

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: P332217-840

Luminaire Tested: **S123DIW-S1165D755U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332217-840
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: S123DIW-S1165D755U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7590.8 lumens
Efficiency: N/A
Efficacy: 126.9 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

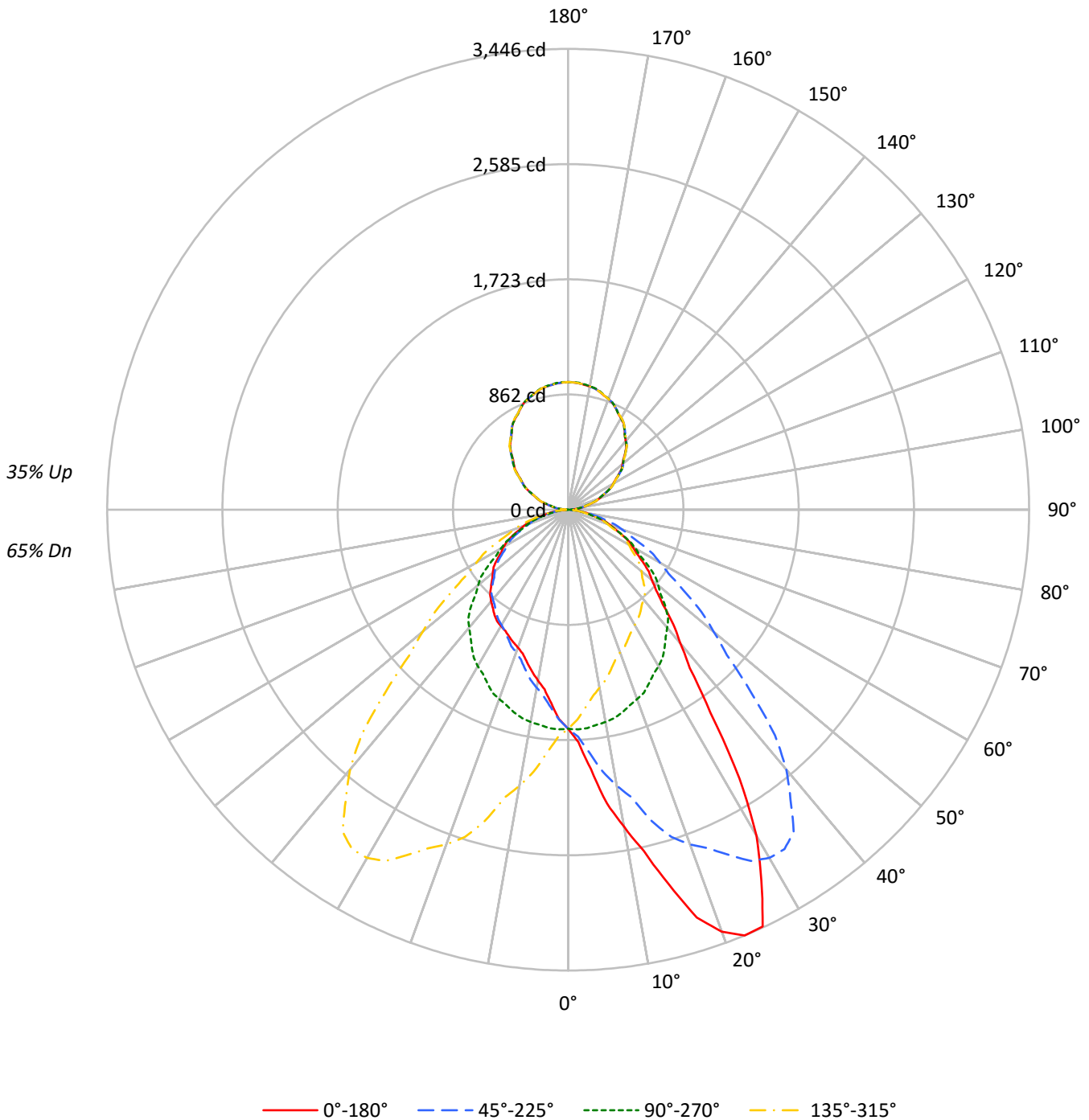
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65				
1	102	97	93	90	95	92	88	85	81	79	76	71	70	68	63	61	60	56				
2	93	85	79	74	87	81	75	71	71	67	64	63	60	57	55	53	51	47				
3	85	75	68	62	80	71	65	59	63	58	54	56	52	49	49	46	44	40				
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35				
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33	30				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27				
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	23	21				
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	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	2.1
10°-20°	517.4	6.8
20°-30°	868.4	11.4
30°-40°	983.3	13.0
40°-50°	881.8	11.6
50°-60°	711.6	9.4
60°-70°	495.9	6.5
70°-80°	260.6	3.4
80°-90°	66.6	0.9
90°-100°	62.2	0.8
100°-110°	186.1	2.5
110°-120°	316.4	4.2
120°-130°	416.2	5.5
130°-140°	467.8	6.2
140°-150°	459.9	6.1
150°-160°	387.1	5.1
160°-170°	257.7	3.4
170°-180°	90.2	1.2
0°-30°	1547.2	20.4
0°-40°	2530.6	33.3
0°-60°	4124.0	54.3
0°-90°	4947.1	65.2
90°-120°	564.7	7.4
90°-150°	1908.6	25.1
90°-180°	2644.0	34.8
0°-180°	7590.8	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	14
95°	58	44	58	44	58	60
105°	178	169	178	169	178	189
115°	319	319	319	319	319	316
125°	461	466	461	466	461	412
135°	604	605	604	605	604	464
145°	734	734	734	734	734	458
155°	839	840	839	840	839	386
165°	912	915	912	915	912	257
175°	948	952	948	952	948	90
180°	954	954	954	954	954	



