

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: P332957

Luminaire Tested: **SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

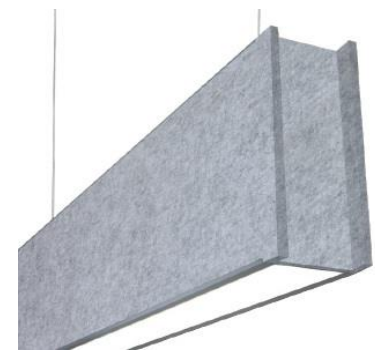
Test Information

Test Method: LM-79-08
Report Number: P332957
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5646.5 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

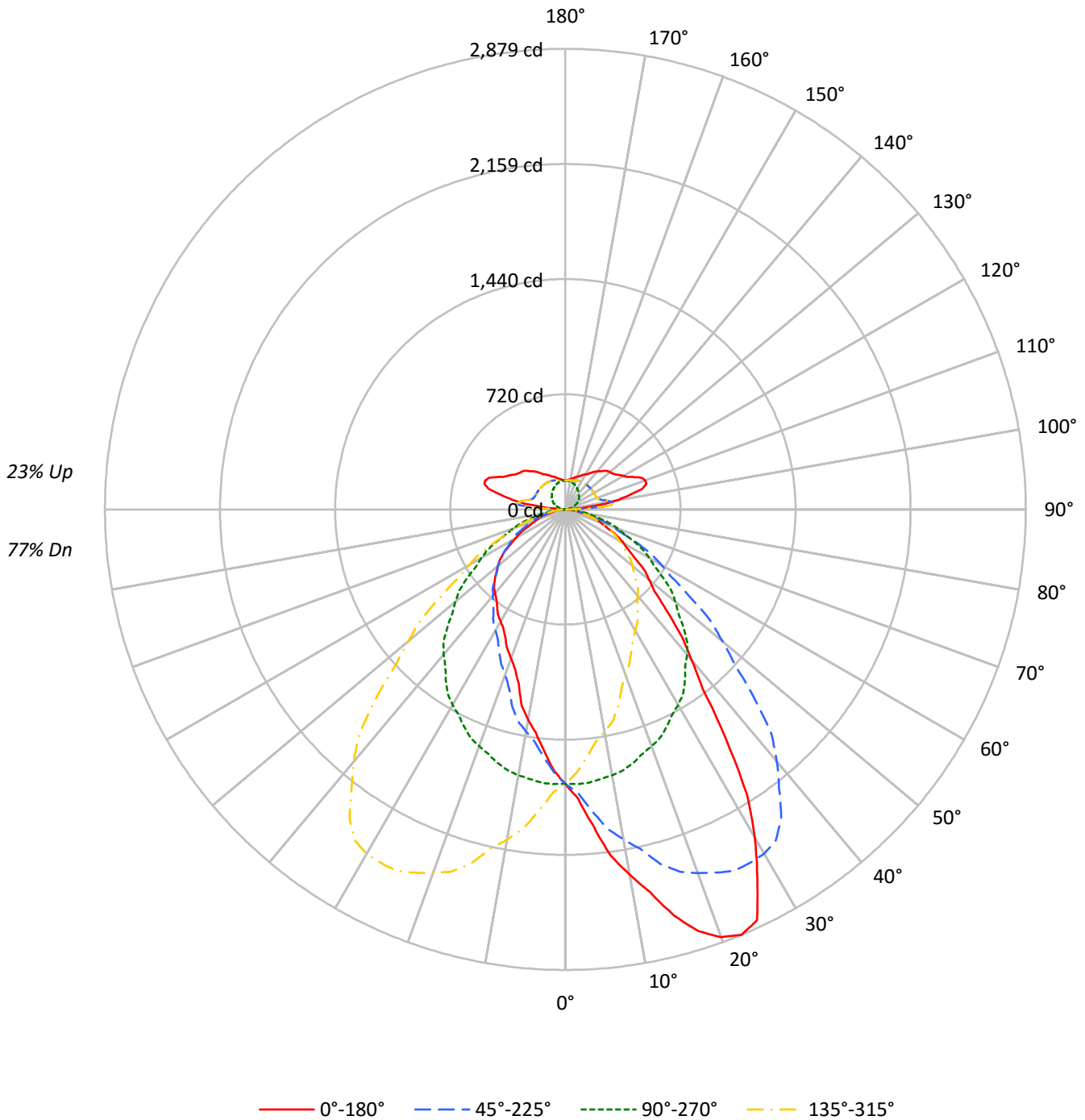
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	105	100	97	93	100	96	92	89	87	85	82	80	78	76	73	71	70	66
2	96	88	82	77	91	85	79	75	77	73	69	71	67	64	65	62	60	57
3	88	78	71	65	84	75	69	63	69	64	59	63	59	55	58	55	52	49
4	81	70	62	56	77	67	60	54	62	56	51	57	52	48	52	48	45	42
5	74	63	55	49	71	60	53	47	56	49	45	51	46	42	47	43	40	37
6	69	57	48	43	66	55	47	42	50	44	39	47	41	37	43	39	35	33
7	64	51	43	38	61	50	42	37	46	40	35	43	37	33	40	35	32	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28	26
9	56	43	36	30	53	42	35	30	39	33	28	36	31	27	34	29	26	24
10	52	40	32	28	50	38	32	27	36	30	26	34	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13852	13852	13852	13852
5°	16067	13893	12280	13893
10°	19007	13833	10960	13833
15°	21956	13705	9417	13705
20°	24445	13529	8516	13529
25°	25235	13356	7906	13356
30°	22091	13147	7539	13147
35°	17196	12835	7318	12835
40°	12895	12480	7198	12480
45°	10182	11910	7134	11910
50°	8596	11252	6929	11252
55°	7492	10528	6557	10528
60°	6741	9778	5804	9778
65°	5943	8967	4991	8967
70°	5351	8127	4504	8127
75°	4485	7202	3840	7202
80°	3794	6137	3598	6137
85°	3205	4798	3205	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.9
10°-20°	501.5	8.9
20°-30°	784.4	13.9
30°-40°	872.0	15.4
40°-50°	773.6	13.7
50°-60°	602.8	10.7
60°-70°	394.7	7.0
70°-80°	194.1	3.4
80°-90°	48.9	0.9
90°-100°	129.9	2.3
100°-110°	270.4	4.8
110°-120°	242.2	4.3
120°-130°	203.7	3.6
130°-140°	169.9	3.0
140°-150°	129.8	2.3
150°-160°	91.2	1.6
160°-170°	53.7	1.0
170°-180°	17.5	0.3
0°-30°	1452.1	25.7
0°-40°	2324.1	41.2
0°-60°	3700.5	65.5
0°-90°	4338.2	76.8
90°-120°	642.6	11.4
90°-150°	1146.0	20.3
90°-180°	1308.0	23.2
0°-180°	5646.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1716	1716	1716	1716	1716	
5°	1983	1714	1515	1714	1983	201
15°	2627	1640	1127	1640	2627	747
25°	2833	1499	888	1499	2833	1257
35°	1745	1302	742	1302	1745	1094
45°	892	1043	625	1043	892	706
55°	532	748	466	748	532	484
65°	311	469	261	469	311	313
75°	144	231	123	231	144	158
85°	35	52	35	52	35	39
90°	7	0	7	0	7	8
95°	86	12	86	12	86	134
105°	497	41	497	41	497	492
115°	478	73	478	73	478	474
125°	381	101	381	101	381	346
135°	341	120	341	120	341	263
145°	278	139	278	139	278	176
155°	233	158	233	158	233	109
165°	203	172	203	172	203	58
175°	183	180	183	180	183	18
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1809.8	1814.8	1809.8	1809.3	1803.8	1802.1	1799.9	1792.7	1779.4	1771.7	1773.3
5°	1982.7	1999.9	1990.3	1988.9	1973.7	1958.5	1948.8	1926.7	1903.2	1887.3	1874.1
7.5°	2182.6	2192.5	2186.5	2176.8	2152.2	2138.2	2115.8	2086.6	2044.5	2012.2	1982.8
10°	2318.6	2326.9	2324.2	2306.2	2288.2	2251.6	2230.8	2190.1	2136.8	2094.7	2055.2
12.5°	2452.5	2461.3	2437.0	2437.8	2403.8	2374.9	2342.0	2290.7	2229.2	2174.8	2125.5
15°	2627.0	2615.9	2615.9	2602.1	2564.0	2524.0	2490.1	2436.2	2358.7	2293.7	2225.3
17.5°	2763.6	2767.4	2761.8	2729.1	2699.3	2657.8	2595.7	2532.8	2460.9	2373.7	2303.7
20°	2845.4	2845.4	2839.2	2817.1	2778.4	2734.1	2667.1	2598.6	2507.4	2419.6	2340.8
22.5°	2878.6	2880.8	2873.5	2855.2	2820.4	2777.2	2720.1	2650.6	2556.6	2457.7	2360.1
25°	2833.0	2846.1	2847.5	2842.6	2832.3	2806.0	2756.9	2685.7	2601.4	2494.2	2389.1
27.5°	2601.0	2617.6	2632.1	2656.0	2687.8	2704.4	2706.6	2670.4	2596.8	2493.7	2387.9
30°	2369.8	2383.6	2428.6	2487.3	2532.9	2574.4	2610.4	2620.0	2578.6	2485.9	2374.6
32.5°	2113.2	2132.0	2176.9	2240.1	2316.1	2386.4	2467.1	2508.3	2507.2	2451.6	2348.6
35°	1744.9	1758.7	1800.2	1866.5	1957.8	2062.2	2190.1	2289.6	2357.3	2352.5	2289.6
37.5°	1407.2	1422.8	1464.7	1519.8	1608.3	1737.5	1861.3	1998.4	2123.7	2194.1	2173.0
40°	1223.6	1224.3	1265.1	1321.8	1404.7	1517.4	1652.2	1804.3	1943.9	2058.0	2080.1
42.5°	1078.7	1078.8	1105.8	1166.9	1226.7	1332.7	1461.4	1612.4	1775.8	1907.6	1966.2
45°	891.8	898.0	920.1	956.8	1003.8	1093.6	1196.6	1337.0	1520.2	1676.4	1773.9
47.5°	755.2	764.3	778.4	808.3	845.7	905.6	990.8	1116.9	1265.9	1437.8	1576.5
50°	684.4	685.8	703.7	720.3	752.8	800.5	875.2	980.3	1117.1	1282.4	1436.5
52.5°	623.6	623.3	634.1	655.1	681.5	718.7	779.0	874.6	996.0	1144.1	1303.2
55°	532.3	535.8	544.1	560.6	580.7	607.0	654.7	726.6	822.0	948.5	1093.0
57.5°	462.9	464.7	471.2	478.2	496.6	515.7	551.5	601.4	681.9	785.5	920.1
60°	417.5	418.2	420.3	430.7	445.2	463.2	487.4	529.5	597.3	692.0	798.5
62.5°	373.3	374.5	377.7	385.3	396.5	409.0	434.3	468.2	524.3	605.2	701.1
