

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: P332045

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332045
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
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-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

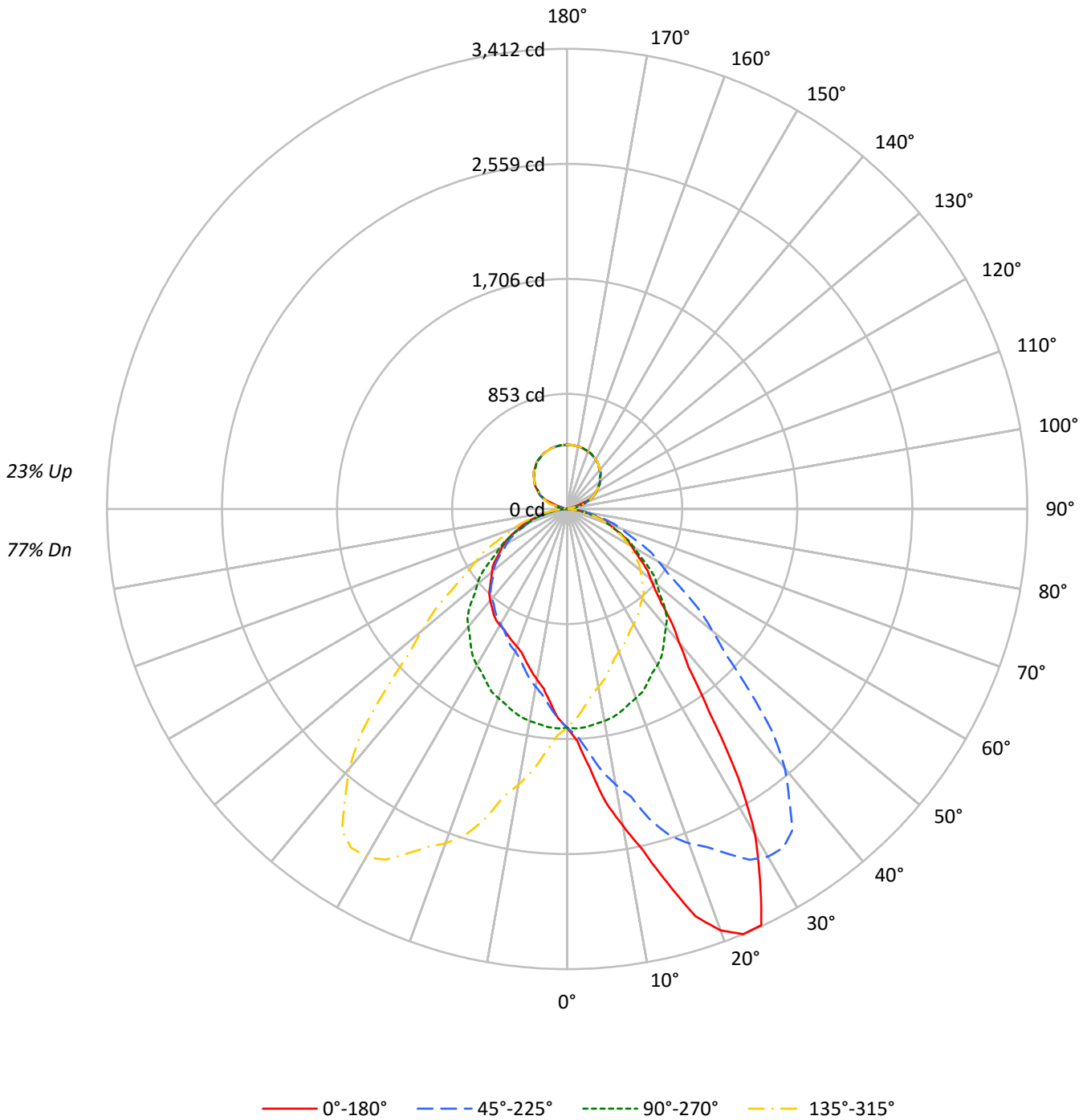
Lumens per Lamp: N/A
Luminaire Lumens: 6347.7 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