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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	22.8	23.3	22.6	23.2	23.6	24.1	24.6	25.1	25.3
90°	22.5	22.1	21.8	21.5	21.1	20.7	20.0	19.3	18.7	18.0	15.9
92.5°	30.3	30.5	30.7	30.9	31.1	30.9	30.4	29.9	29.3	28.8	27.6
95°	58.5	58.5	58.5	58.5	58.5	58.2	57.5	56.8	56.1	55.4	54.1
97.5°	90.0	90.0	90.1	90.2	90.2	89.9	89.1	88.4	87.6	86.8	85.8
100°	113.9	113.6	113.3	112.9	112.6	112.2	111.7	111.2	110.7	110.2	109.4
102.5°	138.6	138.6	138.7	138.8	138.8	138.6	138.0	137.5	137.0	136.5	135.4
105°	178.4	178.0	177.7	177.4	177.0	176.9	176.9	176.9	176.9	176.9	175.4
107.5°	219.9	220.2	220.4	220.6	220.8	220.6	220.0	219.4	218.9	218.4	217.8
110°	248.1	248.4	248.7	249.1	249.4	249.2	248.6	247.9	247.3	246.6	246.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	278.1	278.1	278.2	278.3	278.3	278.0	277.2	276.4	275.6	274.8	274.7
115°	319.3	319.5	319.6	319.8	320.0	320.0	319.8	319.6	319.5	319.3	319.6
117.5°	361.1	361.6	362.0	362.5	363.0	363.2	363.2	363.3	363.3	363.3	363.9
120°	390.5	390.8	391.2	391.5	391.8	392.1	392.2	392.4	392.6	392.7	393.6
122.5°	418.7	419.2	419.6	420.1	420.6	421.0	421.4	421.9	422.3	422.7	423.2
125°	461.0	461.6	462.3	463.0	463.6	464.3	464.9	465.6	466.4	467.0	467.3
127.5°	503.1	503.9	504.6	505.4	506.1	507.1	508.0	508.9	509.8	510.8	511.1
130°	530.7	531.9	533.0	534.2	535.3	536.2	536.9	537.7	538.3	539.0	539.5
132.5°	559.5	560.4	561.3	562.2	563.1	563.9	564.7	565.5	566.3	567.1	567.4
135°	604.1	604.5	604.8	605.1	605.5	606.0	606.6	607.3	607.9	608.6	608.8
137.5°	643.6	644.2	644.8	645.5	646.1	646.8	647.4	648.1	648.8	649.5	649.1
140°	669.3	670.6	671.7	672.9	674.0	674.7	674.9	675.0	675.2	675.4	675.2
142.5°	695.7	696.6	697.5	698.4	699.3	699.8	700.0	700.2	700.3	700.5	700.2
145°	733.9	734.5	735.2	735.8	736.5	736.9	737.1	737.2	737.4	737.6	737.1
147.5°	767.7	768.7	769.7	770.7	771.7	772.2	772.2	772.2	772.2	772.2	771.7
150°	789.3	790.3	791.3	792.2	793.2	793.8	793.8	793.8	793.8	793.8	793.5
152.5°	810.3	811.1	812.0	812.8	813.7	814.1	813.7	813.5	813.2	812.9	812.7
155°	838.8	839.9	841.1	842.2	843.4	843.6	843.0	842.3	841.7	841.0	840.8
157.5°	864.6	865.7	866.6	867.5	868.4	868.6	867.9	867.2	866.5	865.8	865.7
160°	881.5	882.1	882.8	883.5	884.1	884.0	883.2	882.4	881.6	880.7	880.7
162.5°	894.0	895.1	896.3	897.3	898.4	898.5	897.7	896.8	896.0	895.1	895.0
165°	912.2	913.4	914.5	915.7	916.9	917.0	915.9	914.9	913.9	912.9	912.9
167.5°	927.7	928.7	929.7	930.8	931.8	931.8	930.8	929.7	928.7	927.7	927.6
170°	935.4	936.6	937.8	939.0	940.1	940.1	939.0	937.8	936.6	935.4	935.4
172.5°	941.5	942.6	943.8	944.9	946.1	946.1	945.1	944.1	943.1	942.0	942.0
175°	948.2	949.4	950.5	951.7	952.9	952.9	951.9	951.0	950.0	949.0	949.0
177.5°	951.8	952.7	953.6	954.6	955.5	955.6	954.8	954.0	953.2	952.4	952.4
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