65°	311.1	311.8	316.6	319.4	328.4	339.4	358.1	380.9	419.6	487.4	560.0
67.5°	259.9	259.9	260.2	263.9	270.2	277.5	288.7	306.9	336.1	377.7	441.7
70°	226.7	226.7	228.1	230.2	233.7	239.9	246.1	259.9	281.4	315.2	364.3
72.5°	195.8	196.3	197.7	198.1	199.9	205.0	209.6	218.5	234.4	259.9	299.6
75°	143.8	145.9	149.3	152.1	155.5	154.9	159.7	165.2	170.1	185.3	208.1
77.5°	107.0	105.9	106.3	108.7	109.1	109.8	113.2	117.5	121.1	128.3	136.5
80°	81.6	81.6	83.6	84.3	83.6	84.3	87.8	89.9	91.3	94.0	101.6
82.5°	61.7	62.8	62.1	62.8	63.2	63.9	66.8	67.2	68.6	69.7	72.9
85°	34.6	35.3	35.9	34.6	34.6	34.6	35.9	36.6	38.0	37.3	38.7
87.5°	13.7	13.1	13.7	13.7	14.1	13.6	14.1	15.1	13.9	14.5	14.4
90°	7.4	7.4	7.8	7.4	7.1	7.1	6.7	6.4	6.0	6.4	5.7
92.5°	27.2	27.2	28.4	30.3	34.5	41.6	52.2	69.4	93.4	112.1	98.1
95°	86.2	90.8	97.2	108.1	125.5	159.7	207.1	261.9	296.2	288.0	217.4
97.5°	230.5	237.9	248.5	269.7	295.1	332.0	366.6	386.9	372.1	303.4	203.4
100°	324.1	326.9	337.5	359.1	389.8	416.0	433.3	426.2	374.6	284.2	184.5
102.5°	405.5	407.8	419.0	434.6	453.4	464.3	459.3	424.3	353.4	260.1	171.8
105°	497.3	499.4	504.3	507.2	506.5	492.0	457.0	395.8	314.9	231.8	160.8
107.5°	531.3	530.4	526.9	518.8	501.4	469.8	420.6	355.5	283.8	216.0	158.8
110°	531.9	528.7	522.4	507.5	482.4	443.6	392.3	331.2	268.3	210.6	159.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	515.2	510.1	501.2	483.2	454.7	415.8	367.4	313.3	259.5	208.1	161.1
115°	477.5	474.7	463.3	442.1	414.2	380.3	338.9	295.5	251.3	206.8	164.3
117.5°	439.2	437.0	425.6	407.8	384.0	355.2	322.7	286.7	247.6	206.4	167.8
120°	417.8	413.9	404.7	389.1	369.0	343.9	315.6	282.7	245.6	206.4	170.4
122.5°	400.8	396.9	389.1	375.8	358.8	336.8	311.1	279.3	243.4	206.1	172.9
125°	381.0	378.9	372.2	361.9	347.8	328.3	303.9	273.6	239.6	205.7	176.7
127.5°	369.4	367.3	361.6	352.5	338.3	319.9	295.5	266.5	234.6	204.9	179.8
130°	362.6	360.5	354.8	346.0	331.5	312.8	288.8	260.8	231.5	204.6	182.0
132.5°	355.0	352.9	347.5	337.5	323.3	304.6	281.1	254.9	228.7	204.4	184.0
135°	340.7	338.6	332.9	323.0	308.9	291.2	269.7	246.7	224.4	203.9	187.0
137.5°	323.0	320.5	315.8	306.1	292.8	276.9	258.7	239.3	220.8	203.9	188.7
140°	310.3	307.5	302.5	294.8	282.4	267.5	251.6	235.0	218.8	203.6	190.1
142.5°	296.7	294.8	290.4	283.2	272.2	259.3	245.7	231.1	217.1	203.6	191.3
145°	278.1	276.4	272.8	266.8	258.0	248.1	237.5	225.5	214.2	202.9	191.9
147.5°	261.7	261.0	258.4	253.2	246.7	238.9	230.4	220.9	211.6	201.6	192.3
150°	252.3	252.0	249.9	245.3	239.6	233.3	226.2	218.1	209.6	200.7	192.3
152.5°	243.9	243.5	242.2	238.5	233.7	228.5	222.0	215.0	207.3	199.3	191.7
155°	232.9	232.9	231.8	229.0	225.5	221.2	215.9	210.3	203.9	197.2	190.9
157.5°	223.3	223.3	222.7	220.5	217.9	214.5	210.0	205.3	200.5	195.0	189.9
160°	217.4	217.4	217.0	214.9	212.8	209.9	206.0	202.2	197.9	193.3	189.1
162.5°	211.7	212.0	211.6	209.5	208.0	205.4	202.4	199.1	195.7	191.6	188.2
165°	203.2	203.6	203.9	202.5	201.1	199.3	196.9	194.7	191.9	189.1	186.6
167.5°	196.5	196.8	196.9	195.9	195.2	194.2	192.2	190.6	188.5	186.5	184.9
170°	192.3	192.3	192.6	192.3	191.6	190.5	189.1	188.0	186.3	184.8	183.8
172.5°	188.0	188.6	188.9	188.6	188.2	187.4	186.5	185.8	184.3	183.1	182.7
175°	183.1	183.8	184.5	183.8	183.8	183.8	183.1	182.7	182.0	181.3	181.3
177.5°	180.2	180.7	181.3	181.0	181.3	181.0	181.0	180.7	180.5	180.2	180.2
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1767.8	1760.1	1756.2	1747.3	1736.8	1731.3	1726.3	1719.1	1709.7	1699.8	1692.6
5°	1857.5	1840.9	1820.2	1795.3	1773.2	1751.8	1733.1	1714.4	1693.0	1670.9	1648.8
7.5°	1949.6	1917.0	1881.7	1840.9	1801.3	1765.2	1732.0	1700.2	1664.2	1632.0	1602.7
10°	2013.8	1969.5	1920.4	1868.6	1816.7	1771.8	1727.6	1687.5	1643.2	1603.8	1570.6
12.5°	2065.8	2013.8	1954.7	1890.2	1827.8	1773.5	1722.6	1670.3	1620.0	1577.3	1533.0
15°	2152.0	2080.8	2001.3	1923.9	1843.0	1769.0	1700.6	1639.8	1582.4	1522.3	1480.1
17.5°	2211.3	2126.9	2030.2	1937.2	1841.6	1754.4	1675.4	1603.0	1536.8	1475.4	1425.2
20°	2246.7	2153.4	2046.3	1940.5	1833.3	1740.0	1655.0	1574.8	1506.4	1440.0	1388.1
22.5°	2266.6	2163.4	2046.3	1935.5	1824.5	1723.4	1630.1	1546.6	1472.1	1405.7	1348.3
25°	2273.0	2162.4	2042.8	1915.6	1793.9	1686.8	1590.0	1499.4	1416.5	1350.1	1289.3
27.5°	2264.2	2133.9	2011.4	1880.9	1755.4	1642.4	1540.8	1445.7	1362.6	1291.4	1229.0
30°	2250.9	2111.2	1979.9	1844.4	1717.2	1608.7	1501.5	1410.3	1323.8	1249.9	1187.0
32.5°	2222.1	2083.6	1942.3	1803.5	1674.6	1562.8	1461.1	1369.3	1284.6	1209.0	1142.2
35°	2165.2	2024.8	1871.4	1729.0	1602.4	1486.3	1390.9	1302.4	1221.5	1140.7	1070.1
37.5°	2090.1	1946.7	1794.1	1638.1	1511.5	1401.8	1314.3	1231.2	1152.3	1078.4	1000.3
40°	2019.3	1888.6	1731.0	1576.2	1446.2	1340.4	1259.6	1184.2	1104.7	1031.4	953.3
42.5°	1933.6	1822.3	1663.0	1507.6	1379.3	1277.4	1202.0	1128.3	1056.0	985.0	903.5
