

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: P331706

Luminaire Tested: **SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331706
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

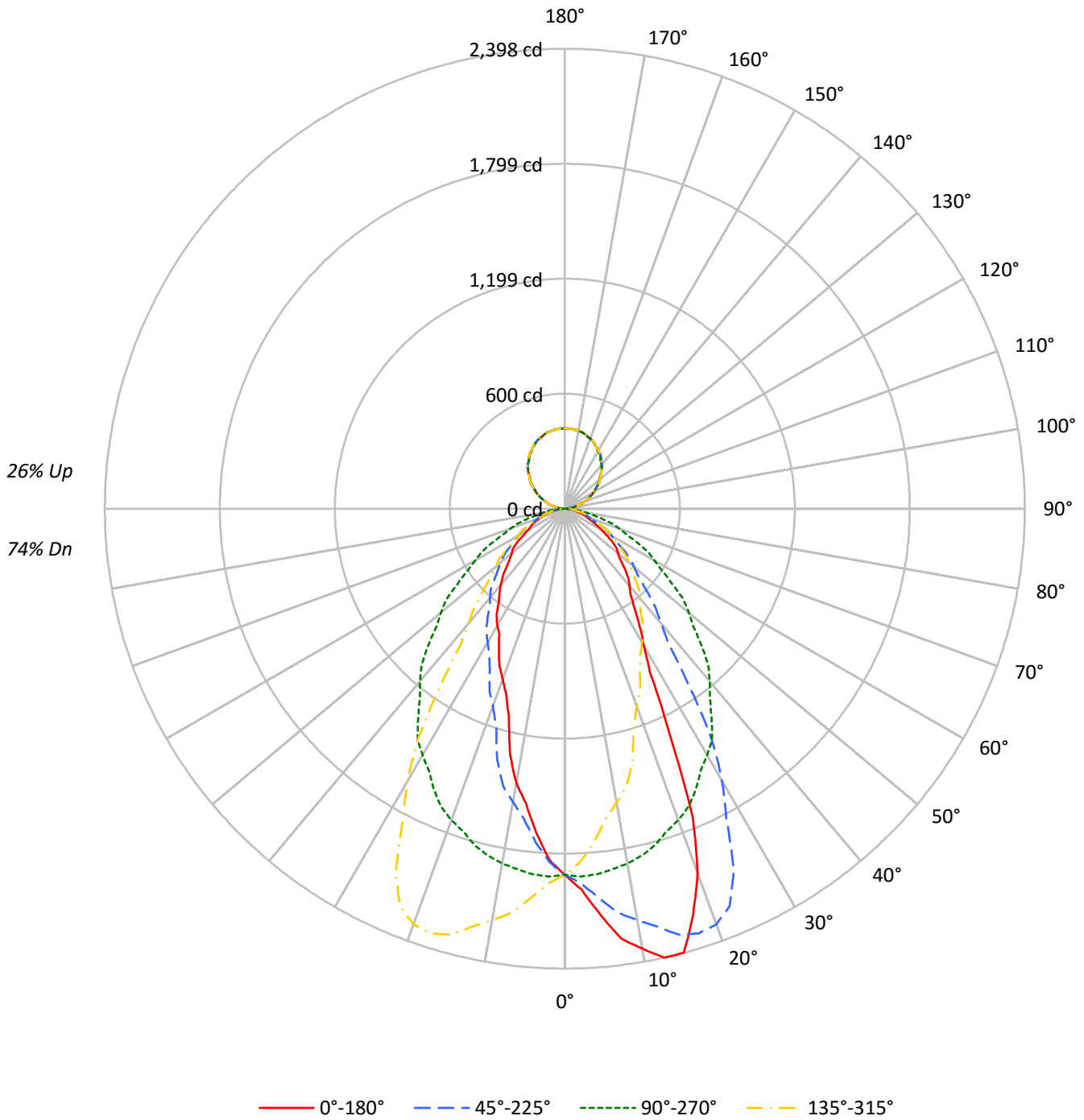
Lumens per Lamp: N/A
Luminaire Lumens: 4472.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74																
1	104	100	97	93	99	95	92	89	86	84	82	78	76	75	71	69	68	64																
2	96	89	83	78	91	85	80	75	77	73	70	70	67	64	64	61	59	56																
3	88	79	72	67	84	76	70	65	69	64	60	63	59	56	58	55	52	49																
4	82	71	64	58	77	68	61	56	63	57	53	57	53	49	52	49	46	43																
5	76	64	57	51	72	62	55	49	57	51	46	52	47	44	48	44	41	38																
6	70	59	51	45	67	56	49	44	52	46	41	48	43	39	44	40	37	34																
7	65	53	46	40	62	51	44	39	48	42	37	44	39	35	41	37	33	31																
8	61	49	42	36	58	47	40	36	44	38	34	41	36	32	38	34	30	28																
9	57	45	38	33	55	44	37	32	41	35	31	38	33	29	35	31	28	26																
10	54	42	35	30	51	41	34	30	38	32	28	35	30	27	33	29	26	24																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30832	30832	30832	30832
5°	34434	31024	27509	31024
10°	38203	30808	23845	30808
15°	40082	30355	18788	30355
20°	34749	29687	16258	29687
25°	22789	28771	14516	28771
30°	15340	27660	13136	27660
35°	12423	26260	11848	26260
40°	11049	24738	10964	24738
45°	9999	22952	9787	22952
50°	9100	21182	9065	21182
55°	8555	19220	8442	19220
60°	7156	17418	7072	17418
65°	6032	15817	6842	15817
70°	5575	14124	6453	14124
75°	5215	12296	5958	12296
80°	4816	10116	5309	10116
85°	4428	7984	4668	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.0
10°-20°	504.4	11.3
20°-30°	650.0	14.5
30°-40°	617.7	13.8
40°-50°	529.1	11.8
50°-60°	402.9	9.0
60°-70°	254.7	5.7
70°-80°	127.2	2.8
80°-90°	34.8	0.8
90°-100°	26.5	0.6
100°-110°	82.4	1.8
110°-120°	140.8	3.1
120°-130°	185.2	4.1
130°-140°	207.9	4.6
140°-150°	203.8	4.6
150°-160°	171.0	3.8
160°-170°	113.4	2.5
170°-180°	39.6	0.9
0°-30°	1335.4	29.9
0°-40°	1953.1	43.7
0°-60°	2885.1	64.5
0°-90°	3301.8	73.8
90°-120°	249.8	5.6
90°-150°	846.7	18.9
90°-180°	1171.0	26.2
0°-180°	4472.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1910	1910	1910	1910	1910	
5°	2125	1914	1697	1914	2125	210
15°	2398	1816	1124	1816	2398	647
25°	1279	1615	815	1615	1279	607
35°	630	1332	601	1332	630	403
45°	438	1005	429	1005	438	339
55°	304	683	300	683	304	267
65°	158	414	179	414	158	161
75°	84	197	96	197	84	89
85°	24	43	25	43	24	26
90°	12	0	12	0	12	6
95°	22	18	22	18	22	24
105°	78	76	78	76	78	82
115°	141	141	141	141	141	140
125°	206	206	206	206	206	184
135°	269	266	269	266	269	207
145°	326	323	326	323	326	204
155°	372	369	372	369	372	171
165°	402	402	402	402	402	113
175°	416	418	416	418	416	40
180°	419	419	419	419	419	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1987.1	1988.7	1990.3	1986.5	1986.5	1983.4	1976.5	1971.2	1956.3	1954.2	1954.2
5°	2124.6	2123.2	2125.9	2117.3	2105.3	2102.7	2090.1	2073.5	2056.2	2037.0	2033.0
7.5°	2261.2	2259.2	2253.9	2252.5	2243.3	2223.3	2203.0	2181.4	2152.7	2124.7	2110.6
10°	2330.2	2352.1	2338.9	2315.6	2320.3	2289.1	2272.5	2244.0	2220.1	2178.3	2169.0
12.5°	2398.2	2406.8	2402.6	2389.4	2383.5	2361.8	2339.4	2314.6	2270.5	2233.0	2200.3
15°	2397.9	2410.5	2413.8	2409.9	2413.2	2411.9	2399.9	2379.3	2340.9	2299.7	2263.9
17.5°	2220.9	2229.7	2251.4	2266.1	2284.7	2324.0	2343.4	2350.9	2345.2	2321.7	2296.5
20°	2022.4	2007.8	2068.8	2100.0	2126.5	2192.9	2250.0	2271.9	2307.0	2306.4	2299.7
22.5°	1741.0	1744.5	1802.4	1839.4	1916.9	1983.2	2048.3	2130.7	2198.7	2243.7	2270.0
25°	1279.2	1304.5	1362.2	1412.6	1498.9	1622.3	1734.4	1864.5	1987.2	2084.1	2176.3
27.5°	960.8	962.6	1008.4	1055.0	1106.2	1207.3	1348.5	1503.8	1678.8	1823.2	1989.3
30°	822.8	818.8	838.0	866.5	910.3	988.6	1094.8	1247.4	1421.9	1639.5	1833.3
32.5°	725.1	725.3	739.8	760.9	797.3	850.1	922.8	1046.8	1211.7	1425.6	1652.8
35°	630.3	629.7	640.3	655.5	670.8	704.6	754.4	819.4	932.9	1132.6	1364.8
37.5°	562.4	565.3	570.5	580.0	596.9	615.7	645.6	689.3	770.1	888.2	1083.4
40°	524.2	525.5	532.8	540.8	550.7	565.3	589.9	625.0	684.1	778.3	920.9
42.5°	489.1	490.5	495.6	503.1	510.9	525.5	545.8	576.2	624.1	697.6	815.3
45°	437.9	437.9	442.6	445.9	454.5	467.8	484.4	509.6	542.7	597.2	675.5
47.5°	389.9	390.0	393.1	398.8	404.2	414.6	430.9	451.5	475.6	517.7	584.6
50°	362.3	362.9	364.9	369.6	372.9	382.2	394.8	412.7	437.9	470.4	526.2
52.5°	340.0	339.6	342.1	344.1	346.4	353.0	362.4	378.2	400.8	429.0	475.2
55°	303.9	301.2	305.2	308.5	310.5	313.2	318.5	328.4	347.7	371.6	406.1
57.5°	258.8	257.7	260.5	263.5	269.8	276.9	281.5	287.8	297.8	314.9	349.1
60°	221.6	221.6	227.6	229.6	236.9	246.2	255.5	260.8	270.7	282.0	307.2
62.5°	188.7	189.2	192.0	194.0	198.1	209.5	222.5	234.2	243.6	254.4	271.1
65°	157.9	159.2	159.2	160.6	163.2	165.9	171.2	180.5	197.1	212.3	224.9