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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°	26.3	26.5	24.1	21.2	19.6	17.4	17.0	15.3	14.4	14.7	14.4
90°	13.6	11.5	9.3	7.4	5.8	4.0	2.4	0.7	2.4	4.0	5.8
92.5°	26.4	25.0	23.8	22.6	21.5	20.4	19.3	18.2	19.3	20.4	21.5
95°	52.8	51.5	50.1	48.9	47.8	46.6	45.3	44.2	45.3	46.6	47.8
97.5°	84.8	83.9	82.9	82.0	81.2	80.3	79.4	78.6	79.4	80.3	81.2
100°	108.6	107.7	106.8	105.9	104.9	103.9	102.9	101.9	102.9	103.9	104.9
102.5°	134.4	133.3	132.2	131.3	130.7	130.2	129.6	129.0	129.6	130.2	130.7
105°	173.9	172.4	170.9	170.0	169.7	169.4	169.0	168.6	169.0	169.4	169.7
107.5°	217.2	216.6	216.0	215.6	215.4	215.2	215.0	214.8	215.0	215.2	215.4
110°	245.9	245.6	245.3	244.9	244.6	244.3	244.0	243.6	244.0	244.3	244.6



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CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	274.7	274.6	274.5	274.4	274.2	274.0	273.8	273.6	273.8	274.0	274.2
115°	320.0	320.3	320.6	320.5	320.0	319.5	319.0	318.6	319.0	319.5	320.0
117.5°	364.3	364.7	365.2	365.2	364.9	364.5	364.2	363.9	364.2	364.5	364.9
120°	394.5	395.3	396.1	396.1	395.1	394.0	393.0	392.0	393.0	394.0	395.1
122.5°	423.6	424.0	424.4	424.3	423.6	422.8	422.1	421.4	422.1	422.8	423.6
125°	467.7	468.0	468.3	468.3	467.8	467.3	466.8	466.3	466.8	467.3	467.8
127.5°	511.5	511.9	512.2	511.9	510.8	509.8	508.7	507.6	508.7	509.8	510.8
130°	540.0	540.5	541.0	540.5	539.2	537.9	536.5	535.2	536.5	537.9	539.2
132.5°	567.8	568.3	568.6	568.2	566.7	565.4	564.1	562.8	564.1	565.4	566.7
135°	608.9	609.2	609.4	608.8	607.9	606.9	605.9	604.9	605.9	606.9	607.9
137.5°	648.7	648.2	647.8	647.2	646.4	645.5	644.7	643.9	644.7	645.5	646.4
140°	675.0	674.9	674.7	674.2	673.4	672.6	671.7	670.9	671.7	672.6	673.4
142.5°	699.9	699.6	699.3	698.7	697.9	697.1	696.3	695.5	696.3	697.1	697.9
145°	736.6	736.1	735.6	735.2	734.8	734.5	734.2	733.9	734.2	734.5	734.8
147.5°	771.2	770.8	770.3	769.8	769.2	768.6	768.0	767.4	768.0	768.6	769.2
150°	793.1	792.7	792.4	792.1	791.8	791.4	791.1	790.8	791.1	791.4	791.8
152.5°	812.5	812.3	812.1	811.8	811.4	810.9	810.4	810.0	810.4	810.9	811.4
155°	840.7	840.5	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3
157.5°	865.5	865.4	865.3	865.3	865.5	865.7	865.9	866.1	865.9	865.7	865.5
160°	880.7	880.7	880.7	880.9	881.2	881.6	881.9	882.2	881.9	881.6	881.2
162.5°	894.8	894.7	894.6	894.7	895.2	895.6	896.2	896.7	896.2	895.6	895.2
165°	912.9	912.9	912.9	913.2	913.7	914.2	914.7	915.2	914.7	914.2	913.7
167.5°	927.4	927.3	927.2	927.4	928.1	928.8	929.4	930.1	929.4	928.8	928.1
170°	935.4	935.4	935.4	935.7	936.4	937.2	937.8	938.5	937.8	937.2	936.4
172.5°	942.0	942.0	942.0	942.4	943.0	943.7	944.4	945.0	944.4	943.7	943.0
175°	949.0	949.0	949.0	949.3	950.0	950.6	951.3	951.9	951.3	950.6	950.0
177.5°	952.4	952.4	952.4	952.7	953.2	953.7	954.2	954.8	954.2	953.7	953.2
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



