

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: P332216-840

Luminaire Tested: **S123DIW-S1165D755U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332216-840  
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: S123DIW-S1165D755U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 755 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7997.3 lumens  
Efficiency: N/A  
Efficacy: 133.7 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

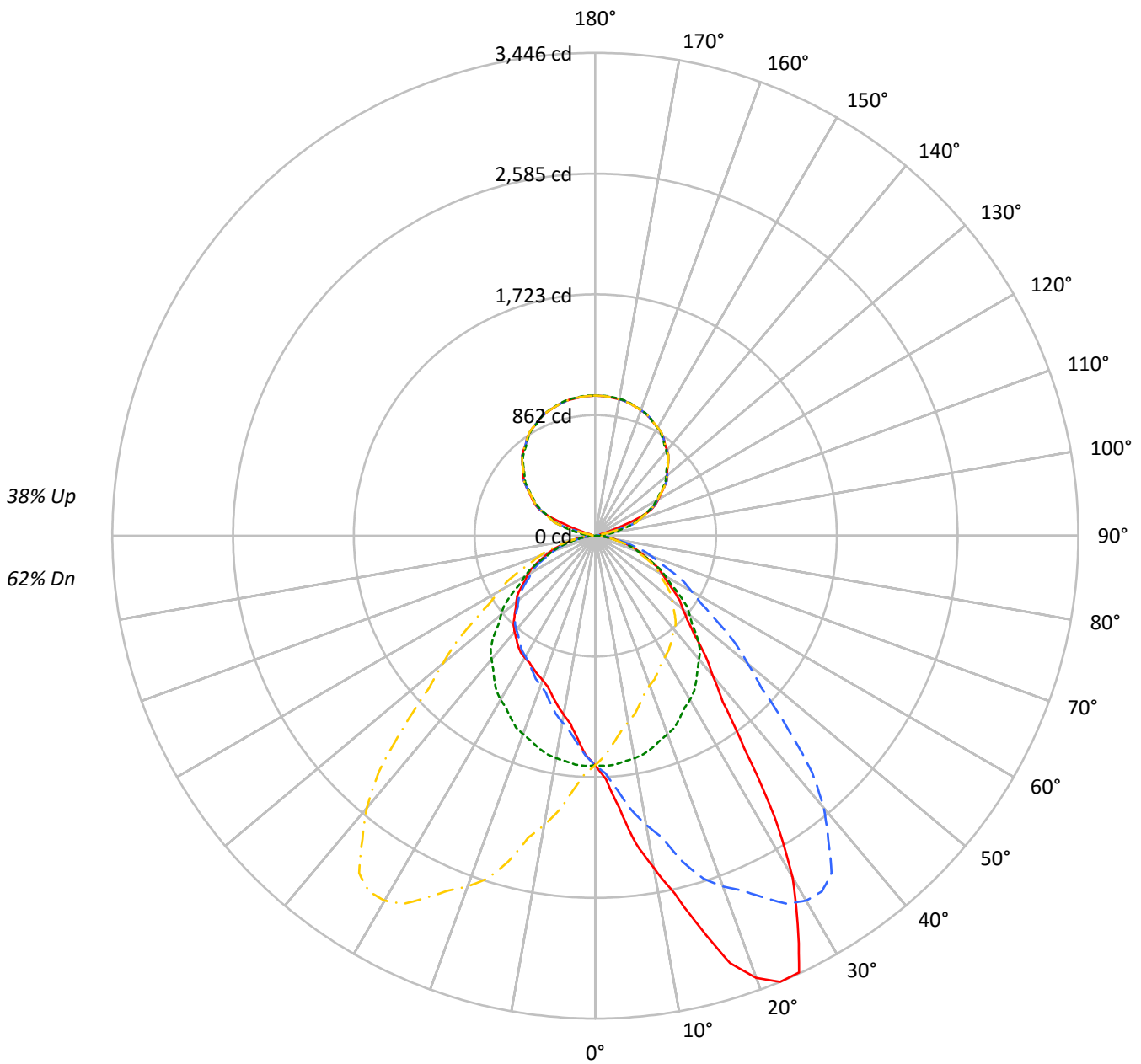
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	59	57	53
2	92	85	79	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	50	47	47	44	42	38
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	35	32	29
6	65	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17632	17632	17632	17632
5°	21028	17708	15693	17708
10°	26319	17618	14175	17618
15°	32282	17477	13196	17477
20°	38456	17255	12564	17255
25°	40834	16986	12423	16986
30°	34999	16789	12489	16789
35°	24341	16509	12620	16509
40°	18334	16183	12579	16183
45°	15224	15694	12420	15694
50°	13638	14699	12308	14699
55°	12748	13628	12153	13628
60°	11959	12508	12030	12508
65°	11240	11403	11645	11403
70°	10543	10140	11087	10140
75°	9441	8879	10168	8879
80°	8263	7277	8759	7277
85°	6472	5286	5891	5286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	2.0
10°-20°	517.4	6.5
20°-30°	868.4	10.9
30°-40°	983.3	12.3
40°-50°	881.8	11.0
50°-60°	711.6	8.9
60°-70°	495.9	6.2
70°-80°	260.6	3.3
80°-90°	66.5	0.8
90°-100°	36.4	0.5
100°-110°	173.3	2.2
110°-120°	416.3	5.2
120°-130°	530.1	6.6
130°-140°	566.4	7.1
140°-150°	529.7	6.6
150°-160°	427.3	5.3
160°-170°	275.7	3.4
170°-180°	95.0	1.2
0°-30°	1547.2	19.3
0°-40°	2530.6	31.6
0°-60°	4124.0	51.6
0°-90°	4947.0	61.9
90°-120°	626.0	7.8
90°-150°	2252.2	28.2
90°-180°	3050.0	38.1
0°-180°	7997.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1946	1639	1452	1639	1946	202
15°	2897	1568	1184	1568	2897	836
25°	3438	1430	1046	1430	3438	1508
35°	1852	1256	960	1256	1852	1204
45°	1000	1031	816	1031	1000	791
55°	679	726	648	726	679	610
65°	441	448	457	448	441	439
75°	227	214	244	214	227	243
85°	52	43	48	43	52	63
90°	22	1	22	1	22	13
95°	28	45	28	45	28	24
105°	33	222	33	222	33	75
115°	437	415	437	415	437	404
125°	597	586	597	586	597	534
135°	736	729	736	729	736	568
145°	849	841	849	841	849	530
155°	925	927	925	927	925	427
165°	975	977	975	977	975	275
175°	996	1000	996	1000	996	95
180°	1000	1000	1000	1000	1000	



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1738.5	1737.2	1734.0	1736.6	1731.5	1724.4	1723.8	1717.5	1699.1	1697.8	1692.7
5°	1946.1	1939.7	1938.9	1938.1	1927.0	1912.0	1883.4	1881.0	1842.9	1823.8	1800.9
7.5°	2214.9	2218.3	2206.8	2196.6	2162.6	2140.2	2109.6	2070.4	2023.6	1976.1	1944.5
10°	2408.0	2434.2	2401.7	2379.4	2358.8	2319.9	2274.7	2218.3	2161.9	2096.1	2046.1
12.5°	2615.0	2627.9	2621.3	2600.4	2568.3	2509.1	2428.9	2366.9	2315.0	2205.3	2161.0
15°	2896.9	2945.4	2914.4	2843.0	2844.5	2788.1	2683.4	2568.3	2507.2	2411.2	2280.3
17.5°	3197.2	3203.3	3190.1	3130.6	3090.9	3013.4	2916.8	2806.4	2682.6	2566.5	2427.5
20°	3357.2	3352.4	3324.7	3293.8	3225.5	3165.2	3059.6	2936.6	2777.8	2663.6	2511.9
22.5°	3446.2	3438.2	3425.1	3399.1	3342.4	3277.5	3182.8	3048.4	2897.2	2739.8	2564.7
25°	3438.2	3448.5	3450.1	3442.9	3423.1	3384.3	3309.6	3202.5	3051.7	2849.3	2666.8
27.5°	3127.0	3141.7	3184.1	3221.7	3263.8	3306.6	3300.8	3247.7	3136.1	2961.3	2738.1
30°	2815.9	2784.2	2862.8	2962.0	3029.5	3148.5	3215.2	3219.1	3156.4	3006.5	2788.9
32.5°	2384.2	2419.1	2453.9	2576.0	2723.4	2857.1	2989.8	3096.7	3108.9	3009.0	2818.8
35°	1852.4	1896.1	1959.5	2023.1	2181.8	2318.3	2551.6	2754.8	2916.8	2938.2	2821.5
37.5°	1492.8	1514.3	1554.5	1618.1	1721.9	1883.9	2064.4	2321.2	2555.8	2730.3	2737.8
40°	1304.8	1311.1	1356.3	1404.8	1488.9	1622.2	1784.9	2012.0	2292.9	2536.6	2638.2
42.5°	1163.9	1177.8	1197.0	1243.5	1310.5	1410.9	1562.2	1749.7	2007.2	2287.6	2486.4
45°	1000.1	1015.9	1027.8	1058.7	1106.4	1173.9	1279.4	1450.9	1646.9	1936.5	2204.0
47.5°	891.8	893.0	901.9	925.2	957.7	1008.2	1082.9	1193.1	1373.0	1608.0	1882.6
50°	814.4	827.0	830.2	848.4	873.8	911.1	973.0	1066.7	1214.4	1420.7	1673.0
52.5°	759.7	763.6	772.4	785.6	807.8	836.9	890.5	963.8	1079.7	1255.6	1487.6
55°	679.3	679.3	688.1	698.4	711.1	737.3	773.1	827.0	915.1	1051.6	1243.6
57.5°	605.1	609.0	615.2	618.4	629.2	646.5	676.4	717.3	783.0	888.1	1040.9
60°	555.5	562.7	561.9	568.3	577.8	591.3	616.7	650.1	708.7	792.8	921.5
62.5°	512.4	511.9	511.8	519.4	528.9	541.8	558.3	587.1	637.0	711.7	821.1
65°	441.3	439.7	445.2	450.0	453.2	462.7	475.4	500.8	534.1	589.7	674.6
67.5°	378.1	373.5	376.5	378.1	383.5	390.9	402.8	418.6	445.0	489.7	553.7
70°	335.0	330.9	330.1	331.7	336.5	342.0	350.8	365.9	390.5	426.2	473.0
72.5°	290.4	287.8	287.6	291.1	293.4	297.0	303.2	317.0	336.5	363.3	407.0
75°	227.0	227.0	227.0	227.8	230.1	233.4	238.1	245.2	260.3	279.3	308.7