67.5°	134.0	134.4	134.8	136.2	136.8	139.7	141.9	146.0	149.8	164.3	179.9
70°	118.1	120.1	119.4	120.8	121.4	122.7	125.4	127.4	133.4	136.7	146.0
72.5°	103.2	104.7	104.6	105.4	107.1	107.4	109.5	111.5	115.3	118.1	123.1
75°	83.6	82.9	83.6	84.9	85.6	86.3	86.3	88.9	90.9	93.6	96.9
77.5°	64.5	65.2	65.0	65.2	65.3	66.5	66.4	67.5	69.5	70.9	72.5
80°	51.8	52.4	51.8	52.4	53.1	53.7	53.1	53.7	55.7	57.1	57.1
82.5°	40.1	40.2	40.6	40.7	40.9	41.0	41.9	42.1	43.5	43.3	43.8
85°	23.9	23.2	23.2	23.2	23.9	24.5	23.9	23.9	24.5	24.5	24.5
87.5°	10.9	11.4	11.4	11.4	11.4	11.4	11.4	12.0	11.5	12.0	11.2
90°	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1	12.2	12.4	10.6
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.3	11.2	10.8
95°	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.7
100°	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.5
102.5°	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5	60.4	60.3	60.0
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0	77.9	77.7	77.6
107.5°	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0	96.9	96.9	96.9
110°	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9	109.9	109.9	109.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8	123.0	123.2	123.2
115°	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6	142.7	142.7	142.9
117.5°	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7	161.9	162.1	162.5
120°	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5	174.5	174.5	175.2
122.5°	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7	187.9	188.1	188.5
125°	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3	207.5	207.7	208.0
127.5°	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3	226.5	226.8	227.1
130°	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2	239.4	239.5	239.7
132.5°	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8	252.2	252.5	252.5
135°	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5	270.5	270.6	270.5
137.5°	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3	288.4	288.4	288.2
140°	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3	300.3	300.3	299.9
142.5°	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2	311.1	311.0	310.8
145°	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7	327.6	327.5	327.0
147.5°	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1	342.0	341.8	341.5
150°	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3	351.1	350.8	350.5
152.5°	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5	360.2	359.9	359.5
155°	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1	371.7	371.3	371.1
157.5°	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8	382.3	381.8	381.6
160°	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2	388.7	388.3	388.2
162.5°	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0	394.5	393.9	393.9
165°	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4	401.9	401.3	401.3
167.5°	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6	408.0	407.5	407.5
170°	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0	411.4	410.9	411.0
172.5°	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5	414.0	413.4	413.5
175°	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3	416.7	416.2	416.3
177.5°	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6	418.2	417.8	417.9
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1955.2	1951.0	1947.3	1937.7	1932.9	1922.3	1920.7	1920.2	1906.4	1893.1	1889.4
5°	2022.4	2011.8	1995.8	1977.3	1958.0	1938.1	1924.8	1914.2	1887.7	1862.5	1847.9
7.5°	2090.1	2067.2	2039.8	2004.6	1975.3	1942.4	1917.9	1896.0	1858.4	1822.3	1798.0
10°	2140.5	2103.3	2066.8	2018.4	1980.6	1943.4	1908.9	1879.1	1836.6	1788.8	1755.0
12.5°	2171.8	2130.9	2080.6	2033.3	1984.3	1937.0	1890.9	1852.5	1802.6	1753.3	1713.0
15°	2214.1	2170.3	2109.3	2041.6	1978.6	1916.9	1863.8	1816.0	1751.0	1691.9	1642.8
17.5°	2248.8	2188.5	2123.0	2044.7	1971.7	1893.3	1824.9	1763.9	1691.5	1620.3	1562.4
20°	2259.9	2200.2	2124.6	2046.3	1960.0	1867.8	1794.1	1727.8	1650.1	1572.5	1506.2
22.5°	2253.0	2206.6	2122.4	2028.7	1940.4	1843.9	1760.7	1683.7	1597.6	1518.4	1441.4
25°	2206.2	2190.2	2110.6	2008.4	1907.6	1795.5	1699.2	1615.0	1516.8	1431.9	1348.2
27.5°	2097.0	2131.3	2082.0	1973.1	1861.0	1740.8	1632.6	1536.7	1434.8	1339.2	1255.9
30°	1991.9	2070.8	2049.6	1948.7	1823.3	1705.2	1583.8	1483.6	1374.8	1276.6	1194.3
32.5°	1848.0	1978.4	1999.2	1914.8	1785.1	1655.3	1528.1	1428.4	1314.8	1211.3	1131.1
35°	1619.0	1814.0	1903.6	1849.9	1719.8	1579.8	1448.4	1332.3	1218.2	1116.0	1036.4
37.5°	1345.7	1611.4	1760.7	1764.5	1645.1	1499.5	1356.5	1241.2	1124.4	1024.1	937.9
40°	1168.4	1456.4	1650.8	1693.9	1593.1	1435.8	1291.2	1173.7	1059.6	961.4	862.6
42.5°	1009.2	1296.1	1535.1	1610.1	1529.9	1373.7	1228.6	1105.8	994.9	902.0	801.0
45°	816.1	1066.9	1330.3	1464.4	1419.9	1275.3	1122.0	1005.2	901.0	820.8	723.9