TEST NUMBER: P332217-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A1

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	15.2	15.0	16.1	15.9	17.0	17.1	16.0	16.1	18.1	15.7
90°	7.4	9.3	11.5	13.6	15.9	18.0	18.7	19.3	20.0	20.7	21.1
92.5°	22.6	23.8	25.0	26.4	27.6	28.8	29.3	29.9	30.4	30.9	31.1
95°	48.9	50.1	51.5	52.8	54.1	55.4	56.1	56.8	57.5	58.2	58.5
97.5°	82.0	82.9	83.9	84.8	85.8	86.8	87.6	88.4	89.1	89.9	90.2
100°	105.9	106.8	107.7	108.6	109.4	110.2	110.7	111.2	111.7	112.2	112.6
102.5°	131.3	132.2	133.3	134.4	135.4	136.5	137.0	137.5	138.0	138.6	138.8
105°	170.0	170.9	172.4	173.9	175.4	176.9	176.9	176.9	176.9	176.9	177.0
107.5°	215.6	216.0	216.6	217.2	217.8	218.4	218.9	219.4	220.0	220.6	220.8
110°	244.9	245.3	245.6	245.9	246.3	246.6	247.3	247.9	248.6	249.2	249.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	274.4	274.5	274.6	274.7	274.7	274.8	275.6	276.4	277.2	278.0	278.3
115°	320.5	320.6	320.3	320.0	319.6	319.3	319.5	319.6	319.8	320.0	320.0
117.5°	365.2	365.2	364.7	364.3	363.9	363.3	363.3	363.3	363.2	363.2	363.0
120°	396.1	396.1	395.3	394.5	393.6	392.7	392.6	392.4	392.2	392.1	391.8
122.5°	424.3	424.4	424.0	423.6	423.2	422.7	422.3	421.9	421.4	421.0	420.6
125°	468.3	468.3	468.0	467.7	467.3	467.0	466.4	465.6	464.9	464.3	463.6
127.5°	511.9	512.2	511.9	511.5	511.1	510.8	509.8	508.9	508.0	507.1	506.1
130°	540.5	541.0	540.5	540.0	539.5	539.0	538.3	537.7	536.9	536.2	535.3
132.5°	568.2	568.6	568.3	567.8	567.4	567.1	566.3	565.5	564.7	563.9	563.1
135°	608.8	609.4	609.2	608.9	608.8	608.6	607.9	607.3	606.6	606.0	605.5
137.5°	647.2	647.8	648.2	648.7	649.1	649.5	648.8	648.1	647.4	646.8	646.1
140°	674.2	674.7	674.9	675.0	675.2	675.4	675.2	675.0	674.9	674.7	674.0
142.5°	698.7	699.3	699.6	699.9	700.2	700.5	700.3	700.2	700.0	699.8	699.3
145°	735.2	735.6	736.1	736.6	737.1	737.6	737.4	737.2	737.1	736.9	736.5
147.5°	769.8	770.3	770.8	771.2	771.7	772.2	772.2	772.2	772.2	772.2	771.7
150°	792.1	792.4	792.7	793.1	793.5	793.8	793.8	793.8	793.8	793.8	793.2
152.5°	811.8	812.1	812.3	812.5	812.7	812.9	813.2	813.5	813.7	814.1	813.7
155°	840.3	840.3	840.5	840.7	840.8	841.0	841.7	842.3	843.0	843.6	843.4
157.5°	865.3	865.3	865.4	865.5	865.7	865.8	866.5	867.2	867.9	868.6	868.4
160°	880.9	880.7	880.7	880.7	880.7	880.7	881.6	882.4	883.2	884.0	884.1
162.5°	894.7	894.6	894.7	894.8	895.0	895.1	896.0	896.8	897.7	898.5	898.4
165°	913.2	912.9	912.9	912.9	912.9	912.9	913.9	914.9	915.9	917.0	916.9
167.5°	927.4	927.2	927.3	927.4	927.6	927.7	928.7	929.7	930.8	931.8	931.8
170°	935.7	935.4	935.4	935.4	935.4	935.4	936.6	937.8	939.0	940.1	940.1
172.5°	942.4	942.0	942.0	942.0	942.0	942.0	943.1	944.1	945.1	946.1	946.1
175°	949.3	949.0	949.0	949.0	949.0	949.0	950.0	951.0	951.9	952.9	952.9
177.5°	952.7	952.4	952.4	952.4	952.4	952.4	953.2	954.0	954.8	955.6	955.5
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