77.5°	170.2	170.0	169.1	168.8	172.4	173.8	174.9	181.6	190.0	202.9	224.3
80°	133.3	129.4	131.0	133.3	134.9	135.7	138.1	139.7	146.8	154.0	169.1
82.5°	99.1	95.7	96.0	99.7	100.0	100.8	103.2	105.4	108.1	114.6	122.7
85°	52.4	52.4	53.2	53.2	53.9	53.2	55.5	56.4	56.4	60.3	65.0
87.5°	23.5	22.2	22.7	23.3	22.6	23.1	23.6	24.1	24.6	25.1	25.3
90°	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2	18.5	17.9	15.7
92.5°	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1	20.1	19.0	17.4
95°	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3	24.2	23.0	21.2
97.5°	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6	25.2	23.9	35.9
100°	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2	25.9	24.5	50.3
102.5°	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7	44.8	48.9	77.1
105°	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3	133.5	162.8	177.6
107.5°	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4	276.8	298.3	296.0
110°	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3	329.7	335.2	333.4



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8	372.7	372.6	370.8
115°	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9	428.2	426.6	425.1
117.5°	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5	480.2	478.9	478.1
120°	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4	514.1	512.7	512.3
122.5°	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5	547.5	546.6	546.0
125°	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1	594.8	594.5	593.8
127.5°	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0	641.4	640.9	640.1
130°	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1	669.4	668.8	668.1
132.5°	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9	696.2	695.6	695.0
135°	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4	736.9	736.4	735.8
137.5°	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6	772.7	771.9	771.6
140°	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5	795.8	795.2	794.7
142.5°	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2	817.7	817.2	816.7
145°	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6	848.2	847.9	847.6
147.5°	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8	875.5	875.0	874.7
150°	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4	892.1	891.7	891.4
152.5°	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2	906.6	906.1	905.8
155°	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6	926.8	925.9	925.7
157.5°	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3	944.3	943.3	943.5
160°	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4	954.4	953.4	953.6
162.5°	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6	963.5	962.3	962.5
165°	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8	975.5	974.2	974.4
167.5°	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3	985.0	983.7	983.7
170°	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7	990.4	989.1	989.1
172.5°	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3	994.0	992.7	992.5
175°	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6	998.5	997.2	997.1
177.5°	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2	1000.1	999.1	999.0
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1688.9	1683.8	1678.8	1669.9	1662.2	1651.4	1648.3	1644.5	1633.1	1623.0	1615.3
5°	1792.1	1773.0	1745.2	1719.9	1699.3	1671.5	1655.6	1638.9	1615.1	1593.7	1576.2
7.5°	1900.1	1862.6	1819.4	1772.7	1729.3	1687.4	1653.6	1623.4	1590.0	1558.4	1533.9
10°	1985.8	1931.8	1871.5	1806.4	1750.8	1696.9	1651.6	1611.9	1569.1	1531.8	1500.9
12.5°	2083.6	2003.6	1920.4	1841.3	1775.6	1700.7	1645.9	1595.5	1546.9	1502.0	1467.2
15°	2199.3	2097.7	1999.2	1890.6	1790.5	1696.9	1631.8	1568.3	1512.0	1465.9	1421.5
17.5°	2304.7	2189.6	2059.9	1927.6	1807.1	1696.0	1604.8	1533.1	1462.6	1406.2	1361.9
20°	2364.4	2233.4	2086.6	1949.2	1815.9	1692.1	1592.2	1506.4	1430.2	1370.7	1320.7
22.5°	2415.8	2262.6	2110.7	1963.9	1815.3	1681.9	1568.6	1480.4	1397.9	1339.6	1286.4
25°	2469.1	2285.8	2133.4	1961.2	1795.3	1657.2	1530.2	1430.2	1347.7	1279.4	1224.7
27.5°	2514.9	2284.2	2103.3	1918.1	1763.8	1625.5	1489.9	1382.6	1294.9	1220.8	1165.3
30°	2545.3	2287.3	2072.2	1889.0	1733.4	1590.5	1458.8	1350.8	1258.8	1183.4	1130.9
32.5°	2564.4	2285.4	2043.7	1848.4	1685.2	1558.7	1425.1	1313.3	1218.8	1144.7	1094.2
35°	2575.5	2271.5	1994.5	1764.3	1607.2	1484.2	1372.3	1256.4	1157.2	1088.1	1031.0
37.5°	2553.2	2242.1	1937.3	1683.3	1511.4	1390.2	1296.1	1197.3	1102.4	1026.4	977.1
40°	2518.3	2223.1	1892.9	1626.3	1445.3	1328.6	1248.5	1151.7	1057.9	985.7	939.7
42.5°	2451.6	2184.3	1844.0	1562.8	1376.7	1260.0	1186.2	1105.3	1016.7	948.9	902.9
45°	2289.0	2100.0	1770.7	1467.5	1275.5	1154.8	1089.7	1031.0	950.8	884.9	845.3
47.5°	2063.3	1973.3	1664.7	1367.1	1169.7	1053.7	986.0	938.8	880.2	827.0	788.9