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	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	104	100	96	93	99	96	92	89	87	84	82	79	77	76	72	71	69	66
2	95	88	82	76	91	84	78	74	77	72	69	70	67	64	64	61	59	56
3	87	78	70	64	83	74	68	62	68	63	58	62	58	54	57	54	51	48
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	41
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	39	36
6	68	56	47	41	65	54	46	40	49	43	38	46	40	36	42	38	34	32
7	63	50	42	36	60	49	41	36	45	39	34	42	36	32	39	34	30	28
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	25
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25	23
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	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	2.5
10°-20°	512.4	8.1
20°-30°	859.9	13.5
30°-40°	973.7	15.3
40°-50°	873.2	13.8
50°-60°	704.7	11.1
60°-70°	491.0	7.7
70°-80°	258.1	4.1
80°-90°	64.5	1.0
90°-100°	17.3	0.3
100°-110°	82.4	1.3
110°-120°	198.0	3.1
120°-130°	252.1	4.0
130°-140°	269.3	4.2
140°-150°	251.9	4.0
150°-160°	203.2	3.2
160°-170°	131.1	2.1
170°-180°	45.2	0.7
0°-30°	1532.1	24.1
0°-40°	2505.8	39.5
0°-60°	4083.7	64.3
0°-90°	4897.3	77.1
90°-120°	297.7	4.7
90°-150°	1071.0	16.9
90°-180°	1450.0	22.8
0°-180°	6347.7	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	7
95°	13	22	13	22	13	11
105°	16	105	16	105	16	36
115°	208	198	208	198	208	192
125°	284	278	284	278	284	254
135°	350	347	350	347	350	270
145°	404	400	404	400	404	252
155°	440	441	440	441	440	203
165°	464	465	464	465	464	131
175°	474	476	474	476	474	45
180°	476	476	476	476	476	



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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°	11.7	11.6	11.5	11.4	11.4	11.1	10.6	10.1	9.5	9.0	8.3
95°	13.4	13.4	13.4	13.4	13.4	13.2	12.6	12.1	11.5	11.0	10.1
97.5°	14.6	14.5	14.4	14.3	14.2	13.9	13.3	12.6	12.0	11.4	17.0
100°	14.8	14.8	14.7	14.6	14.5	14.2	13.5	12.9	12.3	11.7	23.9
102.5°	15.1	15.0	14.8	14.7	14.6	15.5	17.4	19.4	21.3	23.3	36.6
105°	15.5	15.4	15.2	15.1	14.9	21.8	35.7	49.6	63.5	77.4	84.5
107.5°	48.8	59.3	69.8	80.3	90.7	101.1	111.3	121.5	131.6	141.8	140.7
110°	97.2	108.4	119.6	130.9	142.1	149.0	151.6	154.2	156.8	159.4	158.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	166.7	169.1	171.5	173.8	176.2	177.4	177.3	177.3	177.2	177.2	176.3
115°	207.8	207.5	207.2	206.8	206.5	206.0	205.2	204.4	203.6	202.8	202.1
117.5°	230.8	230.8	230.7	230.6	230.6	230.2	229.6	229.0	228.3	227.7	227.4
120°	246.7	246.7	246.7	246.7	246.7	246.3	245.7	245.1	244.5	243.8	243.6
122.5°	262.2	262.1	262.1	262.0	261.9	261.7	261.3	260.8	260.4	259.9	259.6
125°	284.1	284.0	283.8	283.6	283.5	283.3	283.2	283.0	282.9	282.7	282.4
127.5°	305.2	305.3	305.5	305.6	305.8	305.8	305.5	305.2	305.0	304.7	304.4
130°	318.7	318.9	319.1	319.2	319.4	319.3	319.0	318.7	318.3	318.0	317.7
132.5°	331.2	331.4	331.6	331.8	332.1	332.0	331.7	331.4	331.1	330.8	330.5
135°	350.2	350.4	350.7	350.9	351.1	351.1	350.9	350.7	350.4	350.2	349.9
137.5°	368.1	368.2	368.4	368.5	368.7	368.6	368.2	367.8	367.5	367.1	366.9
140°	378.8	379.0	379.1	379.3	379.4	379.4	379.0	378.7	378.4	378.1	377.9
142.5°	388.7	388.9	389.1	389.4	389.6	389.6	389.3	389.1	388.8	388.6	388.3
145°	403.9	403.9	403.9	403.9	403.9	403.8	403.7	403.5	403.4	403.2	403.0
147.5°	415.2	415.6	415.9	416.3	416.7	416.8	416.6	416.4	416.3	416.1	416.0
150°	423.7	423.9	424.2	424.4	424.6	424.7	424.5	424.4	424.2	424.0	423.9
152.5°	430.5	430.8	431.2	431.6	431.9	432.0	431.7	431.4	431.1	430.8	430.7
155°	439.9	440.4	440.9	441.4	441.8	441.9	441.5	441.1	440.7	440.3	440.2
157.5°	447.9	448.5	449.2	449.8	450.4	450.5	450.0	449.5	449.0	448.6	448.6
160°	453.0	453.6	454.1	454.7	455.2	455.3	454.8	454.3	453.8	453.4	453.5
162.5°	457.8	458.3	458.8	459.3	459.8	459.7	459.2	458.7	458.1	457.6	457.7
165°	463.6	464.2	464.7	465.3	465.8	465.8	465.2	464.5	463.9	463.3	463.3
167.5°	467.8	468.4	469.0	469.7	470.3	470.3	469.7	469.0	468.4	467.8	467.8
170°	470.3	471.0	471.6	472.2	472.8	472.8	472.2	471.6	471.0	470.3	470.3
172.5°	471.7	472.4	473.1	473.8	474.5	474.5	473.9	473.3	472.7	472.0	472.0
175°	473.9	474.5	475.1	475.8	476.4	476.4	475.9	475.3	474.8	474.2	474.1
177.5°	474.5	475.1	475.8	476.4	477.0	477.1	476.6	476.1	475.6	475.1	475.0
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



