

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: P331431

Luminaire Tested: **SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331431  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
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-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

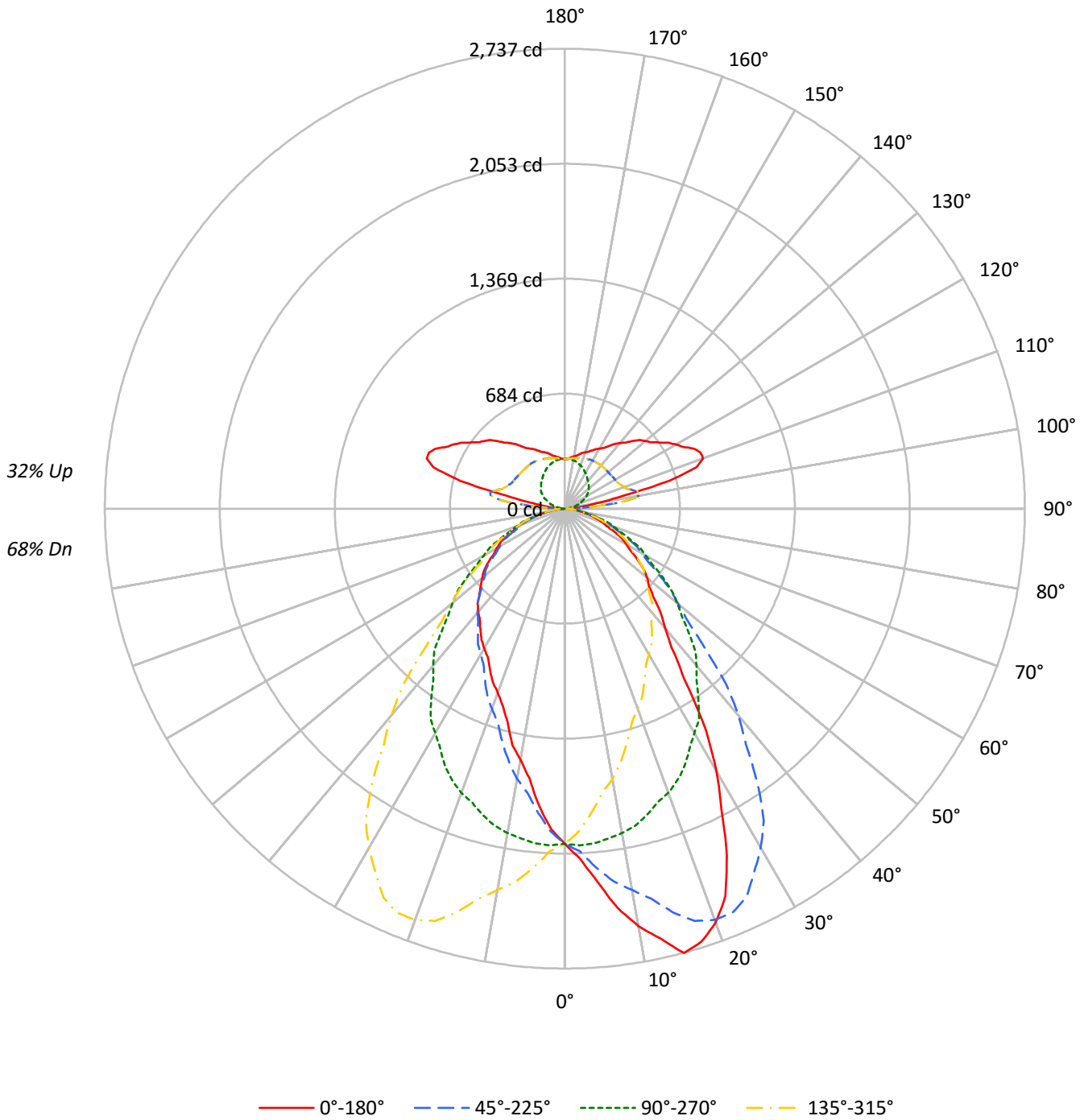
Lumens per Lamp: N/A  
Luminaire Lumens: 6465.5 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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	83	83	83	73	73	73	68				
1	102	98	95	91	97	93	90	87	83	80	78	74	72	70	65	64	63	59				
2	94	87	81	76	88	82	77	72	73	69	66	66	62	60	58	56	54	50				
3	86	77	70	64	81	73	66	61	65	60	56	59	55	51	52	49	47	43				
4	79	68	61	55	75	65	58	53	59	53	49	53	48	45	47	44	41	38				
5	73	61	53	47	69	59	51	46	53	47	42	48	43	39	43	39	36	33				
6	68	56	47	42	64	53	46	40	48	42	37	43	38	35	39	35	32	30				
7	63	50	43	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	37	32	28	33	29	26	24				
9	55	42	35	30	52	41	34	29	37	31	27	34	29	25	31	27	24	22				
10	51	39	32	27	48	37	31	26	34	29	25	31	27	23	29	25	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	12.4
30°-40°	845.5	13.1
40°-50°	748.6	11.6
50°-60°	597.4	9.2
60°-70°	406.1	6.3
70°-80°	208.2	3.2
80°-90°	52.9	0.8
90°-100°	118.6	1.8
100°-110°	402.4	6.2
110°-120°	427.5	6.6
120°-130°	351.9	5.4
130°-140°	282.6	4.4
140°-150°	213.5	3.3
150°-160°	150.1	2.3
160°-170°	88.3	1.4
170°-180°	28.8	0.4
0°-30°	1543.2	23.9
0°-40°	2388.7	36.9
0°-60°	3734.8	57.8
0°-90°	4401.9	68.1
90°-120°	948.4	14.7
90°-150°	1796.4	27.8
90°-180°	2064.0	31.9
0°-180°	6465.5	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°	19	1	19	1	19	12
95°	65	20	65	20	65	85
105°	643	70	643	70	643	622
115°	846	123	846	123	846	828
125°	686	171	686	171	686	620
135°	569	201	569	201	569	442
145°	454	229	454	229	454	288
155°	382	261	382	261	382	178
165°	335	284	335	284	335	96
175°	302	296	302	296	302	29
180°	296	296	296	296	296	



