

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: P331719-840

Luminaire Tested: **SA2XXRDIP-C865D725U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331719-840
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-C865D725U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

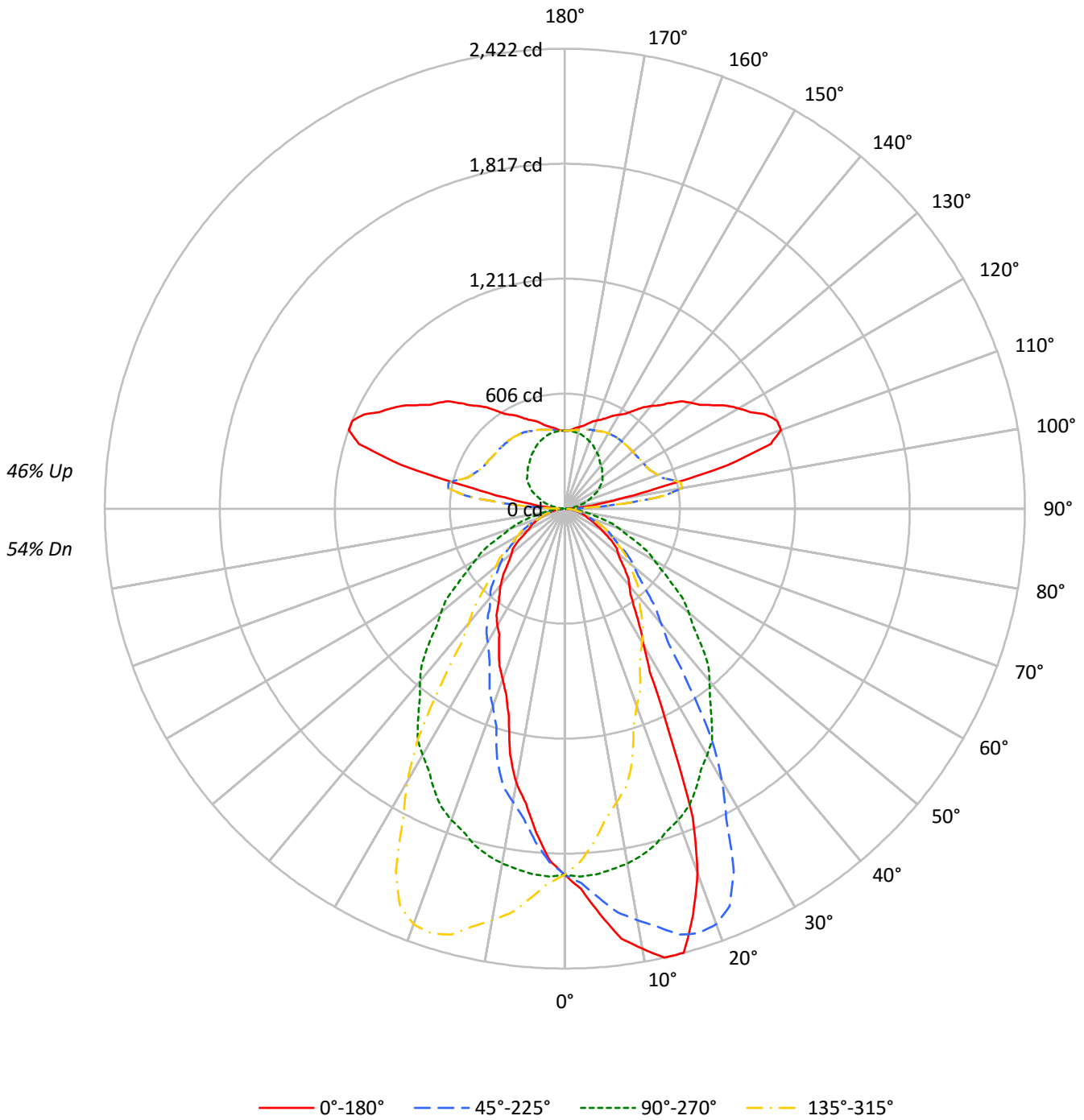
Lumens per Lamp: N/A
Luminaire Lumens: 6192.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	99	95	92	89	92	89	86	83	76	74	72	65	63	62	54	53	52	47
2	91	84	79	74	85	79	74	69	68	64	61	58	55	53	49	47	45	41
3	84	75	68	63	78	70	64	59	61	56	52	52	49	46	44	42	40	36
4	77	67	60	54	72	63	56	51	55	49	45	47	43	40	40	37	35	31
5	71	60	53	47	66	57	50	45	49	44	40	43	39	35	36	33	31	28
6	66	55	47	41	61	51	44	39	45	39	35	39	35	32	33	30	28	25
7	61	50	42	37	57	47	40	35	41	36	32	36	32	28	31	28	25	23
8	57	45	38	33	53	43	36	31	38	32	29	33	29	26	29	25	23	21
9	53	42	34	30	50	39	33	28	35	30	26	31	26	23	27	23	21	19
10	50	38	32	27	47	36	30	26	32	27	24	29	24	21	25	22	19	17