45°	1790.5	1706.1	1556.8	1407.5	1278.2	1177.3	1108.2	1043.2	979.6	911.8	835.1
47.5°	1626.5	1569.4	1440.5	1287.6	1168.0	1077.2	1010.4	957.3	903.5	835.8	768.5
50°	1512.6	1475.9	1351.5	1211.9	1097.8	1014.1	945.7	895.9	851.0	786.0	725.9
52.5°	1390.9	1371.4	1266.3	1132.8	1022.6	940.6	882.1	837.3	791.8	737.9	681.6
55°	1205.6	1216.0	1126.8	1011.4	907.7	838.6	785.3	748.0	709.3	663.7	620.1
57.5°	1016.2	1054.1	994.2	892.9	795.7	731.8	691.7	660.3	627.8	590.0	552.8
60°	902.8	934.6	900.8	811.6	726.6	667.1	629.8	605.6	573.1	538.5	510.2
62.5°	792.2	826.2	806.2	734.2	655.2	604.1	571.2	548.6	524.4	494.3	464.8
65°	653.3	675.4	665.7	616.0	560.0	516.4	486.0	469.4	447.3	425.2	398.9
67.5°	500.4	543.1	537.4	511.0	462.6	428.6	408.7	394.0	373.9	357.4	339.6
70°	411.3	450.7	450.0	428.6	402.3	370.5	356.7	344.3	326.3	310.4	295.9
72.5°	336.7	372.8	378.1	361.7	343.7	319.7	306.4	297.8	280.4	269.5	257.7
75°	235.7	262.0	268.9	268.9	260.6	248.2	236.4	230.9	218.5	208.8	201.9
77.5°	154.6	171.2	182.0	184.4	185.7	181.5	171.9	168.0	158.4	155.0	148.4
80°	109.2	120.3	132.7	136.9	140.3	139.0	134.8	132.0	123.1	119.6	116.8
82.5°	75.5	81.6	91.8	100.9	100.0	103.6	100.0	97.8	91.0	89.7	87.0
85°	39.4	40.1	41.5	47.7	51.2	52.5	53.2	51.8	49.8	49.8	44.9
87.5°	14.3	13.7	14.4	14.4	14.9	17.0	18.5	18.9	17.4	15.9	14.3
90°	4.9	4.9	2.8	2.8	2.5	2.1	1.1	0.4	1.1	2.1	2.5
92.5°	71.4	44.0	26.0	18.7	13.5	9.2	5.9	4.0	5.9	9.2	13.5
95°	132.9	74.9	44.2	29.3	20.9	16.3	12.7	11.7	12.7	16.3	20.9
97.5°	119.5	71.6	47.9	35.5	28.2	24.0	20.9	20.9	20.9	24.0	28.2
100°	112.4	72.5	51.6	40.3	33.6	29.3	26.9	26.9	26.9	29.3	33.6
102.5°	110.4	75.3	56.4	45.7	39.2	35.3	33.1	32.5	33.1	35.3	39.2
105°	111.3	82.0	65.0	54.8	48.4	44.2	42.4	41.4	42.4	44.2	48.4
107.5°	116.6	89.8	74.3	64.2	58.1	53.6	51.8	51.1	51.8	53.6	58.1
110°	120.5	95.8	80.2	70.7	64.3	60.1	58.3	57.6	58.3	60.1	64.3



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.8	101.4	86.4	76.9	70.5	66.6	64.5	63.8	64.5	66.6	70.5
115°	131.5	110.3	96.1	86.6	79.9	76.3	73.9	72.8	73.9	76.3	79.9
117.5°	138.3	118.8	105.4	95.5	89.2	85.3	83.1	82.1	83.1	85.3	89.2
120°	143.1	124.8	111.3	101.4	95.4	91.5	89.1	88.4	89.1	91.5	95.4
122.5°	147.7	130.4	117.0	107.4	100.8	97.2	94.7	94.0	94.7	97.2	100.8
125°	154.4	138.2	125.5	115.6	108.9	105.0	102.8	101.4	102.8	105.0	108.9
127.5°	160.3	145.4	133.1	123.1	116.1	111.7	109.1	108.0	109.1	111.7	116.1
130°	164.0	150.2	138.2	127.9	121.2	115.9	113.1	111.7	113.1	115.9	121.2
132.5°	167.7	154.2	142.1	132.5	125.2	120.2	116.5	115.4	116.5	120.2	125.2
135°	172.5	159.7	148.1	138.9	131.5	125.5	121.9	120.5	121.9	125.5	131.5
137.5°	175.9	164.0	153.1	144.3	136.6	130.9	127.0	125.7	127.0	130.9	136.6
140°	178.1	166.8	156.2	147.7	140.3	134.3	130.4	129.4	130.4	134.3	140.3
142.5°	179.8	169.4	159.0	150.8	143.7	138.0	134.4	133.3	134.4	138.0	143.7
145°	181.7	172.1	162.9	155.2	148.4	143.5	140.0	138.9	140.0	143.5	148.4
147.5°	183.3	174.9	166.3	159.3	153.7	148.7	145.5	145.2	145.5	148.7	153.7
150°	184.1	176.4	168.6	161.9	156.6	152.3	149.5	149.1	149.5	152.3	156.6
152.5°	184.7	177.5	170.6	164.4	159.7	155.7	152.9	152.8	152.9	155.7	159.7
155°	185.2	179.2	173.2	167.9	164.0	160.5	158.3	158.0	158.3	160.5	164.0
157.5°	185.2	180.4	175.3	171.1	167.7	165.0	163.0	163.0	163.0	165.0	167.7
160°	185.2	181.0	176.7	172.8	170.0	167.5	166.1	166.1	166.1	167.5	170.0
162.5°	185.2	181.5	177.6	174.5	172.0	169.8	168.7	168.9	168.7	169.8	172.0
165°	184.5	181.7	178.5	176.4	174.6	172.8	172.1	172.1	172.1	172.8	174.6
167.5°	183.6	181.6	179.3	177.6	176.6	175.3	174.9	175.3	174.9	175.3	176.6
170°	183.1	181.3	179.5	178.5	177.8	176.7	176.4	176.7	176.4	176.7	177.8
172.5°	182.5	181.0	179.8	179.0	178.6	177.8	177.8	178.1	177.8	177.8	178.6
175°	181.7	180.6	179.9	179.9	179.5	179.2	179.2	179.5	179.2	179.2	179.5
177.5°	180.7	180.2	179.9	179.9	179.9	179.6	179.9	180.2	179.9	179.6	179.9
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1684.8	1679.3	1672.1	1663.8	1653.9	1645.0	1641.2	1644.5	1646.1	1641.7	1641.2
5°	1633.6	1616.3	1602.4	1581.7	1565.1	1551.3	1541.6	1537.5	1538.8	1527.8	1525.0
7.5°	1575.9	1555.4	1532.8	1508.1	1485.2	1464.9	1454.2	1448.4	1436.7	1431.7	1423.3
10°	1538.8	1511.2	1489.1	1460.0	1433.8	1409.6	1397.8	1388.1	1376.4	1370.9	1359.1
12.5°	1500.7	1468.6	1444.3	1414.1	1387.3	1358.1	1346.9	1329.0	1310.6	1299.0	1283.9
15°	1446.9	1408.2	1378.5	1342.5	1310.7	1277.5	1247.8	1214.6	1202.2	1175.9	1160.7
17.5°	1384.0	1344.7	1307.9	1259.7	1210.6	1169.4	1137.7	1105.9	1086.9	1070.1	1062.4
20°	1342.5	1306.6	1255.4	1199.4	1144.8	1099.2	1073.6	1052.9	1032.1	1020.4	1012.1
22.5°	1303.2	1257.3	1197.9	1137.5	1082.9	1047.2	1025.5	1004.2	987.3	976.1	965.1
25°	1237.4	1177.3	1114.4	1045.3	1007.9	976.8	953.3	936.0	925.7	911.1	905.6
27.5°	1169.8	1097.0	1027.6	981.1	942.2	913.8	893.3	880.3	867.2	857.9	850.7
