

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: NEO-RAY

Report Number: P332055-830

Luminaire Tested: **S123DIP-S1165D585U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332055-830  
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-S1165D585U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6512.8 lumens  
Efficiency: N/A  
Efficacy: 118.2 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

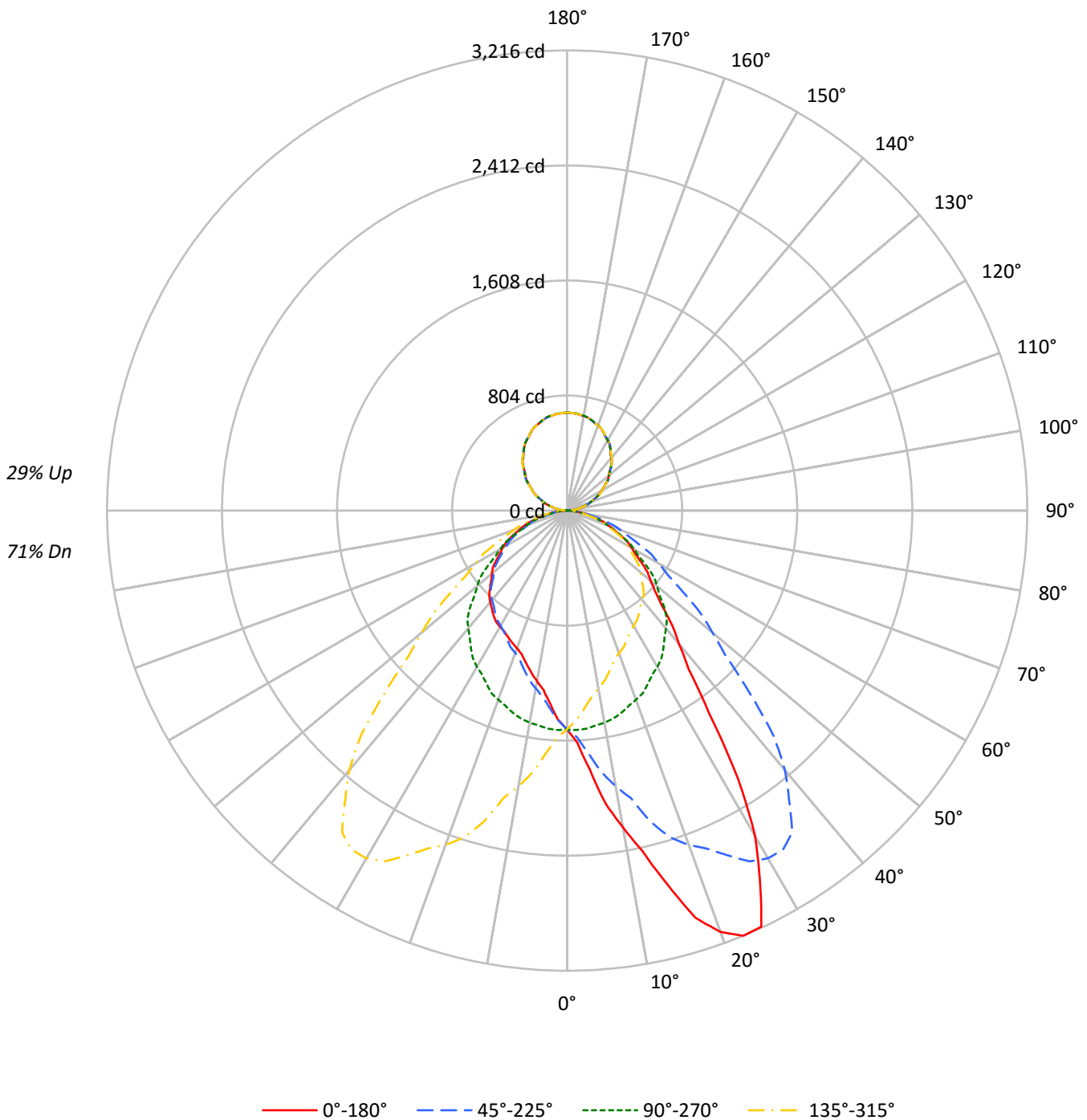
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**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	2.3
10°-20°	482.9	7.4
20°-30°	810.5	12.4
30°-40°	917.8	14.1
40°-50°	823.0	12.6
50°-60°	664.2	10.2
60°-70°	462.8	7.1
70°-80°	243.3	3.7
80°-90°	61.5	0.9
90°-100°	44.6	0.7
100°-110°	133.4	2.0
110°-120°	227.0	3.5
120°-130°	298.5	4.6
130°-140°	335.6	5.2
140°-150°	329.8	5.1
150°-160°	277.7	4.3
160°-170°	184.8	2.8
170°-180°	64.7	1.0
0°-30°	1444.1	22.2
0°-40°	2361.9	36.3
0°-60°	3849.1	59.1
0°-90°	4616.7	70.9
90°-120°	405.0	6.2
90°-150°	1368.9	21.0
90°-180°	1896.0	29.1
0°-180°	6512.8	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°	42	32	42	32	42	43
105°	128	121	128	121	128	136
115°	229	228	229	228	229	227
125°	331	334	331	334	331	296
135°	433	434	433	434	433	333
145°	526	526	526	526	526	329
155°	602	603	602	603	602	277
165°	654	656	654	656	654	185
175°	680	683	680	683	680	65
180°	684	684	684	684	684	