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	3.0
10°-20°	509.4	8.2
20°-30°	656.4	10.6
30°-40°	623.8	10.1
40°-50°	534.4	8.6
50°-60°	406.9	6.6
60°-70°	257.2	4.2
70°-80°	128.5	2.1
80°-90°	37.1	0.6
90°-100°	164.1	2.7
100°-110°	557.0	9.0
110°-120°	591.7	9.6
120°-130°	487.1	7.9
130°-140°	391.2	6.3
140°-150°	295.6	4.8
150°-160°	207.7	3.4
160°-170°	122.3	2.0
170°-180°	39.8	0.6
0°-30°	1348.5	21.8
0°-40°	1972.3	31.8
0°-60°	2913.6	47.0
0°-90°	3336.4	53.9
90°-120°	1312.8	21.2
90°-150°	2486.7	40.2
90°-180°	2856.0	46.1
0°-180°	6192.9	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	27
90°	26	1	26	1	26	15
95°	90	28	90	28	90	117
105°	890	96	890	96	890	861
115°	1171	170	1171	170	1171	1146
125°	950	237	950	237	950	858
135°	787	278	787	278	787	611
145°	628	317	628	317	628	399
155°	528	361	528	361	528	246
165°	463	393	463	393	463	132
175°	418	410	418	410	418	41
180°	410	410	410	410	410	



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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°	13.8	14.3	14.3	14.3	14.3	14.1	13.8	14.7	14.3	15.0	14.3
90°	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2	26.1	26.9	26.1
92.5°	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9	86.6	102.6	101.2
95°	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8	270.7	309.4	274.0
97.5°	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6	554.2	528.3	397.9
100°	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7	737.3	623.6	429.4
102.5°	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8	805.5	626.8	417.5
105°	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2	795.0	584.9	393.9
107.5°	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8	725.6	540.1	382.2
110°	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6	682.1	518.7	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9	651.8	504.7	380.3
115°	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4	614.2	489.5	383.6
117.5°	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1	590.5	482.0	389.3
120°	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6	577.8	477.6	393.1
122.5°	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7	567.1	475.0	397.6
125°	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8	551.8	470.5	404.1
127.5°	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4	537.6	467.8	411.0
130°	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5	528.2	466.6	416.1
132.5°	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4	520.6	466.0	421.1
135°	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3	510.0	464.9	427.1
137.5°	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4	502.5	464.8	432.4
140°	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6	498.2	464.1	434.9
142.5°	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8	493.7	464.1	436.9
145°	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3	487.9	462.6	438.9
147.5°	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7	481.9	459.8	439.6
150°	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7	476.8	457.9	438.9
152.5°	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8	472.4	454.7	437.7
155°	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2	464.1	449.2	435.8
157.5°	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0	456.5	443.5	432.1
160°	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0	450.8	439.7	430.2
162.5°	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0	445.7	436.6	428.4
165°	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6	437.4	430.2	424.7
167.5°	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7	429.1	424.7	421.1
170°	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7	424.7	421.5	419.2
172.5°	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9	420.3	417.8	416.7
175°	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8	414.4	413.6	412.8
177.5°	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4	411.1	410.5	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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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°	13.3	12.8	12.0	11.0	11.2	11.4	13.5	15.7	14.0	13.0	12.3
90°	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8	3.1	6.4	7.9
92.5°	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6	13.9	19.6	23.0
95°	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7	30.8	38.7	45.7
97.5°	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0	49.3	57.7	68.4
100°	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8	63.1	70.3	82.9
102.5°	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3	77.1	84.1	96.7
105°	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3	99.5	105.0	116.8
107.5°	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1	121.6	126.9	137.8
110°	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2	137.3	142.1	152.4



