

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: P332074-830

Luminaire Tested: **S123DIP-S1165D1025U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332074-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1025U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

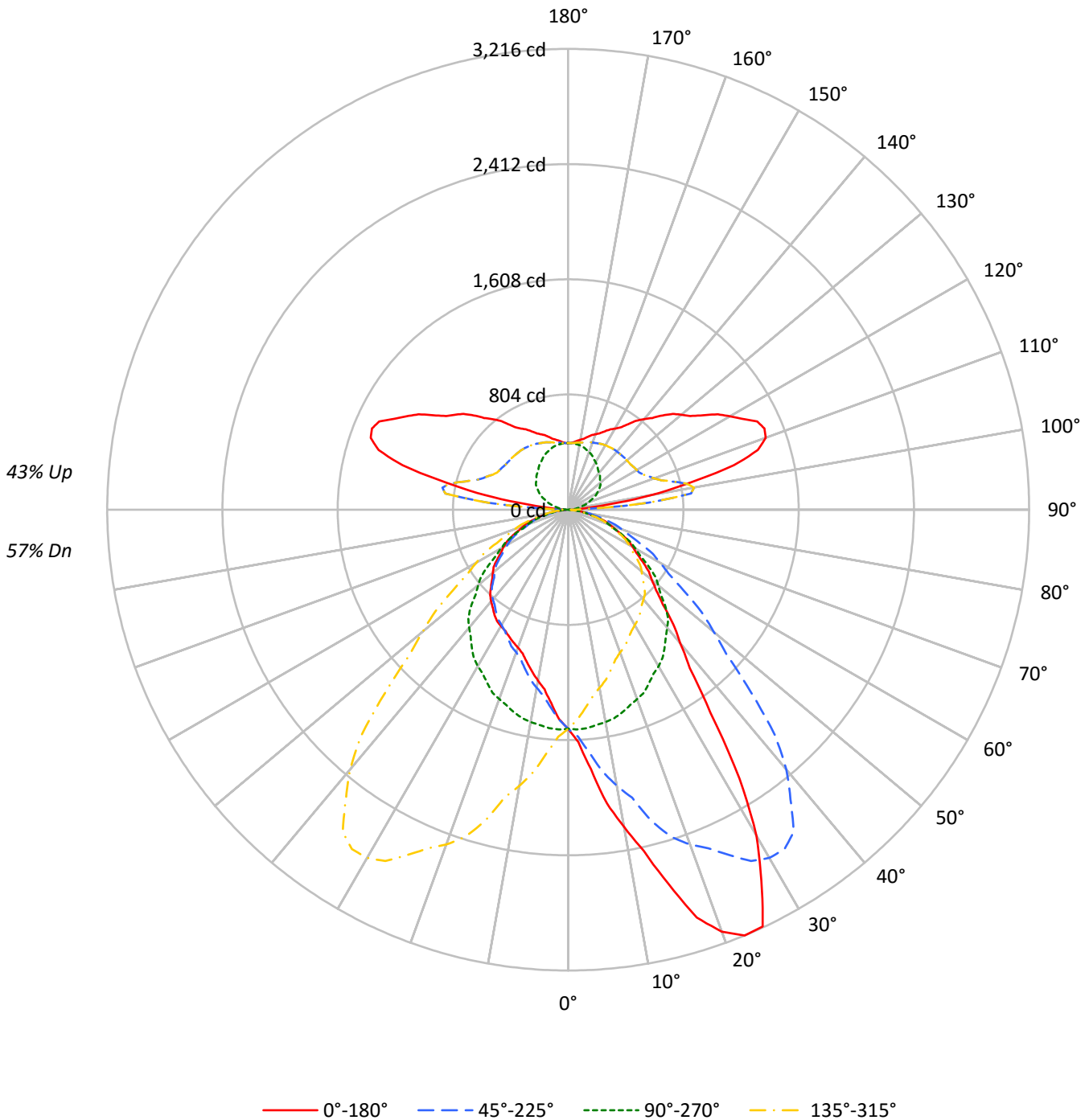
Lumens per Lamp: N/A
Luminaire Lumens: 8114.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57																												
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	53	49																												
2	91	84	78	72	84	78	73	68	68	64	60	58	55	53	49	47	45	41																												
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	44	41	39	35																												
4	76	65	58	52	71	61	54	49	53	48	44	46	42	39	39	36	34	30																												
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30	26																												
6	65	53	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26	23																												
7	60	48	40	34	56	45	37	32	39	34	29	34	30	26	30	26	23	21																												
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21	19																												
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17																												
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15																												

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	1.9
10°-20°	482.9	6.0
20°-30°	810.5	10.0
30°-40°	917.8	11.3
40°-50°	823.0	10.1
50°-60°	664.2	8.2
60°-70°	462.8	5.7
70°-80°	243.3	3.0
80°-90°	63.1	0.8
90°-100°	258.6	3.2
100°-110°	732.4	9.0
110°-120°	720.5	8.9
120°-130°	574.7	7.1
130°-140°	453.1	5.6
140°-150°	338.2	4.2
150°-160°	235.7	2.9
160°-170°	138.5	1.7
170°-180°	45.1	0.6
0°-30°	1444.1	17.8
0°-40°	2361.9	29.1
0°-60°	3849.1	47.4
0°-90°	4618.2	56.9
90°-120°	1711.5	21.1
90°-150°	3077.4	37.9
90°-180°	3497.0	43.1
0°-180°	8114.9	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	59
90°	27	2	27	2	27	17
95°	109	32	109	32	109	197
105°	1197	109	1197	109	1197	1181
115°	1456	193	1456	193	1456	1414
125°	1148	268	1148	268	1148	1040
135°	930	314	930	314	930	722
145°	727	358	727	358	727	463
155°	603	407	603	407	603	281
165°	526	445	526	445	526	150
175°	473	464	473	464	473	46
180°	465	465	465	465	465	



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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°	23.3	22.2	22.6	23.1	22.6	22.9	23.3	23.7	24.0	24.9	24.9
90°	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6	22.6	23.6	20.7
92.5°	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2	109.1	144.7	159.2
95°	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7	452.5	557.9	496.7
97.5°	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3	925.0	864.6	633.0
100°	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3	1076.3	891.0	602.1
102.5°	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3	1083.8	842.1	556.9
105°	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0	1026.4	756.4	501.4
107.5°	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0	926.0	680.8	466.1
110°	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2	862.7	637.9	452.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1	807.8	609.3	445.0
115°	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4	741.4	578.6	442.1
117.5°	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3	701.3	560.5	443.8
120°	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8	680.2	552.2	446.9
122.5°	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0	662.9	547.0	452.1
125°	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0	640.7	540.1	460.1
127.5°	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6	621.1	536.7	469.1
130°	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3	610.6	534.4	475.1
132.5°	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5	600.8	533.7	479.7
135°	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0	588.1	532.5	486.4
137.5°	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9	576.9	530.5	490.9
140°	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3	570.1	529.7	493.9
142.5°	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5	564.1	528.2	496.2
