

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: P331429

Luminaire Tested: **SA2XXDIP-C1005D530U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331429
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

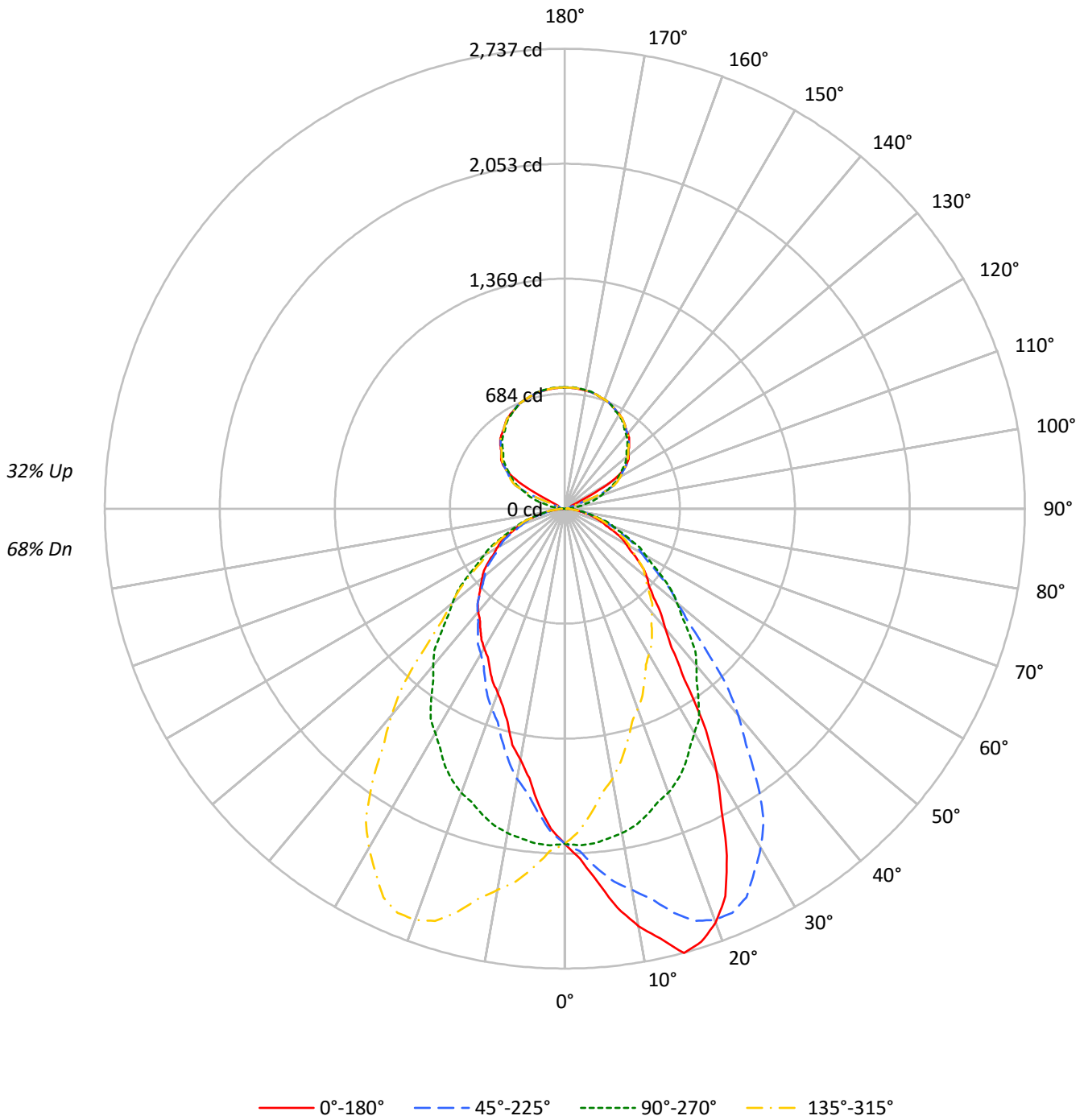
Lumens per Lamp: N/A
Luminaire Lumens: 6514.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68				
1	102	98	94	91	96	93	90	87	83	80	78	73	72	70	65	64	62	58				
2	94	87	81	75	88	82	77	72	73	69	66	65	62	59	58	56	53	50				
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43				
4	79	68	61	55	74	65	58	53	58	53	48	52	48	44	47	43	40	37				
5	73	61	53	47	69	58	51	46	53	47	42	47	43	39	43	39	36	33				
6	67	55	47	42	64	53	46	40	48	42	37	43	38	35	39	35	32	29				
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	36	32	29	26				
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	24				
9	55	42	35	30	52	40	34	29	37	31	27	34	29	25	31	26	24	22				
10	51	39	32	27	48	37	31	26	34	29	25	31	26	23	28	24	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.9
10°-20°	552.1	8.5
20°-30°	801.2	12.3
30°-40°	845.5	13.0
40°-50°	748.6	11.5
50°-60°	597.4	9.2
60°-70°	406.1	6.2
70°-80°	208.2	3.2
80°-90°	52.0	0.8
90°-100°	24.1	0.4
100°-110°	88.2	1.4
110°-120°	235.8	3.6
120°-130°	389.3	6.0
130°-140°	414.0	6.4
140°-150°	384.8	5.9
150°-160°	309.4	4.7
160°-170°	199.4	3.1
170°-180°	68.6	1.1
0°-30°	1543.2	23.7
0°-40°	2388.7	36.7
0°-60°	3734.8	57.3
0°-90°	4401.1	67.6
90°-120°	348.1	5.3
90°-150°	1536.2	23.6
90°-180°	2114.0	32.5
0°-180°	6514.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	14	0	14	0	14	8
95°	22	34	22	34	22	21
105°	40	159	40	159	40	41
115°	43	300	43	300	43	107
125°	446	424	446	424	446	386
135°	542	525	542	525	542	418
145°	618	609	618	609	618	387
155°	671	671	671	671	671	310
165°	705	707	705	707	705	199
175°	719	723	719	723	719	68
180°	721	721	721	721	721	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	18.8	18.7	19.3	18.6	18.6	19.1	19.0	18.3	18.8	19.3	19.7
90°	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6	11.0	10.4	9.5
92.5°	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7	12.4	12.1	11.6
95°	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5	20.9	20.4	19.5
97.5°	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2	27.7	27.2	25.4
100°	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6	30.7	29.7	27.8
102.5°	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0	31.8	30.6	47.1
105°	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4	33.1	31.8	63.5
107.5°	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0	43.3	44.6	82.5
110°	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1	79.7	91.3	124.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7	188.0	230.4	238.6
115°	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6	268.3	322.0	319.1