50°	1906.4	1869.1	1592.9	1298.5	1099.2	985.7	920.7	877.8	835.8	782.5	747.6
52.5°	1725.5	1748.5	1509.1	1227.3	1027.5	915.9	854.6	820.6	782.4	738.7	708.3
55°	1470.7	1554.0	1364.3	1107.9	920.7	814.4	756.4	726.2	704.0	671.5	645.3
57.5°	1232.1	1338.2	1207.8	984.9	815.8	724.0	668.4	635.6	621.3	604.3	583.7
60°	1090.6	1195.3	1096.1	902.4	745.3	657.9	608.7	581.0	566.6	554.8	537.3
62.5°	964.1	1070.2	986.8	818.6	676.0	595.1	552.2	525.1	514.0	507.8	492.9
65°	790.5	881.8	826.2	688.1	577.0	505.5	466.7	447.7	437.3	434.9	425.5
67.5°	643.4	712.9	672.4	570.8	483.3	421.6	388.6	372.4	364.5	363.7	356.5
70°	546.8	611.9	581.0	488.9	413.5	365.1	336.5	322.2	317.5	316.7	312.8
72.5°	471.9	517.4	492.7	415.9	357.6	313.7	292.7	277.8	272.4	273.5	270.8
75°	349.2	383.3	369.1	315.9	269.0	240.4	223.0	213.5	208.7	211.2	207.9
77.5°	251.3	272.9	260.0	223.2	194.3	173.7	160.8	154.9	150.7	150.5	149.1
80°	189.7	202.4	195.2	173.0	149.3	131.8	121.4	117.4	115.1	114.3	113.5
82.5°	135.1	145.9	137.4	122.2	106.0	95.5	89.7	84.4	82.7	83.2	82.4
85°	68.3	72.2	69.1	59.5	53.2	48.4	45.2	42.8	41.3	42.1	40.5
87.5°	26.2	26.4	24.0	21.1	19.6	17.3	17.0	15.3	14.4	14.7	14.4
90°	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8	13.3	12.9	12.4
95°	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3	38.6	31.8	25.0
97.5°	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1	88.1	85.0	82.0
100°	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6	128.9	132.2	135.5
102.5°	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8	167.2	169.6	172.0
105°	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5	223.3	225.1	226.9
107.5°	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1	282.7	284.1	285.6
110°	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0	322.3	323.7	325.0





TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1	360.2	361.4	362.6
115°	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4	416.4	417.4	418.4
117.5°	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0	471.2	472.4	473.6
120°	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8	505.3	506.9	508.3
122.5°	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4	539.6	540.8	542.0
125°	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6	586.9	588.2	589.6
127.5°	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4	632.7	634.0	635.3
130°	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8	661.3	662.6	663.9
132.5°	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2	688.5	689.8	691.2
135°	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0	730.0	730.9	732.0
137.5°	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7	765.9	767.2	768.4
140°	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4	789.4	790.4	791.4
142.5°	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4	811.4	812.4	813.4
145°	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2	842.3	843.5	844.7
147.5°	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2	870.9	871.7	872.4
150°	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1	888.5	889.0	889.5
152.5°	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0	904.3	904.5	904.7
155°	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7	926.3	926.0	925.6
157.5°	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2	944.2	944.1	944.1
160°	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9	954.7	954.6	954.4
162.5°	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0	964.6	964.1	963.7
165°	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2	976.7	976.2	975.7
167.5°	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7	986.0	985.4	984.7
170°	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1	991.4	990.8	990.1
172.5°	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6	994.8	994.0	993.3
175°	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3	999.4	998.6	997.7
177.5°	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4	1000.8	1000.1	999.5
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1610.8	1606.4	1600.0	1590.5	1582.9	1570.8	1570.8	1572.8	1572.8	1572.2	1570.8
5°	1562.0	1550.0	1535.8	1519.1	1501.7	1484.2	1481.0	1474.6	1469.9	1466.7	1462.8
7.5°	1510.4	1489.2	1468.4	1445.1	1423.8	1406.2	1394.0	1383.8	1377.4	1370.4	1365.2
10°	1475.4	1449.3	1424.6	1400.1	1373.0	1351.6	1338.2	1328.6	1321.5	1315.1	1311.9
12.5°	1434.2	1404.2	1377.1	1353.7	1324.1	1302.1	1289.3	1284.8	1276.4	1263.0	1256.1
15°	1373.8	1346.0	1313.5	1277.8	1263.5	1236.6	1221.4	1214.4	1209.5	1199.2	1196.1
17.5°	1322.2	1285.9	1249.4	1222.7	1196.2	1174.3	1165.9	1157.0	1150.6	1142.3	1139.7
20°	1281.0	1248.5	1215.1	1186.6	1158.7	1135.0	1127.8	1121.5	1115.1	1111.2	1107.9
22.5°	1239.1	1206.6	1178.9	1152.3	1122.6	1107.0	1099.2	1092.3	1087.8	1085.1	1082.0
25°	1180.2	1151.7	1120.6	1096.8	1073.1	1062.7	1057.9	1054.0	1050.9	1046.8	1046.0
27.5°	1127.5	1096.4	1071.3	1049.0	1032.0	1023.4	1018.8	1016.8	1017.5	1019.0	1019.9