145°	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2	556.0	525.9	497.7
147.5°	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5	548.1	522.4	497.7
150°	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5	542.8	519.3	497.7
152.5°	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2	536.9	515.6	495.4
155°	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8	527.8	509.0	492.9
157.5°	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7	517.6	503.1	489.8
160°	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1	510.9	498.6	488.3
162.5°	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1	504.1	494.1	485.3
165°	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4	494.8	487.4	480.8
167.5°	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2	486.1	480.6	476.3
170°	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5	480.8	476.1	473.3
172.5°	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5	475.5	472.3	471.0
175°	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4	469.5	467.6	467.6
177.5°	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3	465.5	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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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°	25.5	25.5	23.2	20.5	18.9	16.5	16.1	14.6	13.8	14.1	14.1
90°	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9	3.8	5.7	8.5
92.5°	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7	17.3	25.3	32.5
95°	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0	34.8	45.1	61.2
97.5°	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6	55.5	63.6	77.5
100°	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7	70.6	77.2	90.3
102.5°	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4	87.1	92.9	105.4
105°	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1	112.0	117.6	128.9
107.5°	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3	137.1	142.6	153.7
110°	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4	155.2	159.9	170.3



TEST NUMBER: P332074-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0	171.8	176.5	186.8
115°	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8	196.6	202.3	211.7
117.5°	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8	221.1	225.8	234.4
120°	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3	236.1	240.8	250.2
122.5°	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6	250.4	255.1	265.3
125°	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2	270.0	275.7	286.0
127.5°	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8	286.5	293.5	304.1
130°	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5	296.3	304.8	316.1
132.5°	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0	304.6	313.9	327.4
135°	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2	318.0	328.4	342.4
137.5°	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7	330.6	340.7	355.8
140°	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0	339.6	349.0	364.1
142.5°	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9	347.9	358.1	371.6
145°	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4	361.3	369.8	383.9
147.5°	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2	374.8	383.1	395.3
150°	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0	383.9	391.3	403.6
152.5°	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7	392.9	400.4	411.1
155°	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4	407.4	413.0	422.4
157.5°	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1	419.8	424.3	432.6
160°	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1	428.1	431.9	439.3
162.5°	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9	434.9	437.9	443.8
165°	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0	444.0	445.9	450.6
167.5°	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7	451.6	452.5	456.1
170°	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2	455.3	456.3	459.1
172.5°	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2	459.1	459.3	461.4
175°	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8	462.9	461.9	463.8
177.5°	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5	464.8	464.0	464.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332074-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-A4