30°	1117.8	1043.9	981.7	937.4	898.0	874.5	857.9	842.7	832.3	824.7	819.2
32.5°	1066.4	992.4	940.2	892.6	861.5	838.6	820.9	809.5	801.4	791.5	788.2
35°	992.0	926.3	880.7	837.9	806.1	785.3	771.5	759.7	752.8	750.1	748.0
37.5°	920.5	866.8	817.7	782.6	754.2	737.9	721.6	715.8	711.1	706.1	708.3
40°	875.2	824.7	781.2	743.8	721.0	703.1	693.4	686.5	682.3	682.3	682.3
42.5°	835.9	786.6	744.1	710.7	687.8	672.6	661.9	656.0	654.7	654.1	657.4
45°	775.0	729.3	686.5	658.8	639.5	624.2	618.0	613.2	613.2	616.0	616.6
47.5°	714.5	671.8	637.4	606.4	588.7	579.2	573.8	571.3	571.6	574.3	577.5
50°	677.5	635.3	601.4	573.8	557.2	548.2	543.4	542.0	543.4	543.4	548.2
52.5°	637.1	599.4	566.0	542.8	524.0	515.6	512.9	511.0	511.8	514.1	516.1
55°	577.9	544.1	512.3	490.1	476.3	470.8	464.6	465.2	463.9	465.2	465.2
57.5°	518.6	488.2	458.6	441.1	428.9	420.9	414.1	416.0	414.0	413.7	412.6
60°	480.5	447.3	423.8	407.9	394.0	387.1	380.9	382.3	380.2	378.8	376.1
62.5°	439.0	411.3	388.9	373.6	362.5	354.5	348.3	346.9	342.1	337.4	331.3
65°	378.8	356.0	336.0	321.5	311.1	304.9	300.0	295.9	285.5	274.4	268.9
67.5°	320.4	303.9	285.2	272.9	264.5	256.3	247.1	240.0	230.3	224.3	220.8
70°	282.7	266.8	250.9	239.2	230.2	222.6	212.2	207.4	200.5	197.7	194.3
72.5°	246.8	232.0	217.2	206.6	197.0	191.1	182.9	178.1	175.0	173.9	170.5
75°	192.2	180.4	169.4	159.7	152.1	147.9	144.5	141.0	139.6	133.4	130.0
77.5°	140.2	132.5	125.5	118.6	113.2	110.5	103.8	99.8	97.5	94.6	93.9
80°	109.2	103.7	96.8	92.6	85.0	82.3	79.5	78.8	78.1	77.4	76.7
82.5°	82.1	76.6	69.7	67.2	65.1	63.5	61.8	61.1	60.4	60.8	60.7
85°	41.5	38.7	38.7	38.0	37.3	36.6	35.9	35.9	35.3	35.9	35.3
87.5°	14.4	13.8	14.3	13.2	13.9	14.0	13.4	13.4	14.1	13.0	13.0
90°	2.8	2.8	4.9	4.9	5.7	6.4	6.0	6.4	6.7	7.1	7.1
92.5°	18.7	26.0	44.0	71.4	98.1	112.1	93.4	69.4	52.2	41.6	34.5
95°	29.3	44.2	74.9	132.9	217.4	288.0	296.2	261.9	207.1	159.7	125.5
97.5°	35.5	47.9	71.6	119.5	203.4	303.4	372.1	386.9	366.6	332.0	295.1
100°	40.3	51.6	72.5	112.4	184.5	284.2	374.6	426.2	433.3	416.0	389.8
102.5°	45.7	56.4	75.3	110.4	171.8	260.1	353.4	424.3	459.3	464.3	453.4
105°	54.8	65.0	82.0	111.3	160.8	231.8	314.9	395.8	457.0	492.0	506.5
107.5°	64.2	74.3	89.8	116.6	158.8	216.0	283.8	355.5	420.6	469.8	501.4
110°	70.7	80.2	95.8	120.5	159.4	210.6	268.3	331.2	392.3	443.6	482.4



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.9	86.4	101.4	124.8	161.1	208.1	259.5	313.3	367.4	415.8	454.7
115°	86.6	96.1	110.3	131.5	164.3	206.8	251.3	295.5	338.9	380.3	414.2
117.5°	95.5	105.4	118.8	138.3	167.8	206.4	247.6	286.7	322.7	355.2	384.0
120°	101.4	111.3	124.8	143.1	170.4	206.4	245.6	282.7	315.6	343.9	369.0
122.5°	107.4	117.0	130.4	147.7	172.9	206.1	243.4	279.3	311.1	336.8	358.8
125°	115.6	125.5	138.2	154.4	176.7	205.7	239.6	273.6	303.9	328.3	347.8
127.5°	123.1	133.1	145.4	160.3	179.8	204.9	234.6	266.5	295.5	319.9	338.3
130°	127.9	138.2	150.2	164.0	182.0	204.6	231.5	260.8	288.8	312.8	331.5
132.5°	132.5	142.1	154.2	167.7	184.0	204.4	228.7	254.9	281.1	304.6	323.3
135°	138.9	148.1	159.7	172.5	187.0	203.9	224.4	246.7	269.7	291.2	308.9
137.5°	144.3	153.1	164.0	175.9	188.7	203.9	220.8	239.3	258.7	276.9	292.8
140°	147.7	156.2	166.8	178.1	190.1	203.6	218.8	235.0	251.6	267.5	282.4
142.5°	150.8	159.0	169.4	179.8	191.3	203.6	217.1	231.1	245.7	259.3	272.2
145°	155.2	162.9	172.1	181.7	191.9	202.9	214.2	225.5	237.5	248.1	258.0
147.5°	159.3	166.3	174.9	183.3	192.3	201.6	211.6	220.9	230.4	238.9	246.7
150°	161.9	168.6	176.4	184.1	192.3	200.7	209.6	218.1	226.2	233.3	239.6
152.5°	164.4	170.6	177.5	184.7	191.7	199.3	207.3	215.0	222.0	228.5	233.7
155°	167.9	173.2	179.2	185.2	190.9	197.2	203.9	210.3	215.9	221.2	225.5
157.5°	171.1	175.3	180.4	185.2	189.9	195.0	200.5	205.3	210.0	214.5	217.9
160°	172.8	176.7	181.0	185.2	189.1	193.3	197.9	202.2	206.0	209.9	212.8
162.5°	174.5	177.6	181.5	185.2	188.2	191.6	195.7	199.1	202.4	205.4	208.0
165°	176.4	178.5	181.7	184.5	186.6	189.1	191.9	194.7	196.9	199.3	201.1
167.5°	177.6	179.3	181.6	183.6	184.9	186.5	188.5	190.6	192.2	194.2	195.2
170°	178.5	179.5	181.3	183.1	183.8	184.8	186.3	188.0	189.1	190.5	191.6
172.5°	179.0	179.8	181.0	182.5	182.7	183.1	184.3	185.8	186.5	187.4	188.2
175°	179.9	179.9	180.6	181.7	181.3	181.3	182.0	182.7	183.1	183.8	183.8
177.5°	179.9	179.9	180.2	180.7	180.2	180.2	180.5	180.7	181.0	181.0	181.3
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1637.8	1638.9	1635.1	1634.0	1635.1	1638.9	1637.8	1641.2	1641.7	1646.1	1644.5
5°	1519.5	1518.1	1514.6	1515.3	1514.6	1518.1	1519.5	1525.0	1527.8	1538.8	1537.5
7.5°	1418.3	1412.9	1414.4	1408.9	1414.4	1412.9	1418.3	1423.3	1431.7	1436.7	1448.4
10°	1356.3	1348.7	1342.5	1337.0	1342.5	1348.7	1356.3	1359.1	1370.9	1376.4	1388.1
12.5°	1271.7	1265.2	1256.8	1258.5	1256.8	1265.2	1271.7	1283.9	1299.0	1310.6	1329.0