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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°	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4	21.0	20.6	19.8
95°	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7	40.2	39.8	38.8
97.5°	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3	62.8	62.3	61.5
100°	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7	79.4	79.0	78.4
102.5°	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7	98.3	97.9	97.2
105°	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9	126.9	126.9	125.8
107.5°	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4	157.0	156.7	156.3
110°	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9	177.4	176.9	176.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2	197.7	197.1	197.1
115°	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2	229.1	229.0	229.2
117.5°	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6	260.6	260.6	261.0
120°	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4	281.6	281.7	282.3
122.5°	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6	302.9	303.2	303.5
125°	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9	334.4	335.0	335.2
127.5°	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0	365.7	366.4	366.6
130°	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6	386.1	386.5	386.9
132.5°	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6	406.1	406.8	407.0
135°	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5	436.1	436.6	436.7
137.5°	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9	465.4	465.9	465.6
140°	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2	484.3	484.4	484.3
142.5°	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2	502.4	502.5	502.3
145°	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8	528.9	529.0	528.7
147.5°	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8	553.8	553.8	553.6
150°	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3	569.3	569.3	569.1
152.5°	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5	583.2	583.1	583.0
155°	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2	603.7	603.2	603.1
157.5°	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0	621.4	620.9	620.9
160°	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9	632.3	631.7	631.7
162.5°	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2	642.6	642.1	642.0
165°	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3	655.5	654.8	654.8
167.5°	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8	666.1	665.3	665.2
170°	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6	671.8	670.9	670.9
172.5°	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1	676.5	675.7	675.7
175°	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0	681.4	680.6	680.6
177.5°	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3	683.6	683.1	683.1
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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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°	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0	13.9	14.6	15.5
95°	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8	32.5	33.4	34.2
97.5°	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4	56.9	57.6	58.2
100°	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1	73.8	74.6	75.3
102.5°	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5	92.9	93.3	93.8
105°	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9	121.2	121.4	121.7
107.5°	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1	154.2	154.4	154.5
110°	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7	174.9	175.2	175.4





TEST NUMBER: P332055-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2	196.3	196.5	196.6
115°	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5	228.8	229.2	229.6
117.5°	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0	261.2	261.5	261.6
120°	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2	281.9	282.6	283.3
122.5°	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3	302.7	303.3	303.8
125°	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4	334.8	335.1	335.5
127.5°	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1	364.9	365.6	366.4
130°	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9	384.8	385.8	386.7
132.5°	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6	404.6	405.6	406.5
135°	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9	434.6	435.3	436.0
137.5°	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8	462.4	463.0	463.6
140°	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2	481.7	482.4	483.0
142.5°	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8	499.4	500.0	500.6
145°	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3	526.6	526.8	527.1
147.5°	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4	550.8	551.3	551.7
150°	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2	567.4	567.7	567.9
152.5°	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0	581.3	581.6	581.9
155°	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
157.5°	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1	621.0	620.9	620.8
160°	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7	632.5	632.3	632.1
162.5°	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1	642.7	642.4	642.1
165°	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4	656.1	655.7	655.3
167.5°	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0	666.6	666.1	665.6
170°	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1	672.6	672.1	671.7
172.5°	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8	677.3	676.8	676.4
175°	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8	682.3	681.8	681.4
177.5°	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9	684.5	684.1	683.6
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332055-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A1

**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°	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4	21.8	22.1	22.3
95°	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7	41.2	41.7	41.9
97.5°	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3	63.9	64.5	64.7
100°	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7	80.1	80.5	80.8
102.5°	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7	99.1	99.3	99.5
105°	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9	126.9	126.9	127.0
107.5°	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4	157.8	158.2	158.3
110°	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9	178.3	178.8	178.9



