

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: P331707-840

Luminaire Tested: **SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331707-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

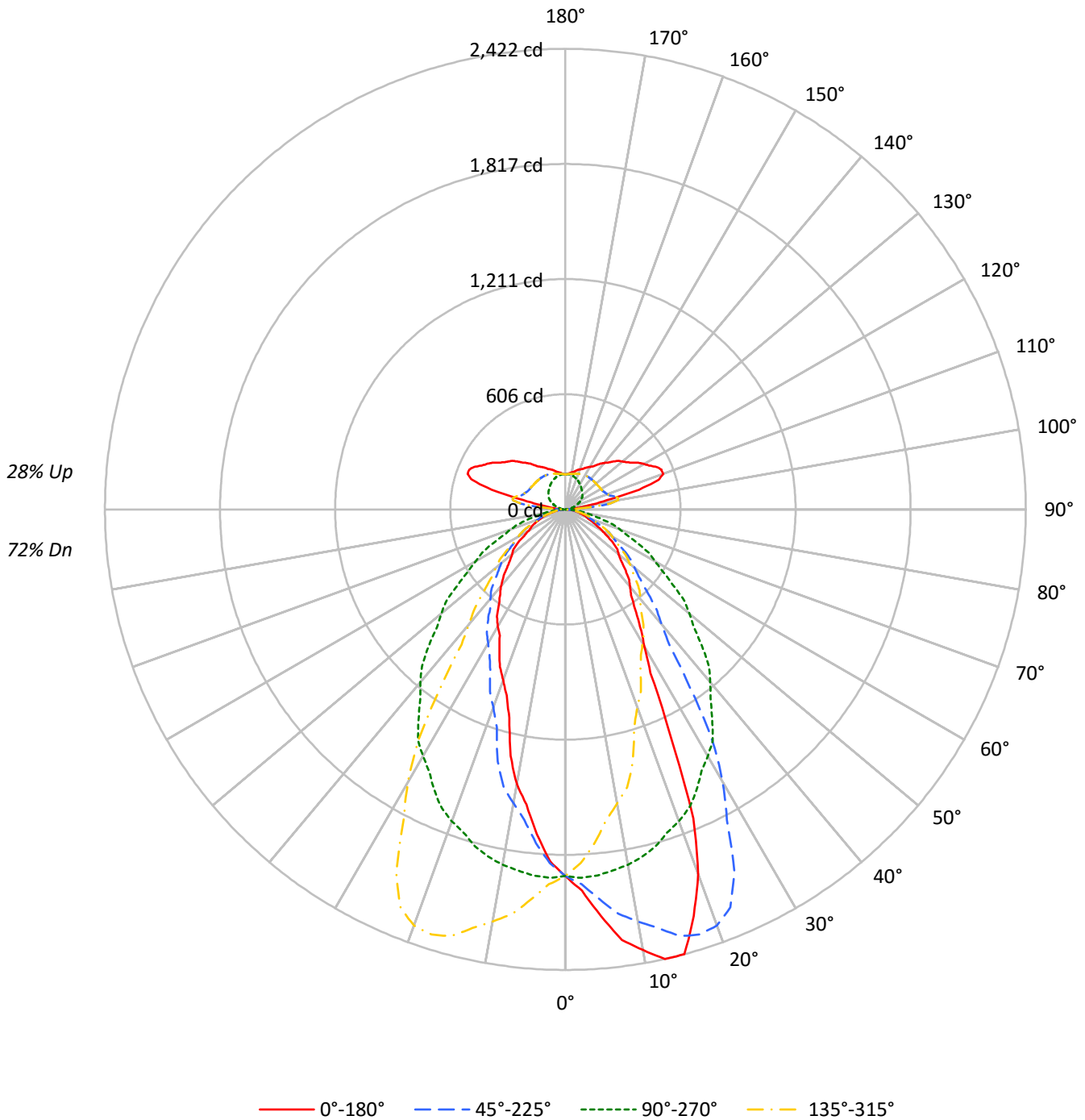
Lumens per Lamp: N/A
Luminaire Lumens: 4625.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76	72	
1	104	100	96	93	98	95	92	89	86	83	81	77	75	74	69	68	67	67	67	67	63	
2	96	89	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	58	58	58	55	
3	88	79	72	66	83	75	69	64	69	64	60	62	58	55	56	53	51	51	51	51	48	
4	81	71	63	58	77	68	61	56	62	56	52	56	52	48	51	48	45	45	45	45	42	
5	75	64	56	50	71	61	54	49	56	50	46	51	47	43	47	43	40	40	40	40	38	
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	36	36	36	34	
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	33	33	33	33	30	
8	61	49	41	36	58	47	40	35	43	38	33	40	35	32	37	33	30	30	30	30	28	
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	35	30	27	27	27	27	25	
10	54	42	35	30	51	40	34	29	37	32	28	35	30	27	32	28	25	25	25	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	4.0
10°-20°	509.4	11.0
20°-30°	656.4	14.2
30°-40°	623.8	13.5
40°-50°	534.4	11.6
50°-60°	406.9	8.8
60°-70°	257.2	5.6
70°-80°	128.5	2.8
80°-90°	35.1	0.8
90°-100°	74.2	1.6
100°-110°	251.8	5.4
110°-120°	267.5	5.8
120°-130°	220.2	4.8
130°-140°	176.8	3.8
140°-150°	133.6	2.9
150°-160°	93.9	2.0
160°-170°	55.3	1.2
170°-180°	18.0	0.4
0°-30°	1348.5	29.2
0°-40°	1972.3	42.6
0°-60°	2913.6	63.0
0°-90°	3334.4	72.1
90°-120°	593.4	12.8
90°-150°	1124.0	24.3
90°-180°	1291.0	27.9
0°-180°	4625.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	26
90°	12	0	12	0	12	7
95°	41	12	41	12	41	53
105°	402	44	402	44	402	389
115°	529	77	529	77	529	518
125°	429	107	429	107	429	388
135°	356	126	356	126	356	276
145°	284	143	284	143	284	180
155°	239	163	239	163	239	111
165°	209	178	209	178	209	60
175°	189	185	189	185	189	18
180°	186	186	186	186	186	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	10.9	11.5	11.5	11.5	11.5	11.4	11.2	11.9	11.5	12.1	11.5
90°	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4	11.8	12.1	11.8
92.5°	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1	39.2	46.4	45.7
95°	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5	122.4	139.9	123.8
97.5°	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1	250.4	238.7	179.9
100°	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8	333.3	281.9	194.1
102.5°	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3	364.1	283.3	188.6
105°	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5	359.3	264.4	178.0
107.5°	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7	328.0	244.1	172.8
110°	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5	308.3	234.4	171.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4	294.6	228.1	171.9
