862.6
7.5°	1637.4	1670.9	1712.4	1755.4	1801.6	1844.4	1881.5	1925.5	1956.8	2003.8	2050.2
10°	1635.5	1680.3	1733.7	1788.8	1853.2	1912.9	1966.4	2026.1	2075.6	2140.8	2196.6
12.5°	1629.8	1684.1	1758.3	1823.3	1901.6	1984.0	2063.2	2139.9	2183.8	2292.4	2343.8
15°	1615.9	1680.3	1773.0	1872.1	1979.7	2077.2	2177.8	2258.0	2387.6	2482.7	2543.2
17.5°	1589.1	1679.4	1789.4	1908.8	2039.8	2168.2	2282.2	2403.8	2541.4	2656.4	2779.0
20°	1576.6	1675.6	1798.2	1930.2	2066.2	2211.6	2341.3	2487.4	2637.6	2750.7	2907.9
22.5°	1553.3	1665.5	1797.6	1944.7	2090.1	2240.5	2392.2	2539.6	2713.0	2868.9	3018.6
25°	1515.3	1641.0	1777.8	1942.0	2112.6	2263.5	2445.0	2640.7	2821.5	3021.9	3171.2
27.5°	1475.3	1609.6	1746.6	1899.4	2082.8	2261.9	2490.3	2711.4	2932.4	3105.5	3216.0
30°	1444.5	1575.0	1716.5	1870.5	2052.0	2265.0	2520.4	2761.7	2977.1	3125.6	3187.7
32.5°	1411.2	1543.5	1668.7	1830.3	2023.7	2263.1	2539.3	2791.3	2979.6	3078.5	3066.4
35°	1358.9	1469.7	1591.5	1747.1	1975.0	2249.3	2550.3	2793.9	2909.5	2888.3	2727.9
37.5°	1283.4	1376.6	1496.6	1666.9	1918.4	2220.2	2528.3	2711.1	2703.6	2530.8	2298.5
40°	1236.3	1315.6	1431.2	1610.4	1874.4	2201.4	2493.7	2612.4	2511.8	2270.5	1992.3
42.5°	1174.6	1247.7	1363.3	1547.5	1826.0	2163.0	2427.7	2462.1	2265.3	1987.6	1732.6
45°	1079.1	1143.5	1263.0	1453.2	1753.4	2079.5	2266.6	2182.5	1917.6	1630.8	1436.7
47.5°	976.4	1043.4	1158.3	1353.7	1648.4	1954.0	2043.1	1864.2	1592.3	1359.6	1181.4
50°	911.7	976.1	1088.5	1285.8	1577.3	1850.8	1887.8	1656.7	1406.8	1202.5	1056.3
52.5°	846.3	907.0	1017.5	1215.3	1494.4	1731.4	1708.6	1473.1	1243.3	1069.2	954.4
55°	749.0	806.4	911.7	1097.1	1351.0	1538.8	1456.3	1231.5	1041.3	906.2	818.9
57.5°	661.9	716.9	807.8	975.3	1196.0	1325.1	1220.1	1030.7	879.4	775.4	710.3
60°	602.8	651.5	738.0	893.6	1085.4	1183.6	1079.9	912.5	785.1	701.8	643.7
62.5°	546.8	589.3	669.4	810.6	977.2	1059.7	954.7	813.1	704.7	630.8	581.4
65°	462.1	500.6	571.4	681.4	818.1	873.2	782.8	668.0	583.9	528.9	495.9
67.5°	384.8	417.5	478.6	565.2	665.8	705.9	637.1	548.3	484.9	440.7	414.5
70°	333.2	361.5	409.5	484.1	575.3	605.9	541.5	468.4	422.0	386.7	362.3
72.5°	289.8	310.6	354.1	411.8	487.9	512.3	467.3	403.0	359.8	333.2	313.9
75°	220.8	238.1	266.4	312.8	365.5	379.6	345.8	305.7	276.6	257.8	242.8
77.5°	159.2	172.0	192.4	221.0	257.5	270.2	248.8	222.1	200.9	188.1	179.8
80°	120.2	130.5	147.8	171.3	193.3	200.4	187.8	167.4	152.5	145.4	138.3
82.5°	88.8	94.6	105.0	121.0	136.1	144.5	133.8	121.5	113.5	107.0	104.4
85°	44.8	47.9	52.7	58.9	68.4	71.5	67.6	64.4	59.7	55.8	55.8
87.5°	16.6	16.7	18.8	20.2	22.9	25.0	24.6	23.5	23.1	22.5	21.9
90°	1.1	1.9	2.7	3.5	4.4	5.4	6.4	7.5	8.5	8.8	9.1
92.5°	9.1	9.6	10.2	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1
95°	21.4	21.9	22.5	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8
97.5°	37.4	37.9	38.3	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6
100°	48.5	49.0	49.5	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4
102.5°	61.1	61.3	61.6	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9