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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°	7.5	6.7	6.0	5.7	5.9	6.1	6.4	6.6	6.4	6.1	5.9
95°	9.2	8.4	7.5	8.7	11.9	15.1	18.3	21.6	18.3	15.1	11.9
97.5°	22.7	28.3	34.0	37.5	39.0	40.4	41.9	43.3	41.9	40.4	39.0
100°	36.2	48.4	60.7	66.0	64.4	62.9	61.3	59.7	61.3	62.9	64.4
102.5°	50.0	63.4	76.8	82.9	81.8	80.6	79.5	78.4	79.5	80.6	81.8
105°	91.5	98.6	105.7	108.8	107.9	107.0	106.2	105.3	106.2	107.0	107.9
107.5°	139.6	138.5	137.4	136.5	135.8	135.1	134.4	133.7	134.4	135.1	135.8
110°	157.6	156.8	155.9	155.2	154.5	153.9	153.3	152.7	153.3	153.9	154.5



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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	175.5	174.6	173.7	173.0	172.4	171.9	171.3	170.7	171.3	171.9	172.4
115°	201.4	200.7	200.0	199.4	198.9	198.5	198.0	197.5	198.0	198.5	198.9
117.5°	227.0	226.6	226.3	225.8	225.2	224.6	224.1	223.5	224.1	224.6	225.2
120°	243.4	243.1	242.9	242.4	241.7	241.0	240.3	239.6	240.3	241.0	241.7
122.5°	259.3	259.0	258.7	258.3	257.7	257.1	256.6	256.0	256.6	257.1	257.7
125°	282.1	281.8	281.4	281.0	280.3	279.7	279.1	278.5	279.1	279.7	280.3
127.5°	304.0	303.6	303.2	302.7	302.1	301.5	300.9	300.2	300.9	301.5	302.1
130°	317.4	317.1	316.8	316.3	315.7	315.0	314.4	313.8	314.4	315.0	315.7
132.5°	330.3	330.0	329.7	329.3	328.7	328.1	327.4	326.8	327.4	328.1	328.7
135°	349.6	349.2	348.9	348.5	348.1	347.6	347.1	346.7	347.1	347.6	348.1
137.5°	366.7	366.6	366.4	366.0	365.4	364.8	364.2	363.6	364.2	364.8	365.4
140°	377.6	377.4	377.2	376.8	376.3	375.9	375.4	374.9	375.4	375.9	376.3
142.5°	388.1	387.9	387.6	387.3	386.8	386.3	385.9	385.4	385.9	386.3	386.8
145°	402.9	402.7	402.6	402.2	401.7	401.1	400.6	400.0	400.6	401.1	401.7
147.5°	415.8	415.7	415.5	415.2	414.9	414.5	414.2	413.8	414.2	414.5	414.9
150°	423.7	423.6	423.4	423.2	423.0	422.7	422.5	422.3	422.5	422.7	423.0
152.5°	430.6	430.5	430.5	430.3	430.2	430.1	430.0	429.9	430.0	430.1	430.2
155°	440.1	440.1	440.0	440.0	440.2	440.3	440.5	440.7	440.5	440.3	440.2
157.5°	448.7	448.8	448.9	448.9	448.9	449.0	449.0	449.0	449.0	449.0	448.9
160°	453.5	453.6	453.7	453.8	453.8	453.9	454.0	454.1	454.0	453.9	453.8
162.5°	457.8	457.8	457.9	458.1	458.3	458.5	458.7	458.9	458.7	458.5	458.3
165°	463.4	463.5	463.6	463.7	464.0	464.2	464.4	464.7	464.4	464.2	464.0
167.5°	467.8	467.8	467.8	467.9	468.3	468.6	468.9	469.2	468.9	468.6	468.3
170°	470.3	470.3	470.3	470.5	470.8	471.1	471.4	471.7	471.4	471.1	470.8
172.5°	471.9	471.8	471.8	471.9	472.3	472.7	473.1	473.4	473.1	472.7	472.3
175°	474.1	474.0	473.9	474.1	474.5	474.8	475.2	475.6	475.2	474.8	474.5
177.5°	474.9	474.9	474.8	474.9	475.3	475.6	475.9	476.2	475.9	475.6	475.3
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