115°	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5	277.6	221.3	173.4
117.5°	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9	266.9	217.8	176.0
120°	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2	261.2	215.9	177.7
122.5°	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5	256.3	214.7	179.7
125°	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3	249.4	212.7	182.7
127.5°	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2	243.0	211.5	185.7
130°	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1	238.7	210.9	188.0
132.5°	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3	235.3	210.6	190.4
135°	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7	230.5	210.2	193.1
137.5°	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1	227.1	210.1	195.5
140°	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2	225.1	209.8	196.6
142.5°	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2	223.2	209.8	197.4
145°	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6	220.6	209.0	198.3
147.5°	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2	217.8	207.8	198.6
150°	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1	215.5	206.9	198.3
152.5°	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0	213.5	205.5	197.8
155°	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6	209.8	203.0	196.9
157.5°	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6	206.3	200.5	195.3
160°	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3	203.7	198.7	194.5
162.5°	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2	201.5	197.3	193.6
165°	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6	197.6	194.5	192.0
167.5°	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0	194.0	192.0	190.4
170°	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8	192.0	190.6	189.5
172.5°	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2	190.0	188.8	188.3
175°	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4	187.3	186.9	186.6
177.5°	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4	185.8	185.5	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	11.0	11.1	10.7	10.0	10.4	10.8	13.1	15.7	13.7	12.3	11.4
90°	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3	6.3	8.9	10.4
95°	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5	13.9	17.5	20.7
97.5°	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3	22.2	26.1	30.9
100°	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5	28.6	31.7	37.5
102.5°	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0	34.8	38.1	43.7
105°	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5	44.9	47.5	52.8
107.5°	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8	54.9	57.4	62.3
110°	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7	62.1	64.2	68.9