15°	1151.7	1141.3	1124.8	1126.8	1124.8	1141.3	1151.7	1160.7	1175.9	1202.2	1214.6
17.5°	1050.1	1050.2	1042.6	1044.4	1042.6	1050.2	1050.1	1062.4	1070.1	1086.9	1105.9
20°	997.6	992.7	993.4	991.3	993.4	992.7	997.6	1012.1	1020.4	1032.1	1052.9
22.5°	961.1	955.1	950.3	946.0	950.3	955.1	961.1	965.1	976.1	987.3	1004.2
25°	899.4	895.2	889.0	887.6	889.0	895.2	899.4	905.6	911.1	925.7	936.0
27.5°	845.2	844.4	841.9	838.7	841.9	844.4	845.2	850.7	857.9	867.2	880.3
30°	813.7	812.3	810.9	808.8	810.9	812.3	813.7	819.2	824.7	832.3	842.7
32.5°	785.5	784.6	783.2	783.4	783.2	784.6	785.5	788.2	791.5	801.4	809.5
35°	745.2	744.5	743.2	742.5	743.2	744.5	745.2	748.0	750.1	752.8	759.7
37.5°	707.6	709.4	708.6	708.4	708.6	709.4	707.6	708.3	706.1	711.1	715.8
40°	681.6	682.3	683.7	683.0	683.7	682.3	681.6	682.3	682.3	682.3	686.5
42.5°	660.1	660.2	662.1	659.8	662.1	660.2	660.1	657.4	654.1	654.7	656.0
45°	621.5	625.6	624.9	624.9	624.9	625.6	621.5	616.6	616.0	613.2	613.2
47.5°	579.3	582.9	583.9	583.7	583.9	582.9	579.3	577.5	574.3	571.6	571.3
50°	551.7	550.3	552.4	551.7	552.4	550.3	551.7	548.2	543.4	543.4	542.0
52.5°	517.9	518.2	518.1	517.4	518.1	518.2	517.9	516.1	514.1	511.8	511.0
55°	465.9	466.6	465.2	465.9	465.2	466.6	465.9	465.2	465.2	463.9	465.2
57.5°	409.5	406.2	407.6	405.9	407.6	406.2	409.5	412.6	413.7	414.0	416.0
60°	369.2	363.6	362.2	359.5	362.2	363.6	369.2	376.1	378.8	380.2	382.3
62.5°	323.8	319.9	315.2	317.4	315.2	319.9	323.8	331.3	337.4	342.1	346.9
65°	263.4	260.6	258.5	261.3	258.5	260.6	263.4	268.9	274.4	285.5	295.9
67.5°	218.0	216.5	216.5	215.1	216.5	216.5	218.0	220.8	224.3	230.3	240.0
70°	194.3	192.2	192.2	190.8	192.2	192.2	194.3	194.3	197.7	200.5	207.4
72.5°	169.9	167.8	168.4	167.6	168.4	167.8	169.9	170.5	173.9	175.0	178.1
75°	125.8	122.4	122.4	123.1	122.4	122.4	125.8	130.0	133.4	139.6	141.0
77.5°	93.9	93.2	94.2	92.9	94.2	93.2	93.9	93.9	94.6	97.5	99.8
80°	76.7	76.0	75.4	77.4	75.4	76.0	76.7	76.7	77.4	78.1	78.8
82.5°	59.6	59.5	59.3	61.9	59.3	59.5	59.6	60.7	60.8	60.4	61.1
85°	35.9	34.6	35.9	34.6	35.9	34.6	35.9	35.3	35.9	35.3	35.9
87.5°	14.2	13.7	13.1	13.7	13.1	13.7	14.2	13.0	13.0	14.1	13.4
90°	7.4	7.8	7.4	7.4	7.4	7.8	7.4	7.1	7.1	6.7	6.4
92.5°	30.3	28.4	27.2	27.2	27.2	28.4	30.3	34.5	41.6	52.2	69.4
95°	108.1	97.2	90.8	86.2	90.8	97.2	108.1	125.5	159.7	207.1	261.9
97.5°	269.7	248.5	237.9	230.5	237.9	248.5	269.7	295.1	332.0	366.6	386.9
100°	359.1	337.5	326.9	324.1	326.9	337.5	359.1	389.8	416.0	433.3	426.2
102.5°	434.6	419.0	407.8	405.5	407.8	419.0	434.6	453.4	464.3	459.3	424.3
105°	507.2	504.3	499.4	497.3	499.4	504.3	507.2	506.5	492.0	457.0	395.8
107.5°	518.8	526.9	530.4	531.3	530.4	526.9	518.8	501.4	469.8	420.6	355.5
110°	507.5	522.4	528.7	531.9	528.7	522.4	507.5	482.4	443.6	392.3	331.2



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	483.2	501.2	510.1	515.2	510.1	501.2	483.2	454.7	415.8	367.4	313.3
115°	442.1	463.3	474.7	477.5	474.7	463.3	442.1	414.2	380.3	338.9	295.5
117.5°	407.8	425.6	437.0	439.2	437.0	425.6	407.8	384.0	355.2	322.7	286.7
120°	389.1	404.7	413.9	417.8	413.9	404.7	389.1	369.0	343.9	315.6	282.7
122.5°	375.8	389.1	396.9	400.8	396.9	389.1	375.8	358.8	336.8	311.1	279.3
125°	361.9	372.2	378.9	381.0	378.9	372.2	361.9	347.8	328.3	303.9	273.6
127.5°	352.5	361.6	367.3	369.4	367.3	361.6	352.5	338.3	319.9	295.5	266.5
130°	346.0	354.8	360.5	362.6	360.5	354.8	346.0	331.5	312.8	288.8	260.8
132.5°	337.5	347.5	352.9	355.0	352.9	347.5	337.5	323.3	304.6	281.1	254.9
135°	323.0	332.9	338.6	340.7	338.6	332.9	323.0	308.9	291.2	269.7	246.7
137.5°	306.1	315.8	320.5	323.0	320.5	315.8	306.1	292.8	276.9	258.7	239.3
140°	294.8	302.5	307.5	310.3	307.5	302.5	294.8	282.4	267.5	251.6	235.0
142.5°	283.2	290.4	294.8	296.7	294.8	290.4	283.2	272.2	259.3	245.7	231.1
145°	266.8	272.8	276.4	278.1	276.4	272.8	266.8	258.0	248.1	237.5	225.5
147.5°	253.2	258.4	261.0	261.7	261.0	258.4	253.2	246.7	238.9	230.4	220.9
150°	245.3	249.9	252.0	252.3	252.0	249.9	245.3	239.6	233.3	226.2	218.1
152.5°	238.5	242.2	243.5	243.9	243.5	242.2	238.5	233.7	228.5	222.0	215.0
155°	229.0	231.8	232.9	232.9	232.9	231.8	229.0	225.5	221.2	215.9	210.3
157.5°	220.5	222.7	223.3	223.3	223.3	222.7	220.5	217.9	214.5	210.0	205.3
160°	214.9	217.0	217.4	217.4	217.4	217.0	214.9	212.8	209.9	206.0	202.2
162.5°	209.5	211.6	212.0	211.7	212.0	211.6	209.5	208.0	205.4	202.4	199.1
165°	202.5	203.9	203.6	203.2	203.6	203.9	202.5	201.1	199.3	196.9	194.7
167.5°	195.9	196.9	196.8	196.5	196.8	196.9	195.9	195.2	194.2	192.2	190.6
170°	192.3	192.6	192.3	192.3	192.3	192.6	192.3	191.6	190.5	189.1	188.0
172.5°	188.6	188.9	188.6	188.0	188.6	188.9	188.6	188.2	187.4	186.5	185.8
175°	183.8	184.5	183.8	183.1	183.8	184.5	183.8	183.8	183.8	183.1	182.7
177.5°	181.0	181.3	180.7	180.2	180.7	181.3	181.0	181.3	181.0	181.0	180.7
