

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: P331711-840

Luminaire Tested: **SA2XXRDIP-C865D530U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331711-840
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-C865D530U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

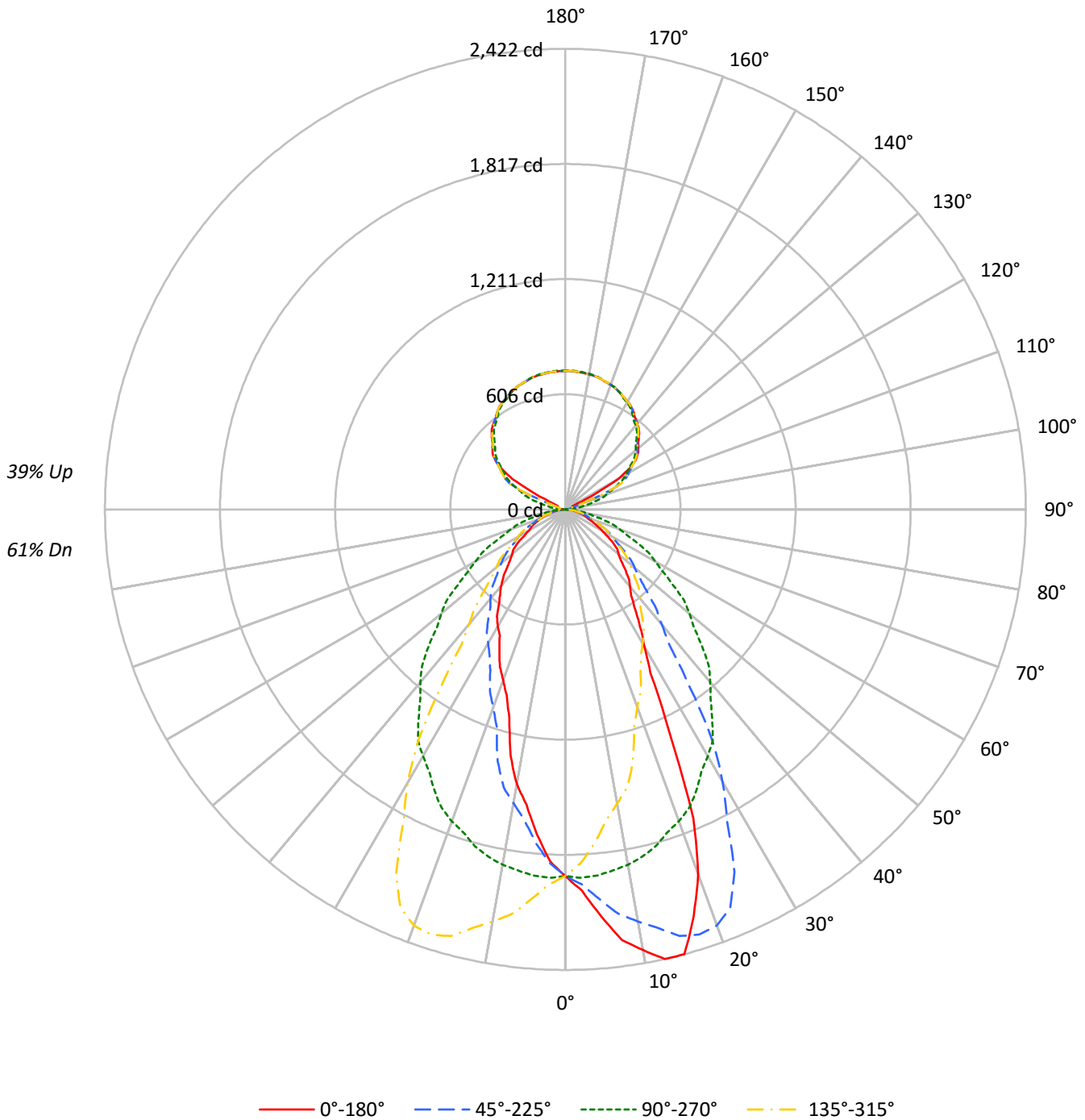
Lumens per Lamp: N/A
Luminaire Lumens: 5469.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.8
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