47.5°	688.5	865.2	1120.1	1301.4	1300.6	1168.6	1017.8	906.0	809.3	734.1	655.7
50°	615.7	769.7	985.3	1191.0	1208.2	1097.4	954.1	843.3	753.1	674.1	611.1
52.5°	550.4	677.3	871.2	1068.4	1117.5	1021.5	882.5	780.2	692.6	620.0	566.0
55°	465.1	563.3	710.6	895.1	969.4	901.7	778.3	682.8	611.8	550.7	504.3
57.5°	393.5	467.1	585.3	733.8	820.4	777.8	676.0	598.4	537.6	482.4	445.7
60°	348.3	408.7	508.9	633.0	728.5	698.7	611.8	539.4	487.7	439.9	405.4
62.5°	305.9	357.8	443.6	544.3	631.9	619.6	548.6	487.9	442.6	399.0	369.8
65°	246.2	284.0	351.0	430.0	500.3	506.3	455.2	414.0	373.6	339.1	313.2
67.5°	196.0	220.7	267.9	334.4	387.1	405.9	374.7	343.3	311.2	284.5	262.1
70°	165.2	185.1	219.6	273.4	321.8	341.7	323.8	299.2	271.4	249.5	230.2
72.5°	133.9	153.3	178.7	218.2	259.7	281.2	275.0	257.3	234.7	216.6	198.4
75°	100.9	106.8	124.1	150.6	183.1	201.7	206.4	197.1	179.1	165.2	154.6
77.5°	74.6	78.2	86.4	100.3	121.6	138.1	144.9	143.8	131.5	123.4	113.5
80°	59.7	61.7	65.7	71.7	87.6	104.2	108.8	108.8	100.2	96.9	86.9
82.5°	45.4	46.8	49.2	52.5	60.0	74.4	79.6	80.7	75.2	70.9	63.0
85°	25.9	25.2	26.5	28.5	29.9	33.8	41.8	43.1	41.8	36.5	34.5
87.5°	10.8	11.0	10.6	9.8	10.2	10.5	13.0	15.5	13.5	12.1	11.3
90°	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3	7.0	7.7	8.4
95°	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4	19.2	19.9	20.7
97.5°	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6	34.3	34.9	35.6
100°	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9	45.5	46.1	46.8
102.5°	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7	57.2	57.7	58.2
105°	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0	76.2	76.4	76.7
107.5°	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3	95.7	96.0	96.4
110°	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8	108.2	108.7	109.2



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3	121.8	122.3	122.7
115°	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3	141.8	142.3	142.7
117.5°	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2	161.9	162.5	163.1
120°	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	175.2	175.8	176.4
122.5°	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7	187.4	188.2	188.9
125°	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6	206.3	207.0	207.7
127.5°	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1	225.0	225.9	226.7
130°	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7	236.7	237.7	238.7
132.5°	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7	249.5	250.3	251.1
135°	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0	266.9	267.8	268.6
137.5°	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3	285.0	285.7	286.5
140°	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4	296.1	296.8	297.5
142.5°	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7	307.4	308.1	308.8
145°	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9	323.5	324.0	324.6
147.5°	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4	338.1	338.7	339.4
150°	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3	347.8	348.2	348.7
152.5°	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1	356.5	357.0	357.5
155°	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2	369.4	369.7	369.9
157.5°	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4	380.6	380.7	380.9
160°	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2	387.4	387.5	387.7
162.5°	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4	393.5	393.5	393.5
165°	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7	401.6	401.5	401.5
167.5°	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6	408.4	408.2	407.9
170°	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3	412.1	411.8	411.6
172.5°	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8	414.6	414.4	414.1
175°	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0	417.7	417.5	417.2
177.5°	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2	419.0	418.8	418.7
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1882.5	1878.8	1871.9	1861.3	1854.9	1843.8	1836.3	1840.6	1841.6	1840.6	1839.5
5°	1831.9	1818.0	1798.8	1780.2	1762.9	1744.4	1733.7	1729.1	1719.8	1714.5	1711.9
7.5°	1770.8	1746.8	1719.5	1687.2	1659.7	1630.9	1616.2	1608.9	1589.9	1579.5	1570.5
10°	1725.1	1687.3	1660.1	1617.6	1591.8	1553.9	1528.1	1528.7	1502.8	1488.2	1477.6
12.5°	1674.7	1633.2	1587.9	1549.7	1513.7	1483.3	1452.2	1439.5	1412.1	1398.0	1369.3
15°	1591.1	1542.7	1494.9	1443.1	1406.6	1359.5	1314.4	1259.3	1214.9	1176.4	1165.8
17.5°	1499.8	1439.8	1391.9	1331.1	1268.6	1189.4	1137.1	1105.1	1078.3	1058.0	1042.9
20°	1437.2	1376.1	1325.0	1233.5	1149.2	1095.5	1057.0	1032.4	1004.6	982.7	970.7
22.5°	1371.3	1307.6	1238.0	1135.8	1070.1	1027.0	992.7	964.5	945.6	928.5	917.6
25°	1277.9	1208.2	1093.5	1023.1	970.0	924.9	901.0	883.8	863.9	840.7	830.0
27.5°	1179.2	1068.4	986.0	933.7	883.0	853.7	832.2	806.4	788.6	778.2	767.1