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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°	5.7	6.0	6.7	7.5	8.3	9.0	9.5	10.1	10.6	11.1	11.4
95°	8.7	7.5	8.4	9.2	10.1	11.0	11.5	12.1	12.6	13.2	13.4
97.5°	37.5	34.0	28.3	22.7	17.0	11.4	12.0	12.6	13.3	13.9	14.2
100°	66.0	60.7	48.4	36.2	23.9	11.7	12.3	12.9	13.5	14.2	14.5
102.5°	82.9	76.8	63.4	50.0	36.6	23.3	21.3	19.4	17.4	15.5	14.6
105°	108.8	105.7	98.6	91.5	84.5	77.4	63.5	49.6	35.7	21.8	14.9
107.5°	136.5	137.4	138.5	139.6	140.7	141.8	131.6	121.5	111.3	101.1	90.7
110°	155.2	155.9	156.8	157.6	158.5	159.4	156.8	154.2	151.6	149.0	142.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	173.0	173.7	174.6	175.5	176.3	177.2	177.2	177.3	177.3	177.4	176.2
115°	199.4	200.0	200.7	201.4	202.1	202.8	203.6	204.4	205.2	206.0	206.5
117.5°	225.8	226.3	226.6	227.0	227.4	227.7	228.3	229.0	229.6	230.2	230.6
120°	242.4	242.9	243.1	243.4	243.6	243.8	244.5	245.1	245.7	246.3	246.7
122.5°	258.3	258.7	259.0	259.3	259.6	259.9	260.4	260.8	261.3	261.7	261.9
125°	281.0	281.4	281.8	282.1	282.4	282.7	282.9	283.0	283.2	283.3	283.5
127.5°	302.7	303.2	303.6	304.0	304.4	304.7	305.0	305.2	305.5	305.8	305.8
130°	316.3	316.8	317.1	317.4	317.7	318.0	318.3	318.7	319.0	319.3	319.4
132.5°	329.3	329.7	330.0	330.3	330.5	330.8	331.1	331.4	331.7	332.0	332.1
135°	348.5	348.9	349.2	349.6	349.9	350.2	350.4	350.7	350.9	351.1	351.1
137.5°	366.0	366.4	366.6	366.7	366.9	367.1	367.5	367.8	368.2	368.6	368.7
140°	376.8	377.2	377.4	377.6	377.9	378.1	378.4	378.7	379.0	379.4	379.4
142.5°	387.3	387.6	387.9	388.1	388.3	388.6	388.8	389.1	389.3	389.6	389.6
145°	402.2	402.6	402.7	402.9	403.0	403.2	403.4	403.5	403.7	403.8	403.9
147.5°	415.2	415.5	415.7	415.8	416.0	416.1	416.3	416.4	416.6	416.8	416.7
150°	423.2	423.4	423.6	423.7	423.9	424.0	424.2	424.4	424.5	424.7	424.6
152.5°	430.3	430.5	430.5	430.6	430.7	430.8	431.1	431.4	431.7	432.0	431.9
155°	440.0	440.0	440.1	440.1	440.2	440.3	440.7	441.1	441.5	441.9	441.8
157.5°	448.9	448.9	448.8	448.7	448.6	448.6	449.0	449.5	450.0	450.5	450.4
160°	453.8	453.7	453.6	453.5	453.5	453.4	453.8	454.3	454.8	455.3	455.2
162.5°	458.1	457.9	457.8	457.8	457.7	457.6	458.1	458.7	459.2	459.7	459.8
165°	463.7	463.6	463.5	463.4	463.3	463.3	463.9	464.5	465.2	465.8	465.8
167.5°	467.9	467.8	467.8	467.8	467.8	467.8	468.4	469.0	469.7	470.3	470.3
170°	470.5	470.3	470.3	470.3	470.3	470.3	471.0	471.6	472.2	472.8	472.8
172.5°	471.9	471.8	471.8	471.9	472.0	472.0	472.7	473.3	473.9	474.5	474.5
175°	474.1	473.9	474.0	474.1	474.1	474.2	474.8	475.3	475.9	476.4	476.4
177.5°	474.9	474.8	474.9	474.9	475.0	475.1	475.6	476.1	476.6	477.1	477.0
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



