

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: P332054-830

Luminaire Tested: **S123DIP-S1165D585U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332054-830
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-S1165D585U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6823.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

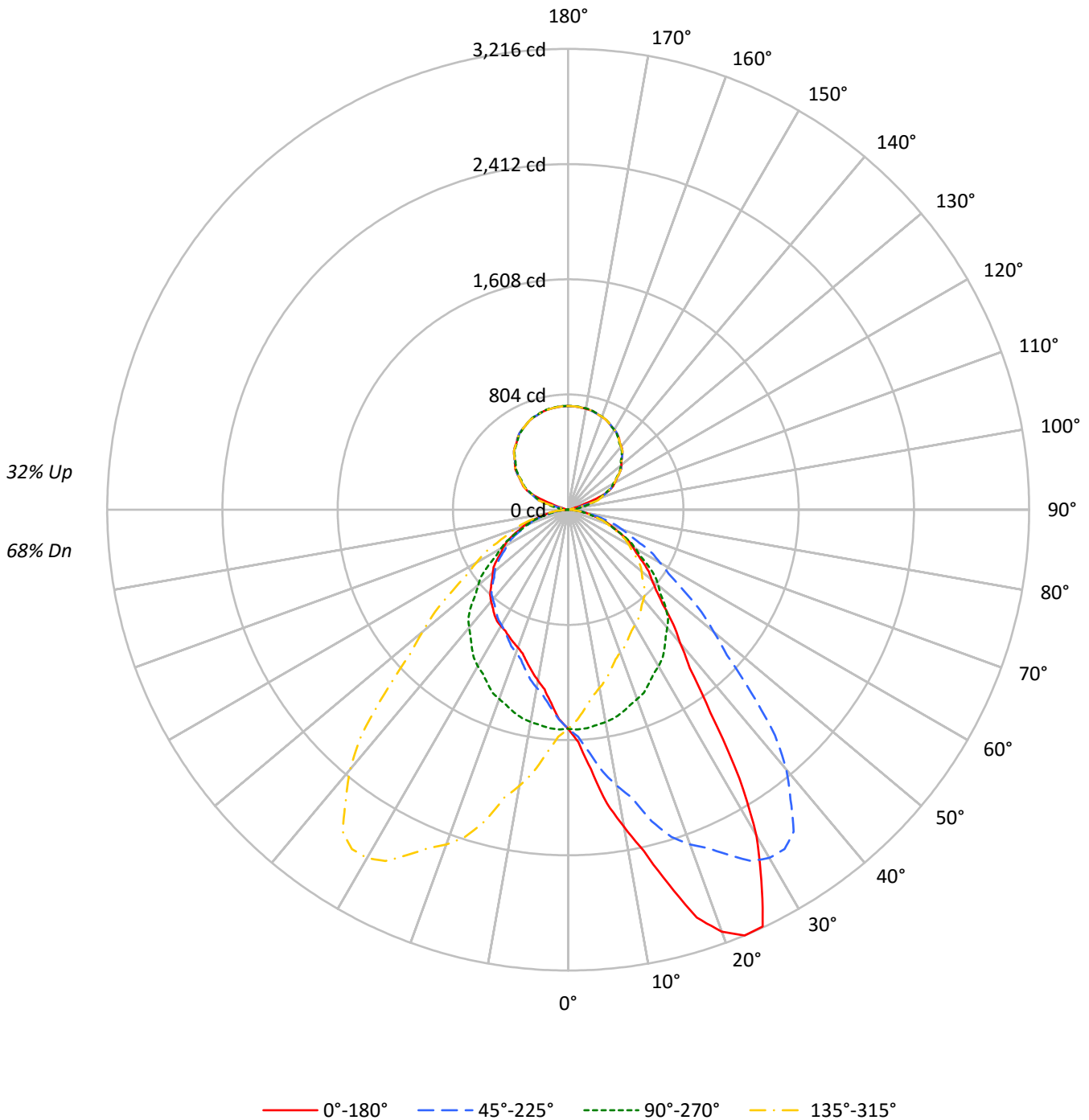
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68																												
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	65	63	62	58																												
2	93	86	80	75	88	81	76	71	73	68	65	65	61	59	57	55	53	49																												
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42																												
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36																												
5	72	60	52	46	68	57	50	44	52	45	41	46	41	38	41	37	34	32																												
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	38	34	30	28																												
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25																												
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22																												
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20																												
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16457	16457	16457	16457
5°	19626	16528	14647	16528
10°	24565	16444	13230	16444
15°	30130	16312	12316	16312
20°	35892	16105	11726	16105
25°	38112	15853	11595	15853
30°	32666	15669	11656	15669
35°	22718	15408	11779	15408
40°	17113	15104	11741	15104
45°	14209	14647	11592	14647
50°	12728	13720	11488	13720
55°	11898	12720	11344	12720
60°	11162	11672	11227	11672
65°	10491	10641	10868	10641
70°	9838	9467	10351	9467
75°	8813	8289	9491	8289
80°	7711	6794	8176	6794
85°	6039	4940	5496	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	2.2
10°-20°	482.9	7.1
20°-30°	810.5	11.9
30°-40°	917.8	13.5
40°-50°	823.0	12.1
50°-60°	664.2	9.7
60°-70°	462.8	6.8
70°-80°	243.3	3.6
80°-90°	61.5	0.9
90°-100°	26.3	0.4
100°-110°	125.4	1.8
110°-120°	301.2	4.4
120°-130°	383.5	5.6
130°-140°	409.8	6.0
140°-150°	383.2	5.6
150°-160°	309.1	4.5
160°-170°	199.5	2.9
170°-180°	68.7	1.0
0°-30°	1444.1	21.2
0°-40°	2361.9	34.6
0°-60°	3849.1	56.4
0°-90°	4616.7	67.7
90°-120°	452.8	6.6
90°-150°	1629.3	23.9
90°-180°	2207.0	32.3
0°-180°	6823.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1529	1529	1529	1529	1529	
5°	1816	1530	1356	1530	1816	188
15°	2704	1464	1105	1464	2704	781
25°	3209	1335	976	1335	3209	1407
35°	1729	1173	896	1173	1729	1123
45°	933	962	762	962	933	739
55°	634	678	604	678	634	569
65°	412	418	427	418	412	410
75°	212	199	228	199	212	227
85°	49	40	44	40	49	58
90°	16	1	16	1	16	10
95°	20	33	20	33	20	17
105°	24	160	24	160	24	54
115°	316	300	316	300	316	292
125°	432	424	432	424	432	386
135°	533	527	533	527	533	411
145°	614	608	614	608	614	384
155°	669	670	669	670	669	309
165°	705	707	705	707	705	199
175°	721	724	721	724	721	69
180°	724	724	724	724	724	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1622.6	1621.4	1618.4	1620.8	1616.1	1609.5	1608.9	1603.0	1585.8	1584.6	1579.9
5°	1816.4	1810.4	1809.7	1808.9	1798.6	1784.5	1757.8	1755.6	1720.0	1702.2	1680.8
7.5°	2067.3	2070.4	2059.6	2050.1	2018.5	1997.5	1969.0	1932.4	1888.7	1844.4	1814.9
10°	2247.5	2271.9	2241.6	2220.8	2201.6	2165.2	2123.1	2070.4	2017.8	1956.3	1909.7
12.5°	2440.7	2452.7	2446.6	2427.0	2397.1	2341.8	2267.0	2209.1	2160.7	2058.3	2016.9
15°	2703.8	2749.0	2720.1	2653.4	2654.9	2602.3	2504.5	2397.1	2340.1	2250.4	2128.3
17.5°	2984.1	2989.7	2977.4	2921.9	2884.8	2812.5	2722.3	2619.3	2503.8	2395.4	2265.7
20°	3133.4	3129.0	3103.0	3074.2	3010.5	2954.2	2855.6	2740.8	2592.7	2486.1	2344.5
22.5°	3216.4	3209.0	3196.7	3172.5	3119.5	3059.0	2970.6	2845.2	2704.1	2557.1	2393.7
25°	3209.0	3218.6	3220.1	3213.4	3194.9	3158.6	3089.0	2989.0	2848.3	2659.4	2489.0
27.5°	2918.6	2932.2	2971.8	3006.9	3046.2	3086.2	3080.8	3031.2	2927.1	2763.9	2555.6
30°	2628.2	2598.6	2671.9	2764.6	2827.5	2938.6	3000.9	3004.5	2946.0	2806.0	2603.0
32.5°	2225.2	2257.9	2290.3	2404.2	2541.8	2666.6	2790.5	2890.2	2901.6	2808.4	2630.9
35°	1728.9	1769.7	1828.9	1888.2	2036.4	2163.8	2381.5	2571.2	2722.3	2742.3	2633.4
37.5°	1393.3	1413.3	1450.9	1510.2	1607.1	1758.3	1926.7	2166.4	2385.4	2548.3	2555.3
40°	1217.9	1223.7	1265.9	1311.2	1389.7	1514.1	1665.9	1877.8	2140.0	2367.5	2462.3
42.5°	1086.3	1099.3	1117.2	1160.6	1223.1	1316.8	1458.0	1633.0	1873.4	2135.1	2320.6
45°	933.4	948.2	959.3	988.2	1032.6	1095.6	1194.1	1354.2	1537.1	1807.4	2057.1
47.5°	832.4	833.5	841.8	863.6	893.8	941.0	1010.7	1113.5	1281.5	1500.8	1757.1
50°	760.1	771.8	774.9	791.8	815.6	850.4	908.1	995.6	1133.4	1326.0	1561.5