TEST NUMBER: P331707-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0	68.4	70.8	75.1
115°	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7	78.5	80.7	84.9
117.5°	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8	88.3	90.4	94.2
120°	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1	94.5	96.7	99.9
122.5°	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2	100.3	102.4	105.9
125°	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0	108.2	110.3	114.5
127.5°	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3	114.7	117.8	122.5
130°	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0	118.5	122.0	127.0
132.5°	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5	122.2	126.0	131.3
135°	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6	127.0	131.3	136.6
137.5°	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5	132.2	136.4	142.2
140°	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2	135.6	139.9	145.6
142.5°	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8	139.1	143.0	148.8
145°	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4	144.9	148.5	153.8
147.5°	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5	150.5	153.9	158.9
150°	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4	154.5	157.3	162.0
152.5°	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4	157.9	160.8	164.8
155°	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1	163.4	165.5	169.5
157.5°	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7	168.1	169.9	173.3
160°	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9	171.3	172.7	175.5
162.5°	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1	173.8	175.3	177.5
165°	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7	177.3	178.0	180.2
167.5°	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7	180.3	180.9	182.3
170°	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7	182.0	182.4	183.4
172.5°	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8	183.4	183.2	184.3
175°	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2	184.8	184.5	185.2
177.5°	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8	185.2	185.0	185.5
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331707-840

CATALOG NUMBER: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	11.0	10.7	10.0	10.5	10.9	10.5	10.4	9.8	9.7	9.8	9.3
90°	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4	10.7	11.4	11.8
92.5°	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1	26.7	23.7	21.5
95°	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5	71.7	56.8	48.9
97.5°	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1	178.4	139.9	114.1
100°	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8	281.6	232.7	189.5
102.5°	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3	386.3	350.5	304.8
105°	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5	473.8	478.5	466.8
107.5°	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7	467.5	504.5	521.8
110°	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5	447.5	493.1	522.4



TEST NUMBER: P331707-840

CATALOG NUMBER: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4	423.7	472.5	506.1
115°	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5	391.4	438.2	474.9
117.5°	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9	365.2	407.6	442.0
120°	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2	351.4	389.3	421.7
122.5°	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5	340.0	375.9	405.2
125°	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3	325.1	356.5	383.2
127.5°	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2	310.5	340.1	364.8
130°	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1	300.8	329.0	352.5
132.5°	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3	291.6	317.6	339.7
135°	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7	277.2	300.8	320.7
137.5°	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1	265.8	284.5	301.8
140°	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2	258.3	274.8	290.4
142.5°	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2	251.8	265.9	279.0
145°	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6	243.4	254.4	264.8
147.5°	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2	236.5	245.1	252.7
150°	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1	232.0	239.4	245.8
152.5°	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0	228.2	234.6	240.1
155°	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6	222.3	227.6	231.6
157.5°	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6	216.3	220.8	223.9
160°	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3	212.3	216.2	218.7
162.5°	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2	208.6	212.0	213.9
165°	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6	203.0	205.5	206.9
167.5°	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0	197.9	199.7	201.0
170°	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8	194.8	196.2	196.9
172.5°	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2	192.0	193.1	193.5
175°	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4	188.7	189.1	189.5
177.5°	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4	186.4	186.7	186.7
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331707-840
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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	9.3	8.8	9.3	8.8	9.3	8.8	9.3	9.3	9.8	9.7	9.8
90°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.4	10.7	11.4
92.5°	21.2	20.1	20.3	19.8	20.3	20.1	21.2	21.5	23.7	26.7	31.1
95°	44.2	41.4	40.3	40.7	40.3	41.4	44.2	48.9	56.8	71.7	93.5
97.5°	97.0	88.3	83.1	80.1	83.1	88.3	97.0	114.1	139.9	178.4	218.1
100°	159.9	144.5	134.2	127.7	134.2	144.5	159.9	189.5	232.7	281.6	325.8
102.5°	272.6	246.4	233.5	224.8	233.5	246.4	272.6	304.8	350.5	386.3	396.3
105°	444.5	422.4	407.1	402.1	407.1	422.4	444.5	466.8	478.5	473.8	433.5
107.5°	524.6	523.4	520.3	513.7	520.3	523.4	524.6	521.8	504.5	467.5	406.7
110°	537.8	544.5	547.8	547.3	547.8	544.5	537.8	522.4	493.1	447.5	383.5