30°	1088.1	1059.6	1038.9	1019.9	1004.0	996.0	995.2	995.2	998.5	999.3	1000.8
32.5°	1052.0	1028.4	1007.8	989.4	977.3	971.9	974.9	974.9	977.4	979.6	982.4
35°	999.3	978.6	962.7	946.8	936.5	938.9	940.5	942.1	946.0	950.8	954.0
37.5°	948.9	931.0	914.4	902.1	897.4	901.6	905.4	908.8	913.3	917.1	920.2
40°	912.7	899.2	883.3	872.2	873.8	876.3	879.4	883.3	887.4	889.7	892.9
42.5°	879.1	864.9	852.9	843.6	845.9	848.9	850.8	852.9	857.5	861.8	863.6
45°	827.8	816.7	805.6	800.0	801.6	803.2	804.8	807.2	811.1	814.4	815.1
47.5°	770.2	762.4	755.0	749.5	752.0	751.4	753.6	758.6	759.8	761.7	766.2
50°	733.4	726.2	717.5	715.9	715.9	715.9	716.7	723.1	723.1	726.2	729.4
52.5°	692.8	688.1	682.6	679.7	678.4	678.4	681.8	685.0	686.2	690.6	693.9
55°	632.6	627.8	623.0	620.7	619.0	620.7	627.0	628.5	632.6	634.9	637.3
57.5°	569.9	566.2	562.4	561.1	560.8	562.9	566.3	571.1	572.1	579.4	583.0
60°	528.6	523.0	519.9	519.9	518.3	525.4	523.8	531.8	533.3	538.2	543.7
62.5°	486.0	478.6	477.4	477.4	479.6	481.6	483.8	487.4	491.4	497.5	501.8
65°	417.5	413.5	419.1	418.3	416.7	421.4	421.4	425.5	430.2	435.8	444.4
67.5°	352.5	350.5	350.9	350.9	353.4	356.1	358.3	361.7	367.5	373.3	379.1
70°	308.7	311.1	307.2	310.3	312.8	313.5	315.1	319.8	326.2	330.1	336.5
72.5°	266.2	266.0	266.5	267.8	270.1	271.6	273.2	278.6	285.6	288.9	294.0
75°	204.8	204.0	206.3	206.3	210.4	211.9	213.5	215.9	222.3	227.0	231.0
77.5°	149.6	150.5	150.0	152.7	151.6	151.9	156.8	159.3	159.9	169.3	171.3
80°	112.7	114.3	115.1	115.8	116.6	115.1	120.7	123.0	123.0	128.6	132.5
82.5°	81.0	81.9	84.0	84.7	84.9	86.5	86.9	88.8	90.7	93.0	98.3
85°	40.5	42.8	43.6	42.8	43.6	42.1	44.4	45.2	46.0	46.0	46.0
87.5°	14.1	15.1	14.9	16.1	15.9	16.9	17.1	15.9	16.1	18.1	15.7
90°	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2	19.8	20.5	21.0
92.5°	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1	22.2	23.2	23.8
95°	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3	26.5	27.7	28.3
97.5°	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6	27.9	29.2	30.0
100°	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2	28.5	29.8	30.6
102.5°	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7	36.7	32.5	30.6
105°	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3	75.0	45.8	31.4
107.5°	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4	234.0	212.6	190.9
110°	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3	318.8	313.4	298.8



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8	372.9	373.0	370.5
115°	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9	431.5	433.1	434.3
117.5°	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5	482.8	484.1	484.8
120°	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4	516.7	518.1	518.7
122.5°	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5	549.4	550.4	550.9
125°	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1	595.5	595.8	596.1
127.5°	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0	642.5	643.0	643.1
130°	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1	670.8	671.5	671.7
132.5°	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9	697.5	698.2	698.3
135°	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4	737.9	738.4	738.4
137.5°	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6	774.4	775.2	775.4
140°	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5	797.1	797.8	798.0
142.5°	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2	818.7	819.2	819.3
145°	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6	848.9	849.2	849.4
147.5°	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8	876.1	876.5	876.2
150°	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4	892.7	893.0	893.0
152.5°	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2	907.8	908.4	908.3
155°	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6	928.4	929.3	929.2
157.5°	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3	946.2	947.3	947.2
160°	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4	956.4	957.4	957.4
162.5°	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6	965.7	966.8	966.8
165°	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8	978.2	979.5	979.6
167.5°	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3	987.7	989.1	989.1
170°	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7	993.1	994.4	994.4
172.5°	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3	996.6	997.9	997.8
175°	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6	1000.8	1001.9	1001.8
177.5°	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2	1002.2	1003.3	1003.1
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1566.4	1565.8	1570.2	1567.0	1570.2	1565.8	1566.4	1570.8	1572.2	1572.8	1572.8
5°	1457.9	1460.4	1452.4	1452.4	1452.4	1460.4	1457.9	1462.8	1466.7	1469.9	1474.6
7.5°	1361.5	1358.0	1358.3	1354.0	1358.3	1358.0	1361.5	1365.2	1370.4	1377.4	1383.8