TEST NUMBER: P332217-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A1

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°	15.8	15.8	15.2	14.6	15.2	15.8	15.8	15.7	18.1	16.1	16.0
90°	21.5	21.8	22.1	22.5	22.1	21.8	21.5	21.1	20.7	20.0	19.3
92.5°	30.9	30.7	30.5	30.3	30.5	30.7	30.9	31.1	30.9	30.4	29.9
95°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.2	57.5	56.8
97.5°	90.2	90.1	90.0	90.0	90.0	90.1	90.2	90.2	89.9	89.1	88.4
100°	112.9	113.3	113.6	113.9	113.6	113.3	112.9	112.6	112.2	111.7	111.2
102.5°	138.8	138.7	138.6	138.6	138.6	138.7	138.8	138.8	138.6	138.0	137.5
105°	177.4	177.7	178.0	178.4	178.0	177.7	177.4	177.0	176.9	176.9	176.9
107.5°	220.6	220.4	220.2	219.9	220.2	220.4	220.6	220.8	220.6	220.0	219.4
110°	249.1	248.7	248.4	248.1	248.4	248.7	249.1	249.4	249.2	248.6	247.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	278.3	278.2	278.1	278.1	278.1	278.2	278.3	278.3	278.0	277.2	276.4
115°	319.8	319.6	319.5	319.3	319.5	319.6	319.8	320.0	320.0	319.8	319.6
117.5°	362.5	362.0	361.6	361.1	361.6	362.0	362.5	363.0	363.2	363.2	363.3
120°	391.5	391.2	390.8	390.5	390.8	391.2	391.5	391.8	392.1	392.2	392.4
122.5°	420.1	419.6	419.2	418.7	419.2	419.6	420.1	420.6	421.0	421.4	421.9
125°	463.0	462.3	461.6	461.0	461.6	462.3	463.0	463.6	464.3	464.9	465.6
127.5°	505.4	504.6	503.9	503.1	503.9	504.6	505.4	506.1	507.1	508.0	508.9
130°	534.2	533.0	531.9	530.7	531.9	533.0	534.2	535.3	536.2	536.9	537.7
132.5°	562.2	561.3	560.4	559.5	560.4	561.3	562.2	563.1	563.9	564.7	565.5
135°	605.1	604.8	604.5	604.1	604.5	604.8	605.1	605.5	606.0	606.6	607.3
137.5°	645.5	644.8	644.2	643.6	644.2	644.8	645.5	646.1	646.8	647.4	648.1
140°	672.9	671.7	670.6	669.3	670.6	671.7	672.9	674.0	674.7	674.9	675.0
142.5°	698.4	697.5	696.6	695.7	696.6	697.5	698.4	699.3	699.8	700.0	700.2
145°	735.8	735.2	734.5	733.9	734.5	735.2	735.8	736.5	736.9	737.1	737.2
147.5°	770.7	769.7	768.7	767.7	768.7	769.7	770.7	771.7	772.2	772.2	772.2
150°	792.2	791.3	790.3	789.3	790.3	791.3	792.2	793.2	793.8	793.8	793.8
152.5°	812.8	812.0	811.1	810.3	811.1	812.0	812.8	813.7	814.1	813.7	813.5
155°	842.2	841.1	839.9	838.8	839.9	841.1	842.2	843.4	843.6	843.0	842.3
157.5°	867.5	866.6	865.7	864.6	865.7	866.6	867.5	868.4	868.6	867.9	867.2
160°	883.5	882.8	882.1	881.5	882.1	882.8	883.5	884.1	884.0	883.2	882.4
162.5°	897.3	896.3	895.1	894.0	895.1	896.3	897.3	898.4	898.5	897.7	896.8
165°	915.7	914.5	913.4	912.2	913.4	914.5	915.7	916.9	917.0	915.9	914.9
167.5°	930.8	929.7	928.7	927.7	928.7	929.7	930.8	931.8	931.8	930.8	929.7
170°	939.0	937.8	936.6	935.4	936.6	937.8	939.0	940.1	940.1	939.0	937.8
172.5°	944.9	943.8	942.6	941.5	942.6	943.8	944.9	946.1	946.1	945.1	944.1
175°	951.7	950.5	949.4	948.2	949.4	950.5	951.7	952.9	952.9	951.9	951.0
177.5°	954.6	953.6	952.7	951.8	952.7	953.6	954.6	955.5	955.6	954.8	954.0
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



