

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: P331705

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

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331705  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D330U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

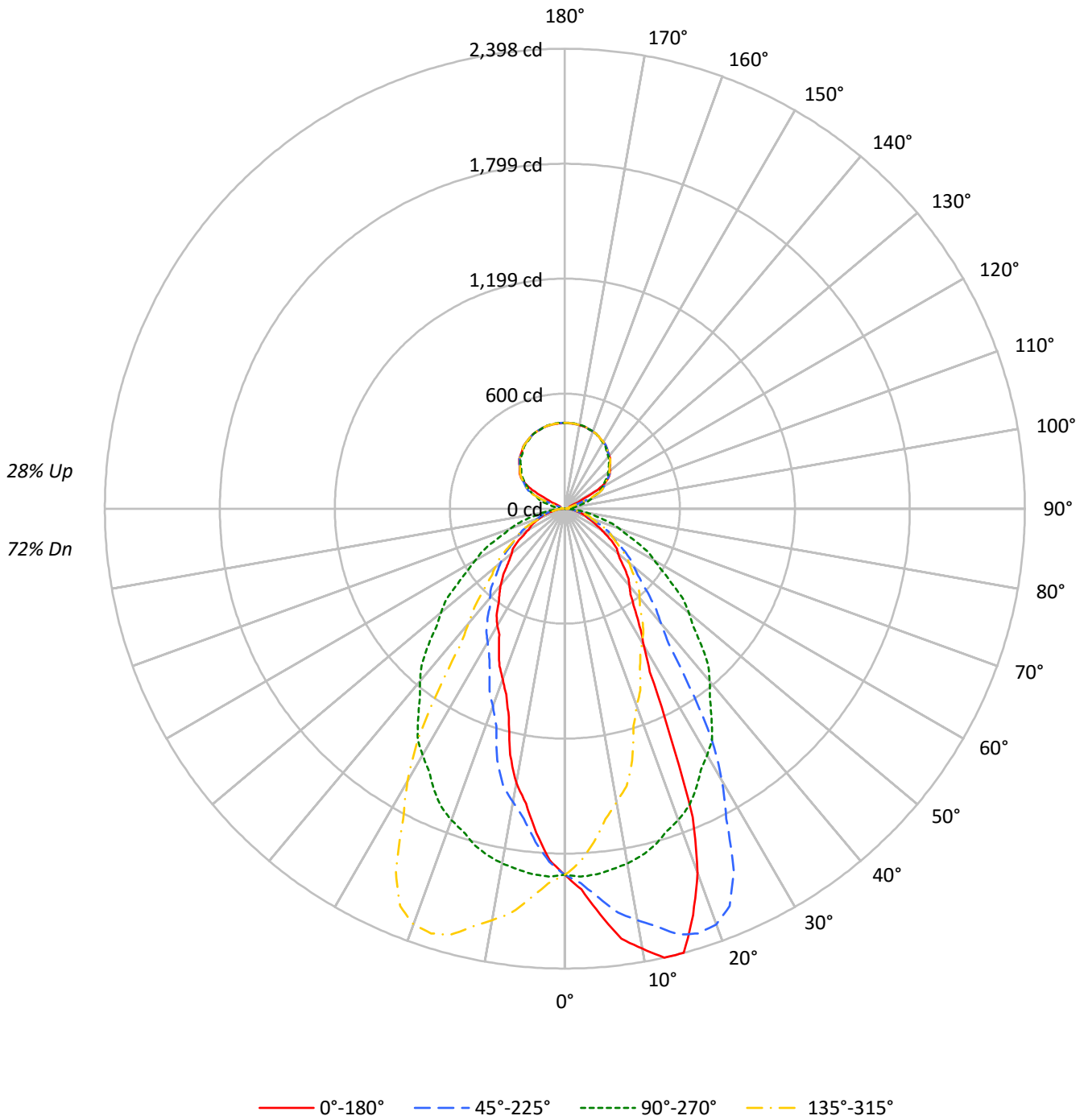
Lumens per Lamp: N/A  
Luminaire Lumens: 4610.8 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72				
1	104	100	96	93	98	95	92	89	85	83	81	77	75	73	69	68	66	63				
2	95	88	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	54				
3	88	79	72	66	83	75	69	64	68	63	59	62	58	55	56	53	51	47				
4	81	71	63	57	77	68	61	56	62	56	52	56	52	48	51	48	45	42				
5	75	64	56	50	71	61	54	49	56	50	46	51	46	43	47	43	40	37				
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	33				
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	32	30				
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	28				
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	34	30	27	25				
10	53	42	35	30	51	40	34	29	37	32	28	35	30	26	32	28	25	23				