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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°	19.7	19.7	20.3	19.7	19.7	20.2	20.0	19.6	20.3	21.0	21.5
90°	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2	18.8	19.4	18.8
92.5°	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7	62.6	74.1	73.1
95°	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4	195.6	223.6	197.9
97.5°	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7	400.3	381.6	287.4
100°	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7	532.6	450.5	310.2
102.5°	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4	581.9	452.8	301.6
105°	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9	574.3	422.6	284.6
107.5°	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0	524.2	390.2	276.1
110°	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1	492.7	374.7	274.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3	470.8	364.6	274.8
115°	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8	443.7	353.6	277.2
117.5°	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5	426.6	348.2	281.3
120°	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0	417.5	345.0	284.0
122.5°	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7	409.7	343.2	287.2
125°	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8	398.6	339.9	292.0
127.5°	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1	388.4	338.0	296.9
130°	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7	381.5	337.0	300.5
132.5°	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8	376.0	336.6	304.2
135°	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5	368.4	335.9	308.5
137.5°	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3	363.0	335.8	312.4
140°	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5	359.9	335.3	314.2
142.5°	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1	356.7	335.3	315.6
145°	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1	352.4	334.2	317.1
147.5°	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2	348.1	332.1	317.5
150°	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1	344.5	330.8	317.1
152.5°	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1	341.3	328.5	316.2
155°	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2	335.3	324.5	314.8
157.5°	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1	329.7	320.4	312.2
160°	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0	325.6	317.7	310.8
162.5°	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0	322.0	315.4	309.4
165°	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5	315.9	310.8	306.8
167.5°	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3	310.0	306.8	304.2
170°	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7	306.8	304.5	302.8
172.5°	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6	303.6	301.8	301.0
175°	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1	299.4	298.8	298.3
177.5°	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9	297.0	296.5	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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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°	21.5	20.7	20.1	21.0	18.9	18.7	15.8	13.6	13.3	13.2	12.2
90°	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6	2.3	4.6	5.7
92.5°	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0	10.0	14.1	16.7
95°	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0	22.2	27.9	33.1
97.5°	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5	35.6	41.6	49.4
100°	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9	45.6	50.8	59.9
102.5°	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4	55.7	60.8	69.9
105°	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6	71.9	75.8	84.4
107.5°	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0	87.8	91.7	99.6
110°	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9	99.2	102.7	110.1