52.5°	709.1	712.7	721.0	733.2	753.9	781.1	831.1	899.6	1007.8	1171.9	1388.5
55°	634.0	634.0	642.2	651.9	663.7	688.2	721.5	771.8	854.1	981.5	1160.7
57.5°	564.8	568.4	574.2	577.2	587.3	603.4	631.3	669.5	730.8	828.9	971.5
60°	518.5	525.2	524.4	530.4	539.3	551.9	575.6	606.7	661.5	740.0	860.1
62.5°	478.2	477.8	477.7	484.7	493.6	505.7	521.0	548.0	594.6	664.2	766.4
65°	411.9	410.4	415.6	420.0	423.0	431.9	443.7	467.4	498.5	550.4	629.6
67.5°	352.9	348.6	351.4	352.9	358.0	364.9	376.0	390.7	415.4	457.0	516.8
70°	312.6	308.9	308.1	309.6	314.1	319.2	327.4	341.5	364.5	397.8	441.5
72.5°	271.1	268.6	268.4	271.7	273.8	277.2	283.0	295.9	314.1	339.1	379.8
75°	211.9	211.9	211.9	212.6	214.8	217.8	222.3	228.8	243.0	260.7	288.1
77.5°	158.8	158.6	157.8	157.6	160.9	162.2	163.2	169.5	177.3	189.4	209.3
80°	124.4	120.7	122.2	124.4	125.9	126.7	128.9	130.4	137.0	143.7	157.8
82.5°	92.5	89.4	89.6	93.0	93.3	94.1	96.3	98.4	100.9	107.0	114.5
85°	48.9	48.9	49.7	49.7	50.3	49.7	51.8	52.6	52.6	56.3	60.7
87.5°	21.0	19.8	20.4	20.8	20.3	20.7	21.2	21.8	22.2	22.7	23.0
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3	14.5	13.8	12.6
95°	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4	17.5	16.7	15.4
97.5°	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2	18.3	17.3	25.9
100°	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6	18.7	17.7	36.4
102.5°	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4	32.4	35.3	55.7
105°	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4	96.6	117.7	128.5
107.5°	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7	200.3	215.7	214.1
110°	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6	238.5	242.4	241.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7	269.7	269.6	268.2
115°	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9	309.8	308.6	307.5
117.5°	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4	347.4	346.4	345.9
120°	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9	371.9	370.9	370.6
122.5°	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8	396.2	395.5	395.0
125°	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6	430.3	430.1	429.6
127.5°	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4	464.0	463.6	463.1
130°	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7	484.3	483.8	483.3
132.5°	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2	503.7	503.2	502.8
135°	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5	533.1	532.7	532.3
137.5°	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6	559.0	558.5	558.2
140°	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2	575.7	575.2	574.9
142.5°	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9	591.5	591.2	590.8
145°	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9	613.6	613.4	613.1
147.5°	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6	633.3	633.1	632.8
150°	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5	645.4	645.1	644.9
152.5°	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3	655.8	655.4	655.3
155°	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0	670.4	669.9	669.7
157.5°	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8	683.2	682.4	682.5
160°	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2	690.4	689.8	689.8
162.5°	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8	697.0	696.2	696.3
165°	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7	705.8	704.7	704.9
167.5°	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6	712.7	711.6	711.6
170°	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5	716.5	715.5	715.5
172.5°	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0	719.1	718.1	718.0
175°	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1	722.3	721.4	721.3
177.5°	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2	723.5	722.7	722.6
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1576.3	1571.6	1566.9	1558.6	1551.4	1541.3	1538.4	1534.8	1524.2	1514.8	1507.6
5°	1672.6	1654.8	1628.9	1605.2	1586.0	1560.1	1545.2	1529.7	1507.4	1487.4	1471.1
7.5°	1773.4	1738.4	1698.1	1654.5	1614.0	1574.9	1543.3	1515.1	1484.0	1454.5	1431.6
10°	1853.4	1803.0	1746.7	1686.0	1634.1	1583.8	1541.5	1504.5	1464.5	1429.6	1400.8
12.5°	1944.7	1870.0	1792.3	1718.5	1657.3	1587.3	1536.2	1489.1	1443.8	1401.8	1369.4
15°	2052.7	1957.8	1866.0	1764.5	1671.1	1583.8	1523.1	1463.8	1411.2	1368.2	1326.7
17.5°	2151.1	2043.6	1922.6	1799.1	1686.6	1582.9	1497.8	1430.9	1365.1	1312.5	1271.1
20°	2206.8	2084.5	1947.5	1819.3	1694.9	1579.3	1486.0	1406.0	1334.8	1279.3	1232.7
22.5°	2254.8	2111.8	1970.0	1833.0	1694.3	1569.8	1464.1	1381.7	1304.7	1250.3	1200.6