10°	1302.4	1297.7	1296.1	1296.9	1296.1	1297.7	1302.4	1311.9	1315.1	1321.5	1328.6
12.5°	1253.5	1252.5	1242.1	1242.2	1242.1	1252.5	1253.5	1256.1	1263.0	1276.4	1284.8
15°	1196.1	1181.0	1179.4	1184.2	1179.4	1181.0	1196.1	1196.1	1199.2	1209.5	1214.4
17.5°	1138.4	1130.5	1130.9	1128.6	1130.9	1130.5	1138.4	1139.7	1142.3	1150.6	1157.0
20°	1107.9	1103.2	1102.4	1096.8	1102.4	1103.2	1107.9	1107.9	1111.2	1115.1	1121.5
22.5°	1080.1	1078.4	1078.9	1072.8	1078.9	1078.4	1080.1	1082.0	1085.1	1087.8	1092.3
25°	1045.3	1049.2	1046.0	1046.0	1046.0	1049.2	1045.3	1046.0	1046.8	1050.9	1054.0
27.5°	1021.8	1021.6	1020.1	1020.1	1020.1	1021.6	1021.8	1019.9	1019.0	1017.5	1016.8
30°	1004.0	1003.2	1004.8	1004.8	1004.8	1003.2	1004.0	1000.8	999.3	998.5	995.2
32.5°	986.2	987.3	987.6	988.3	987.6	987.3	986.2	982.4	979.6	977.4	974.9
35°	958.8	959.6	961.9	960.4	961.9	959.6	958.8	954.0	950.8	946.0	942.1
37.5°	921.6	925.2	924.4	925.7	924.4	925.2	921.6	920.2	917.1	913.3	908.8
40°	893.6	896.1	895.2	895.2	895.2	896.1	893.6	892.9	889.7	887.4	883.3
42.5°	865.2	866.9	864.7	863.5	864.7	866.9	865.2	863.6	861.8	857.5	852.9
45°	818.3	816.7	819.1	815.9	819.1	816.7	818.3	815.1	814.4	811.1	807.2
47.5°	765.9	767.5	768.1	770.5	768.1	767.5	765.9	766.2	761.7	759.8	758.6
50°	730.9	735.7	735.7	735.0	735.7	735.7	730.9	729.4	726.2	723.1	723.1
52.5°	696.7	698.9	702.1	702.0	702.1	698.9	696.7	693.9	690.6	686.2	685.0
55°	643.7	645.3	646.8	647.6	646.8	645.3	643.7	637.3	634.9	632.6	628.5
57.5°	588.8	588.1	591.9	593.0	591.9	588.1	588.8	583.0	579.4	572.1	571.1
60°	550.0	550.0	556.3	558.8	556.3	550.0	550.0	543.7	538.2	533.3	531.8
62.5°	508.8	511.3	517.7	514.3	517.7	511.3	508.8	501.8	497.5	491.4	487.4
65°	448.4	454.7	453.9	457.2	453.9	454.7	448.4	444.4	435.8	430.2	425.5
67.5°	385.4	389.4	395.1	395.6	395.1	389.4	385.4	379.1	373.3	367.5	361.7
70°	342.8	346.8	350.0	352.3	350.0	346.8	342.8	336.5	330.1	326.2	319.8
72.5°	301.6	303.7	311.2	307.9	311.2	303.7	301.6	294.0	288.9	285.6	278.6
75°	236.5	242.1	246.8	244.5	246.8	242.1	236.5	231.0	227.0	222.3	215.9
77.5°	174.9	180.5	182.7	180.7	182.7	180.5	174.9	171.3	169.3	159.9	159.3
80°	138.1	137.3	142.1	141.3	142.1	137.3	138.1	132.5	128.6	123.0	123.0
82.5°	101.3	100.5	102.7	103.2	102.7	100.5	101.3	98.3	93.0	90.7	88.8
85°	49.2	51.6	48.4	47.7	48.4	51.6	49.2	46.0	46.0	46.0	45.2
87.5°	15.7	15.8	15.1	14.6	15.1	15.8	15.7	15.7	18.1	16.1	15.9
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	21.0	20.5	19.8	19.2
92.5°	24.0	24.2	24.4	24.6	24.4	24.2	24.0	23.8	23.2	22.2	21.1
95°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	27.7	26.5	25.3
97.5°	30.1	30.3	30.5	30.6	30.5	30.3	30.1	30.0	29.2	27.9	26.6
100°	30.7	30.9	31.0	31.2	31.0	30.9	30.7	30.6	29.8	28.5	27.2
102.5°	30.9	31.2	31.5	31.8	31.5	31.2	30.9	30.6	32.5	36.7	40.7
105°	31.7	32.0	32.4	32.7	32.4	32.0	31.7	31.4	45.8	75.0	104.3
107.5°	168.7	146.7	124.7	102.7	124.7	146.7	168.7	190.9	212.6	234.0	255.4
110°	275.2	251.6	227.9	204.4	227.9	251.6	275.2	298.8	313.4	318.8	324.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.6	360.6	355.6	350.6	355.6	360.6	365.6	370.5	373.0	372.9	372.8
115°	434.9	435.7	436.3	437.0	436.3	435.7	434.9	434.3	433.1	431.5	429.9
117.5°	485.0	485.1	485.2	485.4	485.2	485.1	485.0	484.8	484.1	482.8	481.5
120°	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.1	516.7	515.4
122.5°	551.0	551.1	551.3	551.4	551.3	551.1	551.0	550.9	550.4	549.4	548.5
125°	596.5	596.8	597.1	597.4	597.1	596.8	596.5	596.1	595.8	595.5	595.1
127.5°	642.8	642.4	642.1	641.8	642.1	642.4	642.8	643.1	643.0	642.5	642.0
130°	671.3	671.0	670.7	670.2	670.7	671.0	671.3	671.7	671.5	670.8	670.1
132.5°	697.8	697.4	696.9	696.4	696.9	697.4	697.8	698.3	698.2	697.5	696.9
135°	737.9	737.4	736.9	736.4	736.9	737.4	737.9	738.4	738.4	737.9	737.4
137.5°	775.1	774.7	774.4	774.1	774.4	774.7	775.1	775.4	775.2	774.4	773.6
140°	797.6	797.3	797.0	796.6	797.0	797.3	797.6	798.0	797.8	797.1	796.5
142.5°	818.8	818.4	817.9	817.4	817.9	818.4	818.8	819.3	819.2	818.7	818.2
145°	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.2	848.9	848.6
147.5°	875.5	874.6	873.9	873.1	873.9	874.6	875.5	876.2	876.5	876.1	875.8
150°	892.5	892.0	891.5	891.0	891.5	892.0	892.5	893.0	893.0	892.7	892.4
152.5°	907.6	906.8	906.1	905.2	906.1	906.8	907.6	908.3	908.4	907.8	907.2
155°	928.2	927.2	926.1	925.1	926.1	927.2	928.2	929.2	929.3	928.4	927.6
157.5°	945.8	944.5	943.3	942.0	943.3	944.5	945.8	947.2	947.3	946.2	945.3
160°	956.1	955.0	953.8	952.7	953.8	955.0	956.1	957.4	957.4	956.4	955.4
162.5°	965.8	964.8	963.8	962.8	963.8	964.8	965.8	966.8	966.8	965.7	964.6
165°	978.5	977.2	976.1	974.9	976.1	977.2	978.5	979.6	979.5	978.2	976.8
167.5°	987.7	986.3	985.0	983.7	985.0	986.3	987.7	989.1	989.1	987.7	986.3
170°	993.1	991.7	990.4	989.1	990.4	991.7	993.1	994.4	994.4	993.1	991.7
172.5°	996.4	995.0	993.5	992.1	993.5	995.0	996.4	997.8	997.9	996.6	995.3