30°	1105.4	994.6	930.2	873.2	837.3	804.8	779.6	765.0	747.8	729.9	722.6
32.5°	1023.1	934.6	872.9	825.4	789.0	761.3	741.4	717.8	705.3	694.3	679.0
35°	920.9	853.9	797.5	759.1	724.6	702.0	678.8	664.8	642.3	633.0	627.0
37.5°	834.4	776.3	734.2	693.6	666.3	641.3	627.1	605.0	595.2	582.3	569.7
40°	785.6	728.5	688.1	654.9	624.4	605.8	587.9	570.0	555.4	549.4	534.1
42.5°	735.7	689.3	648.8	612.4	592.0	572.3	549.7	536.5	521.4	511.7	502.3
45°	666.8	625.7	591.2	561.3	538.8	518.2	503.6	481.7	473.1	453.8	445.9
47.5°	606.3	568.1	535.2	506.8	484.8	471.4	450.0	432.9	419.1	407.3	397.0
50°	563.3	531.5	499.6	474.4	454.5	435.3	413.4	404.7	383.5	377.5	371.6
52.5°	524.0	493.8	464.6	439.9	420.0	401.3	382.0	370.8	356.4	350.5	346.1
55°	469.1	439.9	412.0	390.1	370.2	351.0	339.1	325.1	318.5	313.8	308.5
57.5°	413.9	387.6	366.3	344.1	324.1	308.8	295.0	286.6	279.7	273.6	267.3
60°	378.9	353.6	334.4	313.8	293.3	280.7	270.0	260.1	252.1	242.8	240.2
62.5°	341.7	319.7	302.0	282.0	264.1	252.5	242.4	233.0	223.5	209.9	206.2
65°	290.6	273.4	254.8	238.2	222.3	211.0	196.4	185.8	181.8	180.5	179.8
67.5°	244.4	228.1	212.2	195.2	180.7	170.3	162.8	161.2	158.4	157.6	155.8
70°	213.6	198.4	182.5	166.5	152.6	150.6	148.0	145.3	142.0	140.7	139.3
72.5°	186.0	170.3	154.3	141.6	135.6	133.1	130.4	127.8	125.5	124.2	123.4
75°	142.7	128.1	117.4	112.8	109.5	107.5	103.5	101.5	100.2	98.2	97.5
77.5°	102.7	94.5	89.6	86.7	83.2	81.1	78.8	76.8	75.4	75.0	73.9
80°	78.3	74.3	71.0	67.0	65.7	63.0	62.4	60.4	61.0	59.1	59.1
82.5°	60.8	55.7	52.9	51.1	49.8	47.6	47.0	46.0	46.2	44.7	44.7
85°	31.2	29.9	28.5	27.2	27.2	25.2	25.9	25.2	25.2	23.9	23.2
87.5°	10.9	10.6	9.9	10.3	10.6	10.4	10.4	9.8	9.8	9.8	9.2
90°	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1	11.9	11.7	11.7
92.5°	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3	11.3	11.4	11.4
95°	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0	38.0	38.0	38.0
100°	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8	48.8	48.8	48.7
102.5°	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5	60.5	60.6	60.6
105°	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0	78.2	78.4	78.4
107.5°	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.1	97.1	97.0
110°	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.8



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8	122.6	122.4	122.2
115°	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6	142.5	142.4	142.3
117.5°	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7	161.5	161.3	161.1
120°	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5	174.5	174.5	174.4
122.5°	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7	187.5	187.3	187.2
125°	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3	207.0	206.8	206.6
127.5°	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3	226.0	225.7	225.4
130°	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2	239.1	238.9	238.7
132.5°	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8	251.5	251.2	250.9
135°	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5	270.4	270.3	270.2
137.5°	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3	288.2	288.2	288.0
140°	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3	300.3	300.3	300.1
142.5°	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2	311.2	311.3	311.2
145°	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7	327.7	327.8	327.7
147.5°	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1	342.3	342.5	342.4
150°	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3	351.5	351.8	351.8
152.5°	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5	360.8	361.1	361.1
155°	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1	372.5	372.9	373.0
157.5°	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8	383.4	383.9	384.0
160°	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2	389.7	390.2	390.2
162.5°	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0	395.5	396.1	396.1
165°	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4	403.0	403.5	403.6
167.5°	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6	409.1	409.7	409.8
170°	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0	412.5	413.1	413.1
172.5°	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5	415.1	415.6	415.7
175°	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3	417.8	418.4	418.4
177.5°	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6	418.9	419.3	419.3
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1833.7	1834.7	1833.1	1834.2	1833.1	1834.7	1833.7	1839.5	1840.6	1841.6	1840.6
5°	1708.5	1700.6	1699.2	1697.3	1699.2	1700.6	1708.5	1711.9	1714.5	1719.8	1729.1
7.5°	1559.1	1557.9	1554.6	1550.0	1554.6	1557.9	1559.1	1570.5	1579.5	1589.9	1608.9
10°	1463.0	1459.7	1459.1	1454.4	1459.1	1459.7	1463.0	1477.6	1488.2	1502.8	1528.7
12.5°	1350.5	1329.1	1326.9	1315.3	1326.9	1329.1	1350.5	1369.3	1398.0	1412.1	1439.5