TEST NUMBER: P331707-840

CATALOG NUMBER: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.5	538.8	544.8	546.7	544.8	538.8	527.5	506.1	472.5	423.7	362.4
115°	500.3	516.6	525.9	529.2	525.9	516.6	500.3	474.9	438.2	391.4	336.5
117.5°	467.9	485.2	494.9	497.7	494.9	485.2	467.9	442.0	407.6	365.2	316.9
120°	446.8	463.5	473.8	477.5	473.8	463.5	446.8	421.7	389.3	351.4	307.2
122.5°	427.6	444.1	453.3	456.3	453.3	444.1	427.6	405.2	375.9	340.0	299.5
125°	403.9	417.5	426.4	429.3	426.4	417.5	403.9	383.2	356.5	325.1	288.3
127.5°	382.8	395.6	403.2	405.6	403.2	395.6	382.8	364.8	340.1	310.5	277.2
130°	370.0	382.1	389.3	392.1	389.3	382.1	370.0	352.5	329.0	300.8	270.1
132.5°	356.9	369.0	375.6	378.2	375.6	369.0	356.9	339.7	317.6	291.6	263.3
135°	336.1	347.9	354.4	355.8	354.4	347.9	336.1	320.7	300.8	277.2	253.7
137.5°	315.9	326.0	331.6	333.8	331.6	326.0	315.9	301.8	284.5	265.8	246.1
140°	301.8	311.1	316.5	318.6	316.5	311.1	301.8	290.4	274.8	258.3	241.2
142.5°	289.8	298.3	303.1	303.5	303.1	298.3	289.8	279.0	265.9	251.8	237.2
145°	273.3	279.4	283.0	284.0	283.0	279.4	273.3	264.8	254.4	243.4	231.6
147.5°	259.7	264.6	267.0	267.7	267.0	264.6	259.7	252.7	245.1	236.5	227.2
150°	251.2	255.5	257.6	258.0	257.6	255.5	251.2	245.8	239.4	232.0	224.1
152.5°	244.4	248.0	249.6	249.7	249.6	248.0	244.4	240.1	234.6	228.2	221.0
155°	235.5	238.0	239.4	238.7	239.4	238.0	235.5	231.6	227.6	222.3	216.6
157.5°	226.6	228.7	229.3	229.3	229.3	228.7	226.6	223.9	220.8	216.3	211.6
160°	221.3	223.0	223.4	223.4	223.4	223.0	221.3	218.7	216.2	212.3	208.3
162.5°	216.4	217.6	217.9	217.6	217.9	217.6	216.4	213.9	212.0	208.6	205.2
165°	208.3	209.8	209.8	209.4	209.8	209.8	208.3	206.9	205.5	203.0	200.6
167.5°	201.6	202.4	202.3	201.9	202.3	202.4	201.6	201.0	199.7	197.9	196.0
170°	197.3	198.3	198.0	197.3	198.0	198.3	197.3	196.9	196.2	194.8	193.8
172.5°	193.9	194.4	194.0	193.6	194.0	194.4	193.9	193.5	193.1	192.0	191.2
175°	189.5	189.9	189.5	188.7	189.5	189.9	189.5	189.5	189.1	188.7	188.4
177.5°	186.7	186.7	186.4	185.8	186.4	186.7	186.7	186.7	186.7	186.4	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331707-840