117.5°	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7	343.7	356.6	354.7
120°	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3	383.9	382.5	380.4
122.5°	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8	408.0	407.2	404.9
125°	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6	441.8	441.0	438.8
127.5°	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8	472.6	471.5	469.8
130°	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6	492.4	491.1	489.8
132.5°	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9	511.8	510.7	509.4
135°	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4	539.2	538.0	537.0
137.5°	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9	564.8	563.6	562.4
140°	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4	581.4	580.3	579.0
142.5°	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7	596.7	595.8	594.3
145°	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0	618.2	617.4	615.4
147.5°	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6	637.0	636.4	634.4
150°	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0	648.3	647.6	645.8
152.5°	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5	658.8	658.1	656.3
155°	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6	672.9	672.2	670.8
157.5°	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4	684.6	683.9	682.9
160°	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3	691.7	691.0	690.3
162.5°	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8	698.0	697.2	696.6
165°	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7	705.9	705.0	704.7
167.5°	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2	712.4	711.6	711.3
170°	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6	715.8	715.0	714.7
172.5°	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1	718.3	717.5	717.2
175°	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8	721.0	720.2	719.9
177.5°	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1	721.5	720.8	720.7
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	20.1	19.9	19.7	20.7	18.6	18.4	15.7	13.6	13.2	12.9	11.9
90°	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5	10.4	10.3	10.2
95°	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9	30.1	26.3	22.4
97.5°	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3	56.5	45.8	35.0
100°	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4	76.5	60.6	44.7
102.5°	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9	116.6	113.2	109.8
105°	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6	162.1	165.6	169.1
107.5°	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8	205.6	208.4	211.2
110°	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2	233.6	236.1	238.5