TEST NUMBER: P332217-840

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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	17.0	15.9	16.1	15.0	15.2	14.1	14.4	14.7	14.4	15.3
90°	18.7	18.0	15.9	13.6	11.5	9.3	7.4	5.8	4.0	2.4	0.7
92.5°	29.3	28.8	27.6	26.4	25.0	23.8	22.6	21.5	20.4	19.3	18.2
95°	56.1	55.4	54.1	52.8	51.5	50.1	48.9	47.8	46.6	45.3	44.2
97.5°	87.6	86.8	85.8	84.8	83.9	82.9	82.0	81.2	80.3	79.4	78.6
100°	110.7	110.2	109.4	108.6	107.7	106.8	105.9	104.9	103.9	102.9	101.9
102.5°	137.0	136.5	135.4	134.4	133.3	132.2	131.3	130.7	130.2	129.6	129.0
105°	176.9	176.9	175.4	173.9	172.4	170.9	170.0	169.7	169.4	169.0	168.6
107.5°	218.9	218.4	217.8	217.2	216.6	216.0	215.6	215.4	215.2	215.0	214.8
110°	247.3	246.6	246.3	245.9	245.6	245.3	244.9	244.6	244.3	244.0	243.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	275.6	274.8	274.7	274.7	274.6	274.5	274.4	274.2	274.0	273.8	273.6
115°	319.5	319.3	319.6	320.0	320.3	320.6	320.5	320.0	319.5	319.0	318.6
117.5°	363.3	363.3	363.9	364.3	364.7	365.2	365.2	364.9	364.5	364.2	363.9
120°	392.6	392.7	393.6	394.5	395.3	396.1	396.1	395.1	394.0	393.0	392.0
122.5°	422.3	422.7	423.2	423.6	424.0	424.4	424.3	423.6	422.8	422.1	421.4
125°	466.4	467.0	467.3	467.7	468.0	468.3	468.3	467.8	467.3	466.8	466.3
127.5°	509.8	510.8	511.1	511.5	511.9	512.2	511.9	510.8	509.8	508.7	507.6
130°	538.3	539.0	539.5	540.0	540.5	541.0	540.5	539.2	537.9	536.5	535.2
132.5°	566.3	567.1	567.4	567.8	568.3	568.6	568.2	566.7	565.4	564.1	562.8
135°	607.9	608.6	608.8	608.9	609.2	609.4	608.8	607.9	606.9	605.9	604.9
137.5°	648.8	649.5	649.1	648.7	648.2	647.8	647.2	646.4	645.5	644.7	643.9
140°	675.2	675.4	675.2	675.0	674.9	674.7	674.2	673.4	672.6	671.7	670.9
142.5°	700.3	700.5	700.2	699.9	699.6	699.3	698.7	697.9	697.1	696.3	695.5
145°	737.4	737.6	737.1	736.6	736.1	735.6	735.2	734.8	734.5	734.2	733.9
147.5°	772.2	772.2	771.7	771.2	770.8	770.3	769.8	769.2	768.6	768.0	767.4
150°	793.8	793.8	793.5	793.1	792.7	792.4	792.1	791.8	791.4	791.1	790.8
152.5°	813.2	812.9	812.7	812.5	812.3	812.1	811.8	811.4	810.9	810.4	810.0
155°	841.7	841.0	840.8	840.7	840.5	840.3	840.3	840.3	840.3	840.3	840.3
157.5°	866.5	865.8	865.7	865.5	865.4	865.3	865.3	865.5	865.7	865.9	866.1
160°	881.6	880.7	880.7	880.7	880.7	880.7	880.9	881.2	881.6	881.9	882.2
162.5°	896.0	895.1	895.0	894.8	894.7	894.6	894.7	895.2	895.6	896.2	896.7
165°	913.9	912.9	912.9	912.9	912.9	912.9	913.2	913.7	914.2	914.7	915.2
167.5°	928.7	927.7	927.6	927.4	927.3	927.2	927.4	928.1	928.8	929.4	930.1
170°	936.6	935.4	935.4	935.4	935.4	935.4	935.7	936.4	937.2	937.8	938.5
172.5°	943.1	942.0	942.0	942.0	942.0	942.0	942.4	943.0	943.7	944.4	945.0
175°	950.0	949.0	949.0	949.0	949.0	949.0	949.3	950.0	950.6	951.3	951.9
177.5°	953.2	952.4	952.4	952.4	952.4	952.4	952.7	953.2	953.7	954.2	954.8
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