25°	2304.5	2133.4	1991.2	1830.4	1675.7	1546.7	1428.2	1334.8	1257.8	1194.1	1143.0
27.5°	2347.2	2131.9	1963.1	1790.3	1646.2	1517.1	1390.5	1290.4	1208.6	1139.4	1087.6
30°	2375.6	2134.9	1934.1	1763.0	1617.9	1484.5	1361.5	1260.7	1174.9	1104.5	1055.6
32.5°	2393.4	2133.1	1907.4	1725.1	1572.8	1454.8	1330.1	1225.8	1137.6	1068.4	1021.2
35°	2403.8	2120.1	1861.5	1646.7	1500.1	1385.3	1280.8	1172.6	1080.1	1015.6	962.2
37.5°	2383.0	2092.6	1808.2	1571.1	1410.6	1297.5	1209.7	1117.5	1028.9	958.0	912.0
40°	2350.4	2074.9	1766.7	1517.9	1349.0	1240.0	1165.3	1074.9	987.4	920.0	877.0
42.5°	2288.2	2038.7	1721.1	1458.6	1285.0	1176.0	1107.1	1031.6	949.0	885.6	842.7
45°	2136.4	1960.0	1652.7	1369.7	1190.4	1077.8	1017.1	962.2	887.4	826.0	788.9
47.5°	1925.7	1841.7	1553.7	1275.9	1091.7	983.4	920.3	876.2	821.5	771.8	736.3
50°	1779.3	1744.5	1486.7	1211.9	1026.0	920.0	859.3	819.3	780.0	730.4	697.8
52.5°	1610.4	1631.9	1408.5	1145.5	959.0	854.9	797.7	765.9	730.3	689.5	661.1
55°	1372.6	1450.4	1273.4	1034.1	859.3	760.1	706.0	677.8	657.0	626.7	602.3
57.5°	1150.0	1249.0	1127.3	919.3	761.4	675.7	623.9	593.2	579.9	564.0	544.8
60°	1017.9	1115.6	1023.0	842.3	695.6	614.1	568.2	542.2	528.9	517.8	501.5
62.5°	899.8	998.8	921.1	764.0	630.9	555.4	515.4	490.1	479.8	473.9	460.1
65°	737.8	823.0	771.1	642.2	538.6	471.8	435.5	417.8	408.1	406.0	397.1
67.5°	600.5	665.3	627.5	532.7	451.1	393.5	362.7	347.6	340.2	339.4	332.7
70°	510.4	571.1	542.2	456.3	386.0	340.7	314.1	300.8	296.3	295.6	291.9
72.5°	440.5	482.9	459.9	388.1	333.8	292.8	273.1	259.3	254.2	255.2	252.8
75°	325.9	357.8	344.5	294.8	251.1	224.4	208.1	199.3	194.8	197.1	194.1
77.5°	234.5	254.7	242.7	208.3	181.3	162.1	150.1	144.6	140.6	140.4	139.1
80°	177.0	188.9	182.2	161.5	139.3	123.0	113.3	109.6	107.4	106.7	105.9
82.5°	126.1	136.2	128.3	114.0	99.0	89.2	83.7	78.8	77.2	77.7	76.9
85°	63.7	67.4	64.5	55.5	49.7	45.1	42.2	40.0	38.5	39.3	37.8
87.5°	23.8	24.1	22.1	19.4	18.0	16.0	15.7	14.3	13.4	13.7	13.3
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0	9.7	9.3	9.0
95°	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8	27.9	23.0	18.1
97.5°	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9	63.7	61.5	59.3
100°	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9	93.2	95.7	98.0
102.5°	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2	120.9	122.7	124.4
105°	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2	161.6	162.9	164.1
107.5°	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4	204.4	205.6	206.6
110°	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2	233.2	234.1	235.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8	260.6	261.5	262.3
115°	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5	301.2	301.9	302.7
117.5°	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0	340.8	341.8	342.6
120°	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5	365.5	366.6	367.7
122.5°	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5	390.3	391.2	392.1
125°	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6	424.6	425.6	426.5
127.5°	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8	457.7	458.6	459.6
130°	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4	478.3	479.3	480.2
132.5°	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2	498.1	499.1	500.0
135°	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4	528.1	528.8	529.5
137.5°	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2	554.1	555.0	555.9
140°	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3	571.1	571.8	572.5
142.5°	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3	587.0	587.8	588.4
145°	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5	609.4	610.2	611.1
147.5°	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5	630.1	630.7	631.1
150°	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4	642.8	643.1	643.5
152.5°	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0	654.2	654.3	654.5
155°	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3	670.1	669.9	669.7
157.5°	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1	683.1	683.0	683.0
160°	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8	690.7	690.6	690.4
162.5°	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1	697.8	697.5	697.2
165°	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9	706.5	706.2	705.9
167.5°	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8	713.3	712.8	712.4
170°	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7	717.2	716.7	716.2
172.5°	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3	719.7	719.1	718.5
175°	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6	723.0	722.4	721.8