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°	13.9	14.9	14.9	16.0	16.0	17.2	17.0	15.9	16.1	18.1	16.1
90°	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6	24.5	25.4	27.2
92.5°	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2	62.9	55.5	50.6
95°	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7	229.6	179.7	145.8
97.5°	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3	676.3	554.9	442.3
100°	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3	1033.0	922.9	789.4
102.5°	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3	1194.9	1130.7	1046.0
105°	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0	1317.2	1335.0	1310.6
107.5°	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0	1301.7	1384.1	1417.7
110°	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2	1251.3	1369.8	1435.7



TEST NUMBER: P332074-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1	1185.1	1317.9	1402.6
115°	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4	1079.1	1217.4	1319.9
117.5°	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3	989.6	1113.7	1217.8
120°	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8	939.9	1052.8	1147.8
122.5°	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0	900.0	1004.7	1092.9
125°	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0	850.6	940.8	1016.1
127.5°	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6	807.0	888.5	957.0
130°	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3	780.0	856.1	920.1
132.5°	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5	754.3	825.3	886.3
135°	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0	717.8	779.0	832.6
137.5°	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9	682.7	735.4	781.8
140°	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3	662.3	707.5	748.0
142.5°	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5	642.8	681.9	717.1
145°	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2	617.2	647.2	674.6
147.5°	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5	598.1	622.5	641.9
150°	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5	586.2	605.9	623.8
152.5°	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2	574.9	592.4	607.2
155°	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8	558.8	573.0	584.3
157.5°	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7	543.2	554.1	563.0
160°	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1	533.5	542.8	549.4
162.5°	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1	522.9	531.6	537.4
165°	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4	508.0	514.6	519.3
167.5°	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2	496.5	500.3	503.7
170°	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5	488.3	492.0	493.9
172.5°	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5	481.5	484.6	485.7
175°	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4	472.3	474.2	474.2
177.5°	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3	467.0	467.8	467.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332074-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-A4

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°	15.9	16.1	15.7	14.9	15.7	16.1	15.9	16.1	18.1	16.1	15.9
90°	26.3	27.2	28.2	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6
92.5°	48.9	46.1	47.0	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2
95°	128.0	119.5	112.9	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7
97.5°	373.0	330.6	305.2	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3
100°	694.4	625.7	589.0	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3
102.5°	972.0	917.7	887.0	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3
105°	1267.2	1231.5	1201.5	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0
107.5°	1418.4	1406.4	1396.2	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0
110°	1462.1	1469.6	1467.7	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1450.8	1474.0	1481.2	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1
115°	1390.5	1431.9	1450.8	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4