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1641.2	1645.0	1653.9	1663.8	1672.1	1679.3	1684.8	1692.6	1699.8	1709.7	1719.1
5°	1541.6	1551.3	1565.1	1581.7	1602.4	1616.3	1633.6	1648.8	1670.9	1693.0	1714.4
7.5°	1454.2	1464.9	1485.2	1508.1	1532.8	1555.4	1575.9	1602.7	1632.0	1664.2	1700.2
10°	1397.8	1409.6	1433.8	1460.0	1489.1	1511.2	1538.8	1570.6	1603.8	1643.2	1687.5
12.5°	1346.9	1358.1	1387.3	1414.1	1444.3	1468.6	1500.7	1533.0	1577.3	1620.0	1670.3
15°	1247.8	1277.5	1310.7	1342.5	1378.5	1408.2	1446.9	1480.1	1522.3	1582.4	1639.8
17.5°	1137.7	1169.4	1210.6	1259.7	1307.9	1344.7	1384.0	1425.2	1475.4	1536.8	1603.0
20°	1073.6	1099.2	1144.8	1199.4	1255.4	1306.6	1342.5	1388.1	1440.0	1506.4	1574.8
22.5°	1025.5	1047.2	1082.9	1137.5	1197.9	1257.3	1303.2	1348.3	1405.7	1472.1	1546.6
25°	953.3	976.8	1007.9	1045.3	1114.4	1177.3	1237.4	1289.3	1350.1	1416.5	1499.4
27.5°	893.3	913.8	942.2	981.1	1027.6	1097.0	1169.8	1229.0	1291.4	1362.6	1445.7
30°	857.9	874.5	898.0	937.4	981.7	1043.9	1117.8	1187.0	1249.9	1323.8	1410.3
32.5°	820.9	838.6	861.5	892.6	940.2	992.4	1066.4	1142.2	1209.0	1284.6	1369.3
35°	771.5	785.3	806.1	837.9	880.7	926.3	992.0	1070.1	1140.7	1221.5	1302.4
37.5°	721.6	737.9	754.2	782.6	817.7	866.8	920.5	1000.3	1078.4	1152.3	1231.2
40°	693.4	703.1	721.0	743.8	781.2	824.7	875.2	953.3	1031.4	1104.7	1184.2
42.5°	661.9	672.6	687.8	710.7	744.1	786.6	835.9	903.5	985.0	1056.0	1128.3
45°	618.0	624.2	639.5	658.8	686.5	729.3	775.0	835.1	911.8	979.6	1043.2
47.5°	573.8	579.2	588.7	606.4	637.4	671.8	714.5	768.5	835.8	903.5	957.3
50°	543.4	548.2	557.2	573.8	601.4	635.3	677.5	725.9	786.0	851.0	895.9
52.5°	512.9	515.6	524.0	542.8	566.0	599.4	637.1	681.6	737.9	791.8	837.3
55°	464.6	470.8	476.3	490.1	512.3	544.1	577.9	620.1	663.7	709.3	748.0
57.5°	414.1	420.9	428.9	441.1	458.6	488.2	518.6	552.8	590.0	627.8	660.3
60°	380.9	387.1	394.0	407.9	423.8	447.3	480.5	510.2	538.5	573.1	605.6
62.5°	348.3	354.5	362.5	373.6	388.9	411.3	439.0	464.8	494.3	524.4	548.6
65°	300.0	304.9	311.1	321.5	336.0	356.0	378.8	398.9	425.2	447.3	469.4
67.5°	247.1	256.3	264.5	272.9	285.2	303.9	320.4	339.6	357.4	373.9	394.0
70°	212.2	222.6	230.2	239.2	250.9	266.8	282.7	295.9	310.4	326.3	344.3
72.5°	182.9	191.1	197.0	206.6	217.2	232.0	246.8	257.7	269.5	280.4	297.8
75°	144.5	147.9	152.1	159.7	169.4	180.4	192.2	201.9	208.8	218.5	230.9
77.5°	103.8	110.5	113.2	118.6	125.5	132.5	140.2	148.4	155.0	158.4	168.0
80°	79.5	82.3	85.0	92.6	96.8	103.7	109.2	116.8	119.6	123.1	132.0
82.5°	61.8	63.5	65.1	67.2	69.7	76.6	82.1	87.0	89.7	91.0	97.8
85°	35.9	36.6	37.3	38.0	38.7	38.7	41.5	44.9	49.8	49.8	51.8
87.5°	13.4	14.0	13.9	13.2	14.3	13.8	14.4	14.3	15.9	17.4	18.9
90°	6.0	6.4	5.7	4.9	4.9	2.8	2.8	2.5	2.1	1.1	0.4
92.5°	93.4	112.1	98.1	71.4	44.0	26.0	18.7	13.5	9.2	5.9	4.0
95°	296.2	288.0	217.4	132.9	74.9	44.2	29.3	20.9	16.3	12.7	11.7
97.5°	372.1	303.4	203.4	119.5	71.6	47.9	35.5	28.2	24.0	20.9	20.9
100°	374.6	284.2	184.5	112.4	72.5	51.6	40.3	33.6	29.3	26.9	26.9
102.5°	353.4	260.1	171.8	110.4	75.3	56.4	45.7	39.2	35.3	33.1	32.5
105°	314.9	231.8	160.8	111.3	82.0	65.0	54.8	48.4	44.2	42.4	41.4
107.5°	283.8	216.0	158.8	116.6	89.8	74.3	64.2	58.1	53.6	51.8	51.1
110°	268.3	210.6	159.4	120.5	95.8	80.2	70.7	64.3	60.1	58.3	57.6



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	259.5	208.1	161.1	124.8	101.4	86.4	76.9	70.5	66.6	64.5	63.8
115°	251.3	206.8	164.3	131.5	110.3	96.1	86.6	79.9	76.3	73.9	72.8
117.5°	247.6	206.4	167.8	138.3	118.8	105.4	95.5	89.2	85.3	83.1	82.1
120°	245.6	206.4	170.4	143.1	124.8	111.3	101.4	95.4	91.5	89.1	88.4
122.5°	243.4	206.1	172.9	147.7	130.4	117.0	107.4	100.8	97.2	94.7	94.0
125°	239.6	205.7	176.7	154.4	138.2	125.5	115.6	108.9	105.0	102.8	101.4
127.5°	234.6	204.9	179.8	160.3	145.4	133.1	123.1	116.1	111.7	109.1	108.0
130°	231.5	204.6	182.0	164.0	150.2	138.2	127.9	121.2	115.9	113.1	111.7
132.5°	228.7	204.4	184.0	167.7	154.2	142.1	132.5	125.2	120.2	116.5	115.4
135°	224.4	203.9	187.0	172.5	159.7	148.1	138.9	131.5	125.5	121.9	120.5
137.5°	220.8	203.9	188.7	175.9	164.0	153.1	144.3	136.6	130.9	127.0	125.7
140°	218.8	203.6	190.1	178.1	166.8	156.2	147.7	140.3	134.3	130.4	129.4
142.5°	217.1	203.6	191.3	179.8	169.4	159.0	150.8	143.7	138.0	134.4	133.3
145°	214.2	202.9	191.9	181.7	172.1	162.9	155.2	148.4	143.5	140.0	138.9
147.5°	211.6	201.6	192.3	183.3	174.9	166.3	159.3	153.7	148.7	145.5	145.2
150°	209.6	200.7	192.3	184.1	176.4	168.6	161.9	156.6	152.3	149.5	149.1
152.5°	207.3	199.3	191.7	184.7	177.5	170.6	164.4	159.7	155.7	152.9	152.8
155°	203.9	197.2	190.9	185.2	179.2	173.2	167.9	164.0	160.5	158.3	158.0
157.5°	200.5	195.0	189.9	185.2	180.4	175.3	171.1	167.7	165.0	163.0	163.0
160°	197.9	193.3	189.1	185.2	181.0	176.7	172.8	170.0	167.5	166.1	166.1
162.5°	195.7	191.6	188.2	185.2	181.5	177.6	174.5	172.0	169.8	168.7	168.9