TEST NUMBER: P331719-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0	151.3	156.6	166.2
115°	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8	173.7	178.4	187.8
117.5°	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2	195.3	200.1	208.4
120°	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0	209.2	213.9	221.1
122.5°	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3	221.9	226.5	234.3
125°	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8	239.2	243.9	253.4
127.5°	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7	253.9	260.5	270.9
130°	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9	262.1	269.9	281.0
132.5°	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5	270.3	278.8	290.5
135°	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9	281.0	290.5	302.4
137.5°	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6	292.4	301.8	314.5
140°	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8	299.9	309.4	322.0
142.5°	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0	307.6	316.4	329.0
145°	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3	320.5	328.4	340.2
147.5°	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6	333.0	340.5	351.4
150°	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4	341.8	348.1	358.4
152.5°	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3	349.4	355.7	364.7
155°	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7	361.5	366.3	375.0
157.5°	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2	371.9	375.8	383.3
160°	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1	378.9	382.0	388.4
162.5°	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1	384.6	387.8	392.8
165°	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1	392.3	393.9	398.7
167.5°	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8	398.8	400.2	403.2
170°	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1	402.6	403.3	405.8
172.5°	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7	405.8	405.3	407.7
175°	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7	408.9	408.1	409.7
177.5°	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1	409.9	409.2	410.5
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331719-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-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°	12.1	12.0	11.7	12.8	13.8	13.4	13.2	12.5	12.2	12.5	12.2
90°	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2	23.7	25.2	26.1
92.5°	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9	59.1	52.4	47.6
95°	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8	158.6	125.5	108.2
97.5°	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6	394.9	309.4	252.5
100°	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7	622.9	514.7	419.2
102.5°	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8	854.6	775.5	674.3
105°	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2	1048.3	1058.6	1032.6
107.5°	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8	1034.1	1116.2	1154.5
110°	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6	990.0	1091.0	1155.7



TEST NUMBER: P331719-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9	937.5	1045.5	1119.7
115°	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4	866.0	969.4	1050.7
117.5°	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1	807.9	901.7	978.0
120°	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6	777.6	861.2	933.1
122.5°	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7	752.3	831.5	896.5
125°	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8	719.1	788.6	847.8
127.5°	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4	686.9	752.5	807.1
130°	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5	665.5	727.8	779.9
132.5°	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4	645.3	702.6	751.5
135°	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3	613.4	665.5	709.6
137.5°	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4	587.9	629.3	667.8
140°	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6	571.6	607.8	642.6
142.5°	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8	557.0	588.2	617.3
145°	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3	538.4	562.9	585.7
147.5°	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7	523.2	542.3	559.1
150°	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7	513.1	529.7	543.9
152.5°	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8	504.9	519.0	531.3
155°	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2	491.8	503.6	512.3
157.5°	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0	478.6	488.5	495.2
160°	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0	469.7	478.4	483.9
162.5°	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0	461.5	468.9	473.2
165°	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6	449.2	454.7	457.9
167.5°	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7	438.0	441.7	444.6
170°	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7	431.0	434.1	435.8
172.5°	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9	424.7	427.3	428.2
175°	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8	417.6	418.4	419.2
177.5°	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4	412.4	413.0	413.0
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331719-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-UDD-A4

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°	12.2	11.6	12.2	11.6	12.2	11.6	12.2	12.2	12.5	12.2	12.5
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2
92.5°	46.9	44.3	45.0	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9
95°	97.9	91.6	89.2	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8
97.5°	214.7	195.3	183.8	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6
100°	353.7	319.7	296.8	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7
102.5°	603.1	545.1	516.5	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8
105°	983.6	934.6	900.7	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2
107.5°	1160.6	1157.9	1151.1	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8
110°	1189.6	1204.7	1211.7	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6