**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	3.9
10°-20°	504.4	10.9
20°-30°	650.0	14.1
30°-40°	617.7	13.4
40°-50°	529.1	11.5
50°-60°	402.9	8.7
60°-70°	254.7	5.5
70°-80°	127.2	2.8
80°-90°	34.2	0.7
90°-100°	14.9	0.3
100°-110°	54.7	1.2
110°-120°	146.1	3.2
120°-130°	241.2	5.2
130°-140°	256.5	5.6
140°-150°	238.4	5.2
150°-160°	191.7	4.2
160°-170°	123.5	2.7
170°-180°	42.5	0.9
0°-30°	1335.4	29.0
0°-40°	1953.1	42.4
0°-60°	2885.1	62.6
0°-90°	3301.3	71.6
90°-120°	215.7	4.7
90°-150°	951.8	20.6
90°-180°	1309.0	28.4
0°-180°	4610.8	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°	9	0	9	0	9	5
95°	14	21	14	21	14	13
105°	25	98	25	98	25	26
115°	26	186	26	186	26	66
125°	276	263	276	263	276	239
135°	336	325	336	325	336	259
145°	383	377	383	377	383	240
155°	416	416	416	416	416	192
165°	437	438	437	438	437	123
175°	445	448	445	448	445	42
180°	447	447	447	447	447	



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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°	10.2	10.7	10.7	10.7	10.7	10.6	10.5	11.0	10.4	10.8	10.2
90°	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2	6.8	6.5	5.9
92.5°	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9	7.7	7.5	7.2
95°	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3	13.0	12.6	12.1
97.5°	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5	17.2	16.9	15.7
100°	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6	19.0	18.4	17.2
102.5°	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4	19.7	18.9	29.2
105°	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3	20.5	19.7	39.3
107.5°	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0	26.8	27.6	51.1
110°	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2	49.4	56.6	77.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3	116.5	142.7	147.8
115°	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0	166.2	199.5	197.7
117.5°	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9	212.9	221.0	219.7
120°	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7	237.9	237.0	235.7
122.5°	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3	252.8	252.3	250.9
125°	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2	273.7	273.2	271.8
127.5°	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6	292.8	292.1	291.1
130°	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8	305.0	304.3	303.5
132.5°	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8	317.1	316.4	315.6
135°	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8	334.1	333.4	332.7
137.5°	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6	349.9	349.2	348.5
140°	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8	360.2	359.5	358.8
142.5°	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3	369.7	369.1	368.2
145°	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5	383.0	382.5	381.3
147.5°	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0	394.6	394.3	393.1
150°	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1	401.7	401.3	400.1
152.5°	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6	408.1	407.7	406.6
155°	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3	416.9	416.4	415.6
157.5°	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7	424.2	423.7	423.1
160°	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0	428.5	428.1	427.7
162.5°	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9	432.5	432.0	431.6
165°	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8	437.3	436.8	436.6
167.5°	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9	441.4	440.9	440.7
170°	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0	443.5	443.0	442.8
172.5°	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5	445.0	444.5	444.4
175°	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2	446.7	446.2	446.1
177.5°	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4	447.0	446.6	446.5
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