175°	1000.5	999.2	997.8	996.5	997.8	999.2	1000.5	1001.8	1001.9	1000.8	999.6
177.5°	1001.8	1000.5	999.2	997.8	999.2	1000.5	1001.8	1003.1	1003.3	1002.2	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1570.8	1570.8	1582.9	1590.5	1600.0	1606.4	1610.8	1615.3	1623.0	1633.1	1644.5
5°	1481.0	1484.2	1501.7	1519.1	1535.8	1550.0	1562.0	1576.2	1593.7	1615.1	1638.9
7.5°	1394.0	1406.2	1423.8	1445.1	1468.4	1489.2	1510.4	1533.9	1558.4	1590.0	1623.4
10°	1338.2	1351.6	1373.0	1400.1	1424.6	1449.3	1475.4	1500.9	1531.8	1569.1	1611.9
12.5°	1289.3	1302.1	1324.1	1353.7	1377.1	1404.2	1434.2	1467.2	1502.0	1546.9	1595.5
15°	1221.4	1236.6	1263.5	1277.8	1313.5	1346.0	1373.8	1421.5	1465.9	1512.0	1568.3
17.5°	1165.9	1174.3	1196.2	1222.7	1249.4	1285.9	1322.2	1361.9	1406.2	1462.6	1533.1
20°	1127.8	1135.0	1158.7	1186.6	1215.1	1248.5	1281.0	1320.7	1370.7	1430.2	1506.4
22.5°	1099.2	1107.0	1122.6	1152.3	1178.9	1206.6	1239.1	1286.4	1339.6	1397.9	1480.4
25°	1057.9	1062.7	1073.1	1096.8	1120.6	1151.7	1180.2	1224.7	1279.4	1347.7	1430.2
27.5°	1018.8	1023.4	1032.0	1049.0	1071.3	1096.4	1127.5	1165.3	1220.8	1294.9	1382.6
30°	995.2	996.0	1004.0	1019.9	1038.9	1059.6	1088.1	1130.9	1183.4	1258.8	1350.8
32.5°	974.9	971.9	977.3	989.4	1007.8	1028.4	1052.0	1094.2	1144.7	1218.8	1313.3
35°	940.5	938.9	936.5	946.8	962.7	978.6	999.3	1031.0	1088.1	1157.2	1256.4
37.5°	905.4	901.6	897.4	902.1	914.4	931.0	948.9	977.1	1026.4	1102.4	1197.3
40°	879.4	876.3	873.8	872.2	883.3	899.2	912.7	939.7	985.7	1057.9	1151.7
42.5°	850.8	848.9	845.9	843.6	852.9	864.9	879.1	902.9	948.9	1016.7	1105.3
45°	804.8	803.2	801.6	800.0	805.6	816.7	827.8	845.3	884.9	950.8	1031.0
47.5°	753.6	751.4	752.0	749.5	755.0	762.4	770.2	788.9	827.0	880.2	938.8
50°	716.7	715.9	715.9	715.9	717.5	726.2	733.4	747.6	782.5	835.8	877.8
52.5°	681.8	678.4	678.4	679.7	682.6	688.1	692.8	708.3	738.7	782.4	820.6
55°	627.0	620.7	619.0	620.7	623.0	627.8	632.6	645.3	671.5	704.0	726.2
57.5°	566.3	562.9	560.8	561.1	562.4	566.2	569.9	583.7	604.3	621.3	635.6
60°	523.8	525.4	518.3	519.9	519.9	523.0	528.6	537.3	554.8	566.6	581.0
62.5°	483.8	481.6	479.6	477.4	477.4	478.6	486.0	492.9	507.8	514.0	525.1
65°	421.4	421.4	416.7	418.3	419.1	413.5	417.5	425.5	434.9	437.3	447.7
67.5°	358.3	356.1	353.4	350.9	350.9	350.5	352.5	356.5	363.7	364.5	372.4
70°	315.1	313.5	312.8	310.3	307.2	311.1	308.7	312.8	316.7	317.5	322.2
72.5°	273.2	271.6	270.1	267.8	266.5	266.0	266.2	270.8	273.5	272.4	277.8
75°	213.5	211.9	210.4	206.3	206.3	204.0	204.8	207.9	211.2	208.7	213.5
77.5°	156.8	151.9	151.6	152.7	150.0	150.5	149.6	149.1	150.5	150.7	154.9
80°	120.7	115.1	116.6	115.8	115.1	114.3	112.7	113.5	114.3	115.1	117.4
82.5°	86.9	86.5	84.9	84.7	84.0	81.9	81.0	82.4	83.2	82.7	84.4
85°	44.4	42.1	43.6	42.8	43.6	42.8	40.5	40.5	42.1	41.3	42.8
87.5°	17.1	16.9	15.9	16.1	14.9	15.1	14.1	14.4	14.7	14.4	15.3
90°	18.5	17.9	15.7	13.5	11.4	9.3	7.4	5.7	4.0	2.4	0.7
92.5°	20.1	19.0	17.4	15.8	14.1	12.5	12.0	12.4	12.9	13.3	13.8
95°	24.2	23.0	21.2	19.4	17.6	15.8	18.3	25.0	31.8	38.6	45.3
97.5°	25.2	23.9	35.9	47.7	59.6	71.5	79.0	82.0	85.0	88.1	91.1
100°	25.9	24.5	50.3	76.0	101.8	127.5	138.8	135.5	132.2	128.9	125.6
102.5°	44.8	48.9	77.1	105.1	133.3	161.5	174.3	172.0	169.6	167.2	164.8
105°	133.5	162.8	177.6	192.5	207.3	222.2	228.7	226.9	225.1	223.3	221.5
107.5°	276.8	298.3	296.0	293.6	291.2	288.9	287.0	285.6	284.1	282.7	281.1
110°	329.7	335.2	333.4	331.5	329.7	327.9	326.3	325.0	323.7	322.3	321.0



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.7	372.6	370.8	369.0	367.2	365.4	363.9	362.6	361.4	360.2	359.1
115°	428.2	426.6	425.1	423.5	422.1	420.6	419.4	418.4	417.4	416.4	415.4
117.5°	480.2	478.9	478.1	477.4	476.6	475.8	474.8	473.6	472.4	471.2	470.0
120°	514.1	512.7	512.3	511.8	511.3	510.8	509.8	508.3	506.9	505.3	503.8
122.5°	547.5	546.6	546.0	545.4	544.7	544.1	543.2	542.0	540.8	539.6	538.4
125°	594.8	594.5	593.8	593.2	592.5	591.9	590.9	589.6	588.2	586.9	585.6
127.5°	641.4	640.9	640.1	639.2	638.5	637.7	636.6	635.3	634.0	632.7	631.4
130°	669.4	668.8	668.1	667.5	666.8	666.2	665.2	663.9	662.6	661.3	659.8
132.5°	696.2	695.6	695.0	694.5	694.0	693.5	692.6	691.2	689.8	688.5	687.2
135°	736.9	736.4	735.8	735.1	734.5	733.8	733.0	732.0	730.9	730.0	729.0
137.5°	772.7	771.9	771.6	771.2	770.8	770.5	769.7	768.4	767.2	765.9	764.7
140°	795.8	795.2	794.7	794.2	793.7	793.1	792.4	791.4	790.4	789.4	788.4
142.5°	817.7	817.2	816.7	816.2	815.7	815.2	814.5	813.4	812.4	811.4	810.4
145°	848.2	847.9	847.6	847.3	846.9	846.6	845.9	844.7	843.5	842.3	841.2
147.5°	875.5	875.0	874.7	874.4	874.1	873.7	873.2	872.4	871.7	870.9	870.2
150°	892.1	891.7	891.4	891.1	890.8	890.4	890.0	889.5	889.0	888.5	888.1
152.5°	906.6	906.1	905.8	905.6	905.4	905.2	905.0	904.7	904.5	904.3	904.0
155°	926.8	925.9	925.7	925.6	925.4	925.2	925.3	925.6	926.0	926.3	926.7
157.5°	944.3	943.3	943.5	943.6	943.8	944.0	944.1	944.1	944.1	944.2	944.2