TEST NUMBER: P331711-840
CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	94	90	95	91	88	85	80	78	75	70	68	66	60	59	58	58	58	58	53	
2	93	86	80	75	87	81	76	72	71	67	64	62	59	57	54	52	50	50	50	50	46	
3	86	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	44	44	44	40	
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	39	39	39	36	
5	73	62	54	48	68	58	51	46	52	47	42	46	42	38	41	37	35	35	35	35	32	
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	31	31	31	28	
7	63	51	43	38	59	48	41	37	43	38	34	39	34	31	34	31	28	28	28	28	26	
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	26	26	26	23	
9	55	43	36	31	52	41	34	30	37	31	28	33	29	26	30	26	23	23	23	23	21	
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	22	22	22	20	

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



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.3
10°-20°	509.4	9.3
20°-30°	656.4	12.0
30°-40°	623.8	11.4
40°-50°	534.4	9.8
50°-60°	406.9	7.4
60°-70°	257.2	4.7
70°-80°	128.5	2.3
80°-90°	35.2	0.6
90°-100°	24.3	0.4
100°-110°	89.1	1.6
110°-120°	238.2	4.4
120°-130°	393.1	7.2
130°-140°	418.1	7.6
140°-150°	388.6	7.1
150°-160°	312.4	5.7
160°-170°	201.3	3.7
170°-180°	69.3	1.3
0°-30°	1348.5	24.7
0°-40°	1972.3	36.1
0°-60°	2913.6	53.3
0°-90°	3334.5	61.0
90°-120°	351.5	6.4
90°-150°	1551.4	28.4
90°-180°	2134.0	39.0
0°-180°	5469.0	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°	14	0	14	0	14	7
95°	23	34	23	34	23	21
105°	40	160	40	160	40	42
115°	43	303	43	303	43	108
125°	451	428	451	428	451	390
135°	548	530	548	530	548	422
145°	624	615	624	615	624	391
155°	678	677	678	677	678	313
165°	712	714	712	714	712	201
175°	726	730	726	730	726	69
180°	728	728	728	728	728	



TEST NUMBER: P331711-840
 CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	11.4	11.9	11.8	11.8	11.8	11.7	11.6	12.0	11.3	11.7	11.0
90°	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7	11.1	10.5	9.6
92.5°	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8	12.5	12.2	11.7
95°	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7	21.1	20.6	19.7
97.5°	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5	28.0	27.5	25.7
100°	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9	31.0	30.0	28.1
102.5°	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3	32.1	30.9	47.6
105°	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7	33.4	32.1	64.1
107.5°	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4	43.7	45.0	83.3
110°	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8	80.5	92.2	126.0



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1	189.9	232.7	241.0
115°	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7	270.9	325.2	322.2
117.5°	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0	347.1	360.1	358.2
120°	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1	387.7	386.3	384.2
122.5°	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8	412.0	411.2	408.9
125°	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0	446.2	445.4	443.1
127.5°	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5	477.3	476.2	474.4
130°	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5	497.3	495.9	494.6
132.5°	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0	516.8	515.7	514.4
135°	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7	544.5	543.3	542.3
137.5°	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5	570.4	569.2	567.9
140°	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1	587.1	586.0	584.7
142.5°	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6	602.6	601.7	600.2
145°	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1	624.3	623.5	621.5
147.5°	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9	643.3	642.7	640.7
150°	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4	654.7	654.0	652.2
152.5°	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0	665.3	664.6	662.8
155°	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2	679.5	678.8	677.4
157.5°	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2	691.4	690.6	689.6
160°	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1	698.5	697.8	697.1
162.5°	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7	704.9	704.1	703.5
165°	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7	712.9	712.0	711.7
167.5°	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2	719.4	718.6	718.3
170°	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7	722.9	722.1	721.8
172.5°	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2	725.4	724.6	724.3
175°	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9	728.1	727.3	727.0
177.5°	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2	728.6	727.9	727.8
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	10.8	11.2	11.0	10.2	10.5	10.8	13.2	15.7	13.7	12.4	11.6
90°	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6	10.5	10.4	10.3
95°	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2	30.4	26.6	22.6
97.5°	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0	57.1	46.3	35.3
100°	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3	77.3	61.2	45.1
102.5°	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1	117.8	114.3	110.9
105°	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2	163.7	167.2	170.8
107.5°	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8	207.6	210.5	213.3
110°	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5	235.9	238.4	240.9