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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°	10.1	10.5	10.4	9.7	10.1	10.5	13.0	15.5	13.5	12.1	11.2
90°	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5	6.5	6.4	6.3
95°	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0	18.6	16.3	13.9
97.5°	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7	35.0	28.3	21.7
100°	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2	47.4	37.5	27.7
102.5°	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3	72.2	70.1	68.1
105°	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3	100.4	102.6	104.8
107.5°	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6	127.4	129.1	130.9
110°	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2	144.7	146.3	147.8





TEST NUMBER: P331705

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8	161.1	162.5	163.8
115°	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9	187.1	188.4	189.6
117.5°	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3	210.6	212.0	213.4
120°	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3	227.4	228.5	229.6
122.5°	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8	242.0	243.1	244.2
125°	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9	263.8	264.7	265.7
127.5°	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8	283.9	284.9	286.0
130°	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5	296.7	297.8	299.0
132.5°	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5	309.4	310.4	311.4
135°	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3	326.4	327.6	328.7
137.5°	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3	343.1	343.9	344.7
140°	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4	354.0	354.5	355.1
142.5°	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7	363.2	363.7	364.3
145°	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3	377.3	377.2	377.1
147.5°	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1	389.8	389.5	389.2
150°	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3	397.8	397.3	396.8
152.5°	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3	404.8	404.2	403.6
155°	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5	414.8	414.2	413.5
157.5°	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4	422.9	422.3	421.8
160°	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	427.7	427.2	426.8
162.5°	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2	431.8	431.4	430.9
165°	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8	437.4	436.9	436.5
167.5°	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9	441.5	441.1	440.6
170°	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3	443.8	443.4	443.0
172.5°	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8	445.4	444.9	444.5
175°	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8	447.3	446.8	446.3
177.5°	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1	447.7	447.3	446.9
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331705

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

**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°	10.8	10.4	9.4	9.6	9.7	9.3	9.3	8.9	8.9	9.0	8.5
90°	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2	7.5	7.9	8.2
92.5°	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9	8.1	8.2	8.4
95°	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0	14.2
97.5°	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5	17.7	18.0	18.2
100°	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6	20.2	20.7	21.1
102.5°	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4	21.2	21.9	22.4
105°	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3	22.1	22.9	23.4
107.5°	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0	25.2	24.4	24.1
110°	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2	35.0	27.8	24.4



TEST NUMBER: P331705

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3	64.1	37.9	24.9
115°	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0	99.7	66.4	47.2
117.5°	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9	196.8	188.8	176.3
120°	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7	239.6	240.4	236.0
122.5°	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3	253.8	254.3	253.6
125°	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2	274.7	275.2	275.6
127.5°	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6	294.3	295.0	295.4
130°	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8	306.6	307.4	307.8
132.5°	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8	318.4	319.1	319.4
135°	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8	335.5	336.2	336.5
137.5°	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6	351.3	352.0	352.2
140°	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8	361.5	362.1	362.3
142.5°	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3	370.9	371.5	371.6
145°	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5	384.0	384.5	384.6
147.5°	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0	395.4	395.8	395.8
150°	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1	402.5	403.0	403.0
152.5°	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6	409.0	409.4	409.4
155°	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3	417.7	418.2	418.1
157.5°	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7	425.2	425.6	425.6
160°	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0	429.4	429.8	429.8
162.5°	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9	433.4	433.9	433.9
165°	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8	438.3	438.8	438.8
167.5°	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9	442.4	442.9	442.8
170°	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0	444.5	445.0	444.9
172.5°	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5	446.0	446.5	446.5
175°	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2	447.7	448.2	448.1
177.5°	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4	447.8	448.2	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331705

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

**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°	8.6	8.1	8.6	8.1	8.6	8.1	8.6	8.5	9.0	8.9	8.9
90°	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2
92.5°	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9
95°	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3
97.5°	18.3	18.4	18.5	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5
100°	21.2	21.4	21.5	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6
102.5°	22.6	22.8	23.0	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4
105°	23.7	24.0	24.3	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3
107.5°	24.4	24.7	25.0	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0
110°	24.7	25.0	25.3	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2