117.5°	1291.4	1338.8	1365.9	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3
120°	1222.1	1274.8	1297.4	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8
122.5°	1159.0	1206.4	1231.1	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0
125°	1076.3	1117.7	1141.2	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0
127.5°	1010.6	1046.0	1067.2	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6
130°	970.0	1003.9	1023.6	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3
132.5°	933.1	967.0	984.5	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5
135°	878.7	906.9	923.9	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0
137.5°	820.6	849.2	863.5	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9
140°	783.7	810.0	825.1	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3
142.5°	747.6	770.9	784.5	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5
145°	698.0	717.8	725.4	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2
147.5°	659.7	673.1	680.2	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5
150°	637.9	648.2	653.8	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5
152.5°	618.3	627.9	631.3	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2
155°	592.8	600.2	602.1	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8
157.5°	570.3	576.0	577.5	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7
160°	556.0	561.7	561.7	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1
162.5°	541.8	546.6	546.6	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1
165°	523.1	526.9	525.9	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4
167.5°	505.4	508.0	507.1	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2
170°	494.8	496.7	495.8	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5
172.5°	485.9	487.8	486.1	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5
175°	474.2	475.1	474.2	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4
177.5°	467.0	467.8	466.3	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332074-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1466.1	1466.1	1477.3	1484.5	1493.4	1499.3	1503.4	1507.6	1514.8	1524.2	1534.8
5°	1382.2	1385.3	1401.6	1417.9	1433.4	1446.7	1457.8	1471.1	1487.4	1507.4	1529.7
7.5°	1301.1	1312.5	1328.9	1348.8	1370.6	1390.0	1409.7	1431.6	1454.5	1484.0	1515.1
10°	1249.0	1261.5	1281.5	1306.7	1329.6	1352.6	1377.1	1400.8	1429.6	1464.5	1504.5
12.5°	1203.3	1215.3	1235.9	1263.5	1285.3	1310.6	1338.6	1369.4	1401.8	1443.8	1489.1
15°	1140.0	1154.1	1179.3	1192.6	1226.0	1256.3	1282.2	1326.7	1368.2	1411.2	1463.8
17.5°	1088.2	1096.0	1116.4	1141.2	1166.1	1200.1	1234.1	1271.1	1312.5	1365.1	1430.9
20°	1052.6	1059.3	1081.5	1107.5	1134.1	1165.3	1195.6	1232.7	1279.3	1334.8	1406.0
22.5°	1026.0	1033.2	1047.7	1075.4	1100.3	1126.1	1156.5	1200.6	1250.3	1304.7	1381.7
25°	987.4	991.8	1001.5	1023.7	1045.9	1074.9	1101.5	1143.0	1194.1	1257.8	1334.8
27.5°	950.8	955.2	963.2	979.1	999.8	1023.3	1052.3	1087.6	1139.4	1208.6	1290.4
30°	928.9	929.6	937.1	951.9	969.7	988.9	1015.6	1055.6	1104.5	1174.9	1260.7
32.5°	909.9	907.1	912.2	923.4	940.7	959.9	981.8	1021.2	1068.4	1137.6	1225.8
35°	877.8	876.3	874.1	883.7	898.5	913.3	932.6	962.2	1015.6	1080.1	1172.6
37.5°	845.1	841.5	837.5	842.0	853.5	868.9	885.6	912.0	958.0	1028.9	1117.5
40°	820.8	817.8	815.6	814.1	824.4	839.2	851.9	877.0	920.0	987.4	1074.9
42.5°	794.1	792.3	789.5	787.4	796.1	807.3	820.5	842.7	885.6	949.0	1031.6
45°	751.1	749.7	748.2	746.7	751.9	762.2	772.6	788.9	826.0	887.4	962.2
47.5°	703.3	701.3	701.9	699.6	704.6	711.6	718.9	736.3	771.8	821.5	876.2
50°	668.9	668.2	668.2	668.2	669.7	677.8	684.5	697.8	730.4	780.0	819.3
52.5°	636.3	633.2	633.2	634.4	637.1	642.2	646.6	661.1	689.5	730.3	765.9
55°	585.2	579.3	577.8	579.3	581.5	586.0	590.4	602.3	626.7	657.0	677.8
57.5°	528.6	525.4	523.4	523.7	524.9	528.5	531.9	544.8	564.0	579.9	593.2
60°	488.9	490.4	483.7	485.2	485.2	488.1	493.3	501.5	517.8	528.9	542.2
62.5°	451.6	449.5	447.6	445.5	445.5	446.7	453.6	460.1	473.9	479.8	490.1
65°	393.3	393.3	388.9	390.4	391.2	386.0	389.6	397.1	406.0	408.1	417.8
67.5°	334.4	332.3	329.8	327.5	327.5	327.2	329.0	332.7	339.4	340.2	347.6
70°	294.1	292.6	291.9	289.6	286.7	290.4	288.1	291.9	295.6	296.3	300.8