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CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0	109.3	113.1	120.1
115°	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6	125.5	128.9	135.7
117.5°	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8	141.1	144.5	150.6
120°	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8	151.1	154.5	159.7
122.5°	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4	160.3	163.7	169.3
125°	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1	172.8	176.2	183.1
127.5°	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1	183.4	188.2	195.7
130°	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1	189.3	195.0	203.0
132.5°	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5	195.3	201.4	209.9
135°	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7	203.0	209.9	218.4
137.5°	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5	211.2	218.1	227.2
140°	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4	216.7	223.6	232.7
142.5°	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4	222.2	228.6	237.7
145°	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3	231.5	237.2	245.8
147.5°	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8	240.5	246.0	253.9
150°	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2	246.9	251.5	258.9
152.5°	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6	252.4	257.0	263.5
155°	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6	261.2	264.6	270.9
157.5°	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1	268.7	271.5	276.9
160°	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2	273.7	276.0	280.6
162.5°	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2	277.8	280.1	283.8
165°	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0	283.4	284.6	288.0
167.5°	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8	288.1	289.1	291.3
170°	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0	290.8	291.4	293.1
172.5°	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8	293.1	292.8	294.5
175°	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0	295.4	294.8	296.0
177.5°	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0	296.1	295.6	296.5
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331431

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4

**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°	11.8	11.5	11.5	12.3	12.3	11.8	11.1	11.0	10.8	9.8	9.9
90°	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2	17.1	18.2	18.8
92.5°	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7	42.7	37.9	34.3
95°	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4	114.6	90.7	78.1
97.5°	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7	285.3	223.6	182.4
100°	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7	450.0	371.8	302.8
102.5°	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4	617.4	560.3	487.1
105°	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9	757.3	764.8	745.9
107.5°	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0	747.1	806.4	834.0
110°	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1	715.1	788.1	834.9



TEST NUMBER: P331431

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3	677.3	755.3	808.9
115°	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8	625.6	700.3	759.1
117.5°	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5	583.6	651.4	706.5
120°	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0	561.7	622.2	674.1
122.5°	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7	543.5	600.7	647.6
125°	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8	519.5	569.7	612.5
127.5°	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1	496.3	543.6	583.1
130°	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7	480.8	525.8	563.4
132.5°	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8	466.2	507.6	542.9
135°	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5	443.1	480.8	512.7
137.5°	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3	424.8	454.6	482.5
140°	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5	412.9	439.1	464.2
142.5°	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1	402.4	425.0	446.0
145°	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1	388.9	406.6	423.2
147.5°	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2	378.0	391.8	403.9
150°	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1	370.7	382.7	392.9
152.5°	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1	364.8	374.9	383.8
155°	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2	355.3	363.8	370.1
157.5°	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1	345.7	352.9	357.8
160°	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0	339.3	345.6	349.6
162.5°	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0	333.4	338.8	341.8
165°	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5	324.5	328.5	330.8
167.5°	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3	316.4	319.1	321.2
170°	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7	311.4	313.7	314.8
172.5°	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6	306.8	308.6	309.3
175°	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1	301.7	302.3	302.8
177.5°	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9	297.9	298.4	298.4
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331431

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4

**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°	9.9	9.3	9.3	8.7	9.3	9.3	9.9	9.9	9.8	10.8	11.0
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2
92.5°	33.9	32.1	32.5	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7
95°	70.7	66.2	64.4	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4
97.5°	155.1	141.1	132.8	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7
100°	255.5	231.0	214.4	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7
102.5°	435.7	393.8	373.2	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4
105°	710.6	675.2	650.7	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9
107.5°	838.4	836.5	831.6	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0
110°	859.4	870.3	875.4	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1