TEST NUMBER: P331429

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9	260.1	262.2	264.4
115°	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1	302.0	304.0	306.0
117.5°	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8	340.0	342.2	344.4
120°	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3	367.0	368.8	370.5
122.5°	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7	390.5	392.4	394.2
125°	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3	425.8	427.3	428.8
127.5°	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5	458.2	459.9	461.5
130°	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0	478.8	480.7	482.6
132.5°	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9	499.4	501.0	502.6
135°	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0	526.9	528.7	530.6
137.5°	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5	553.7	555.0	556.3
140°	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4	571.3	572.3	573.2
142.5°	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4	586.3	587.1	587.9
145°	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0	608.9	608.8	608.7
147.5°	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6	629.1	628.7	628.3
150°	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9	642.1	641.3	640.5
152.5°	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2	653.3	652.4	651.5
155°	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6	669.6	668.5	667.5
157.5°	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4	682.6	681.7	680.8
160°	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	690.3	689.6	688.9
162.5°	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6	696.9	696.2	695.5
165°	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6	705.9	705.2	704.5
167.5°	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3	712.6	711.9	711.2
170°	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0	716.4	715.7	715.0
172.5°	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6	718.9	718.2	717.5
175°	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8	722.0	721.2	720.4
177.5°	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3	722.7	722.0	721.4
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331429

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	11.5	11.2	10.7	10.9	10.5	10.1	9.6	9.7	9.8	8.7	8.8
90°	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6	12.2	12.8	13.2
92.5°	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7	13.0	13.3	13.5
95°	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5	22.1	22.7	22.9
97.5°	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2	28.6	29.1	29.4
100°	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6	32.5	33.5	34.0
102.5°	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0	34.2	35.4	36.2
105°	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4	35.7	36.9	37.8
107.5°	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0	40.7	39.4	39.0
110°	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1	56.5	44.9	39.4



TEST NUMBER: P331429

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7	103.4	61.1	40.2
115°	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6	160.9	107.2	76.2
117.5°	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7	317.7	304.7	284.5
120°	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3	386.7	388.1	381.0
122.5°	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8	409.7	410.5	409.4
125°	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6	443.4	444.2	444.8
127.5°	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8	475.0	476.2	476.8
130°	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6	494.9	496.2	496.8
132.5°	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9	514.0	515.1	515.5
135°	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4	541.5	542.7	543.2
137.5°	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9	567.0	568.2	568.5
140°	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4	583.4	584.5	584.7
142.5°	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7	598.6	599.6	599.8
145°	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0	619.8	620.6	620.7
147.5°	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6	638.2	638.8	638.8
150°	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0	649.7	650.4	650.5
152.5°	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5	660.2	660.9	660.8
155°	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6	674.3	675.0	674.8
157.5°	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4	686.2	687.0	687.0
160°	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3	693.0	693.7	693.7
162.5°	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8	699.6	700.4	700.3
165°	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7	707.5	708.3	708.3
167.5°	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2	714.1	714.9	714.8
170°	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6	717.4	718.2	718.1
172.5°	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1	719.9	720.7	720.6
175°	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8	722.6	723.4	723.3
177.5°	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1	722.8	723.4	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331429

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	8.8	8.2	8.3	7.7	8.3	8.2	8.8	8.8	8.7	9.8	9.7
90°	13.4	13.6	13.9	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6
92.5°	13.7	13.8	14.0	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7
95°	22.8	22.7	22.6	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5
97.5°	29.5	29.7	29.8	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2
100°	34.3	34.5	34.7	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6
102.5°	36.5	36.8	37.1	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0
105°	38.3	38.7	39.2	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4
107.5°	39.4	39.9	40.3	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0
110°	39.8	40.3	40.8	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1