TEST NUMBER: P332045

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

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°	11.4	11.5	11.6	11.7	11.6	11.5	11.4	11.4	11.1	10.6	10.1
95°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	12.6	12.1
97.5°	14.3	14.4	14.5	14.6	14.5	14.4	14.3	14.2	13.9	13.3	12.6
100°	14.6	14.7	14.8	14.8	14.8	14.7	14.6	14.5	14.2	13.5	12.9
102.5°	14.7	14.8	15.0	15.1	15.0	14.8	14.7	14.6	15.5	17.4	19.4
105°	15.1	15.2	15.4	15.5	15.4	15.2	15.1	14.9	21.8	35.7	49.6
107.5°	80.3	69.8	59.3	48.8	59.3	69.8	80.3	90.7	101.1	111.3	121.5
110°	130.9	119.6	108.4	97.2	108.4	119.6	130.9	142.1	149.0	151.6	154.2



TEST NUMBER: P332045

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	173.8	171.5	169.1	166.7	169.1	171.5	173.8	176.2	177.4	177.3	177.3
115°	206.8	207.2	207.5	207.8	207.5	207.2	206.8	206.5	206.0	205.2	204.4
117.5°	230.6	230.7	230.8	230.8	230.8	230.7	230.6	230.6	230.2	229.6	229.0
120°	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.3	245.7	245.1
122.5°	262.0	262.1	262.1	262.2	262.1	262.1	262.0	261.9	261.7	261.3	260.8
125°	283.6	283.8	284.0	284.1	284.0	283.8	283.6	283.5	283.3	283.2	283.0
127.5°	305.6	305.5	305.3	305.2	305.3	305.5	305.6	305.8	305.8	305.5	305.2
130°	319.2	319.1	318.9	318.7	318.9	319.1	319.2	319.4	319.3	319.0	318.7
132.5°	331.8	331.6	331.4	331.2	331.4	331.6	331.8	332.1	332.0	331.7	331.4
135°	350.9	350.7	350.4	350.2	350.4	350.7	350.9	351.1	351.1	350.9	350.7
137.5°	368.5	368.4	368.2	368.1	368.2	368.4	368.5	368.7	368.6	368.2	367.8
140°	379.3	379.1	379.0	378.8	379.0	379.1	379.3	379.4	379.4	379.0	378.7
142.5°	389.4	389.1	388.9	388.7	388.9	389.1	389.4	389.6	389.6	389.3	389.1
145°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.8	403.7	403.5
147.5°	416.3	415.9	415.6	415.2	415.6	415.9	416.3	416.7	416.8	416.6	416.4
150°	424.4	424.2	423.9	423.7	423.9	424.2	424.4	424.6	424.7	424.5	424.4
152.5°	431.6	431.2	430.8	430.5	430.8	431.2	431.6	431.9	432.0	431.7	431.4
155°	441.4	440.9	440.4	439.9	440.4	440.9	441.4	441.8	441.9	441.5	441.1
157.5°	449.8	449.2	448.5	447.9	448.5	449.2	449.8	450.4	450.5	450.0	449.5
160°	454.7	454.1	453.6	453.0	453.6	454.1	454.7	455.2	455.3	454.8	454.3
162.5°	459.3	458.8	458.3	457.8	458.3	458.8	459.3	459.8	459.7	459.2	458.7
165°	465.3	464.7	464.2	463.6	464.2	464.7	465.3	465.8	465.8	465.2	464.5
167.5°	469.7	469.0	468.4	467.8	468.4	469.0	469.7	470.3	470.3	469.7	469.0
170°	472.2	471.6	471.0	470.3	471.0	471.6	472.2	472.8	472.8	472.2	471.6
172.5°	473.8	473.1	472.4	471.7	472.4	473.1	473.8	474.5	474.5	473.9	473.3
175°	475.8	475.1	474.5	473.9	474.5	475.1	475.8	476.4	476.4	475.9	475.3
177.5°	476.4	475.8	475.1	474.5	475.1	475.8	476.4	477.0	477.1	476.6	476.1
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