TEST NUMBER: P331719-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1166.9	1192.0	1205.5	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9
115°	1106.7	1143.1	1163.6	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4
117.5°	1035.1	1073.5	1095.1	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1
120°	988.4	1025.4	1048.3	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6
122.5°	946.0	982.5	1002.9	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7
125°	893.6	923.6	943.3	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8
127.5°	847.1	875.1	892.2	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4
130°	818.6	845.5	861.2	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5
132.5°	789.6	816.4	830.9	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4
135°	743.7	769.7	783.9	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3
137.5°	698.8	721.2	733.7	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4
140°	667.8	688.3	700.2	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6
142.5°	641.4	659.9	670.6	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8
145°	604.7	618.1	626.0	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3
147.5°	574.7	585.4	590.8	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7
150°	555.7	565.2	570.0	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7
152.5°	540.6	548.8	552.3	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8
155°	521.0	526.5	529.7	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2
157.5°	501.4	506.0	507.5	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0
160°	489.5	493.4	494.1	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0
162.5°	478.7	481.4	482.2	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0
165°	461.0	464.1	464.1	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6
167.5°	446.1	447.8	447.6	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7
170°	436.6	438.9	438.1	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7
172.5°	429.0	430.1	429.3	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9
175°	419.2	420.0	419.2	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8
177.5°	413.0	413.0	412.4	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331719-840

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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°	13.2	13.4	13.8	12.8	11.7	12.0	12.1	12.3	13.0	14.0	15.7
90°	26.1	26.9	26.1	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8
92.5°	86.6	102.6	101.2	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6
95°	270.7	309.4	274.0	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7
97.5°	554.2	528.3	397.9	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0
100°	737.3	623.6	429.4	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8
102.5°	805.5	626.8	417.5	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3
105°	795.0	584.9	393.9	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3
107.5°	725.6	540.1	382.2	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1
110°	682.1	518.7	379.7	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2



TEST NUMBER: P331719-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.8	504.7	380.3	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0
115°	614.2	489.5	383.6	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8
117.5°	590.5	482.0	389.3	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2
120°	577.8	477.6	393.1	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0
122.5°	567.1	475.0	397.6	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3
125°	551.8	470.5	404.1	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8
127.5°	537.6	467.8	411.0	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7
130°	528.2	466.6	416.1	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9
132.5°	520.6	466.0	421.1	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5
135°	510.0	464.9	427.1	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9
137.5°	502.5	464.8	432.4	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6
140°	498.2	464.1	434.9	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8
142.5°	493.7	464.1	436.9	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0
145°	487.9	462.6	438.9	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3
147.5°	481.9	459.8	439.6	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6
150°	476.8	457.9	438.9	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4
152.5°	472.4	454.7	437.7	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3
155°	464.1	449.2	435.8	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7
157.5°	456.5	443.5	432.1	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2
160°	450.8	439.7	430.2	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1
162.5°	445.7	436.6	428.4	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1
165°	437.4	430.2	424.7	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1
167.5°	429.1	424.7	421.1	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8
170°	424.7	421.5	419.2	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1
172.5°	420.3	417.8	416.7	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7
175°	414.4	413.6	412.8	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7
177.5°	411.1	410.5	411.1	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331719-840