TEST NUMBER: P332055-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2	198.8	199.3	199.6
115°	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2	229.4	229.5	229.5
117.5°	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6	260.5	260.5	260.3
120°	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4	281.3	281.3	281.1
122.5°	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6	302.3	302.0	301.6
125°	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9	333.5	333.0	332.5
127.5°	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0	364.3	363.6	363.1
130°	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6	385.1	384.7	384.0
132.5°	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6	405.0	404.4	403.9
135°	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5	435.1	434.6	434.2
137.5°	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9	464.4	463.9	463.4
140°	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2	484.0	483.9	483.4
142.5°	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2	502.1	502.0	501.6
145°	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8	528.7	528.6	528.2
147.5°	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8	553.8	553.8	553.5
150°	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3	569.3	569.3	569.0
152.5°	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5	583.7	583.9	583.6
155°	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2	604.6	605.1	604.9
157.5°	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0	622.5	622.9	622.8
160°	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9	633.5	634.0	634.1
162.5°	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2	643.9	644.4	644.3
165°	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3	657.0	657.7	657.6
167.5°	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8	667.6	668.4	668.4
170°	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6	673.4	674.3	674.3
172.5°	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1	677.9	678.6	678.6
175°	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0	682.8	683.5	683.4
177.5°	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3	684.9	685.4	685.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332055-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A1

**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°	22.1	22.0	21.9	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4
95°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7
97.5°	64.7	64.6	64.6	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3
100°	81.0	81.2	81.4	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7
102.5°	99.5	99.4	99.4	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7
105°	127.2	127.4	127.7	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9
107.5°	158.2	158.1	157.9	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4
110°	178.7	178.4	178.2	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	199.6	199.5	199.5	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2
115°	229.4	229.2	229.1	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2
117.5°	260.0	259.7	259.4	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6
120°	280.8	280.6	280.3	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4
122.5°	301.3	301.0	300.7	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6
125°	332.1	331.6	331.1	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9
127.5°	362.5	361.9	361.4	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0
130°	383.1	382.3	381.4	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6
132.5°	403.2	402.6	401.9	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6
135°	434.0	433.8	433.6	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5
137.5°	463.0	462.5	462.0	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9
140°	482.6	481.7	480.9	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2
142.5°	501.0	500.3	499.6	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2
145°	527.7	527.3	526.8	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8
147.5°	552.8	552.0	551.4	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8
150°	568.3	567.5	566.8	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3
152.5°	583.1	582.4	581.8	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5
155°	604.1	603.2	602.5	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2
157.5°	622.2	621.5	620.9	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0
160°	633.7	633.2	632.7	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9
162.5°	643.6	642.8	642.1	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2
165°	656.8	655.9	655.2	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3
167.5°	667.6	666.8	666.1	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8
170°	673.4	672.6	671.8	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6
172.5°	677.8	676.9	676.1	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1
175°	682.6	681.7	680.9	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0
177.5°	684.7	684.0	683.3	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332055-830

CATALOG NUMBER: S123DIP-S1165D585U830-4F0-1E-UDD-A1

**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°	21.0	20.6	19.8	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0
95°	40.2	39.8	38.8	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8
97.5°	62.8	62.3	61.5	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4
100°	79.4	79.0	78.4	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1
102.5°	98.3	97.9	97.2	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5
105°	126.9	126.9	125.8	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9
107.5°	157.0	156.7	156.3	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1
110°	177.4	176.9	176.6	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7



TEST NUMBER: P332055-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	197.7	197.1	197.1	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2
115°	229.1	229.0	229.2	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5
117.5°	260.6	260.6	261.0	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0
120°	281.6	281.7	282.3	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2
122.5°	302.9	303.2	303.5	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3
125°	334.4	335.0	335.2	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4
127.5°	365.7	366.4	366.6	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1
130°	386.1	386.5	386.9	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9
132.5°	406.1	406.8	407.0	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6
135°	436.1	436.6	436.7	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9
137.5°	465.4	465.9	465.6	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8
140°	484.3	484.4	484.3	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2
142.5°	502.4	502.5	502.3	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8
145°	528.9	529.0	528.7	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3
147.5°	553.8	553.8	553.6	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4
150°	569.3	569.3	569.1	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2
152.5°	583.2	583.1	583.0	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0
155°	603.7	603.2	603.1	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7
157.5°	621.4	620.9	620.9	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1
160°	632.3	631.7	631.7	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7
162.5°	642.6	642.1	642.0	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1
165°	655.5	654.8	654.8	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4
167.5°	666.1	665.3	665.2	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0
170°	671.8	670.9	670.9	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1
172.5°	676.5	675.7	675.7	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8
175°	681.4	680.6	680.6	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8
177.5°	683.6	683.1	683.1	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332055-830