CATALOG NUMBER: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	10.4	10.5	10.9	10.5	10.0	10.7	11.0	11.4	12.3	13.7	15.7
90°	11.8	12.1	11.8	9.6	7.2	5.4	4.2	3.5	2.8	1.4	0.4
92.5°	39.2	46.4	45.7	35.6	24.2	16.2	12.8	10.4	8.9	6.3	4.3
95°	122.4	139.9	123.8	82.4	51.4	34.9	26.4	20.7	17.5	13.9	12.5
97.5°	250.4	238.7	179.9	111.1	67.8	47.2	37.5	30.9	26.1	22.2	20.3
100°	333.3	281.9	194.1	117.0	73.5	54.6	44.6	37.5	31.7	28.6	27.5
102.5°	364.1	283.3	188.6	117.3	78.7	61.2	51.2	43.7	38.1	34.8	34.0
105°	359.3	264.4	178.0	119.2	87.5	70.7	60.7	52.8	47.5	44.9	43.5
107.5°	328.0	244.1	172.8	124.1	96.4	80.2	70.1	62.3	57.4	54.9	53.8
110°	308.3	234.4	171.7	128.1	102.4	86.7	76.3	68.9	64.2	62.1	60.7



TEST NUMBER: P331707-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	294.6	228.1	171.9	132.4	108.2	93.0	82.3	75.1	70.8	68.4	67.0
115°	277.6	221.3	173.4	138.8	117.0	101.7	92.1	84.9	80.7	78.5	76.7
117.5°	266.9	217.8	176.0	145.6	125.2	111.1	101.1	94.2	90.4	88.3	86.8
120°	261.2	215.9	177.7	150.3	131.0	117.0	107.0	99.9	96.7	94.5	93.1
122.5°	256.3	214.7	179.7	154.2	136.3	123.3	113.0	105.9	102.4	100.3	99.2
125°	249.4	212.7	182.7	160.6	144.5	131.7	121.7	114.5	110.3	108.2	107.0
127.5°	243.0	211.5	185.7	166.5	152.1	139.6	129.3	122.5	117.8	114.7	113.3
130°	238.7	210.9	188.0	170.2	156.6	144.1	134.2	127.0	122.0	118.5	117.0
132.5°	235.3	210.6	190.4	173.9	160.7	148.8	138.8	131.3	126.0	122.2	120.5
135°	230.5	210.2	193.1	178.7	166.3	154.8	144.9	136.6	131.3	127.0	125.6
137.5°	227.1	210.1	195.5	182.5	170.9	159.6	150.3	142.2	136.4	132.2	130.5
140°	225.1	209.8	196.6	184.5	173.4	162.7	153.4	145.6	139.9	135.6	134.2
142.5°	223.2	209.8	197.4	186.2	175.4	165.0	156.3	148.8	143.0	139.1	137.8
145°	220.6	209.0	198.3	188.4	178.4	168.7	161.0	153.8	148.5	144.9	143.4
147.5°	217.8	207.8	198.6	189.7	180.9	171.8	164.8	158.9	153.9	150.5	149.5
150°	215.5	206.9	198.3	190.2	182.0	173.8	167.3	162.0	157.3	154.5	153.4
152.5°	213.5	205.5	197.8	190.5	183.1	175.7	170.0	164.8	160.8	157.9	157.4
155°	209.8	203.0	196.9	190.9	184.8	178.7	173.4	169.5	165.5	163.4	163.1
157.5°	206.3	200.5	195.3	190.9	186.0	180.9	176.4	173.3	169.9	168.1	167.7
160°	203.7	198.7	194.5	190.9	186.6	182.4	178.4	175.5	172.7	171.3	170.9
162.5°	201.5	197.3	193.6	190.6	186.9	183.2	180.2	177.5	175.3	173.8	174.1
165°	197.6	194.5	192.0	189.9	187.3	184.1	182.0	180.2	178.0	177.3	177.7
167.5°	194.0	192.0	190.4	189.3	187.2	184.9	183.6	182.3	180.9	180.3	180.7
170°	192.0	190.6	189.5	188.7	186.9	185.2	184.1	183.4	182.4	182.0	182.7
172.5°	190.0	188.8	188.3	187.9	186.7	185.5	184.7	184.3	183.2	183.4	183.8
175°	187.3	186.9	186.6	186.9	186.2	185.5	185.2	185.2	184.5	184.8	185.2
177.5°	185.8	185.5	185.8	186.4	185.8	185.5	185.5	185.5	185.0	185.2	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