15°	1149.9	1145.9	1132.6	1124.0	1132.6	1145.9	1149.9	1165.8	1176.4	1214.9	1259.3
17.5°	1035.2	1022.2	1018.1	1016.2	1018.1	1022.2	1035.2	1042.9	1058.0	1078.3	1105.1
20°	961.4	949.5	947.5	946.2	947.5	949.5	961.4	970.7	982.7	1004.6	1032.4
22.5°	910.5	898.0	892.8	888.8	892.8	898.0	910.5	917.6	928.5	945.6	964.5
25°	823.4	818.8	816.1	814.8	816.1	818.8	823.4	830.0	840.7	863.9	883.8
27.5°	755.3	745.1	743.1	739.7	743.1	745.1	755.3	767.1	778.2	788.6	806.4
30°	716.6	713.3	708.6	704.6	708.6	713.3	716.6	722.6	729.9	747.8	765.0
32.5°	670.9	668.2	664.0	662.2	664.0	668.2	670.9	679.0	694.3	705.3	717.8
35°	620.4	611.1	607.1	601.1	607.1	611.1	620.4	627.0	633.0	642.3	664.8
37.5°	566.9	562.0	556.4	558.4	556.4	562.0	566.9	569.7	582.3	595.2	605.0
40°	525.5	522.2	520.9	520.2	520.9	522.2	525.5	534.1	549.4	555.4	570.0
42.5°	492.6	483.4	480.0	479.8	480.0	483.4	492.6	502.3	511.7	521.4	536.5
45°	442.6	433.9	428.0	428.6	428.0	433.9	442.6	445.9	453.8	473.1	481.7
47.5°	391.3	391.1	387.4	388.6	387.4	391.1	391.3	397.0	407.3	419.1	432.9
50°	366.9	362.9	360.3	360.9	360.3	362.9	366.9	371.6	377.5	383.5	404.7
52.5°	343.6	340.1	338.0	340.8	338.0	340.1	343.6	346.1	350.5	356.4	370.8
55°	305.2	301.2	300.6	299.9	300.6	301.2	305.2	308.5	313.8	318.5	325.1
57.5°	262.4	259.7	255.7	254.0	255.7	259.7	262.4	267.3	273.6	279.7	286.6
60°	231.6	226.3	219.6	219.0	219.6	226.3	231.6	240.2	242.8	252.1	260.1
62.5°	203.4	202.4	201.0	200.9	201.0	202.4	203.4	206.2	209.9	223.5	233.0
65°	178.5	177.8	178.5	179.1	178.5	177.8	178.5	179.8	180.5	181.8	185.8
67.5°	155.5	154.3	153.1	153.7	153.1	154.3	155.5	155.8	157.6	158.4	161.2
70°	138.0	137.3	136.7	136.7	136.7	137.3	138.0	139.3	140.7	142.0	145.3
72.5°	121.0	120.9	120.2	119.7	120.2	120.9	121.0	123.4	124.2	125.5	127.8
75°	96.9	95.5	95.5	95.5	95.5	95.5	96.9	97.5	98.2	100.2	101.5
77.5°	73.8	73.1	72.5	71.9	72.5	73.1	73.8	73.9	75.0	75.4	76.8
80°	58.4	57.7	57.1	57.1	57.1	57.7	58.4	59.1	59.1	61.0	60.4
82.5°	44.6	43.9	43.8	43.3	43.8	43.9	44.6	44.7	44.7	46.2	46.0
85°	23.9	24.5	23.9	25.2	23.9	24.5	23.9	23.2	23.9	25.2	25.2
87.5°	9.3	8.7	9.3	8.8	9.3	8.7	9.3	9.2	9.8	9.8	9.8
90°	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3
95°	22.4	22.2	22.1	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6
97.5°	38.0	38.0	38.0	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0
100°	48.6	48.6	48.5	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8
102.5°	60.5	60.4	60.4	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0
107.5°	96.6	96.3	95.9	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0
110°	109.5	109.3	109.1	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	122.1	121.9	121.7	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8
115°	142.0	141.8	141.6	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6
117.5°	160.9	160.7	160.4	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7
120°	174.2	173.9	173.7	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5
122.5°	187.0	186.8	186.6	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7
125°	206.6	206.5	206.4	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3
127.5°	225.2	224.9	224.7	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3
130°	238.4	238.0	237.7	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2
132.5°	250.6	250.4	250.1	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8
135°	269.9	269.7	269.5	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5
137.5°	287.7	287.4	287.1	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3
140°	299.8	299.5	299.2	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3
142.5°	310.9	310.5	310.2	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2
145°	327.4	327.1	326.8	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7
147.5°	342.1	341.8	341.5	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1
150°	351.5	351.3	351.1	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3
152.5°	360.8	360.5	360.2	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5
155°	372.7	372.5	372.3	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1
157.5°	383.6	383.2	382.9	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8
160°	389.9	389.6	389.3	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2
162.5°	395.8	395.4	395.0	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0
165°	403.2	402.8	402.4	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4
167.5°	409.4	408.9	408.5	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6
170°	412.7	412.2	411.7	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0
172.5°	415.2	414.7	414.3	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5
175°	418.0	417.5	417.0	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3
177.5°	418.9	418.6	418.2	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1836.3	1843.8	1854.9	1861.3	1871.9	1878.8	1882.5	1889.4	1893.1	1906.4	1920.2