TEST NUMBER: P331431

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	843.0	861.1	870.8	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3
115°	799.5	825.8	840.6	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8
117.5°	747.8	775.5	791.1	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5
120°	714.0	740.8	757.3	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0
122.5°	683.4	709.8	724.5	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7
125°	645.6	667.2	681.5	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8
127.5°	611.9	632.2	644.5	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1
130°	591.4	610.8	622.2	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7
132.5°	570.4	589.8	600.3	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8
135°	537.2	556.0	566.3	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5
137.5°	504.8	521.0	530.0	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3
140°	482.5	497.3	505.8	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5
142.5°	463.3	476.8	484.4	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1
145°	436.8	446.5	452.2	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1
147.5°	415.2	422.9	426.8	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2
150°	401.5	408.3	411.7	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1
152.5°	390.5	396.5	399.0	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1
155°	376.4	380.4	382.7	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2
157.5°	362.2	365.6	366.6	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1
160°	353.6	356.4	357.0	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0
162.5°	345.8	347.8	348.3	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0
165°	333.0	335.3	335.3	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5
167.5°	322.2	323.5	323.4	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3
170°	315.4	317.1	316.5	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7
172.5°	309.9	310.7	310.1	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6
175°	302.8	303.4	302.8	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1
177.5°	298.4	298.4	297.9	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331431

CATALOG NUMBER: SA2XXDIP-C1005D530U835-4F0-1E-UDD-A4

**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°	11.1	11.8	12.3	12.3	11.5	11.5	11.8	12.2	13.2	13.3	13.6
90°	18.8	19.4	18.8	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6
92.5°	62.6	74.1	73.1	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0
95°	195.6	223.6	197.9	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0
97.5°	400.3	381.6	287.4	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5
100°	532.6	450.5	310.2	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9
102.5°	581.9	452.8	301.6	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4
105°	574.3	422.6	284.6	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6
107.5°	524.2	390.2	276.1	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0
110°	492.7	374.7	274.3	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9



TEST NUMBER: P331431

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	470.8	364.6	274.8	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0
115°	443.7	353.6	277.2	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6
117.5°	426.6	348.2	281.3	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8
120°	417.5	345.0	284.0	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8
122.5°	409.7	343.2	287.2	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4
125°	398.6	339.9	292.0	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1
127.5°	388.4	338.0	296.9	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1
130°	381.5	337.0	300.5	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1
132.5°	376.0	336.6	304.2	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5
135°	368.4	335.9	308.5	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7
137.5°	363.0	335.8	312.4	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5
140°	359.9	335.3	314.2	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4
142.5°	356.7	335.3	315.6	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4
145°	352.4	334.2	317.1	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3
147.5°	348.1	332.1	317.5	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8
150°	344.5	330.8	317.1	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2
152.5°	341.3	328.5	316.2	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6
155°	335.3	324.5	314.8	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6
157.5°	329.7	320.4	312.2	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1
160°	325.6	317.7	310.8	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2
162.5°	322.0	315.4	309.4	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2
165°	315.9	310.8	306.8	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0
167.5°	310.0	306.8	304.2	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8
170°	306.8	304.5	302.8	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0
172.5°	303.6	301.8	301.0	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8
175°	299.4	298.8	298.3	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0
177.5°	297.0	296.5	297.0	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5