177.5°	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4	724.0	723.5	723.0
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332054-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1503.4	1499.3	1493.4	1484.5	1477.3	1466.1	1466.1	1467.9	1467.9	1467.4	1466.1
5°	1457.8	1446.7	1433.4	1417.9	1401.6	1385.3	1382.2	1376.3	1371.9	1368.9	1365.3
7.5°	1409.7	1390.0	1370.6	1348.8	1328.9	1312.5	1301.1	1291.6	1285.5	1279.0	1274.2
10°	1377.1	1352.6	1329.6	1306.7	1281.5	1261.5	1249.0	1240.0	1233.4	1227.5	1224.5
12.5°	1338.6	1310.6	1285.3	1263.5	1235.9	1215.3	1203.3	1199.1	1191.3	1178.8	1172.3
15°	1282.2	1256.3	1226.0	1192.6	1179.3	1154.1	1140.0	1133.4	1128.9	1119.3	1116.3
17.5°	1234.1	1200.1	1166.1	1141.2	1116.4	1096.0	1088.2	1079.9	1073.9	1066.1	1063.8
20°	1195.6	1165.3	1134.1	1107.5	1081.5	1059.3	1052.6	1046.7	1040.8	1037.1	1034.1
22.5°	1156.5	1126.1	1100.3	1075.4	1047.7	1033.2	1026.0	1019.5	1015.3	1012.8	1009.8
25°	1101.5	1074.9	1045.9	1023.7	1001.5	991.8	987.4	983.7	980.8	977.0	976.3
27.5°	1052.3	1023.3	999.8	979.1	963.2	955.2	950.8	949.0	949.7	951.0	951.9
30°	1015.6	988.9	969.7	951.9	937.1	929.6	928.9	928.9	931.9	932.6	934.1
32.5°	981.8	959.9	940.7	923.4	912.2	907.1	909.9	909.9	912.3	914.3	916.9
35°	932.6	913.3	898.5	883.7	874.1	876.3	877.8	879.3	883.0	887.4	890.4
37.5°	885.6	868.9	853.5	842.0	837.5	841.5	845.1	848.2	852.4	855.9	858.8
40°	851.9	839.2	824.4	814.1	815.6	817.8	820.8	824.4	828.2	830.4	833.4
42.5°	820.5	807.3	796.1	787.4	789.5	792.3	794.1	796.1	800.3	804.4	806.1
45°	772.6	762.2	751.9	746.7	748.2	749.7	751.1	753.4	757.1	760.1	760.7
47.5°	718.9	711.6	704.6	699.6	701.9	701.3	703.3	708.0	709.2	711.0	715.1
50°	684.5	677.8	669.7	668.2	668.2	668.2	668.9	674.9	674.9	677.8	680.8
52.5°	646.6	642.2	637.1	634.4	633.2	633.2	636.3	639.3	640.5	644.6	647.6
55°	590.4	586.0	581.5	579.3	577.8	579.3	585.2	586.6	590.4	592.6	594.8
57.5°	531.9	528.5	524.9	523.7	523.4	525.4	528.6	533.0	534.0	540.7	544.1
60°	493.3	488.1	485.2	485.2	483.7	490.4	488.9	496.3	497.8	502.3	507.5
62.5°	453.6	446.7	445.5	445.5	447.6	449.5	451.6	454.9	458.6	464.3	468.3
65°	389.6	386.0	391.2	390.4	388.9	393.3	393.3	397.1	401.5	406.7	414.8
67.5°	329.0	327.2	327.5	327.5	329.8	332.3	334.4	337.6	343.0	348.5	353.8
70°	288.1	290.4	286.7	289.6	291.9	292.6	294.1	298.5	304.4	308.1	314.1
72.5°	248.5	248.3	248.7	250.0	252.1	253.4	255.0	260.0	266.6	269.7	274.4
75°	191.1	190.4	192.6	192.6	196.3	197.7	199.3	201.5	207.5	211.9	215.6
77.5°	139.6	140.4	140.0	142.5	141.5	141.8	146.4	148.6	149.2	158.0	159.9
80°	105.2	106.7	107.4	108.1	108.9	107.4	112.6	114.8	114.8	120.0	123.7
82.5°	75.6	76.4	78.4	79.1	79.3	80.8	81.2	82.8	84.6	86.8	91.7
85°	37.8	40.0	40.7	40.0	40.7	39.3	41.5	42.2	43.0	43.0	43.0
87.5°	12.9	13.8	13.5	14.4	14.1	15.0	15.1	14.0	14.1	16.0	13.7
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3	16.0	16.8	17.2
95°	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4	19.1	20.0	20.5
97.5°	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2	20.2	21.1	21.7
100°	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6	20.6	21.6	22.1
102.5°	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4	26.5	23.6	22.1
105°	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4	54.3	33.2	22.7
107.5°	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7	169.3	153.7	138.1
110°	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6	230.6	226.7	216.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7	269.8	269.8	268.1
115°	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9	312.2	313.4	314.1
117.5°	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4	349.3	350.2	350.8
120°	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9	373.8	374.8	375.2
122.5°	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8	397.5	398.1	398.5
125°	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6	430.7	431.0	431.3
127.5°	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4	464.8	465.1	465.2
130°	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7	485.2	485.7	485.9
132.5°	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2	504.6	505.1	505.2
135°	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5	533.9	534.1	534.1
137.5°	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6	560.2	560.7	560.9
140°	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2	576.6	577.1	577.2
142.5°	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9	592.3	592.7	592.7
145°	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9	614.1	614.3	614.4
147.5°	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6	633.8	634.0	633.9
150°	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5	645.8	646.0	646.0