TEST NUMBER: P332045

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

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°	9.5	9.0	8.3	7.5	6.7	6.0	5.7	5.9	6.1	6.4	6.6
95°	11.5	11.0	10.1	9.2	8.4	7.5	8.7	11.9	15.1	18.3	21.6
97.5°	12.0	11.4	17.0	22.7	28.3	34.0	37.5	39.0	40.4	41.9	43.3
100°	12.3	11.7	23.9	36.2	48.4	60.7	66.0	64.4	62.9	61.3	59.7
102.5°	21.3	23.3	36.6	50.0	63.4	76.8	82.9	81.8	80.6	79.5	78.4
105°	63.5	77.4	84.5	91.5	98.6	105.7	108.8	107.9	107.0	106.2	105.3
107.5°	131.6	141.8	140.7	139.6	138.5	137.4	136.5	135.8	135.1	134.4	133.7
110°	156.8	159.4	158.5	157.6	156.8	155.9	155.2	154.5	153.9	153.3	152.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	177.2	177.2	176.3	175.5	174.6	173.7	173.0	172.4	171.9	171.3	170.7
115°	203.6	202.8	202.1	201.4	200.7	200.0	199.4	198.9	198.5	198.0	197.5
117.5°	228.3	227.7	227.4	227.0	226.6	226.3	225.8	225.2	224.6	224.1	223.5
120°	244.5	243.8	243.6	243.4	243.1	242.9	242.4	241.7	241.0	240.3	239.6
122.5°	260.4	259.9	259.6	259.3	259.0	258.7	258.3	257.7	257.1	256.6	256.0
125°	282.9	282.7	282.4	282.1	281.8	281.4	281.0	280.3	279.7	279.1	278.5
127.5°	305.0	304.7	304.4	304.0	303.6	303.2	302.7	302.1	301.5	300.9	300.2
130°	318.3	318.0	317.7	317.4	317.1	316.8	316.3	315.7	315.0	314.4	313.8
132.5°	331.1	330.8	330.5	330.3	330.0	329.7	329.3	328.7	328.1	327.4	326.8
135°	350.4	350.2	349.9	349.6	349.2	348.9	348.5	348.1	347.6	347.1	346.7
137.5°	367.5	367.1	366.9	366.7	366.6	366.4	366.0	365.4	364.8	364.2	363.6
140°	378.4	378.1	377.9	377.6	377.4	377.2	376.8	376.3	375.9	375.4	374.9
142.5°	388.8	388.6	388.3	388.1	387.9	387.6	387.3	386.8	386.3	385.9	385.4
145°	403.4	403.2	403.0	402.9	402.7	402.6	402.2	401.7	401.1	400.6	400.0
147.5°	416.3	416.1	416.0	415.8	415.7	415.5	415.2	414.9	414.5	414.2	413.8
150°	424.2	424.0	423.9	423.7	423.6	423.4	423.2	423.0	422.7	422.5	422.3
152.5°	431.1	430.8	430.7	430.6	430.5	430.5	430.3	430.2	430.1	430.0	429.9
155°	440.7	440.3	440.2	440.1	440.1	440.0	440.0	440.2	440.3	440.5	440.7
157.5°	449.0	448.6	448.6	448.7	448.8	448.9	448.9	448.9	449.0	449.0	449.0
160°	453.8	453.4	453.5	453.5	453.6	453.7	453.8	453.8	453.9	454.0	454.1
162.5°	458.1	457.6	457.7	457.8	457.8	457.9	458.1	458.3	458.5	458.7	458.9
165°	463.9	463.3	463.3	463.4	463.5	463.6	463.7	464.0	464.2	464.4	464.7
167.5°	468.4	467.8	467.8	467.8	467.8	467.8	467.9	468.3	468.6	468.9	469.2
170°	471.0	470.3	470.3	470.3	470.3	470.3	470.5	470.8	471.1	471.4	471.7
172.5°	472.7	472.0	472.0	471.9	471.8	471.8	471.9	472.3	472.7	473.1	473.4
175°	474.8	474.2	474.1	474.1	474.0	473.9	474.1	474.5	474.8	475.2	475.6
177.5°	475.6	475.1	475.0	474.9	474.9	474.8	474.9	475.3	475.6	475.9	476.2
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