TEST NUMBER: P331431

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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°	15.8	18.7	18.9	21.0	20.1	20.7	21.5	21.5	21.0	20.3	19.6
90°	2.3	4.6	5.7	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2
92.5°	10.0	14.1	16.7	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7
95°	22.2	27.9	33.1	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4
97.5°	35.6	41.6	49.4	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7
100°	45.6	50.8	59.9	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7
102.5°	55.7	60.8	69.9	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4
105°	71.9	75.8	84.4	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9
107.5°	87.8	91.7	99.6	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0
110°	99.2	102.7	110.1	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	109.3	113.1	120.1	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3
115°	125.5	128.9	135.7	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8
117.5°	141.1	144.5	150.6	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5
120°	151.1	154.5	159.7	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0
122.5°	160.3	163.7	169.3	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7
125°	172.8	176.2	183.1	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8
127.5°	183.4	188.2	195.7	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1
130°	189.3	195.0	203.0	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7
132.5°	195.3	201.4	209.9	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8
135°	203.0	209.9	218.4	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5
137.5°	211.2	218.1	227.2	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3
140°	216.7	223.6	232.7	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5
142.5°	222.2	228.6	237.7	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1
145°	231.5	237.2	245.8	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1
147.5°	240.5	246.0	253.9	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2
150°	246.9	251.5	258.9	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1
152.5°	252.4	257.0	263.5	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1
155°	261.2	264.6	270.9	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2
157.5°	268.7	271.5	276.9	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1
160°	273.7	276.0	280.6	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0
162.5°	277.8	280.1	283.8	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0
165°	283.4	284.6	288.0	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5
167.5°	288.1	289.1	291.3	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3
170°	290.8	291.4	293.1	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7
172.5°	293.1	292.8	294.5	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6
175°	295.4	294.8	296.0	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1
177.5°	296.1	295.6	296.5	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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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°	20.0	20.2	19.7	19.7	20.3	19.7	19.7
90°	17.1	18.2	18.8	18.8	18.8	18.8	18.8
92.5°	42.7	37.9	34.3	33.9	32.1	32.5	31.6
95°	114.6	90.7	78.1	70.7	66.2	64.4	65.0
97.5°	285.3	223.6	182.4	155.1	141.1	132.8	128.0
100°	450.0	371.8	302.8	255.5	231.0	214.4	204.2
102.5°	617.4	560.3	487.1	435.7	393.8	373.2	359.3
105°	757.3	764.8	745.9	710.6	675.2	650.7	642.7
107.5°	747.1	806.4	834.0	838.4	836.5	831.6	821.0
110°	715.1	788.1	834.9	859.4	870.3	875.4	874.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.3	755.3	808.9	843.0	861.1	870.8	873.9
115°	625.6	700.3	759.1	799.5	825.8	840.6	845.7
117.5°	583.6	651.4	706.5	747.8	775.5	791.1	795.4
120°	561.7	622.2	674.1	714.0	740.8	757.3	763.0
122.5°	543.5	600.7	647.6	683.4	709.8	724.5	729.3
125°	519.5	569.7	612.5	645.6	667.2	681.5	686.1
127.5°	496.3	543.6	583.1	611.9	632.2	644.5	648.2
130°	480.8	525.8	563.4	591.4	610.8	622.2	626.7
132.5°	466.2	507.6	542.9	570.4	589.8	600.3	604.4
135°	443.1	480.8	512.7	537.2	556.0	566.3	568.6
137.5°	424.8	454.6	482.5	504.8	521.0	530.0	533.4
140°	412.9	439.1	464.2	482.5	497.3	505.8	509.3
142.5°	402.4	425.0	446.0	463.3	476.8	484.4	485.1
145°	388.9	406.6	423.2	436.8	446.5	452.2	453.9
147.5°	378.0	391.8	403.9	415.2	422.9	426.8	427.8
150°	370.7	382.7	392.9	401.5	408.3	411.7	412.3
152.5°	364.8	374.9	383.8	390.5	396.5	399.0	399.1
155°	355.3	363.8	370.1	376.4	380.4	382.7	381.5
157.5°	345.7	352.9	357.8	362.2	365.6	366.6	366.6
160°	339.3	345.6	349.6	353.6	356.4	357.0	357.0
162.5°	333.4	338.8	341.8	345.8	347.8	348.3	347.9
165°	324.5	328.5	330.8	333.0	335.3	335.3	334.8
167.5°	316.4	319.1	321.2	322.2	323.5	323.4	322.7
170°	311.4	313.7	314.8	315.4	317.1	316.5	315.4
172.5°	306.8	308.6	309.3	309.9	310.7	310.1	309.4
175°	301.7	302.3	302.8	302.8	303.4	302.8	301.7
177.5°	297.9	298.4	298.4	298.4	298.4	297.9	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5

(END OF REPORT)