5°	1733.7	1744.4	1762.9	1780.2	1798.8	1818.0	1831.9	1847.9	1862.5	1887.7	1914.2
7.5°	1616.2	1630.9	1659.7	1687.2	1719.5	1746.8	1770.8	1798.0	1822.3	1858.4	1896.0
10°	1528.1	1553.9	1591.8	1617.6	1660.1	1687.3	1725.1	1755.0	1788.8	1836.6	1879.1
12.5°	1452.2	1483.3	1513.7	1549.7	1587.9	1633.2	1674.7	1713.0	1753.3	1802.6	1852.5
15°	1314.4	1359.5	1406.6	1443.1	1494.9	1542.7	1591.1	1642.8	1691.9	1751.0	1816.0
17.5°	1137.1	1189.4	1268.6	1331.1	1391.9	1439.8	1499.8	1562.4	1620.3	1691.5	1763.9
20°	1057.0	1095.5	1149.2	1233.5	1325.0	1376.1	1437.2	1506.2	1572.5	1650.1	1727.8
22.5°	992.7	1027.0	1070.1	1135.8	1238.0	1307.6	1371.3	1441.4	1518.4	1597.6	1683.7
25°	901.0	924.9	970.0	1023.1	1093.5	1208.2	1277.9	1348.2	1431.9	1516.8	1615.0
27.5°	832.2	853.7	883.0	933.7	986.0	1068.4	1179.2	1255.9	1339.2	1434.8	1536.7
30°	779.6	804.8	837.3	873.2	930.2	994.6	1105.4	1194.3	1276.6	1374.8	1483.6
32.5°	741.4	761.3	789.0	825.4	872.9	934.6	1023.1	1131.1	1211.3	1314.8	1428.4
35°	678.8	702.0	724.6	759.1	797.5	853.9	920.9	1036.4	1116.0	1218.2	1332.3
37.5°	627.1	641.3	666.3	693.6	734.2	776.3	834.4	937.9	1024.1	1124.4	1241.2
40°	587.9	605.8	624.4	654.9	688.1	728.5	785.6	862.6	961.4	1059.6	1173.7
42.5°	549.7	572.3	592.0	612.4	648.8	689.3	735.7	801.0	902.0	994.9	1105.8
45°	503.6	518.2	538.8	561.3	591.2	625.7	666.8	723.9	820.8	901.0	1005.2
47.5°	450.0	471.4	484.8	506.8	535.2	568.1	606.3	655.7	734.1	809.3	906.0
50°	413.4	435.3	454.5	474.4	499.6	531.5	563.3	611.1	674.1	753.1	843.3
52.5°	382.0	401.3	420.0	439.9	464.6	493.8	524.0	566.0	620.0	692.6	780.2
55°	339.1	351.0	370.2	390.1	412.0	439.9	469.1	504.3	550.7	611.8	682.8
57.5°	295.0	308.8	324.1	344.1	366.3	387.6	413.9	445.7	482.4	537.6	598.4
60°	270.0	280.7	293.3	313.8	334.4	353.6	378.9	405.4	439.9	487.7	539.4
62.5°	242.4	252.5	264.1	282.0	302.0	319.7	341.7	369.8	399.0	442.6	487.9
65°	196.4	211.0	222.3	238.2	254.8	273.4	290.6	313.2	339.1	373.6	414.0
67.5°	162.8	170.3	180.7	195.2	212.2	228.1	244.4	262.1	284.5	311.2	343.3
70°	148.0	150.6	152.6	166.5	182.5	198.4	213.6	230.2	249.5	271.4	299.2
72.5°	130.4	133.1	135.6	141.6	154.3	170.3	186.0	198.4	216.6	234.7	257.3
75°	103.5	107.5	109.5	112.8	117.4	128.1	142.7	154.6	165.2	179.1	197.1
77.5°	78.8	81.1	83.2	86.7	89.6	94.5	102.7	113.5	123.4	131.5	143.8
80°	62.4	63.0	65.7	67.0	71.0	74.3	78.3	86.9	96.9	100.2	108.8
82.5°	47.0	47.6	49.8	51.1	52.9	55.7	60.8	63.0	70.9	75.2	80.7
85°	25.9	25.2	27.2	27.2	28.5	29.9	31.2	34.5	36.5	41.8	43.1
87.5°	10.4	10.4	10.6	10.3	9.9	10.6	10.9	11.3	12.1	13.5	15.5
90°	12.2	12.4	10.6	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4
92.5°	11.3	11.2	10.8	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3
95°	22.6	22.6	22.5	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4
97.5°	38.0	38.0	37.7	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6
100°	48.8	48.8	48.5	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9
102.5°	60.4	60.3	60.0	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7
105°	77.9	77.7	77.6	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0
107.5°	96.9	96.9	96.9	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3
110°	109.9	109.9	109.9	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	123.0	123.2	123.2	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3
115°	142.7	142.7	142.9	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3
117.5°	161.9	162.1	162.5	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2
120°	174.5	174.5	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5
122.5°	187.9	188.1	188.5	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7
125°	207.5	207.7	208.0	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6
127.5°	226.5	226.8	227.1	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1
130°	239.4	239.5	239.7	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7
132.5°	252.2	252.5	252.5	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7
135°	270.5	270.6	270.5	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0
137.5°	288.4	288.4	288.2	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3
140°	300.3	300.3	299.9	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4
142.5°	311.1	311.0	310.8	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7
145°	327.6	327.5	327.0	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9
147.5°	342.0	341.8	341.5	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4
150°	351.1	350.8	350.5	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3
152.5°	360.2	359.9	359.5	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1
155°	371.7	371.3	371.1	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2
157.5°	382.3	381.8	381.6	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4
160°	388.7	388.3	388.2	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2