160°	954.4	953.4	953.6	953.7	953.9	954.1	954.2	954.4	954.6	954.7	954.9
162.5°	963.5	962.3	962.5	962.7	962.8	963.0	963.3	963.7	964.1	964.6	965.0
165°	975.5	974.2	974.4	974.5	974.7	974.9	975.2	975.7	976.2	976.7	977.2
167.5°	985.0	983.7	983.7	983.7	983.7	983.7	984.1	984.7	985.4	986.0	986.7
170°	990.4	989.1	989.1	989.1	989.1	989.1	989.5	990.1	990.8	991.4	992.1
172.5°	994.0	992.7	992.5	992.4	992.3	992.1	992.5	993.3	994.0	994.8	995.6
175°	998.5	997.2	997.1	996.9	996.7	996.6	996.9	997.7	998.6	999.4	1000.3
177.5°	1000.1	999.1	999.0	998.8	998.7	998.6	998.8	999.5	1000.1	1000.8	1001.4
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1648.3	1651.4	1662.2	1669.9	1678.8	1683.8	1688.9	1692.7	1697.8	1699.1	1717.5
5°	1655.6	1671.5	1699.3	1719.9	1745.2	1773.0	1792.1	1800.9	1823.8	1842.9	1881.0
7.5°	1653.6	1687.4	1729.3	1772.7	1819.4	1862.6	1900.1	1944.5	1976.1	2023.6	2070.4
10°	1651.6	1696.9	1750.8	1806.4	1871.5	1931.8	1985.8	2046.1	2096.1	2161.9	2218.3
12.5°	1645.9	1700.7	1775.6	1841.3	1920.4	2003.6	2083.6	2161.0	2205.3	2315.0	2366.9
15°	1631.8	1696.9	1790.5	1890.6	1999.2	2097.7	2199.3	2280.3	2411.2	2507.2	2568.3
17.5°	1604.8	1696.0	1807.1	1927.6	2059.9	2189.6	2304.7	2427.5	2566.5	2682.6	2806.4
20°	1592.2	1692.1	1815.9	1949.2	2086.6	2233.4	2364.4	2511.9	2663.6	2777.8	2936.6
22.5°	1568.6	1681.9	1815.3	1963.9	2110.7	2262.6	2415.8	2564.7	2739.8	2897.2	3048.4
25°	1530.2	1657.2	1795.3	1961.2	2133.4	2285.8	2469.1	2666.8	2849.3	3051.7	3202.5
27.5°	1489.9	1625.5	1763.8	1918.1	2103.3	2284.2	2514.9	2738.1	2961.3	3136.1	3247.7
30°	1458.8	1590.5	1733.4	1889.0	2072.2	2287.3	2545.3	2788.9	3006.5	3156.4	3219.1
32.5°	1425.1	1558.7	1685.2	1848.4	2043.7	2285.4	2564.4	2818.8	3009.0	3108.9	3096.7
35°	1372.3	1484.2	1607.2	1764.3	1994.5	2271.5	2575.5	2821.5	2938.2	2916.8	2754.8
37.5°	1296.1	1390.2	1511.4	1683.3	1937.3	2242.1	2553.2	2737.8	2730.3	2555.8	2321.2
40°	1248.5	1328.6	1445.3	1626.3	1892.9	2223.1	2518.3	2638.2	2536.6	2292.9	2012.0
42.5°	1186.2	1260.0	1376.7	1562.8	1844.0	2184.3	2451.6	2486.4	2287.6	2007.2	1749.7
45°	1089.7	1154.8	1275.5	1467.5	1770.7	2100.0	2289.0	2204.0	1936.5	1646.9	1450.9
47.5°	986.0	1053.7	1169.7	1367.1	1664.7	1973.3	2063.3	1882.6	1608.0	1373.0	1193.1
50°	920.7	985.7	1099.2	1298.5	1592.9	1869.1	1906.4	1673.0	1420.7	1214.4	1066.7
52.5°	854.6	915.9	1027.5	1227.3	1509.1	1748.5	1725.5	1487.6	1255.6	1079.7	963.8
55°	756.4	814.4	920.7	1107.9	1364.3	1554.0	1470.7	1243.6	1051.6	915.1	827.0
57.5°	668.4	724.0	815.8	984.9	1207.8	1338.2	1232.1	1040.9	888.1	783.0	717.3
60°	608.7	657.9	745.3	902.4	1096.1	1195.3	1090.6	921.5	792.8	708.7	650.1
62.5°	552.2	595.1	676.0	818.6	986.8	1070.2	964.1	821.1	711.7	637.0	587.1
65°	466.7	505.5	577.0	688.1	826.2	881.8	790.5	674.6	589.7	534.1	500.8
67.5°	388.6	421.6	483.3	570.8	672.4	712.9	643.4	553.7	489.7	445.0	418.6
70°	336.5	365.1	413.5	488.9	581.0	611.9	546.8	473.0	426.2	390.5	365.9
72.5°	292.7	313.7	357.6	415.9	492.7	517.4	471.9	407.0	363.3	336.5	317.0
75°	223.0	240.4	269.0	315.9	369.1	383.3	349.2	308.7	279.3	260.3	245.2
77.5°	160.8	173.7	194.3	223.2	260.0	272.9	251.3	224.3	202.9	190.0	181.6
80°	121.4	131.8	149.3	173.0	195.2	202.4	189.7	169.1	154.0	146.8	139.7
82.5°	89.7	95.5	106.0	122.2	137.4	145.9	135.1	122.7	114.6	108.1	105.4
85°	45.2	48.4	53.2	59.5	69.1	72.2	68.3	65.0	60.3	56.4	56.4
87.5°	17.0	17.3	19.6	21.1	24.0	26.4	26.2	25.3	25.1	24.6	24.1
90°	2.4	4.0	5.7	7.4	9.3	11.4	13.5	15.7	17.9	18.5	19.2
92.5°	13.3	12.9	12.4	12.0	12.5	14.1	15.8	17.4	19.0	20.1	21.1
95°	38.6	31.8	25.0	18.3	15.8	17.6	19.4	21.2	23.0	24.2	25.3
97.5°	88.1	85.0	82.0	79.0	71.5	59.6	47.7	35.9	23.9	25.2	26.6
100°	128.9	132.2	135.5	138.8	127.5	101.8	76.0	50.3	24.5	25.9	27.2
102.5°	167.2	169.6	172.0	174.3	161.5	133.3	105.1	77.1	48.9	44.8	40.7
105°	223.3	225.1	226.9	228.7	222.2	207.3	192.5	177.6	162.8	133.5	104.3
107.5°	282.7	284.1	285.6	287.0	288.9	291.2	293.6	296.0	298.3	276.8	255.4
110°	322.3	323.7	325.0	326.3	327.9	329.7	331.5	333.4	335.2	329.7	324.3





TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	360.2	361.4	362.6	363.9	365.4	367.2	369.0	370.8	372.6	372.7	372.8
115°	416.4	417.4	418.4	419.4	420.6	422.1	423.5	425.1	426.6	428.2	429.9
117.5°	471.2	472.4	473.6	474.8	475.8	476.6	477.4	478.1	478.9	480.2	481.5
120°	505.3	506.9	508.3	509.8	510.8	511.3	511.8	512.3	512.7	514.1	515.4
122.5°	539.6	540.8	542.0	543.2	544.1	544.7	545.4	546.0	546.6	547.5	548.5
125°	586.9	588.2	589.6	590.9	591.9	592.5	593.2	593.8	594.5	594.8	595.1
127.5°	632.7	634.0	635.3	636.6	637.7	638.5	639.2	640.1	640.9	641.4	642.0
130°	661.3	662.6	663.9	665.2	666.2	666.8	667.5	668.1	668.8	669.4	670.1
132.5°	688.5	689.8	691.2	692.6	693.5	694.0	694.5	695.0	695.6	696.2	696.9
135°	730.0	730.9	732.0	733.0	733.8	734.5	735.1	735.8	736.4	736.9	737.4
137.5°	765.9	767.2	768.4	769.7	770.5	770.8	771.2	771.6	771.9	772.7	773.6