165°	191.9	189.1	186.6	184.5	181.7	178.5	176.4	174.6	172.8	172.1	172.1
167.5°	188.5	186.5	184.9	183.6	181.6	179.3	177.6	176.6	175.3	174.9	175.3
170°	186.3	184.8	183.8	183.1	181.3	179.5	178.5	177.8	176.7	176.4	176.7
172.5°	184.3	183.1	182.7	182.5	181.0	179.8	179.0	178.6	177.8	177.8	178.1
175°	182.0	181.3	181.3	181.7	180.6	179.9	179.9	179.5	179.2	179.2	179.5
177.5°	180.5	180.2	180.2	180.7	180.2	179.9	179.9	179.9	179.6	179.9	180.2
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P332957

CATALOG NUMBER: SA4XXRDIP-C1020D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1726.3	1731.3	1736.8	1747.3	1756.2	1760.1	1767.8	1773.3	1771.7	1779.4	1792.7
5°	1733.1	1751.8	1773.2	1795.3	1820.2	1840.9	1857.5	1874.1	1887.3	1903.2	1926.7
7.5°	1732.0	1765.2	1801.3	1840.9	1881.7	1917.0	1949.6	1982.8	2012.2	2044.5	2086.6
10°	1727.6	1771.8	1816.7	1868.6	1920.4	1969.5	2013.8	2055.2	2094.7	2136.8	2190.1
12.5°	1722.6	1773.5	1827.8	1890.2	1954.7	2013.8	2065.8	2125.5	2174.8	2229.2	2290.7
15°	1700.6	1769.0	1843.0	1923.9	2001.3	2080.8	2152.0	2225.3	2293.7	2358.7	2436.2
17.5°	1675.4	1754.4	1841.6	1937.2	2030.2	2126.9	2211.3	2303.7	2373.7	2460.9	2532.8
20°	1655.0	1740.0	1833.3	1940.5	2046.3	2153.4	2246.7	2340.8	2419.6	2507.4	2598.6
22.5°	1630.1	1723.4	1824.5	1935.5	2046.3	2163.4	2266.6	2360.1	2457.7	2556.6	2650.6
25°	1590.0	1686.8	1793.9	1915.6	2042.8	2162.4	2273.0	2389.1	2494.2	2601.4	2685.7
27.5°	1540.8	1642.4	1755.4	1880.9	2011.4	2133.9	2264.2	2387.9	2493.7	2596.8	2670.4
30°	1501.5	1608.7	1717.2	1844.4	1979.9	2111.2	2250.9	2374.6	2485.9	2578.6	2620.0
32.5°	1461.1	1562.8	1674.6	1803.5	1942.3	2083.6	2222.1	2348.6	2451.6	2507.2	2508.3
35°	1390.9	1486.3	1602.4	1729.0	1871.4	2024.8	2165.2	2289.6	2352.5	2357.3	2289.6
37.5°	1314.3	1401.8	1511.5	1638.1	1794.1	1946.7	2090.1	2173.0	2194.1	2123.7	1998.4
40°	1259.6	1340.4	1446.2	1576.2	1731.0	1888.6	2019.3	2080.1	2058.0	1943.9	1804.3
42.5°	1202.0	1277.4	1379.3	1507.6	1663.0	1822.3	1933.6	1966.2	1907.6	1775.8	1612.4
45°	1108.2	1177.3	1278.2	1407.5	1556.8	1706.1	1790.5	1773.9	1676.4	1520.2	1337.0
47.5°	1010.4	1077.2	1168.0	1287.6	1440.5	1569.4	1626.5	1576.5	1437.8	1265.9	1116.9
50°	945.7	1014.1	1097.8	1211.9	1351.5	1475.9	1512.6	1436.5	1282.4	1117.1	980.3
52.5°	882.1	940.6	1022.6	1132.8	1266.3	1371.4	1390.9	1303.2	1144.1	996.0	874.6
55°	785.3	838.6	907.7	1011.4	1126.8	1216.0	1205.6	1093.0	948.5	822.0	726.6
57.5°	691.7	731.8	795.7	892.9	994.2	1054.1	1016.2	920.1	785.5	681.9	601.4
60°	629.8	667.1	726.6	811.6	900.8	934.6	902.8	798.5	692.0	597.3	529.5
62.5°	571.2	604.1	655.2	734.2	806.2	826.2	792.2	701.1	605.2	524.3	468.2
65°	486.0	516.4	560.0	616.0	665.7	675.4	653.3	560.0	487.4	419.6	380.9
67.5°	408.7	428.6	462.6	511.0	537.4	543.1	500.4	441.7	377.7	336.1	306.9
70°	356.7	370.5	402.3	428.6	450.0	450.7	411.3	364.3	315.2	281.4	259.9
72.5°	306.4	319.7	343.7	361.7	378.1	372.8	336.7	299.6	259.9	234.4	218.5
75°	236.4	248.2	260.6	268.9	268.9	262.0	235.7	208.1	185.3	170.1	165.2
77.5°	171.9	181.5	185.7	184.4	182.0	171.2	154.6	136.5	128.3	121.1	117.5
80°	134.8	139.0	140.3	136.9	132.7	120.3	109.2	101.6	94.0	91.3	89.9
82.5°	100.0	103.6	100.0	100.9	91.8	81.6	75.5	72.9	69.7	68.6	67.2
85°	53.2	52.5	51.2	47.7	41.5	40.1	39.4	38.7	37.3	38.0	36.6
87.5°	18.5	17.0	14.9	14.4	14.4	13.7	14.3	14.4	14.5	13.9	15.1
90°	1.1	2.1	2.5	2.8	2.8	4.9	4.9	5.7	6.4	6.0	6.4
92.5°	5.9	9.2	13.5	18.7	26.0	44.0	71.4	98.1	112.1	93.4	69.4
95°	12.7	16.3	20.9	29.3	44.2	74.9	132.9	217.4	288.0	296.2	261.9
97.5°	20.9	24.0	28.2	35.5	47.9	71.6	119.5	203.4	303.4	372.1	386.9
100°	26.9	29.3	33.6	40.3	51.6	72.5	112.4	184.5	284.2	374.6	426.2
102.5°	33.1	35.3	39.2	45.7	56.4	75.3	110.4	171.8	260.1	353.4	424.3
105°	42.4	44.2	48.4	54.8	65.0	82.0	111.3	160.8	231.8	314.9	395.8
107.5°	51.8	53.6	58.1	64.2	74.3	89.8	116.6	158.8	216.0	283.8	355.5
110°	58.3	60.1	64.3	70.7	80.2	95.8	120.5	159.4	210.6	268.3	331.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	64.5	66.6	70.5	76.9	86.4	101.4	124.8	161.1	208.1	259.5	313.3
115°	73.9	76.3	79.9	86.6	96.1	110.3	131.5	164.3	206.8	251.3	295.5
117.5°	83.1	85.3	89.2	95.5	105.4	118.8	138.3	167.8	206.4	247.6	286.7
120°	89.1	91.5	95.4	101.4	111.3	124.8	143.1	170.4	206.4	245.6	282.7
122.5°	94.7	97.2	100.8	107.4	117.0	130.4	147.7	172.9	206.1	243.4	279.3
125°	102.8	105.0	108.9	115.6	125.5	138.2	154.4	176.7	205.7	239.6	273.6
127.5°	109.1	111.7	116.1	123.1	133.1	145.4	160.3	179.8	204.9	234.6	266.5
130°	113.1	115.9	121.2	127.9	138.2	150.2	164.0	182.0	204.6	231.5	260.8
132.5°	116.5	120.2	125.2	132.5	142.1	154.2	167.7	184.0	204.4	228.7	254.9
135°	121.9	125.5	131.5	138.9	148.1	159.7	172.5	187.0	203.9	224.4	246.7
137.5°	127.0	130.9	136.6	144.3	153.1	164.0	175.9	188.7	203.9	220.8	239.3
140°	130.4	134.3	140.3	147.7	156.2	166.8	178.1	190.1	203.6	218.8	235.0