TEST NUMBER: P332217-840

CATALOG NUMBER: S123DIW-S1165D755U840-4F0-1E-UDD-A1

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	17.4	19.6	21.2	24.1	26.5	26.3	25.3	25.1	24.6	24.1
90°	2.4	4.0	5.8	7.4	9.3	11.5	13.6	15.9	18.0	18.7	19.3
92.5°	19.3	20.4	21.5	22.6	23.8	25.0	26.4	27.6	28.8	29.3	29.9
95°	45.3	46.6	47.8	48.9	50.1	51.5	52.8	54.1	55.4	56.1	56.8
97.5°	79.4	80.3	81.2	82.0	82.9	83.9	84.8	85.8	86.8	87.6	88.4
100°	102.9	103.9	104.9	105.9	106.8	107.7	108.6	109.4	110.2	110.7	111.2
102.5°	129.6	130.2	130.7	131.3	132.2	133.3	134.4	135.4	136.5	137.0	137.5
105°	169.0	169.4	169.7	170.0	170.9	172.4	173.9	175.4	176.9	176.9	176.9
107.5°	215.0	215.2	215.4	215.6	216.0	216.6	217.2	217.8	218.4	218.9	219.4
110°	244.0	244.3	244.6	244.9	245.3	245.6	245.9	246.3	246.6	247.3	247.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	273.8	274.0	274.2	274.4	274.5	274.6	274.7	274.7	274.8	275.6	276.4
115°	319.0	319.5	320.0	320.5	320.6	320.3	320.0	319.6	319.3	319.5	319.6
117.5°	364.2	364.5	364.9	365.2	365.2	364.7	364.3	363.9	363.3	363.3	363.3
120°	393.0	394.0	395.1	396.1	396.1	395.3	394.5	393.6	392.7	392.6	392.4
122.5°	422.1	422.8	423.6	424.3	424.4	424.0	423.6	423.2	422.7	422.3	421.9
125°	466.8	467.3	467.8	468.3	468.3	468.0	467.7	467.3	467.0	466.4	465.6
127.5°	508.7	509.8	510.8	511.9	512.2	511.9	511.5	511.1	510.8	509.8	508.9
130°	536.5	537.9	539.2	540.5	541.0	540.5	540.0	539.5	539.0	538.3	537.7
132.5°	564.1	565.4	566.7	568.2	568.6	568.3	567.8	567.4	567.1	566.3	565.5
135°	605.9	606.9	607.9	608.8	609.4	609.2	608.9	608.8	608.6	607.9	607.3
137.5°	644.7	645.5	646.4	647.2	647.8	648.2	648.7	649.1	649.5	648.8	648.1
140°	671.7	672.6	673.4	674.2	674.7	674.9	675.0	675.2	675.4	675.2	675.0
142.5°	696.3	697.1	697.9	698.7	699.3	699.6	699.9	700.2	700.5	700.3	700.2
145°	734.2	734.5	734.8	735.2	735.6	736.1	736.6	737.1	737.6	737.4	737.2
147.5°	768.0	768.6	769.2	769.8	770.3	770.8	771.2	771.7	772.2	772.2	772.2
150°	791.1	791.4	791.8	792.1	792.4	792.7	793.1	793.5	793.8	793.8	793.8
152.5°	810.4	810.9	811.4	811.8	812.1	812.3	812.5	812.7	812.9	813.2	813.5
155°	840.3	840.3	840.3	840.3	840.3	840.5	840.7	840.8	841.0	841.7	842.3
157.5°	865.9	865.7	865.5	865.3	865.3	865.4	865.5	865.7	865.8	866.5	867.2
160°	881.9	881.6	881.2	880.9	880.7	880.7	880.7	880.7	880.7	881.6	882.4
162.5°	896.2	895.6	895.2	894.7	894.6	894.7	894.8	895.0	895.1	896.0	896.8
165°	914.7	914.2	913.7	913.2	912.9	912.9	912.9	912.9	912.9	913.9	914.9
167.5°	929.4	928.8	928.1	927.4	927.2	927.3	927.4	927.6	927.7	928.7	929.7
170°	937.8	937.2	936.4	935.7	935.4	935.4	935.4	935.4	935.4	936.6	937.8
172.5°	944.4	943.7	943.0	942.4	942.0	942.0	942.0	942.0	942.0	943.1	944.1
175°	951.3	950.6	950.0	949.3	949.0	949.0	949.0	949.0	949.0	950.0	951.0
177.5°	954.2	953.7	953.2	952.7	952.4	952.4	952.4	952.4	952.4	953.2	954.0
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2	954.2