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4	262.7	264.8	267.0
115°	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1	305.0	307.0	309.0
117.5°	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1	343.4	345.6	347.8
120°	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9	370.6	372.4	374.2
122.5°	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5	394.4	396.3	398.1
125°	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5	430.0	431.5	433.0
127.5°	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0	462.7	464.4	466.1
130°	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7	483.5	485.4	487.4
132.5°	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8	504.3	505.9	507.6
135°	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2	532.1	533.9	535.8
137.5°	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0	559.2	560.5	561.8
140°	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0	576.9	577.9	578.9
142.5°	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2	592.1	592.9	593.7
145°	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0	614.9	614.8	614.7
147.5°	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
150°	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2	648.4	647.6	646.8
152.5°	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7	659.7	658.8	657.9
155°	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2	676.2	675.1	674.1
157.5°	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1	689.3	688.4	687.5
160°	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	697.1	696.4	695.7
162.5°	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5	703.8	703.1	702.4
165°	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6	712.9	712.2	711.4
167.5°	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3	719.6	718.9	718.2
170°	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1	723.5	722.8	722.1
172.5°	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7	726.0	725.3	724.6
175°	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9	729.1	728.3	727.5
177.5°	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4	729.8	729.1	728.5
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	11.3	11.0	10.1	10.3	10.5	10.1	10.3	9.9	10.0	10.1	9.6
90°	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7	12.3	12.9	13.3
92.5°	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8	13.1	13.4	13.6
95°	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7	22.3	22.9	23.1
97.5°	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5	28.9	29.4	29.7
100°	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9	32.8	33.8	34.3
102.5°	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3	34.5	35.7	36.6
105°	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7	36.1	37.3	38.2
107.5°	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4	41.1	39.8	39.4
110°	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8	57.1	45.3	39.8