TEST NUMBER: P331705

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.1	25.3	25.6	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3
115°	42.0	36.9	31.7	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0
117.5°	159.3	142.3	125.3	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9
120°	226.3	216.6	206.9	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7
122.5°	251.8	249.9	248.0	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3
125°	275.8	276.0	276.2	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2
127.5°	295.5	295.5	295.5	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6
130°	307.7	307.6	307.6	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8
132.5°	319.3	319.3	319.2	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8
135°	336.4	336.2	336.1	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8
137.5°	352.0	351.8	351.5	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6
140°	361.9	361.6	361.2	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8
142.5°	371.2	370.9	370.5	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3
145°	384.2	383.9	383.5	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5
147.5°	395.5	395.2	394.9	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0
150°	402.7	402.3	401.9	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1
152.5°	408.9	408.5	408.0	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6
155°	417.5	417.0	416.4	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3
157.5°	425.0	424.5	423.9	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7
160°	429.3	428.8	428.3	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0
162.5°	433.2	432.6	432.0	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9
165°	438.3	437.8	437.3	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8
167.5°	442.2	441.5	440.9	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9
170°	444.3	443.6	443.0	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0
172.5°	445.8	445.2	444.5	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5
175°	447.4	446.7	445.9	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2
177.5°	447.6	447.1	446.6	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331705

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

**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°	9.3	9.3	9.7	9.6	9.4	10.4	10.8	11.2	12.1	13.5	15.5
90°	6.8	6.5	5.9	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.7	7.5	7.2	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5
95°	13.0	12.6	12.1	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0
97.5°	17.2	16.9	15.7	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7
100°	19.0	18.4	17.2	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2
102.5°	19.7	18.9	29.2	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3
105°	20.5	19.7	39.3	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3
107.5°	26.8	27.6	51.1	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6
110°	49.4	56.6	77.3	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2



TEST NUMBER: P331705

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	116.5	142.7	147.8	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8
115°	166.2	199.5	197.7	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9
117.5°	212.9	221.0	219.7	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3
120°	237.9	237.0	235.7	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3
122.5°	252.8	252.3	250.9	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8
125°	273.7	273.2	271.8	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9
127.5°	292.8	292.1	291.1	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8
130°	305.0	304.3	303.5	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5
132.5°	317.1	316.4	315.6	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5
135°	334.1	333.4	332.7	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3
137.5°	349.9	349.2	348.5	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3
140°	360.2	359.5	358.8	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4
142.5°	369.7	369.1	368.2	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7
145°	383.0	382.5	381.3	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3
147.5°	394.6	394.3	393.1	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1
150°	401.7	401.3	400.1	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3
152.5°	408.1	407.7	406.6	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3
155°	416.9	416.4	415.6	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5
157.5°	424.2	423.7	423.1	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4
160°	428.5	428.1	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1
162.5°	432.5	432.0	431.6	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2
165°	437.3	436.8	436.6	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8
167.5°	441.4	440.9	440.7	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9
170°	443.5	443.0	442.8	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3
172.5°	445.0	444.5	444.4	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8
175°	446.7	446.2	446.1	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8
177.5°	447.0	446.6	446.5	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331705