152.5°	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3	656.7	657.1	657.0
155°	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0	671.7	672.2	672.1
157.5°	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8	684.6	685.3	685.1
160°	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2	691.8	692.6	692.5
162.5°	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8	698.6	699.5	699.5
165°	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7	707.7	708.6	708.7
167.5°	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6	714.5	715.5	715.5
170°	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5	718.4	719.3	719.3
172.5°	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0	721.0	721.9	721.9
175°	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1	724.0	724.8	724.7
177.5°	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2	725.0	725.8	725.7
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332054-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1462.0	1461.4	1465.6	1462.5	1465.6	1461.4	1462.0	1466.1	1467.4	1467.9	1467.9
5°	1360.7	1363.0	1355.6	1355.6	1355.6	1363.0	1360.7	1365.3	1368.9	1371.9	1376.3
7.5°	1270.7	1267.4	1267.7	1263.8	1267.7	1267.4	1270.7	1274.2	1279.0	1285.5	1291.6
10°	1215.6	1211.2	1209.7	1210.4	1209.7	1211.2	1215.6	1224.5	1227.5	1233.4	1240.0
12.5°	1170.0	1169.0	1159.3	1159.4	1159.3	1169.0	1170.0	1172.3	1178.8	1191.3	1199.1
15°	1116.3	1102.3	1100.8	1105.2	1100.8	1102.3	1116.3	1116.3	1119.3	1128.9	1133.4
17.5°	1062.5	1055.2	1055.6	1053.4	1055.6	1055.2	1062.5	1063.8	1066.1	1073.9	1079.9
20°	1034.1	1029.6	1028.9	1023.7	1028.9	1029.6	1034.1	1034.1	1037.1	1040.8	1046.7
22.5°	1008.0	1006.5	1007.0	1001.3	1007.0	1006.5	1008.0	1009.8	1012.8	1015.3	1019.5
25°	975.6	979.3	976.3	976.3	976.3	979.3	975.6	976.3	977.0	980.8	983.7
27.5°	953.7	953.5	952.1	952.1	952.1	953.5	953.7	951.9	951.0	949.7	949.0
30°	937.1	936.3	937.8	937.8	937.8	936.3	937.1	934.1	932.6	931.9	928.9
32.5°	920.5	921.5	921.8	922.4	921.8	921.5	920.5	916.9	914.3	912.3	909.9
35°	894.8	895.6	897.8	896.4	897.8	895.6	894.8	890.4	887.4	883.0	879.3
37.5°	860.2	863.6	862.8	864.0	862.8	863.6	860.2	858.8	855.9	852.4	848.2
40°	834.1	836.3	835.6	835.6	835.6	836.3	834.1	833.4	830.4	828.2	824.4
42.5°	807.5	809.1	807.1	806.0	807.1	809.1	807.5	806.1	804.4	800.3	796.1
45°	763.7	762.2	764.5	761.5	764.5	762.2	763.7	760.7	760.1	757.1	753.4
47.5°	714.8	716.3	716.9	719.2	716.9	716.3	714.8	715.1	711.0	709.2	708.0
50°	682.2	686.6	686.6	686.0	686.6	686.6	682.2	680.8	677.8	674.9	674.9
52.5°	650.3	652.3	655.3	655.2	655.3	652.3	650.3	647.6	644.6	640.5	639.3
55°	600.8	602.3	603.7	604.5	603.7	602.3	600.8	594.8	592.6	590.4	586.6
57.5°	549.5	548.9	552.4	553.5	552.4	548.9	549.5	544.1	540.7	534.0	533.0
60°	513.3	513.3	519.2	521.5	519.2	513.3	513.3	507.5	502.3	497.8	496.3
62.5°	474.9	477.2	483.1	480.0	483.1	477.2	474.9	468.3	464.3	458.6	454.9
65°	418.5	424.4	423.7	426.7	423.7	424.4	418.5	414.8	406.7	401.5	397.1
67.5°	359.7	363.4	368.7	369.2	368.7	363.4	359.7	353.8	348.5	343.0	337.6
70°	320.0	323.7	326.7	328.9	326.7	323.7	320.0	314.1	308.1	304.4	298.5
72.5°	281.5	283.4	290.5	287.4	290.5	283.4	281.5	274.4	269.7	266.6	260.0
75°	220.7	225.9	230.4	228.2	230.4	225.9	220.7	215.6	211.9	207.5	201.5
77.5°	163.2	168.4	170.5	168.6	170.5	168.4	163.2	159.9	158.0	149.2	148.6
80°	128.9	128.2	132.6	131.9	132.6	128.2	128.9	123.7	120.0	114.8	114.8
82.5°	94.5	93.8	95.9	96.3	95.9	93.8	94.5	91.7	86.8	84.6	82.8
85°	45.9	48.2	45.1	44.5	45.1	48.2	45.9	43.0	43.0	43.0	42.2
87.5°	13.8	13.8	13.3	12.7	13.3	13.8	13.8	13.7	16.0	14.1	14.0
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	17.4	17.5	17.7	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3
95°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4
97.5°	21.8	21.9	22.1	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2
100°	22.2	22.3	22.4	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6
102.5°	22.3	22.6	22.8	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4
105°	22.9	23.2	23.4	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4
107.5°	122.1	106.1	90.2	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7
110°	199.1	182.0	164.9	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6



TEST NUMBER: P332054-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	264.5	260.8	257.2	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7
115°	314.6	315.2	315.7	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9
117.5°	350.9	351.0	351.1	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4
120°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9
122.5°	398.6	398.7	398.8	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8