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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	23.2	22.6	23.3	22.8	22.2	23.5
90°	20.0	20.7	21.1	21.5	21.8	22.1	22.5
92.5°	30.4	30.9	31.1	30.9	30.7	30.5	30.3
95°	57.5	58.2	58.5	58.5	58.5	58.5	58.5
97.5°	89.1	89.9	90.2	90.2	90.1	90.0	90.0
100°	111.7	112.2	112.6	112.9	113.3	113.6	113.9
102.5°	138.0	138.6	138.8	138.8	138.7	138.6	138.6
105°	176.9	176.9	177.0	177.4	177.7	178.0	178.4
107.5°	220.0	220.6	220.8	220.6	220.4	220.2	219.9
110°	248.6	249.2	249.4	249.1	248.7	248.4	248.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	277.2	278.0	278.3	278.3	278.2	278.1	278.1
115°	319.8	320.0	320.0	319.8	319.6	319.5	319.3
117.5°	363.2	363.2	363.0	362.5	362.0	361.6	361.1
120°	392.2	392.1	391.8	391.5	391.2	390.8	390.5
122.5°	421.4	421.0	420.6	420.1	419.6	419.2	418.7
125°	464.9	464.3	463.6	463.0	462.3	461.6	461.0
127.5°	508.0	507.1	506.1	505.4	504.6	503.9	503.1
130°	536.9	536.2	535.3	534.2	533.0	531.9	530.7
132.5°	564.7	563.9	563.1	562.2	561.3	560.4	559.5
135°	606.6	606.0	605.5	605.1	604.8	604.5	604.1
137.5°	647.4	646.8	646.1	645.5	644.8	644.2	643.6
140°	674.9	674.7	674.0	672.9	671.7	670.6	669.3
142.5°	700.0	699.8	699.3	698.4	697.5	696.6	695.7
145°	737.1	736.9	736.5	735.8	735.2	734.5	733.9
147.5°	772.2	772.2	771.7	770.7	769.7	768.7	767.7
150°	793.8	793.8	793.2	792.2	791.3	790.3	789.3
152.5°	813.7	814.1	813.7	812.8	812.0	811.1	810.3
155°	843.0	843.6	843.4	842.2	841.1	839.9	838.8
157.5°	867.9	868.6	868.4	867.5	866.6	865.7	864.6
160°	883.2	884.0	884.1	883.5	882.8	882.1	881.5
162.5°	897.7	898.5	898.4	897.3	896.3	895.1	894.0
165°	915.9	917.0	916.9	915.7	914.5	913.4	912.2
167.5°	930.8	931.8	931.8	930.8	929.7	928.7	927.7
170°	939.0	940.1	940.1	939.0	937.8	936.6	935.4
172.5°	945.1	946.1	946.1	944.9	943.8	942.6	941.5
175°	951.9	952.9	952.9	951.7	950.5	949.4	948.2
177.5°	954.8	955.6	955.5	954.6	953.6	952.7	951.8
180°	954.2	954.2	954.2	954.2	954.2	954.2	954.2

(END OF REPORT)