72.5°	255.0	253.4	252.1	250.0	248.7	248.3	248.5	252.8	255.2	254.2	259.3
75°	199.3	197.7	196.3	192.6	192.6	190.4	191.1	194.1	197.1	194.8	199.3
77.5°	146.4	141.8	141.5	142.5	140.0	140.4	139.6	139.1	140.4	140.6	144.6
80°	112.6	107.4	108.9	108.1	107.4	106.7	105.2	105.9	106.7	107.4	109.6
82.5°	81.2	80.8	79.3	79.1	78.4	76.4	75.6	76.9	77.7	77.2	78.8
85°	41.5	39.3	40.7	40.0	40.7	40.0	37.8	37.8	39.3	38.5	40.0
87.5°	17.0	17.2	16.0	16.0	14.9	14.9	13.9	14.1	14.1	13.8	14.6
90°	22.6	23.6	20.7	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9
92.5°	109.1	144.7	159.2	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7
95°	452.5	557.9	496.7	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0
97.5°	925.0	864.6	633.0	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6
100°	1076.3	891.0	602.1	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7
102.5°	1083.8	842.1	556.9	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4
105°	1026.4	756.4	501.4	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1
107.5°	926.0	680.8	466.1	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3
110°	862.7	637.9	452.5	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	807.8	609.3	445.0	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0
115°	741.4	578.6	442.1	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8
117.5°	701.3	560.5	443.8	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8
120°	680.2	552.2	446.9	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3
122.5°	662.9	547.0	452.1	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6
125°	640.7	540.1	460.1	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2
127.5°	621.1	536.7	469.1	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8
130°	610.6	534.4	475.1	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5
132.5°	600.8	533.7	479.7	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0
135°	588.1	532.5	486.4	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2
137.5°	576.9	530.5	490.9	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7
140°	570.1	529.7	493.9	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0
142.5°	564.1	528.2	496.2	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9
145°	556.0	525.9	497.7	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4
147.5°	548.1	522.4	497.7	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2
150°	542.8	519.3	497.7	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0
152.5°	536.9	515.6	495.4	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7
155°	527.8	509.0	492.9	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4
157.5°	517.6	503.1	489.8	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1
160°	510.9	498.6	488.3	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1
162.5°	504.1	494.1	485.3	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9
165°	494.8	487.4	480.8	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0
167.5°	486.1	480.6	476.3	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7
170°	480.8	476.1	473.3	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2
172.5°	475.5	472.3	471.0	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2
175°	469.5	467.6	467.6	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8
177.5°	465.5	464.8	465.5	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332074-830

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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°	16.1	16.5	18.9	20.5	23.2	25.5	25.5	24.9	24.9	24.0	23.7
90°	3.8	5.7	8.5	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6
92.5°	17.3	25.3	32.5	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2
95°	34.8	45.1	61.2	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7
97.5°	55.5	63.6	77.5	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3
100°	70.6	77.2	90.3	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3
102.5°	87.1	92.9	105.4	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3
105°	112.0	117.6	128.9	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0
107.5°	137.1	142.6	153.7	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0