125°	431.5	431.8	432.0	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6
127.5°	465.0	464.8	464.5	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4
130°	485.6	485.4	485.1	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7
132.5°	504.8	504.4	504.2	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2
135°	533.9	533.5	533.1	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5
137.5°	560.6	560.4	560.2	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6
140°	577.0	576.7	576.6	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2
142.5°	592.4	592.0	591.6	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9
145°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9
147.5°	633.3	632.7	632.3	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6
150°	645.6	645.3	644.9	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5
152.5°	656.6	656.0	655.4	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3
155°	671.5	670.7	670.1	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0
157.5°	684.2	683.3	682.4	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8
160°	691.7	690.9	690.0	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2
162.5°	698.7	698.0	697.2	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8
165°	707.8	707.0	706.2	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7
167.5°	714.5	713.6	712.7	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6
170°	718.4	717.5	716.5	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5
172.5°	720.9	719.8	718.7	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0
175°	723.8	722.8	721.9	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1
177.5°	724.7	723.8	722.8	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332054-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	15.1	15.0	14.1	14.4	13.5	13.8	12.9	13.3	13.7	13.4	14.3
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	14.5	13.8	12.6	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0
95°	17.5	16.7	15.4	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8
97.5°	18.3	17.3	25.9	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9
100°	18.7	17.7	36.4	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9
102.5°	32.4	35.3	55.7	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2
105°	96.6	117.7	128.5	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2
107.5°	200.3	215.7	214.1	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4
110°	238.5	242.4	241.1	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2



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CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	269.7	269.6	268.2	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8
115°	309.8	308.6	307.5	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5
117.5°	347.4	346.4	345.9	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0
120°	371.9	370.9	370.6	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5
122.5°	396.2	395.5	395.0	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5
125°	430.3	430.1	429.6	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6
127.5°	464.0	463.6	463.1	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8
130°	484.3	483.8	483.3	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4
132.5°	503.7	503.2	502.8	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2
135°	533.1	532.7	532.3	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4
137.5°	559.0	558.5	558.2	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2
140°	575.7	575.2	574.9	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3
142.5°	591.5	591.2	590.8	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3
145°	613.6	613.4	613.1	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5
147.5°	633.3	633.1	632.8	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5
150°	645.4	645.1	644.9	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4
152.5°	655.8	655.4	655.3	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0
155°	670.4	669.9	669.7	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3
157.5°	683.2	682.4	682.5	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1
160°	690.4	689.8	689.8	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8
162.5°	697.0	696.2	696.3	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1
165°	705.8	704.7	704.9	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9
167.5°	712.7	711.6	711.6	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8
170°	716.5	715.5	715.5	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7
172.5°	719.1	718.1	718.0	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3