TEST NUMBER: P332045

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

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°	6.4	6.1	5.9	5.7	6.0	6.7	7.5	8.3	9.0	9.5	10.1
95°	18.3	15.1	11.9	8.7	7.5	8.4	9.2	10.1	11.0	11.5	12.1
97.5°	41.9	40.4	39.0	37.5	34.0	28.3	22.7	17.0	11.4	12.0	12.6
100°	61.3	62.9	64.4	66.0	60.7	48.4	36.2	23.9	11.7	12.3	12.9
102.5°	79.5	80.6	81.8	82.9	76.8	63.4	50.0	36.6	23.3	21.3	19.4
105°	106.2	107.0	107.9	108.8	105.7	98.6	91.5	84.5	77.4	63.5	49.6
107.5°	134.4	135.1	135.8	136.5	137.4	138.5	139.6	140.7	141.8	131.6	121.5
110°	153.3	153.9	154.5	155.2	155.9	156.8	157.6	158.5	159.4	156.8	154.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.3	171.9	172.4	173.0	173.7	174.6	175.5	176.3	177.2	177.2	177.3
115°	198.0	198.5	198.9	199.4	200.0	200.7	201.4	202.1	202.8	203.6	204.4
117.5°	224.1	224.6	225.2	225.8	226.3	226.6	227.0	227.4	227.7	228.3	229.0
120°	240.3	241.0	241.7	242.4	242.9	243.1	243.4	243.6	243.8	244.5	245.1
122.5°	256.6	257.1	257.7	258.3	258.7	259.0	259.3	259.6	259.9	260.4	260.8
125°	279.1	279.7	280.3	281.0	281.4	281.8	282.1	282.4	282.7	282.9	283.0
127.5°	300.9	301.5	302.1	302.7	303.2	303.6	304.0	304.4	304.7	305.0	305.2
130°	314.4	315.0	315.7	316.3	316.8	317.1	317.4	317.7	318.0	318.3	318.7
132.5°	327.4	328.1	328.7	329.3	329.7	330.0	330.3	330.5	330.8	331.1	331.4
135°	347.1	347.6	348.1	348.5	348.9	349.2	349.6	349.9	350.2	350.4	350.7
137.5°	364.2	364.8	365.4	366.0	366.4	366.6	366.7	366.9	367.1	367.5	367.8
140°	375.4	375.9	376.3	376.8	377.2	377.4	377.6	377.9	378.1	378.4	378.7
142.5°	385.9	386.3	386.8	387.3	387.6	387.9	388.1	388.3	388.6	388.8	389.1
145°	400.6	401.1	401.7	402.2	402.6	402.7	402.9	403.0	403.2	403.4	403.5
147.5°	414.2	414.5	414.9	415.2	415.5	415.7	415.8	416.0	416.1	416.3	416.4
150°	422.5	422.7	423.0	423.2	423.4	423.6	423.7	423.9	424.0	424.2	424.4
152.5°	430.0	430.1	430.2	430.3	430.5	430.5	430.6	430.7	430.8	431.1	431.4
155°	440.5	440.3	440.2	440.0	440.0	440.1	440.1	440.2	440.3	440.7	441.1
157.5°	449.0	449.0	448.9	448.9	448.9	448.8	448.7	448.6	448.6	449.0	449.5
160°	454.0	453.9	453.8	453.8	453.7	453.6	453.5	453.5	453.4	453.8	454.3
162.5°	458.7	458.5	458.3	458.1	457.9	457.8	457.8	457.7	457.6	458.1	458.7
165°	464.4	464.2	464.0	463.7	463.6	463.5	463.4	463.3	463.3	463.9	464.5
167.5°	468.9	468.6	468.3	467.9	467.8	467.8	467.8	467.8	467.8	468.4	469.0
170°	471.4	471.1	470.8	470.5	470.3	470.3	470.3	470.3	470.3	471.0	471.6
172.5°	473.1	472.7	472.3	471.9	471.8	471.8	471.9	472.0	472.0	472.7	473.3
175°	475.2	474.8	474.5	474.1	473.9	474.0	474.1	474.1	474.2	474.8	475.3
177.5°	475.9	475.6	475.3	474.9	474.8	474.9	474.9	475.0	475.1	475.6	476.1
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6