CATALOG NUMBER: SA2XXRDIP-C865D725U840-4F0-1E-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°	13.5	11.4	11.2	11.0	12.0	12.8	13.3	14.3	15.0	14.3	14.7
90°	3.1	6.4	7.9	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2
92.5°	13.9	19.6	23.0	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9
95°	30.8	38.7	45.7	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8
97.5°	49.3	57.7	68.4	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6
100°	63.1	70.3	82.9	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7
102.5°	77.1	84.1	96.7	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8
105°	99.5	105.0	116.8	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2
107.5°	121.6	126.9	137.8	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8
110°	137.3	142.1	152.4	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.3	156.6	166.2	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9
115°	173.7	178.4	187.8	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4
117.5°	195.3	200.1	208.4	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1
120°	209.2	213.9	221.1	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6
122.5°	221.9	226.5	234.3	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7
125°	239.2	243.9	253.4	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8
127.5°	253.9	260.5	270.9	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4
130°	262.1	269.9	281.0	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5
132.5°	270.3	278.8	290.5	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4
135°	281.0	290.5	302.4	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3
137.5°	292.4	301.8	314.5	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4
140°	299.9	309.4	322.0	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6
142.5°	307.6	316.4	329.0	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8
145°	320.5	328.4	340.2	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3
147.5°	333.0	340.5	351.4	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7
150°	341.8	348.1	358.4	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7
152.5°	349.4	355.7	364.7	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8
155°	361.5	366.3	375.0	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2
157.5°	371.9	375.8	383.3	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0
160°	378.9	382.0	388.4	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0
162.5°	384.6	387.8	392.8	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0
165°	392.3	393.9	398.7	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6
167.5°	398.8	400.2	403.2	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7
170°	402.6	403.3	405.8	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7
172.5°	405.8	405.3	407.7	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9
175°	408.9	408.1	409.7	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8
177.5°	409.9	409.2	410.5	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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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°	13.8	14.1	14.3	14.3	14.3	14.3	13.8
90°	23.7	25.2	26.1	26.1	26.1	26.1	26.1
92.5°	59.1	52.4	47.6	46.9	44.3	45.0	43.7
95°	158.6	125.5	108.2	97.9	91.6	89.2	90.0
97.5°	394.9	309.4	252.5	214.7	195.3	183.8	177.1
100°	622.9	514.7	419.2	353.7	319.7	296.8	282.6
102.5°	854.6	775.5	674.3	603.1	545.1	516.5	497.4
105°	1048.3	1058.6	1032.6	983.6	934.6	900.7	889.7
107.5°	1034.1	1116.2	1154.5	1160.6	1157.9	1151.1	1136.4
110°	990.0	1091.0	1155.7	1189.6	1204.7	1211.7	1210.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	937.5	1045.5	1119.7	1166.9	1192.0	1205.5	1209.7
115°	866.0	969.4	1050.7	1106.7	1143.1	1163.6	1170.7
117.5°	807.9	901.7	978.0	1035.1	1073.5	1095.1	1101.1
120°	777.6	861.2	933.1	988.4	1025.4	1048.3	1056.2
122.5°	752.3	831.5	896.5	946.0	982.5	1002.9	1009.5
125°	719.1	788.6	847.8	893.6	923.6	943.3	949.7
127.5°	686.9	752.5	807.1	847.1	875.1	892.2	897.3
130°	665.5	727.8	779.9	818.6	845.5	861.2	867.6
132.5°	645.3	702.6	751.5	789.6	816.4	830.9	836.6
135°	613.4	665.5	709.6	743.7	769.7	783.9	787.1
137.5°	587.9	629.3	667.8	698.8	721.2	733.7	738.4
140°	571.6	607.8	642.6	667.8	688.3	700.2	705.0
142.5°	557.0	588.2	617.3	641.4	659.9	670.6	671.5
145°	538.4	562.9	585.7	604.7	618.1	626.0	628.3
147.5°	523.2	542.3	559.1	574.7	585.4	590.8	592.2
150°	513.1	529.7	543.9	555.7	565.2	570.0	570.8
152.5°	504.9	519.0	531.3	540.6	548.8	552.3	552.4
155°	491.8	503.6	512.3	521.0	526.5	529.7	528.2
157.5°	478.6	488.5	495.2	501.4	506.0	507.5	507.5
160°	469.7	478.4	483.9	489.5	493.4	494.1	494.1
162.5°	461.5	468.9	473.2	478.7	481.4	482.2	481.5
165°	449.2	454.7	457.9	461.0	464.1	464.1	463.4
167.5°	438.0	441.7	444.6	446.1	447.8	447.6	446.7
170°	431.0	434.1	435.8	436.6	438.9	438.1	436.6
172.5°	424.7	427.3	428.2	429.0	430.1	429.3	428.4
175°	417.6	418.4	419.2	419.2	420.0	419.2	417.6
177.5°	412.4	413.0	413.0	413.0	413.0	412.4	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)