105°	79.7	79.8	80.0	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4
107.5°	101.4	101.5	101.6	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5
110°	115.0	115.2	115.3	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	129.1	129.2	129.3	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3
115°	150.4	150.7	150.9	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7
117.5°	171.7	171.9	172.0	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3
120°	185.3	185.8	186.2	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0
122.5°	199.0	199.4	199.7	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9
125°	220.0	220.3	220.5	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5
127.5°	239.8	240.3	240.8	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9
130°	252.9	253.6	254.2	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5
132.5°	266.0	266.6	267.2	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6
135°	285.7	286.1	286.6	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3
137.5°	304.0	304.3	304.7	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6
140°	316.7	317.1	317.5	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2
142.5°	328.3	328.7	329.1	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1
145°	346.1	346.3	346.4	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6
147.5°	362.1	362.4	362.7	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1
150°	373.0	373.1	373.3	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2
152.5°	382.1	382.3	382.5	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5
155°	396.2	396.2	396.2	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1
157.5°	408.2	408.1	408.0	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8
160°	415.8	415.6	415.5	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0
162.5°	422.5	422.3	422.1	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8
165°	431.3	431.0	430.8	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4
167.5°	438.2	437.9	437.5	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3
170°	442.1	441.8	441.5	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1
172.5°	445.2	444.9	444.6	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1
175°	448.5	448.2	447.9	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3
177.5°	449.9	449.6	449.4	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1707.0	1707.6	1714.6	1719.6	1717.1	1720.2	1721.5
5°	1865.0	1893.3	1908.2	1919.2	1920.0	1920.8	1927.1
7.5°	2089.0	2119.3	2141.5	2175.1	2185.2	2196.6	2193.3
10°	2252.5	2297.2	2335.8	2356.2	2378.2	2410.4	2384.5
12.5°	2405.2	2484.6	2543.2	2575.0	2595.7	2602.2	2589.5
15°	2657.2	2760.9	2816.7	2815.2	2885.9	2916.6	2868.6
17.5°	2888.3	2984.0	3060.7	3100.0	3158.9	3172.0	3166.0
20°	3029.7	3134.3	3194.0	3261.6	3292.2	3319.7	3324.4
22.5°	3151.7	3245.5	3309.7	3365.9	3391.6	3404.6	3412.5
25°	3277.3	3351.2	3389.7	3409.3	3416.4	3414.8	3404.6
27.5°	3268.6	3274.3	3231.9	3190.2	3153.0	3111.0	3096.5