162.5°	394.5	393.9	393.9	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4
165°	401.9	401.3	401.3	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7
167.5°	408.0	407.5	407.5	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6
170°	411.4	410.9	411.0	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3
172.5°	414.0	413.4	413.5	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8
175°	416.7	416.2	416.3	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0
177.5°	418.2	417.8	417.9	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331706
 CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1920.7	1922.3	1932.9	1937.7	1947.3	1951.0	1955.2	1954.2	1954.2	1956.3	1971.2
5°	1924.8	1938.1	1958.0	1977.3	1995.8	2011.8	2022.4	2033.0	2037.0	2056.2	2073.5
7.5°	1917.9	1942.4	1975.3	2004.6	2039.8	2067.2	2090.1	2110.6	2124.7	2152.7	2181.4
10°	1908.9	1943.4	1980.6	2018.4	2066.8	2103.3	2140.5	2169.0	2178.3	2220.1	2244.0
12.5°	1890.9	1937.0	1984.3	2033.3	2080.6	2130.9	2171.8	2200.3	2233.0	2270.5	2314.6
15°	1863.8	1916.9	1978.6	2041.6	2109.3	2170.3	2214.1	2263.9	2299.7	2340.9	2379.3
17.5°	1824.9	1893.3	1971.7	2044.7	2123.0	2188.5	2248.8	2296.5	2321.7	2345.2	2350.9
20°	1794.1	1867.8	1960.0	2046.3	2124.6	2200.2	2259.9	2299.7	2306.4	2307.0	2271.9
22.5°	1760.7	1843.9	1940.4	2028.7	2122.4	2206.6	2253.0	2270.0	2243.7	2198.7	2130.7
25°	1699.2	1795.5	1907.6	2008.4	2110.6	2190.2	2206.2	2176.3	2084.1	1987.2	1864.5
27.5°	1632.6	1740.8	1861.0	1973.1	2082.0	2131.3	2097.0	1989.3	1823.2	1678.8	1503.8
30°	1583.8	1705.2	1823.3	1948.7	2049.6	2070.8	1991.9	1833.3	1639.5	1421.9	1247.4
32.5°	1528.1	1655.3	1785.1	1914.8	1999.2	1978.4	1848.0	1652.8	1425.6	1211.7	1046.8
35°	1448.4	1579.8	1719.8	1849.9	1903.6	1814.0	1619.0	1364.8	1132.6	932.9	819.4
37.5°	1356.5	1499.5	1645.1	1764.5	1760.7	1611.4	1345.7	1083.4	888.2	770.1	689.3
40°	1291.2	1435.8	1593.1	1693.9	1650.8	1456.4	1168.4	920.9	778.3	684.1	625.0
42.5°	1228.6	1373.7	1529.9	1610.1	1535.1	1296.1	1009.2	815.3	697.6	624.1	576.2
45°	1122.0	1275.3	1419.9	1464.4	1330.3	1066.9	816.1	675.5	597.2	542.7	509.6
47.5°	1017.8	1168.6	1300.6	1301.4	1120.1	865.2	688.5	584.6	517.7	475.6	451.5
50°	954.1	1097.4	1208.2	1191.0	985.3	769.7	615.7	526.2	470.4	437.9	412.7
52.5°	882.5	1021.5	1117.5	1068.4	871.2	677.3	550.4	475.2	429.0	400.8	378.2
55°	778.3	901.7	969.4	895.1	710.6	563.3	465.1	406.1	371.6	347.7	328.4
57.5°	676.0	777.8	820.4	733.8	585.3	467.1	393.5	349.1	314.9	297.8	287.8
60°	611.8	698.7	728.5	633.0	508.9	408.7	348.3	307.2	282.0	270.7	260.8
62.5°	548.6	619.6	631.9	544.3	443.6	357.8	305.9	271.1	254.4	243.6	234.2
65°	455.2	506.3	500.3	430.0	351.0	284.0	246.2	224.9	212.3	197.1	180.5
67.5°	374.7	405.9	387.1	334.4	267.9	220.7	196.0	179.9	164.3	149.8	146.0
70°	323.8	341.7	321.8	273.4	219.6	185.1	165.2	146.0	136.7	133.4	127.4
72.5°	275.0	281.2	259.7	218.2	178.7	153.3	133.9	123.1	118.1	115.3	111.5
75°	206.4	201.7	183.1	150.6	124.1	106.8	100.9	96.9	93.6	90.9	88.9
77.5°	144.9	138.1	121.6	100.3	86.4	78.2	74.6	72.5	70.9	69.5	67.5
80°	108.8	104.2	87.6	71.7	65.7	61.7	59.7	57.1	57.1	55.7	53.7
82.5°	79.6	74.4	60.0	52.5	49.2	46.8	45.4	43.8	43.3	43.5	42.1
85°	41.8	33.8	29.9	28.5	26.5	25.2	25.9	24.5	24.5	24.5	23.9
87.5°	13.0	10.5	10.2	9.8	10.6	11.0	10.8	11.2	12.0	11.5	12.0
90°	1.3	2.2	3.2	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1
92.5°	7.0	7.7	8.4	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3
95°	19.2	19.9	20.7	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6
97.5°	34.3	34.9	35.6	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0
100°	45.5	46.1	46.8	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8
102.5°	57.2	57.7	58.2	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5
105°	76.2	76.4	76.7	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0
107.5°	95.7	96.0	96.4	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0
110°	108.2	108.7	109.2	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9



TEST NUMBER: P331706

CATALOG NUMBER: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.8	122.3	122.7	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8
115°	141.8	142.3	142.7	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6
117.5°	161.9	162.5	163.1	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7
120°	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5
122.5°	187.4	188.2	188.9	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7
125°	206.3	207.0	207.7	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3
127.5°	225.0	225.9	226.7	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3
130°	236.7	237.7	238.7	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2
132.5°	249.5	250.3	251.1	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8
135°	266.9	267.8	268.6	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5
137.5°	285.0	285.7	286.5	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3