140°	789.4	790.4	791.4	792.4	793.1	793.7	794.2	794.7	795.2	795.8	796.5
142.5°	811.4	812.4	813.4	814.5	815.2	815.7	816.2	816.7	817.2	817.7	818.2
145°	842.3	843.5	844.7	845.9	846.6	846.9	847.3	847.6	847.9	848.2	848.6
147.5°	870.9	871.7	872.4	873.2	873.7	874.1	874.4	874.7	875.0	875.5	875.8
150°	888.5	889.0	889.5	890.0	890.4	890.8	891.1	891.4	891.7	892.1	892.4
152.5°	904.3	904.5	904.7	905.0	905.2	905.4	905.6	905.8	906.1	906.6	907.2
155°	926.3	926.0	925.6	925.3	925.2	925.4	925.6	925.7	925.9	926.8	927.6
157.5°	944.2	944.1	944.1	944.1	944.0	943.8	943.6	943.5	943.3	944.3	945.3
160°	954.7	954.6	954.4	954.2	954.1	953.9	953.7	953.6	953.4	954.4	955.4
162.5°	964.6	964.1	963.7	963.3	963.0	962.8	962.7	962.5	962.3	963.5	964.6
165°	976.7	976.2	975.7	975.2	974.9	974.7	974.5	974.4	974.2	975.5	976.8
167.5°	986.0	985.4	984.7	984.1	983.7	983.7	983.7	983.7	983.7	985.0	986.3
170°	991.4	990.8	990.1	989.5	989.1	989.1	989.1	989.1	989.1	990.4	991.7
172.5°	994.8	994.0	993.3	992.5	992.1	992.3	992.4	992.5	992.7	994.0	995.3
175°	999.4	998.6	997.7	996.9	996.6	996.7	996.9	997.1	997.2	998.5	999.6
177.5°	1000.8	1000.1	999.5	998.8	998.6	998.7	998.8	999.0	999.1	1000.1	1001.2
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1723.8	1724.4	1731.5	1736.6	1734.0	1737.2	1738.5
5°	1883.4	1912.0	1927.0	1938.1	1938.9	1939.7	1946.1
7.5°	2109.6	2140.2	2162.6	2196.6	2206.8	2218.3	2214.9
10°	2274.7	2319.9	2358.8	2379.4	2401.7	2434.2	2408.0
12.5°	2428.9	2509.1	2568.3	2600.4	2621.3	2627.9	2615.0
15°	2683.4	2788.1	2844.5	2843.0	2914.4	2945.4	2896.9
17.5°	2916.8	3013.4	3090.9	3130.6	3190.1	3203.3	3197.2
20°	3059.6	3165.2	3225.5	3293.8	3324.7	3352.4	3357.2
22.5°	3182.8	3277.5	3342.4	3399.1	3425.1	3438.2	3446.2
25°	3309.6	3384.3	3423.1	3442.9	3450.1	3448.5	3438.2
27.5°	3300.8	3306.6	3263.8	3221.7	3184.1	3141.7	3127.0
30°	3215.2	3148.5	3029.5	2962.0	2862.8	2784.2	2815.9
32.5°	2989.8	2857.1	2723.4	2576.0	2453.9	2419.1	2384.2
35°	2551.6	2318.3	2181.8	2023.1	1959.5	1896.1	1852.4
37.5°	2064.4	1883.9	1721.9	1618.1	1554.5	1514.3	1492.8
40°	1784.9	1622.2	1488.9	1404.8	1356.3	1311.1	1304.8
42.5°	1562.2	1410.9	1310.5	1243.5	1197.0	1177.8	1163.9
45°	1279.4	1173.9	1106.4	1058.7	1027.8	1015.9	1000.1
47.5°	1082.9	1008.2	957.7	925.2	901.9	893.0	891.8
50°	973.0	911.1	873.8	848.4	830.2	827.0	814.4
52.5°	890.5	836.9	807.8	785.6	772.4	763.6	759.7
55°	773.1	737.3	711.1	698.4	688.1	679.3	679.3
57.5°	676.4	646.5	629.2	618.4	615.2	609.0	605.1
60°	616.7	591.3	577.8	568.3	561.9	562.7	555.5
62.5°	558.3	541.8	528.9	519.4	511.8	511.9	512.4
65°	475.4	462.7	453.2	450.0	445.2	439.7	441.3
67.5°	402.8	390.9	383.5	378.1	376.5	373.5	378.1
70°	350.8	342.0	336.5	331.7	330.1	330.9	335.0
72.5°	303.2	297.0	293.4	291.1	287.6	287.8	290.4
75°	238.1	233.4	230.1	227.8	227.0	227.0	227.0
77.5°	174.9	173.8	172.4	168.8	169.1	170.0	170.2
80°	138.1	135.7	134.9	133.3	131.0	129.4	133.3
82.5°	103.2	100.8	100.0	99.7	96.0	95.7	99.1
85°	55.5	53.2	53.9	53.2	53.2	52.4	52.4
87.5°	23.6	23.1	22.6	23.3	22.7	22.2	23.5
90°	19.8	20.5	21.0	21.3	21.6	21.9	22.3
92.5°	22.2	23.2	23.8	24.0	24.2	24.4	24.6
95°	26.5	27.7	28.3	28.3	28.3	28.3	28.3
97.5°	27.9	29.2	30.0	30.1	30.3	30.5	30.6
100°	28.5	29.8	30.6	30.7	30.9	31.0	31.2
102.5°	36.7	32.5	30.6	30.9	31.2	31.5	31.8
105°	75.0	45.8	31.4	31.7	32.0	32.4	32.7
107.5°	234.0	212.6	190.9	168.7	146.7	124.7	102.7
110°	318.8	313.4	298.8	275.2	251.6	227.9	204.4



TEST NUMBER: P332216-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.9	373.0	370.5	365.6	360.6	355.6	350.6
115°	431.5	433.1	434.3	434.9	435.7	436.3	437.0
117.5°	482.8	484.1	484.8	485.0	485.1	485.2	485.4
120°	516.7	518.1	518.7	518.7	518.7	518.7	518.7
122.5°	549.4	550.4	550.9	551.0	551.1	551.3	551.4
125°	595.5	595.8	596.1	596.5	596.8	597.1	597.4
127.5°	642.5	643.0	643.1	642.8	642.4	642.1	641.8
130°	670.8	671.5	671.7	671.3	671.0	670.7	670.2
132.5°	697.5	698.2	698.3	697.8	697.4	696.9	696.4
135°	737.9	738.4	738.4	737.9	737.4	736.9	736.4
137.5°	774.4	775.2	775.4	775.1	774.7	774.4	774.1
140°	797.1	797.8	798.0	797.6	797.3	797.0	796.6
142.5°	818.7	819.2	819.3	818.8	818.4	817.9	817.4
145°	848.9	849.2	849.4	849.4	849.4	849.4	849.4
147.5°	876.1	876.5	876.2	875.5	874.6	873.9	873.1
150°	892.7	893.0	893.0	892.5	892.0	891.5	891.0
152.5°	907.8	908.4	908.3	907.6	906.8	906.1	905.2
155°	928.4	929.3	929.2	928.2	927.2	926.1	925.1
157.5°	946.2	947.3	947.2	945.8	944.5	943.3	942.0
160°	956.4	957.4	957.4	956.1	955.0	953.8	952.7
162.5°	965.7	966.8	966.8	965.8	964.8	963.8	962.8
165°	978.2	979.5	979.6	978.5	977.2	976.1	974.9
167.5°	987.7	989.1	989.1	987.7	986.3	985.0	983.7
170°	993.1	994.4	994.4	993.1	991.7	990.4	989.1
172.5°	996.6	997.9	997.8	996.4	995.0	993.5	992.1
175°	1000.8	1001.9	1001.8	1000.5	999.2	997.8	996.5
177.5°	1002.2	1003.3	1003.1	1001.8	1000.5	999.2	997.8
180°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3

(END OF REPORT)