110°	155.2	159.9	170.3	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	176.5	186.8	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1
115°	196.6	202.3	211.7	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4
117.5°	221.1	225.8	234.4	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3
120°	236.1	240.8	250.2	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8
122.5°	250.4	255.1	265.3	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0
125°	270.0	275.7	286.0	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0
127.5°	286.5	293.5	304.1	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6
130°	296.3	304.8	316.1	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3
132.5°	304.6	313.9	327.4	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5
135°	318.0	328.4	342.4	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0
137.5°	330.6	340.7	355.8	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9
140°	339.6	349.0	364.1	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3
142.5°	347.9	358.1	371.6	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5
145°	361.3	369.8	383.9	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2
147.5°	374.8	383.1	395.3	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5
150°	383.9	391.3	403.6	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5
152.5°	392.9	400.4	411.1	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2
155°	407.4	413.0	422.4	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8
157.5°	419.8	424.3	432.6	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7
160°	428.1	431.9	439.3	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1
162.5°	434.9	437.9	443.8	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1
165°	444.0	445.9	450.6	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4
167.5°	451.6	452.5	456.1	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2
170°	455.3	456.3	459.1	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5
172.5°	459.1	459.3	461.4	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5
175°	462.9	461.9	463.8	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4
177.5°	464.8	464.0	464.8	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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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°	23.3	22.9	22.6	23.1	22.6	22.2	23.3
90°	24.5	25.4	27.2	26.3	27.2	28.2	27.2
92.5°	62.9	55.5	50.6	48.9	46.1	47.0	45.3
95°	229.6	179.7	145.8	128.0	119.5	112.9	109.1
97.5°	676.3	554.9	442.3	373.0	330.6	305.2	297.1
100°	1033.0	922.9	789.4	694.4	625.7	589.0	589.9
102.5°	1194.9	1130.7	1046.0	972.0	917.7	887.0	865.3
105°	1317.2	1335.0	1310.6	1267.2	1231.5	1201.5	1196.7
107.5°	1301.7	1384.1	1417.7	1418.4	1406.4	1396.2	1387.5
110°	1251.3	1369.8	1435.7	1462.1	1469.6	1467.7	1465.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.1	1317.9	1402.6	1450.8	1474.0	1481.2	1481.6
115°	1079.1	1217.4	1319.9	1390.5	1431.9	1450.8	1455.5
117.5°	989.6	1113.7	1217.8	1291.4	1338.8	1365.9	1372.2
120°	939.9	1052.8	1147.8	1222.1	1274.8	1297.4	1303.1
122.5°	900.0	1004.7	1092.9	1159.0	1206.4	1231.1	1238.3
125°	850.6	940.8	1016.1	1076.3	1117.7	1141.2	1147.8
127.5°	807.0	888.5	957.0	1010.6	1046.0	1067.2	1073.3
130°	780.0	856.1	920.1	970.0	1003.9	1023.6	1031.1
132.5°	754.3	825.3	886.3	933.1	967.0	984.5	989.8
135°	717.8	779.0	832.6	878.7	906.9	923.9	930.5
137.5°	682.7	735.4	781.8	820.6	849.2	863.5	867.8
140°	662.3	707.5	748.0	783.7	810.0	825.1	824.2
142.5°	642.8	681.9	717.1	747.6	770.9	784.5	783.5
145°	617.2	647.2	674.6	698.0	717.8	725.4	727.3
147.5°	598.1	622.5	641.9	659.7	673.1	680.2	681.0
150°	586.2	605.9	623.8	637.9	648.2	653.8	653.8
152.5°	574.9	592.4	607.2	618.3	627.9	631.3	631.3
155°	558.8	573.0	584.3	592.8	600.2	602.1	603.0
157.5°	543.2	554.1	563.0	570.3	576.0	577.5	577.3
160°	533.5	542.8	549.4	556.0	561.7	561.7	560.7
162.5°	522.9	531.6	537.4	541.8	546.6	546.6	545.6
165°	508.0	514.6	519.3	523.1	526.9	525.9	525.9
167.5°	496.5	500.3	503.7	505.4	508.0	507.1	507.1
170°	488.3	492.0	493.9	494.8	496.7	495.8	495.8
172.5°	481.5	484.6	485.7	485.9	487.8	486.1	485.3
175°	472.3	474.2	474.2	474.2	475.1	474.2	473.3
177.5°	467.0	467.8	467.8	467.0	467.8	466.3	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)