175°	722.3	721.4	721.3	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6
177.5°	723.5	722.7	722.6	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332054-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.4	1541.3	1551.4	1558.6	1566.9	1571.6	1576.3	1579.9	1584.6	1585.8	1603.0
5°	1545.2	1560.1	1586.0	1605.2	1628.9	1654.8	1672.6	1680.8	1702.2	1720.0	1755.6
7.5°	1543.3	1574.9	1614.0	1654.5	1698.1	1738.4	1773.4	1814.9	1844.4	1888.7	1932.4
10°	1541.5	1583.8	1634.1	1686.0	1746.7	1803.0	1853.4	1909.7	1956.3	2017.8	2070.4
12.5°	1536.2	1587.3	1657.3	1718.5	1792.3	1870.0	1944.7	2016.9	2058.3	2160.7	2209.1
15°	1523.1	1583.8	1671.1	1764.5	1866.0	1957.8	2052.7	2128.3	2250.4	2340.1	2397.1
17.5°	1497.8	1582.9	1686.6	1799.1	1922.6	2043.6	2151.1	2265.7	2395.4	2503.8	2619.3
20°	1486.0	1579.3	1694.9	1819.3	1947.5	2084.5	2206.8	2344.5	2486.1	2592.7	2740.8
22.5°	1464.1	1569.8	1694.3	1833.0	1970.0	2111.8	2254.8	2393.7	2557.1	2704.1	2845.2
25°	1428.2	1546.7	1675.7	1830.4	1991.2	2133.4	2304.5	2489.0	2659.4	2848.3	2989.0
27.5°	1390.5	1517.1	1646.2	1790.3	1963.1	2131.9	2347.2	2555.6	2763.9	2927.1	3031.2
30°	1361.5	1484.5	1617.9	1763.0	1934.1	2134.9	2375.6	2603.0	2806.0	2946.0	3004.5
32.5°	1330.1	1454.8	1572.8	1725.1	1907.4	2133.1	2393.4	2630.9	2808.4	2901.6	2890.2
35°	1280.8	1385.3	1500.1	1646.7	1861.5	2120.1	2403.8	2633.4	2742.3	2722.3	2571.2
37.5°	1209.7	1297.5	1410.6	1571.1	1808.2	2092.6	2383.0	2555.3	2548.3	2385.4	2166.4
40°	1165.3	1240.0	1349.0	1517.9	1766.7	2074.9	2350.4	2462.3	2367.5	2140.0	1877.8
42.5°	1107.1	1176.0	1285.0	1458.6	1721.1	2038.7	2288.2	2320.6	2135.1	1873.4	1633.0
45°	1017.1	1077.8	1190.4	1369.7	1652.7	1960.0	2136.4	2057.1	1807.4	1537.1	1354.2
47.5°	920.3	983.4	1091.7	1275.9	1553.7	1841.7	1925.7	1757.1	1500.8	1281.5	1113.5
50°	859.3	920.0	1026.0	1211.9	1486.7	1744.5	1779.3	1561.5	1326.0	1133.4	995.6
52.5°	797.7	854.9	959.0	1145.5	1408.5	1631.9	1610.4	1388.5	1171.9	1007.8	899.6
55°	706.0	760.1	859.3	1034.1	1273.4	1450.4	1372.6	1160.7	981.5	854.1	771.8
57.5°	623.9	675.7	761.4	919.3	1127.3	1249.0	1150.0	971.5	828.9	730.8	669.5
60°	568.2	614.1	695.6	842.3	1023.0	1115.6	1017.9	860.1	740.0	661.5	606.7
62.5°	515.4	555.4	630.9	764.0	921.1	998.8	899.8	766.4	664.2	594.6	548.0
65°	435.5	471.8	538.6	642.2	771.1	823.0	737.8	629.6	550.4	498.5	467.4
67.5°	362.7	393.5	451.1	532.7	627.5	665.3	600.5	516.8	457.0	415.4	390.7
70°	314.1	340.7	386.0	456.3	542.2	571.1	510.4	441.5	397.8	364.5	341.5
72.5°	273.1	292.8	333.8	388.1	459.9	482.9	440.5	379.8	339.1	314.1	295.9
75°	208.1	224.4	251.1	294.8	344.5	357.8	325.9	288.1	260.7	243.0	228.8
77.5°	150.1	162.1	181.3	208.3	242.7	254.7	234.5	209.3	189.4	177.3	169.5
80°	113.3	123.0	139.3	161.5	182.2	188.9	177.0	157.8	143.7	137.0	130.4
82.5°	83.7	89.2	99.0	114.0	128.3	136.2	126.1	114.5	107.0	100.9	98.4
85°	42.2	45.1	49.7	55.5	64.5	67.4	63.7	60.7	56.3	52.6	52.6
87.5°	15.7	16.0	18.0	19.4	22.1	24.1	23.8	23.0	22.7	22.2	21.8
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	9.7	9.3	9.0	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3
95°	27.9	23.0	18.1	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4
97.5°	63.7	61.5	59.3	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2
100°	93.2	95.7	98.0	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6
102.5°	120.9	122.7	124.4	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4
105°	161.6	162.9	164.1	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4
107.5°	204.4	205.6	206.6	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7
110°	233.2	234.1	235.1	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.6	261.5	262.3	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7
115°	301.2	301.9	302.7	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9
117.5°	340.8	341.8	342.6	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4
120°	365.5	366.6	367.7	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9
122.5°	390.3	391.2	392.1	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8
125°	424.6	425.6	426.5	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6
127.5°	457.7	458.6	459.6	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4
130°	478.3	479.3	480.2	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7
132.5°	498.1	499.1	500.0	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2
135°	528.1	528.8	529.5	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5
137.5°	554.1	555.0	555.9	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6
140°	571.1	571.8	572.5	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2
142.5°	587.0	587.8	588.4	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9
145°	609.4	610.2	611.1	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9