142.5°	134.4	138.0	143.7	150.8	159.0	169.4	179.8	191.3	203.6	217.1	231.1
145°	140.0	143.5	148.4	155.2	162.9	172.1	181.7	191.9	202.9	214.2	225.5
147.5°	145.5	148.7	153.7	159.3	166.3	174.9	183.3	192.3	201.6	211.6	220.9
150°	149.5	152.3	156.6	161.9	168.6	176.4	184.1	192.3	200.7	209.6	218.1
152.5°	152.9	155.7	159.7	164.4	170.6	177.5	184.7	191.7	199.3	207.3	215.0
155°	158.3	160.5	164.0	167.9	173.2	179.2	185.2	190.9	197.2	203.9	210.3
157.5°	163.0	165.0	167.7	171.1	175.3	180.4	185.2	189.9	195.0	200.5	205.3
160°	166.1	167.5	170.0	172.8	176.7	181.0	185.2	189.1	193.3	197.9	202.2
162.5°	168.7	169.8	172.0	174.5	177.6	181.5	185.2	188.2	191.6	195.7	199.1
165°	172.1	172.8	174.6	176.4	178.5	181.7	184.5	186.6	189.1	191.9	194.7
167.5°	174.9	175.3	176.6	177.6	179.3	181.6	183.6	184.9	186.5	188.5	190.6
170°	176.4	176.7	177.8	178.5	179.5	181.3	183.1	183.8	184.8	186.3	188.0
172.5°	177.8	177.8	178.6	179.0	179.8	181.0	182.5	182.7	183.1	184.3	185.8
175°	179.2	179.2	179.5	179.9	179.9	180.6	181.7	181.3	181.3	182.0	182.7
177.5°	179.9	179.6	179.9	179.9	179.9	180.2	180.7	180.2	180.2	180.5	180.7
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1799.9	1802.1	1803.8	1809.3	1809.8	1814.8	1809.8
5°	1948.8	1958.5	1973.7	1988.9	1990.3	1999.9	1982.7
7.5°	2115.8	2138.2	2152.2	2176.8	2186.5	2192.5	2182.6
10°	2230.8	2251.6	2288.2	2306.2	2324.2	2326.9	2318.6
12.5°	2342.0	2374.9	2403.8	2437.8	2437.0	2461.3	2452.5
15°	2490.1	2524.0	2564.0	2602.1	2615.9	2615.9	2627.0
17.5°	2595.7	2657.8	2699.3	2729.1	2761.8	2767.4	2763.6
20°	2667.1	2734.1	2778.4	2817.1	2839.2	2845.4	2845.4
22.5°	2720.1	2777.2	2820.4	2855.2	2873.5	2880.8	2878.6
25°	2756.9	2806.0	2832.3	2842.6	2847.5	2846.1	2833.0
27.5°	2706.6	2704.4	2687.8	2656.0	2632.1	2617.6	2601.0
30°	2610.4	2574.4	2532.9	2487.3	2428.6	2383.6	2369.8
32.5°	2467.1	2386.4	2316.1	2240.1	2176.9	2132.0	2113.2
35°	2190.1	2062.2	1957.8	1866.5	1800.2	1758.7	1744.9
37.5°	1861.3	1737.5	1608.3	1519.8	1464.7	1422.8	1407.2
40°	1652.2	1517.4	1404.7	1321.8	1265.1	1224.3	1223.6
42.5°	1461.4	1332.7	1226.7	1166.9	1105.8	1078.8	1078.7
45°	1196.6	1093.6	1003.8	956.8	920.1	898.0	891.8
47.5°	990.8	905.6	845.7	808.3	778.4	764.3	755.2
50°	875.2	800.5	752.8	720.3	703.7	685.8	684.4
52.5°	779.0	718.7	681.5	655.1	634.1	623.3	623.6
55°	654.7	607.0	580.7	560.6	544.1	535.8	532.3
57.5°	551.5	515.7	496.6	478.2	471.2	464.7	462.9
60°	487.4	463.2	445.2	430.7	420.3	418.2	417.5
62.5°	434.3	409.0	396.5	385.3	377.7	374.5	373.3
65°	358.1	339.4	328.4	319.4	316.6	311.8	311.1
67.5°	288.7	277.5	270.2	263.9	260.2	259.9	259.9
70°	246.1	239.9	233.7	230.2	228.1	226.7	226.7
72.5°	209.6	205.0	199.9	198.1	197.7	196.3	195.8
75°	159.7	154.9	155.5	152.1	149.3	145.9	143.8
77.5°	113.2	109.8	109.1	108.7	106.3	105.9	107.0
80°	87.8	84.3	83.6	84.3	83.6	81.6	81.6
82.5°	66.8	63.9	63.2	62.8	62.1	62.8	61.7
85°	35.9	34.6	34.6	34.6	35.9	35.3	34.6
87.5°	14.1	13.6	14.1	13.7	13.7	13.1	13.7
90°	6.7	7.1	7.1	7.4	7.8	7.4	7.4
92.5°	52.2	41.6	34.5	30.3	28.4	27.2	27.2
95°	207.1	159.7	125.5	108.1	97.2	90.8	86.2
97.5°	366.6	332.0	295.1	269.7	248.5	237.9	230.5
100°	433.3	416.0	389.8	359.1	337.5	326.9	324.1
102.5°	459.3	464.3	453.4	434.6	419.0	407.8	405.5
105°	457.0	492.0	506.5	507.2	504.3	499.4	497.3
107.5°	420.6	469.8	501.4	518.8	526.9	530.4	531.3
110°	392.3	443.6	482.4	507.5	522.4	528.7	531.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	367.4	415.8	454.7	483.2	501.2	510.1	515.2
115°	338.9	380.3	414.2	442.1	463.3	474.7	477.5
117.5°	322.7	355.2	384.0	407.8	425.6	437.0	439.2
120°	315.6	343.9	369.0	389.1	404.7	413.9	417.8
122.5°	311.1	336.8	358.8	375.8	389.1	396.9	400.8
125°	303.9	328.3	347.8	361.9	372.2	378.9	381.0
127.5°	295.5	319.9	338.3	352.5	361.6	367.3	369.4
130°	288.8	312.8	331.5	346.0	354.8	360.5	362.6
132.5°	281.1	304.6	323.3	337.5	347.5	352.9	355.0
135°	269.7	291.2	308.9	323.0	332.9	338.6	340.7
137.5°	258.7	276.9	292.8	306.1	315.8	320.5	323.0
140°	251.6	267.5	282.4	294.8	302.5	307.5	310.3
142.5°	245.7	259.3	272.2	283.2	290.4	294.8	296.7
145°	237.5	248.1	258.0	266.8	272.8	276.4	278.1
147.5°	230.4	238.9	246.7	253.2	258.4	261.0	261.7
150°	226.2	233.3	239.6	245.3	249.9	252.0	252.3
152.5°	222.0	228.5	233.7	238.5	242.2	243.5	243.9
155°	215.9	221.2	225.5	229.0	231.8	232.9	232.9
157.5°	210.0	214.5	217.9	220.5	222.7	223.3	223.3
160°	206.0	209.9	212.8	214.9	217.0	217.4	217.4
162.5°	202.4	205.4	208.0	209.5	211.6	212.0	211.7
165°	196.9	199.3	201.1	202.5	203.9	203.6	203.2
167.5°	192.2	194.2	195.2	195.9	196.9	196.8	196.5
170°	189.1	190.5	191.6	192.3	192.6	192.3	192.3
172.5°	186.5	187.4	188.2	188.6	188.9	188.6	188.0
175°	183.1	183.8	183.8	183.8	184.5	183.8	183.1
177.5°	181.0	181.0	181.3	181.0	181.3	180.7	180.2
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)