TEST NUMBER: P331429

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.5	40.9	41.3	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7
115°	67.8	59.5	51.1	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6
117.5°	257.0	229.6	202.2	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7
120°	365.3	349.7	334.0	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3
122.5°	406.4	403.3	400.3	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8
125°	445.2	445.5	445.9	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6
127.5°	476.9	477.0	477.0	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8
130°	496.6	496.5	496.4	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6
132.5°	515.4	515.3	515.2	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9
135°	542.9	542.7	542.5	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4
137.5°	568.1	567.7	567.4	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9
140°	584.1	583.6	583.0	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4
142.5°	599.2	598.6	598.0	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7
145°	620.2	619.6	619.0	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0
147.5°	638.4	637.9	637.4	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6
150°	649.9	649.3	648.7	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0
152.5°	660.1	659.3	658.5	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5
155°	673.9	673.0	672.1	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6
157.5°	686.0	685.1	684.2	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4
160°	692.9	692.1	691.2	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3
162.5°	699.3	698.3	697.3	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8
165°	707.5	706.7	705.9	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7
167.5°	713.7	712.7	711.6	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2
170°	717.0	716.0	715.0	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6
172.5°	719.6	718.5	717.5	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1
175°	722.1	720.9	719.8	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8
177.5°	722.5	721.6	720.8	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331429

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	9.6	10.1	10.5	10.9	10.7	11.2	11.5	11.9	12.9	13.2	13.6
90°	11.0	10.4	9.5	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5
92.5°	12.4	12.1	11.6	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5
95°	20.9	20.4	19.5	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9
97.5°	27.7	27.2	25.4	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3
100°	30.7	29.7	27.8	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4
102.5°	31.8	30.6	47.1	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9
105°	33.1	31.8	63.5	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6
107.5°	43.3	44.6	82.5	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8
110°	79.7	91.3	124.8	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	188.0	230.4	238.6	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9
115°	268.3	322.0	319.1	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1
117.5°	343.7	356.6	354.7	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8
120°	383.9	382.5	380.4	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3
122.5°	408.0	407.2	404.9	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7
125°	441.8	441.0	438.8	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3
127.5°	472.6	471.5	469.8	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5
130°	492.4	491.1	489.8	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0
132.5°	511.8	510.7	509.4	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9
135°	539.2	538.0	537.0	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0
137.5°	564.8	563.6	562.4	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5
140°	581.4	580.3	579.0	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4
142.5°	596.7	595.8	594.3	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4
145°	618.2	617.4	615.4	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0
147.5°	637.0	636.4	634.4	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6
150°	648.3	647.6	645.8	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9
152.5°	658.8	658.1	656.3	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2
155°	672.9	672.2	670.8	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6
157.5°	684.6	683.9	682.9	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4
160°	691.7	691.0	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0
162.5°	698.0	697.2	696.6	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6
165°	705.9	705.0	704.7	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6
167.5°	712.4	711.6	711.3	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3
170°	715.8	715.0	714.7	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0
172.5°	718.3	717.5	717.2	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6
175°	721.0	720.2	719.9	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8
177.5°	721.5	720.8	720.7	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331429