147.5°	630.1	630.7	631.1	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6
150°	642.8	643.1	643.5	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5
152.5°	654.2	654.3	654.5	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3
155°	670.1	669.9	669.7	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0
157.5°	683.1	683.0	683.0	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8
160°	690.7	690.6	690.4	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2
162.5°	697.8	697.5	697.2	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8
165°	706.5	706.2	705.9	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7
167.5°	713.3	712.8	712.4	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6
170°	717.2	716.7	716.2	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5
172.5°	719.7	719.1	718.5	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0
175°	723.0	722.4	721.8	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1
177.5°	724.0	723.5	723.0	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1608.9	1609.5	1616.1	1620.8	1618.4	1621.4	1622.6
5°	1757.8	1784.5	1798.6	1808.9	1809.7	1810.4	1816.4
7.5°	1969.0	1997.5	2018.5	2050.1	2059.6	2070.4	2067.3
10°	2123.1	2165.2	2201.6	2220.8	2241.6	2271.9	2247.5
12.5°	2267.0	2341.8	2397.1	2427.0	2446.6	2452.7	2440.7
15°	2504.5	2602.3	2654.9	2653.4	2720.1	2749.0	2703.8
17.5°	2722.3	2812.5	2884.8	2921.9	2977.4	2989.7	2984.1
20°	2855.6	2954.2	3010.5	3074.2	3103.0	3129.0	3133.4
22.5°	2970.6	3059.0	3119.5	3172.5	3196.7	3209.0	3216.4
25°	3089.0	3158.6	3194.9	3213.4	3220.1	3218.6	3209.0
27.5°	3080.8	3086.2	3046.2	3006.9	2971.8	2932.2	2918.6
30°	3000.9	2938.6	2827.5	2764.6	2671.9	2598.6	2628.2
32.5°	2790.5	2666.6	2541.8	2404.2	2290.3	2257.9	2225.2
35°	2381.5	2163.8	2036.4	1888.2	1828.9	1769.7	1728.9
37.5°	1926.7	1758.3	1607.1	1510.2	1450.9	1413.3	1393.3
40°	1665.9	1514.1	1389.7	1311.2	1265.9	1223.7	1217.9
42.5°	1458.0	1316.8	1223.1	1160.6	1117.2	1099.3	1086.3
45°	1194.1	1095.6	1032.6	988.2	959.3	948.2	933.4
47.5°	1010.7	941.0	893.8	863.6	841.8	833.5	832.4
50°	908.1	850.4	815.6	791.8	774.9	771.8	760.1
52.5°	831.1	781.1	753.9	733.2	721.0	712.7	709.1
55°	721.5	688.2	663.7	651.9	642.2	634.0	634.0
57.5°	631.3	603.4	587.3	577.2	574.2	568.4	564.8
60°	575.6	551.9	539.3	530.4	524.4	525.2	518.5
62.5°	521.0	505.7	493.6	484.7	477.7	477.8	478.2
65°	443.7	431.9	423.0	420.0	415.6	410.4	411.9
67.5°	376.0	364.9	358.0	352.9	351.4	348.6	352.9
70°	327.4	319.2	314.1	309.6	308.1	308.9	312.6
72.5°	283.0	277.2	273.8	271.7	268.4	268.6	271.1
75°	222.3	217.8	214.8	212.6	211.9	211.9	211.9
77.5°	163.2	162.2	160.9	157.6	157.8	158.6	158.8
80°	128.9	126.7	125.9	124.4	122.2	120.7	124.4
82.5°	96.3	94.1	93.3	93.0	89.6	89.4	92.5
85°	51.8	49.7	50.3	49.7	49.7	48.9	48.9
87.5°	21.2	20.7	20.3	20.8	20.4	19.8	21.0
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	16.0	16.8	17.2	17.4	17.5	17.7	17.8
95°	19.1	20.0	20.5	20.5	20.5	20.5	20.5
97.5°	20.2	21.1	21.7	21.8	21.9	22.1	22.1
100°	20.6	21.6	22.1	22.2	22.3	22.4	22.6
102.5°	26.5	23.6	22.1	22.3	22.6	22.8	23.0
105°	54.3	33.2	22.7	22.9	23.2	23.4	23.7
107.5°	169.3	153.7	138.1	122.1	106.1	90.2	74.3
110°	230.6	226.7	216.1	199.1	182.0	164.9	147.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	269.8	269.8	268.1	264.5	260.8	257.2	253.6
115°	312.2	313.4	314.1	314.6	315.2	315.7	316.1
117.5°	349.3	350.2	350.8	350.9	351.0	351.1	351.2
120°	373.8	374.8	375.2	375.2	375.2	375.2	375.2
122.5°	397.5	398.1	398.5	398.6	398.7	398.8	398.9
125°	430.7	431.0	431.3	431.5	431.8	432.0	432.3
127.5°	464.8	465.1	465.2	465.0	464.8	464.5	464.3
130°	485.2	485.7	485.9	485.6	485.4	485.1	484.9
132.5°	504.6	505.1	505.2	504.8	504.4	504.2	503.8
135°	533.9	534.1	534.1	533.9	533.5	533.1	532.7
137.5°	560.2	560.7	560.9	560.6	560.4	560.2	560.0
140°	576.6	577.1	577.2	577.0	576.7	576.6	576.3
142.5°	592.3	592.7	592.7	592.4	592.0	591.6	591.4
145°	614.1	614.3	614.4	614.4	614.4	614.4	614.4
147.5°	633.8	634.0	633.9	633.3	632.7	632.3	631.7
150°	645.8	646.0	646.0	645.6	645.3	644.9	644.6
152.5°	656.7	657.1	657.0	656.6	656.0	655.4	654.9
155°	671.7	672.2	672.1	671.5	670.7	670.1	669.3
157.5°	684.6	685.3	685.1	684.2	683.3	682.4	681.5
160°	691.8	692.6	692.5	691.7	690.9	690.0	689.2
162.5°	698.6	699.5	699.5	698.7	698.0	697.2	696.5
165°	707.7	708.6	708.7	707.8	707.0	706.2	705.3
167.5°	714.5	715.5	715.5	714.5	713.6	712.7	711.6
170°	718.4	719.3	719.3	718.4	717.5	716.5	715.5
172.5°	721.0	721.9	721.9	720.9	719.8	718.7	717.7
175°	724.0	724.8	724.7	723.8	722.8	721.9	720.9
177.5°	725.0	725.8	725.7	724.7	723.8	722.8	721.9
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6

(END OF REPORT)