TEST NUMBER: P331707-840

CATALOG NUMBER: SA2XXRDIP-C865D330U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.1	10.8	10.4	10.0	10.7	11.1	11.0	11.5	12.1	11.5	11.9
90°	1.4	2.8	3.5	4.2	5.4	7.2	9.6	11.8	12.1	11.8	11.4
92.5°	6.3	8.9	10.4	12.8	16.2	24.2	35.6	45.7	46.4	39.2	31.1
95°	13.9	17.5	20.7	26.4	34.9	51.4	82.4	123.8	139.9	122.4	93.5
97.5°	22.2	26.1	30.9	37.5	47.2	67.8	111.1	179.9	238.7	250.4	218.1
100°	28.6	31.7	37.5	44.6	54.6	73.5	117.0	194.1	281.9	333.3	325.8
102.5°	34.8	38.1	43.7	51.2	61.2	78.7	117.3	188.6	283.3	364.1	396.3
105°	44.9	47.5	52.8	60.7	70.7	87.5	119.2	178.0	264.4	359.3	433.5
107.5°	54.9	57.4	62.3	70.1	80.2	96.4	124.1	172.8	244.1	328.0	406.7
110°	62.1	64.2	68.9	76.3	86.7	102.4	128.1	171.7	234.4	308.3	383.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	68.4	70.8	75.1	82.3	93.0	108.2	132.4	171.9	228.1	294.6	362.4
115°	78.5	80.7	84.9	92.1	101.7	117.0	138.8	173.4	221.3	277.6	336.5
117.5°	88.3	90.4	94.2	101.1	111.1	125.2	145.6	176.0	217.8	266.9	316.9
120°	94.5	96.7	99.9	107.0	117.0	131.0	150.3	177.7	215.9	261.2	307.2
122.5°	100.3	102.4	105.9	113.0	123.3	136.3	154.2	179.7	214.7	256.3	299.5
125°	108.2	110.3	114.5	121.7	131.7	144.5	160.6	182.7	212.7	249.4	288.3
127.5°	114.7	117.8	122.5	129.3	139.6	152.1	166.5	185.7	211.5	243.0	277.2
130°	118.5	122.0	127.0	134.2	144.1	156.6	170.2	188.0	210.9	238.7	270.1
132.5°	122.2	126.0	131.3	138.8	148.8	160.7	173.9	190.4	210.6	235.3	263.3
135°	127.0	131.3	136.6	144.9	154.8	166.3	178.7	193.1	210.2	230.5	253.7
137.5°	132.2	136.4	142.2	150.3	159.6	170.9	182.5	195.5	210.1	227.1	246.1
140°	135.6	139.9	145.6	153.4	162.7	173.4	184.5	196.6	209.8	225.1	241.2
142.5°	139.1	143.0	148.8	156.3	165.0	175.4	186.2	197.4	209.8	223.2	237.2
145°	144.9	148.5	153.8	161.0	168.7	178.4	188.4	198.3	209.0	220.6	231.6
147.5°	150.5	153.9	158.9	164.8	171.8	180.9	189.7	198.6	207.8	217.8	227.2
150°	154.5	157.3	162.0	167.3	173.8	182.0	190.2	198.3	206.9	215.5	224.1
152.5°	157.9	160.8	164.8	170.0	175.7	183.1	190.5	197.8	205.5	213.5	221.0
155°	163.4	165.5	169.5	173.4	178.7	184.8	190.9	196.9	203.0	209.8	216.6
157.5°	168.1	169.9	173.3	176.4	180.9	186.0	190.9	195.3	200.5	206.3	211.6
160°	171.3	172.7	175.5	178.4	182.4	186.6	190.9	194.5	198.7	203.7	208.3
162.5°	173.8	175.3	177.5	180.2	183.2	186.9	190.6	193.6	197.3	201.5	205.2
165°	177.3	178.0	180.2	182.0	184.1	187.3	189.9	192.0	194.5	197.6	200.6