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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°	10.6	11.1	11.4	11.4	11.5	11.6	11.7
95°	12.6	13.2	13.4	13.4	13.4	13.4	13.4
97.5°	13.3	13.9	14.2	14.3	14.4	14.5	14.6
100°	13.5	14.2	14.5	14.6	14.7	14.8	14.8
102.5°	17.4	15.5	14.6	14.7	14.8	15.0	15.1
105°	35.7	21.8	14.9	15.1	15.2	15.4	15.5
107.5°	111.3	101.1	90.7	80.3	69.8	59.3	48.8
110°	151.6	149.0	142.1	130.9	119.6	108.4	97.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	177.3	177.4	176.2	173.8	171.5	169.1	166.7
115°	205.2	206.0	206.5	206.8	207.2	207.5	207.8
117.5°	229.6	230.2	230.6	230.6	230.7	230.8	230.8
120°	245.7	246.3	246.7	246.7	246.7	246.7	246.7
122.5°	261.3	261.7	261.9	262.0	262.1	262.1	262.2
125°	283.2	283.3	283.5	283.6	283.8	284.0	284.1
127.5°	305.5	305.8	305.8	305.6	305.5	305.3	305.2
130°	319.0	319.3	319.4	319.2	319.1	318.9	318.7
132.5°	331.7	332.0	332.1	331.8	331.6	331.4	331.2
135°	350.9	351.1	351.1	350.9	350.7	350.4	350.2
137.5°	368.2	368.6	368.7	368.5	368.4	368.2	368.1
140°	379.0	379.4	379.4	379.3	379.1	379.0	378.8
142.5°	389.3	389.6	389.6	389.4	389.1	388.9	388.7
145°	403.7	403.8	403.9	403.9	403.9	403.9	403.9
147.5°	416.6	416.8	416.7	416.3	415.9	415.6	415.2
150°	424.5	424.7	424.6	424.4	424.2	423.9	423.7
152.5°	431.7	432.0	431.9	431.6	431.2	430.8	430.5
155°	441.5	441.9	441.8	441.4	440.9	440.4	439.9
157.5°	450.0	450.5	450.4	449.8	449.2	448.5	447.9
160°	454.8	455.3	455.2	454.7	454.1	453.6	453.0
162.5°	459.2	459.7	459.8	459.3	458.8	458.3	457.8
165°	465.2	465.8	465.8	465.3	464.7	464.2	463.6
167.5°	469.7	470.3	470.3	469.7	469.0	468.4	467.8
170°	472.2	472.8	472.8	472.2	471.6	471.0	470.3
172.5°	473.9	474.5	474.5	473.8	473.1	472.4	471.7
175°	475.9	476.4	476.4	475.8	475.1	474.5	473.9
177.5°	476.6	477.1	477.0	476.4	475.8	475.1	474.5
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6

(END OF REPORT)