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	15.7	18.4	18.6	20.7	19.7	19.9	20.1	19.7	19.3	18.8	18.3
90°	1.8	3.1	4.3	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6
92.5°	10.4	10.3	10.2	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7
95°	30.1	26.3	22.4	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5
97.5°	56.5	45.8	35.0	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2
100°	76.5	60.6	44.7	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6
102.5°	116.6	113.2	109.8	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0
105°	162.1	165.6	169.1	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4
107.5°	205.6	208.4	211.2	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0
110°	233.6	236.1	238.5	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.1	262.2	264.4	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7
115°	302.0	304.0	306.0	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6
117.5°	340.0	342.2	344.4	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7
120°	367.0	368.8	370.5	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3
122.5°	390.5	392.4	394.2	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8
125°	425.8	427.3	428.8	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6
127.5°	458.2	459.9	461.5	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8
130°	478.8	480.7	482.6	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6
132.5°	499.4	501.0	502.6	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9
135°	526.9	528.7	530.6	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4
137.5°	553.7	555.0	556.3	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9
140°	571.3	572.3	573.2	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4
142.5°	586.3	587.1	587.9	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7
145°	608.9	608.8	608.7	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0
147.5°	629.1	628.7	628.3	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6
150°	642.1	641.3	640.5	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0
152.5°	653.3	652.4	651.5	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5
155°	669.6	668.5	667.5	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6
157.5°	682.6	681.7	680.8	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4
160°	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3
162.5°	696.9	696.2	695.5	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8
165°	705.9	705.2	704.5	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7
167.5°	712.6	711.9	711.2	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2
170°	716.4	715.7	715.0	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6
172.5°	718.9	718.2	717.5	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1
175°	722.0	721.2	720.4	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8
177.5°	722.7	722.0	721.4	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	19.0	19.1	18.6	18.6	19.3	18.7	18.8
90°	12.2	12.8	13.2	13.4	13.6	13.9	14.1
92.5°	13.0	13.3	13.5	13.7	13.8	14.0	14.1
95°	22.1	22.7	22.9	22.8	22.7	22.6	22.4
97.5°	28.6	29.1	29.4	29.5	29.7	29.8	30.0
100°	32.5	33.5	34.0	34.3	34.5	34.7	35.0
102.5°	34.2	35.4	36.2	36.5	36.8	37.1	37.5
105°	35.7	36.9	37.8	38.3	38.7	39.2	39.7
107.5°	40.7	39.4	39.0	39.4	39.9	40.3	40.8
110°	56.5	44.9	39.4	39.8	40.3	40.8	41.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	103.4	61.1	40.2	40.5	40.9	41.3	41.6
115°	160.9	107.2	76.2	67.8	59.5	51.1	42.8
117.5°	317.7	304.7	284.5	257.0	229.6	202.2	174.7
120°	386.7	388.1	381.0	365.3	349.7	334.0	318.3
122.5°	409.7	410.5	409.4	406.4	403.3	400.3	397.2
125°	443.4	444.2	444.8	445.2	445.5	445.9	446.2
127.5°	475.0	476.2	476.8	476.9	477.0	477.0	477.1
130°	494.9	496.2	496.8	496.6	496.5	496.4	496.3
132.5°	514.0	515.1	515.5	515.4	515.3	515.2	515.1
135°	541.5	542.7	543.2	542.9	542.7	542.5	542.2
137.5°	567.0	568.2	568.5	568.1	567.7	567.4	567.0
140°	583.4	584.5	584.7	584.1	583.6	583.0	582.4
142.5°	598.6	599.6	599.8	599.2	598.6	598.0	597.4
145°	619.8	620.6	620.7	620.2	619.6	619.0	618.4
147.5°	638.2	638.8	638.8	638.4	637.9	637.4	636.9
150°	649.7	650.4	650.5	649.9	649.3	648.7	648.2
152.5°	660.2	660.9	660.8	660.1	659.3	658.5	657.8
155°	674.3	675.0	674.8	673.9	673.0	672.1	671.1
157.5°	686.2	687.0	687.0	686.0	685.1	684.2	683.3
160°	693.0	693.7	693.7	692.9	692.1	691.2	690.4
162.5°	699.6	700.4	700.3	699.3	698.3	697.3	696.3
165°	707.5	708.3	708.3	707.5	706.7	705.9	705.0
167.5°	714.1	714.9	714.8	713.7	712.7	711.6	710.6
170°	717.4	718.2	718.1	717.0	716.0	715.0	713.9
172.5°	719.9	720.7	720.6	719.6	718.5	717.5	716.4
175°	722.6	723.4	723.3	722.1	720.9	719.8	718.6
177.5°	722.8	723.4	723.3	722.5	721.6	720.8	720.0
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2

(END OF REPORT)