167.5°	180.3	180.9	182.3	183.6	184.9	187.2	189.3	190.4	192.0	194.0	196.0
170°	182.0	182.4	183.4	184.1	185.2	186.9	188.7	189.5	190.6	192.0	193.8
172.5°	183.4	183.2	184.3	184.7	185.5	186.7	187.9	188.3	188.8	190.0	191.2
175°	184.8	184.5	185.2	185.2	185.5	186.2	186.9	186.6	186.9	187.3	188.4
177.5°	185.2	185.0	185.5	185.5	185.5	185.8	186.4	185.8	185.5	185.8	186.4
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5	185.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	11.2	11.4	11.5	11.5	11.5	11.5	10.9
90°	10.7	11.4	11.8	11.8	11.8	11.8	11.8
92.5°	26.7	23.7	21.5	21.2	20.1	20.3	19.8
95°	71.7	56.8	48.9	44.2	41.4	40.3	40.7
97.5°	178.4	139.9	114.1	97.0	88.3	83.1	80.1
100°	281.6	232.7	189.5	159.9	144.5	134.2	127.7
102.5°	386.3	350.5	304.8	272.6	246.4	233.5	224.8
105°	473.8	478.5	466.8	444.5	422.4	407.1	402.1
107.5°	467.5	504.5	521.8	524.6	523.4	520.3	513.7
110°	447.5	493.1	522.4	537.8	544.5	547.8	547.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	423.7	472.5	506.1	527.5	538.8	544.8	546.7
115°	391.4	438.2	474.9	500.3	516.6	525.9	529.2
117.5°	365.2	407.6	442.0	467.9	485.2	494.9	497.7
120°	351.4	389.3	421.7	446.8	463.5	473.8	477.5
122.5°	340.0	375.9	405.2	427.6	444.1	453.3	456.3
125°	325.1	356.5	383.2	403.9	417.5	426.4	429.3
127.5°	310.5	340.1	364.8	382.8	395.6	403.2	405.6
130°	300.8	329.0	352.5	370.0	382.1	389.3	392.1
132.5°	291.6	317.6	339.7	356.9	369.0	375.6	378.2
135°	277.2	300.8	320.7	336.1	347.9	354.4	355.8
137.5°	265.8	284.5	301.8	315.9	326.0	331.6	333.8
140°	258.3	274.8	290.4	301.8	311.1	316.5	318.6
142.5°	251.8	265.9	279.0	289.8	298.3	303.1	303.5
145°	243.4	254.4	264.8	273.3	279.4	283.0	284.0
147.5°	236.5	245.1	252.7	259.7	264.6	267.0	267.7
150°	232.0	239.4	245.8	251.2	255.5	257.6	258.0
152.5°	228.2	234.6	240.1	244.4	248.0	249.6	249.7
155°	222.3	227.6	231.6	235.5	238.0	239.4	238.7
157.5°	216.3	220.8	223.9	226.6	228.7	229.3	229.3
160°	212.3	216.2	218.7	221.3	223.0	223.4	223.4
162.5°	208.6	212.0	213.9	216.4	217.6	217.9	217.6
165°	203.0	205.5	206.9	208.3	209.8	209.8	209.4
167.5°	197.9	199.7	201.0	201.6	202.4	202.3	201.9
170°	194.8	196.2	196.9	197.3	198.3	198.0	197.3
172.5°	192.0	193.1	193.5	193.9	194.4	194.0	193.6
175°	188.7	189.1	189.5	189.5	189.9	189.5	188.7
177.5°	186.4	186.7	186.7	186.7	186.7	186.4	185.8
180°	185.5	185.5	185.5	185.5	185.5	185.5	185.5

(END OF REPORT)