140°	296.1	296.8	297.5	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3
142.5°	307.4	308.1	308.8	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2
145°	323.5	324.0	324.6	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7
147.5°	338.1	338.7	339.4	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1
150°	347.8	348.2	348.7	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3
152.5°	356.5	357.0	357.5	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5
155°	369.4	369.7	369.9	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1
157.5°	380.6	380.7	380.9	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8
160°	387.4	387.5	387.7	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2
162.5°	393.5	393.5	393.5	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0
165°	401.6	401.5	401.5	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4
167.5°	408.4	408.2	407.9	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6
170°	412.1	411.8	411.6	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0
172.5°	414.6	414.4	414.1	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5
175°	417.7	417.5	417.2	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3
177.5°	419.0	418.8	418.7	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1976.5	1983.4	1986.5	1986.5	1990.3	1988.7	1987.1
5°	2090.1	2102.7	2105.3	2117.3	2125.9	2123.2	2124.6
7.5°	2203.0	2223.3	2243.3	2252.5	2253.9	2259.2	2261.2
10°	2272.5	2289.1	2320.3	2315.6	2338.9	2352.1	2330.2
12.5°	2339.4	2361.8	2383.5	2389.4	2402.6	2406.8	2398.2
15°	2399.9	2411.9	2413.2	2409.9	2413.8	2410.5	2397.9
17.5°	2343.4	2324.0	2284.7	2266.1	2251.4	2229.7	2220.9
20°	2250.0	2192.9	2126.5	2100.0	2068.8	2007.8	2022.4
22.5°	2048.3	1983.2	1916.9	1839.4	1802.4	1744.5	1741.0
25°	1734.4	1622.3	1498.9	1412.6	1362.2	1304.5	1279.2
27.5°	1348.5	1207.3	1106.2	1055.0	1008.4	962.6	960.8
30°	1094.8	988.6	910.3	866.5	838.0	818.8	822.8
32.5°	922.8	850.1	797.3	760.9	739.8	725.3	725.1
35°	754.4	704.6	670.8	655.5	640.3	629.7	630.3
37.5°	645.6	615.7	596.9	580.0	570.5	565.3	562.4
40°	589.9	565.3	550.7	540.8	532.8	525.5	524.2
42.5°	545.8	525.5	510.9	503.1	495.6	490.5	489.1
45°	484.4	467.8	454.5	445.9	442.6	437.9	437.9
47.5°	430.9	414.6	404.2	398.8	393.1	390.0	389.9
50°	394.8	382.2	372.9	369.6	364.9	362.9	362.3
52.5°	362.4	353.0	346.4	344.1	342.1	339.6	340.0
55°	318.5	313.2	310.5	308.5	305.2	301.2	303.9
57.5°	281.5	276.9	269.8	263.5	260.5	257.7	258.8
60°	255.5	246.2	236.9	229.6	227.6	221.6	221.6
62.5°	222.5	209.5	198.1	194.0	192.0	189.2	188.7
65°	171.2	165.9	163.2	160.6	159.2	159.2	157.9
67.5°	141.9	139.7	136.8	136.2	134.8	134.4	134.0
70°	125.4	122.7	121.4	120.8	119.4	120.1	118.1
72.5°	109.5	107.4	107.1	105.4	104.6	104.7	103.2
75°	86.3	86.3	85.6	84.9	83.6	82.9	83.6
77.5°	66.4	66.5	65.3	65.2	65.0	65.2	64.5
80°	53.1	53.7	53.1	52.4	51.8	52.4	51.8
82.5°	41.9	41.0	40.9	40.7	40.6	40.2	40.1
85°	23.9	24.5	23.9	23.2	23.2	23.2	23.9
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	10.9
90°	11.9	11.7	11.7	11.8	11.9	11.9	12.0
92.5°	11.3	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.6	22.6	22.5	22.4	22.2	22.1	21.9
97.5°	38.0	38.0	38.0	38.0	38.0	38.0	37.9
100°	48.8	48.8	48.7	48.6	48.6	48.5	48.4
102.5°	60.5	60.6	60.6	60.5	60.4	60.4	60.3
105°	78.2	78.4	78.4	78.4	78.4	78.4	78.4
107.5°	97.1	97.1	97.0	96.6	96.3	95.9	95.5
110°	109.9	109.9	109.8	109.5	109.3	109.1	108.8



TEST NUMBER: P331706

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	122.6	122.4	122.2	122.1	121.9	121.7	121.5
115°	142.5	142.4	142.3	142.0	141.8	141.6	141.3
117.5°	161.5	161.3	161.1	160.9	160.7	160.4	160.2
120°	174.5	174.5	174.4	174.2	173.9	173.7	173.5
122.5°	187.5	187.3	187.2	187.0	186.8	186.6	186.5
125°	207.0	206.8	206.6	206.6	206.5	206.4	206.3
127.5°	226.0	225.7	225.4	225.2	224.9	224.7	224.4
130°	239.1	238.9	238.7	238.4	238.0	237.7	237.4
132.5°	251.5	251.2	250.9	250.6	250.4	250.1	249.9
135°	270.4	270.3	270.2	269.9	269.7	269.5	269.2
137.5°	288.2	288.2	288.0	287.7	287.4	287.1	286.7
140°	300.3	300.3	300.1	299.8	299.5	299.2	298.9
142.5°	311.2	311.3	311.2	310.9	310.5	310.2	309.9
145°	327.7	327.8	327.7	327.4	327.1	326.8	326.4
147.5°	342.3	342.5	342.4	342.1	341.8	341.5	341.2
150°	351.5	351.8	351.8	351.5	351.3	351.1	350.8
152.5°	360.8	361.1	361.1	360.8	360.5	360.2	359.9
155°	372.5	372.9	373.0	372.7	372.5	372.3	372.0
157.5°	383.4	383.9	384.0	383.6	383.2	382.9	382.5
160°	389.7	390.2	390.2	389.9	389.6	389.3	389.0
162.5°	395.5	396.1	396.1	395.8	395.4	395.0	394.6
165°	403.0	403.5	403.6	403.2	402.8	402.4	402.1
167.5°	409.1	409.7	409.8	409.4	408.9	408.5	408.1
170°	412.5	413.1	413.1	412.7	412.2	411.7	411.2
172.5°	415.1	415.6	415.7	415.2	414.7	414.3	413.8
175°	417.8	418.4	418.4	418.0	417.5	417.0	416.5
177.5°	418.9	419.3	419.3	418.9	418.6	418.2	417.8
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7

(END OF REPORT)