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

**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	10.1	9.7	10.4	10.5	10.1	10.2	10.8	10.4	11.0
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2
92.5°	6.5	6.4	6.3	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9
95°	18.6	16.3	13.9	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3
97.5°	35.0	28.3	21.7	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5
100°	47.4	37.5	27.7	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6
102.5°	72.2	70.1	68.1	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4
105°	100.4	102.6	104.8	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3
107.5°	127.4	129.1	130.9	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0
110°	144.7	146.3	147.8	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.1	162.5	163.8	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3
115°	187.1	188.4	189.6	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0
117.5°	210.6	212.0	213.4	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9
120°	227.4	228.5	229.6	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7
122.5°	242.0	243.1	244.2	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3
125°	263.8	264.7	265.7	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2
127.5°	283.9	284.9	286.0	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6
130°	296.7	297.8	299.0	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8
132.5°	309.4	310.4	311.4	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8
135°	326.4	327.6	328.7	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8
137.5°	343.1	343.9	344.7	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6
140°	354.0	354.5	355.1	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8
142.5°	363.2	363.7	364.3	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3
145°	377.3	377.2	377.1	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5
147.5°	389.8	389.5	389.2	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0
150°	397.8	397.3	396.8	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1
152.5°	404.8	404.2	403.6	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6
155°	414.8	414.2	413.5	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3
157.5°	422.9	422.3	421.8	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7
160°	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0
162.5°	431.8	431.4	430.9	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9
165°	437.4	436.9	436.5	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8
167.5°	441.5	441.1	440.6	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9
170°	443.8	443.4	443.0	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0
172.5°	445.4	444.9	444.5	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5
175°	447.3	446.8	446.3	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2
177.5°	447.7	447.3	446.9	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



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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°	10.5	10.6	10.7	10.7	10.7	10.7	10.2
90°	7.5	7.9	8.2	8.3	8.4	8.6	8.7
92.5°	8.1	8.2	8.4	8.5	8.6	8.6	8.7
95°	13.7	14.0	14.2	14.1	14.0	14.0	13.9
97.5°	17.7	18.0	18.2	18.3	18.4	18.5	18.6
100°	20.2	20.7	21.1	21.2	21.4	21.5	21.7
102.5°	21.2	21.9	22.4	22.6	22.8	23.0	23.2
105°	22.1	22.9	23.4	23.7	24.0	24.3	24.6
107.5°	25.2	24.4	24.1	24.4	24.7	25.0	25.3
110°	35.0	27.8	24.4	24.7	25.0	25.3	25.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.1	37.9	24.9	25.1	25.3	25.6	25.8
115°	99.7	66.4	47.2	42.0	36.9	31.7	26.5
117.5°	196.8	188.8	176.3	159.3	142.3	125.3	108.3
120°	239.6	240.4	236.0	226.3	216.6	206.9	197.2
122.5°	253.8	254.3	253.6	251.8	249.9	248.0	246.1
125°	274.7	275.2	275.6	275.8	276.0	276.2	276.4
127.5°	294.3	295.0	295.4	295.5	295.5	295.5	295.6
130°	306.6	307.4	307.8	307.7	307.6	307.6	307.5
132.5°	318.4	319.1	319.4	319.3	319.3	319.2	319.1
135°	335.5	336.2	336.5	336.4	336.2	336.1	335.9
137.5°	351.3	352.0	352.2	352.0	351.8	351.5	351.3
140°	361.5	362.1	362.3	361.9	361.6	361.2	360.8
142.5°	370.9	371.5	371.6	371.2	370.9	370.5	370.1
145°	384.0	384.5	384.6	384.2	383.9	383.5	383.1
147.5°	395.4	395.8	395.8	395.5	395.2	394.9	394.6
150°	402.5	403.0	403.0	402.7	402.3	401.9	401.6
152.5°	409.0	409.4	409.4	408.9	408.5	408.0	407.5
155°	417.7	418.2	418.1	417.5	417.0	416.4	415.8
157.5°	425.2	425.6	425.6	425.0	424.5	423.9	423.4
160°	429.4	429.8	429.8	429.3	428.8	428.3	427.8
162.5°	433.4	433.9	433.9	433.2	432.6	432.0	431.4
165°	438.3	438.8	438.8	438.3	437.8	437.3	436.8
167.5°	442.4	442.9	442.8	442.2	441.5	440.9	440.2
170°	444.5	445.0	444.9	444.3	443.6	443.0	442.3
172.5°	446.0	446.5	446.5	445.8	445.2	444.5	443.9
175°	447.7	448.2	448.1	447.4	446.7	445.9	445.2
177.5°	447.8	448.2	448.1	447.6	447.1	446.6	446.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8

(END OF REPORT)