30°	3183.8	3117.7	2999.9	2933.1	2834.8	2757.0	2788.4
32.5°	2960.6	2829.2	2696.8	2550.8	2429.9	2395.5	2360.9
35°	2526.7	2295.7	2160.5	2003.3	1940.4	1877.6	1834.3
37.5°	2044.2	1865.5	1705.1	1602.3	1539.3	1499.5	1478.2
40°	1767.5	1606.4	1474.4	1391.1	1343.1	1298.3	1292.1
42.5°	1546.9	1397.1	1297.7	1231.4	1185.3	1166.3	1152.5
45°	1266.9	1162.4	1095.6	1048.4	1017.8	1006.0	990.3
47.5°	1072.3	998.4	948.3	916.2	893.1	884.3	883.1
50°	963.5	902.2	865.3	840.1	822.1	818.9	806.4
52.5°	881.8	828.7	799.9	777.9	764.9	756.1	752.3
55°	765.5	730.1	704.2	691.6	681.4	672.7	672.7
57.5°	669.8	640.2	623.1	612.4	609.2	603.1	599.2
60°	610.7	585.5	572.2	562.7	556.4	557.2	550.1
62.5°	552.8	536.5	523.7	514.3	506.8	506.9	507.4
65°	470.8	458.2	448.8	445.6	440.9	435.4	437.0
67.5°	398.9	387.1	379.8	374.4	372.8	369.9	374.4
70°	347.4	338.7	333.2	328.5	326.9	327.7	331.7
72.5°	300.2	294.1	290.5	288.3	284.8	285.0	287.6
75°	235.8	231.1	227.9	225.6	224.8	224.8	224.8
77.5°	173.2	172.1	170.7	167.2	167.4	168.3	168.5
80°	136.8	134.4	133.6	132.0	129.7	128.1	132.0
82.5°	102.2	99.8	99.0	98.7	95.1	94.8	98.1
85°	55.0	52.7	53.4	52.7	52.7	51.9	51.9
87.5°	21.4	20.8	20.2	20.9	20.3	19.7	21.0
90°	9.4	9.7	10.0	10.1	10.3	10.4	10.6
92.5°	14.3	14.6	14.7	14.6	14.5	14.4	14.3
95°	27.1	27.4	27.6	27.6	27.6	27.6	27.6
97.5°	42.0	42.4	42.5	42.5	42.5	42.4	42.4
100°	52.7	52.9	53.1	53.2	53.4	53.6	53.7
102.5°	65.1	65.3	65.4	65.4	65.4	65.3	65.3
105°	83.4	83.4	83.5	83.6	83.8	84.0	84.1
107.5°	103.7	104.0	104.1	104.0	103.9	103.8	103.7
110°	117.2	117.5	117.6	117.4	117.3	117.1	117.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.7	131.1	131.2	131.2	131.2	131.1	131.1
115°	150.8	150.9	150.9	150.8	150.7	150.6	150.5
117.5°	171.3	171.3	171.1	170.9	170.7	170.5	170.3
120°	184.9	184.9	184.7	184.6	184.4	184.3	184.1
122.5°	198.7	198.5	198.3	198.1	197.8	197.6	197.4
125°	219.2	218.9	218.6	218.3	218.0	217.6	217.3
127.5°	239.5	239.0	238.6	238.3	237.9	237.6	237.2
130°	253.1	252.8	252.4	251.9	251.3	250.8	250.2
132.5°	266.2	265.9	265.5	265.0	264.6	264.2	263.8
135°	286.0	285.7	285.5	285.3	285.1	285.0	284.8
137.5°	305.3	304.9	304.6	304.3	304.0	303.7	303.4
140°	318.2	318.1	317.8	317.2	316.7	316.1	315.6
142.5°	330.0	330.0	329.7	329.3	328.9	328.4	328.0
145°	347.5	347.4	347.2	346.9	346.6	346.3	346.0
147.5°	364.1	364.1	363.8	363.4	362.9	362.4	361.9
150°	374.2	374.2	374.0	373.5	373.1	372.6	372.1
152.5°	383.7	383.8	383.6	383.2	382.8	382.4	382.0
155°	397.4	397.8	397.6	397.1	396.5	396.0	395.4
157.5°	409.2	409.5	409.4	409.0	408.6	408.1	407.7
160°	416.4	416.8	416.8	416.5	416.2	415.9	415.6
162.5°	423.2	423.6	423.5	423.0	422.5	422.0	421.5
165°	431.8	432.3	432.3	431.7	431.2	430.6	430.1
167.5°	438.8	439.3	439.3	438.8	438.3	437.8	437.4
170°	442.7	443.2	443.2	442.7	442.1	441.6	441.0
172.5°	445.6	446.1	446.1	445.5	445.0	444.4	443.9
175°	448.8	449.3	449.2	448.7	448.1	447.6	447.0
177.5°	450.1	450.5	450.5	450.1	449.6	449.2	448.7
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9

(END OF REPORT)