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**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°	13.9	14.6	15.5	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4
95°	32.5	33.4	34.2	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7
97.5°	56.9	57.6	58.2	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3
100°	73.8	74.6	75.3	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7
102.5°	92.9	93.3	93.8	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7
105°	121.2	121.4	121.7	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9
107.5°	154.2	154.4	154.5	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4
110°	174.9	175.2	175.4	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.3	196.5	196.6	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2
115°	228.8	229.2	229.6	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2
117.5°	261.2	261.5	261.6	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6
120°	281.9	282.6	283.3	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4
122.5°	302.7	303.3	303.8	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6
125°	334.8	335.1	335.5	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9
127.5°	364.9	365.6	366.4	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0
130°	384.8	385.8	386.7	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6
132.5°	404.6	405.6	406.5	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6
135°	434.6	435.3	436.0	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5
137.5°	462.4	463.0	463.6	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9
140°	481.7	482.4	483.0	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2
142.5°	499.4	500.0	500.6	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2
145°	526.6	526.8	527.1	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8
147.5°	550.8	551.3	551.7	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8
150°	567.4	567.7	567.9	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3
152.5°	581.3	581.6	581.9	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5
155°	602.7	602.7	602.7	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2
157.5°	621.0	620.9	620.8	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0
160°	632.5	632.3	632.1	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9
162.5°	642.7	642.4	642.1	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2
165°	656.1	655.7	655.3	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3
167.5°	666.6	666.1	665.6	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8
170°	672.6	672.1	671.7	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6
172.5°	677.3	676.8	676.4	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1
175°	682.3	681.8	681.4	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0
177.5°	684.5	684.1	683.6	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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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°	21.8	22.1	22.3	22.1	22.0	21.9	21.7
95°	41.2	41.7	41.9	41.9	41.9	41.9	41.9
97.5°	63.9	64.5	64.7	64.7	64.6	64.6	64.5
100°	80.1	80.5	80.8	81.0	81.2	81.4	81.7
102.5°	99.1	99.3	99.5	99.5	99.4	99.4	99.3
105°	126.9	126.9	127.0	127.2	127.4	127.7	128.0
107.5°	157.8	158.2	158.3	158.2	158.1	157.9	157.8
110°	178.3	178.8	178.9	178.7	178.4	178.2	178.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.8	199.3	199.6	199.6	199.5	199.5	199.4
115°	229.4	229.5	229.5	229.4	229.2	229.1	229.0
117.5°	260.5	260.5	260.3	260.0	259.7	259.4	259.0
120°	281.3	281.3	281.1	280.8	280.6	280.3	280.1
122.5°	302.3	302.0	301.6	301.3	301.0	300.7	300.3
125°	333.5	333.0	332.5	332.1	331.6	331.1	330.6
127.5°	364.3	363.6	363.1	362.5	361.9	361.4	360.8
130°	385.1	384.7	384.0	383.1	382.3	381.4	380.6
132.5°	405.0	404.4	403.9	403.2	402.6	401.9	401.2
135°	435.1	434.6	434.2	434.0	433.8	433.6	433.3
137.5°	464.4	463.9	463.4	463.0	462.5	462.0	461.6
140°	484.0	483.9	483.4	482.6	481.7	480.9	480.1
142.5°	502.1	502.0	501.6	501.0	500.3	499.6	499.0
145°	528.7	528.6	528.2	527.7	527.3	526.8	526.3
147.5°	553.8	553.8	553.5	552.8	552.0	551.4	550.6
150°	569.3	569.3	569.0	568.3	567.5	566.8	566.1
152.5°	583.7	583.9	583.6	583.1	582.4	581.8	581.2
155°	604.6	605.1	604.9	604.1	603.2	602.5	601.6
157.5°	622.5	622.9	622.8	622.2	621.5	620.9	620.2
160°	633.5	634.0	634.1	633.7	633.2	632.7	632.3
162.5°	643.9	644.4	644.3	643.6	642.8	642.1	641.3
165°	657.0	657.7	657.6	656.8	655.9	655.2	654.3
167.5°	667.6	668.4	668.4	667.6	666.8	666.1	665.3
170°	673.4	674.3	674.3	673.4	672.6	671.8	670.9
172.5°	677.9	678.6	678.6	677.8	676.9	676.1	675.2
175°	682.8	683.5	683.4	682.6	681.7	680.9	680.0
177.5°	684.9	685.4	685.3	684.7	684.0	683.3	682.7
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4

(END OF REPORT)