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1	104.4	61.7	40.6
115°	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7	162.5	108.3	77.0
117.5°	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0	320.8	307.7	287.3
120°	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1	390.5	391.9	384.8
122.5°	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8	413.7	414.5	413.4
125°	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0	447.8	448.6	449.2
127.5°	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5	479.7	480.9	481.5
130°	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5	499.8	501.1	501.7
132.5°	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0	519.1	520.2	520.6
135°	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7	546.8	548.1	548.6
137.5°	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5	572.6	573.8	574.1
140°	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1	589.2	590.3	590.5
142.5°	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6	604.5	605.5	605.7
145°	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1	625.9	626.7	626.8
147.5°	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9	644.5	645.1	645.1
150°	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4	656.1	656.8	656.9
152.5°	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0	666.7	667.4	667.3
155°	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2	681.0	681.7	681.5
157.5°	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2	693.0	693.8	693.8
160°	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1	699.8	700.5	700.5
162.5°	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7	706.5	707.3	707.2
165°	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7	714.5	715.3	715.3
167.5°	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2	721.1	722.0	721.9
170°	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7	724.5	725.3	725.2
172.5°	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2	727.0	727.8	727.7
175°	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9	729.7	730.5	730.4
177.5°	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2	729.9	730.5	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	9.7	9.2	9.8	9.3	9.8	9.2	9.7	9.6	10.1	10.0	9.9
90°	13.5	13.7	14.0	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7
92.5°	13.8	13.9	14.1	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8
95°	23.0	22.9	22.8	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7
97.5°	29.8	30.0	30.1	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5
100°	34.6	34.8	35.0	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9
102.5°	36.9	37.2	37.5	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3
105°	38.7	39.1	39.6	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7
107.5°	39.8	40.3	40.7	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4
110°	40.2	40.7	41.2	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.9	41.3	41.7	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1
115°	68.5	60.1	51.6	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7
117.5°	259.5	231.9	204.2	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0
120°	368.9	353.1	337.3	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1
122.5°	410.4	407.3	404.2	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8
125°	449.6	449.9	450.3	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0
127.5°	481.6	481.7	481.7	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5
130°	501.5	501.4	501.3	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5
132.5°	520.5	520.4	520.3	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0
135°	548.3	548.1	547.9	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7
137.5°	573.7	573.3	573.0	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5
140°	589.9	589.4	588.8	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1
142.5°	605.1	604.5	603.9	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6
145°	626.3	625.7	625.1	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1
147.5°	644.7	644.2	643.7	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9
150°	656.3	655.7	655.1	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4
152.5°	666.6	665.8	665.0	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0
155°	680.5	679.6	678.7	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2
157.5°	692.8	691.9	690.9	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2
160°	699.7	698.9	698.0	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1
162.5°	706.2	705.2	704.2	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7
165°	714.5	713.7	712.9	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7
167.5°	720.7	719.7	718.6	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2
170°	724.1	723.1	722.1	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7
172.5°	726.7	725.6	724.6	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2
175°	729.2	728.0	726.9	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9
177.5°	729.6	728.7	727.9	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	10.3	10.1	10.5	10.3	10.1	11.0	11.3	11.6	12.4	13.7	15.7
90°	11.1	10.5	9.6	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5
92.5°	12.5	12.2	11.7	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6
95°	21.1	20.6	19.7	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2
97.5°	28.0	27.5	25.7	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0
100°	31.0	30.0	28.1	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3
102.5°	32.1	30.9	47.6	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1
105°	33.4	32.1	64.1	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2
107.5°	43.7	45.0	83.3	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8
110°	80.5	92.2	126.0	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.9	232.7	241.0	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4
115°	270.9	325.2	322.2	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1
117.5°	347.1	360.1	358.2	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1
120°	387.7	386.3	384.2	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9
122.5°	412.0	411.2	408.9	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5
125°	446.2	445.4	443.1	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5
127.5°	477.3	476.2	474.4	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0
130°	497.3	495.9	494.6	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7
132.5°	516.8	515.7	514.4	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8
135°	544.5	543.3	542.3	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2
137.5°	570.4	569.2	567.9	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0
140°	587.1	586.0	584.7	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0
142.5°	602.6	601.7	600.2	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2
145°	624.3	623.5	621.5	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0
147.5°	643.3	642.7	640.7	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8
150°	654.7	654.0	652.2	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2
152.5°	665.3	664.6	662.8	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7
155°	679.5	678.8	677.4	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2
157.5°	691.4	690.6	689.6	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1
160°	698.5	697.8	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8
162.5°	704.9	704.1	703.5	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5
165°	712.9	712.0	711.7	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6
167.5°	719.4	718.6	718.3	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3
170°	722.9	722.1	721.8	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1
172.5°	725.4	724.6	724.3	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7
175°	728.1	727.3	727.0	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9
177.5°	728.6	727.9	727.8	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	13.2	10.8	10.5	10.2	11.0	11.2	10.8	11.0	11.7	11.3	12.0
90°	1.8	3.1	4.3	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7
92.5°	10.5	10.4	10.3	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8
95°	30.4	26.6	22.6	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7
97.5°	57.1	46.3	35.3	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5
100°	77.3	61.2	45.1	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9
102.5°	117.8	114.3	110.9	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3
105°	163.7	167.2	170.8	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7
107.5°	207.6	210.5	213.3	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4
110°	235.9	238.4	240.9	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	262.7	264.8	267.0	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1
115°	305.0	307.0	309.0	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7
117.5°	343.4	345.6	347.8	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0
120°	370.6	372.4	374.2	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1
122.5°	394.4	396.3	398.1	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8
125°	430.0	431.5	433.0	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0
127.5°	462.7	464.4	466.1	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5
130°	483.5	485.4	487.4	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5
132.5°	504.3	505.9	507.6	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0
135°	532.1	533.9	535.8	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7
137.5°	559.2	560.5	561.8	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5
140°	576.9	577.9	578.9	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1
142.5°	592.1	592.9	593.7	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6
145°	614.9	614.8	614.7	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1
147.5°	635.3	634.9	634.5	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9
150°	648.4	647.6	646.8	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4
152.5°	659.7	658.8	657.9	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0
155°	676.2	675.1	674.1	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2
157.5°	689.3	688.4	687.5	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2
160°	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1
162.5°	703.8	703.1	702.4	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7
165°	712.9	712.2	711.4	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7
167.5°	719.6	718.9	718.2	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2
170°	723.5	722.8	722.1	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7
172.5°	726.0	725.3	724.6	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2
175°	729.1	728.3	727.5	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9
177.5°	729.8	729.1	728.5	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

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°	11.6	11.7	11.8	11.8	11.8	11.9	11.4
90°	12.3	12.9	13.3	13.5	13.7	14.0	14.2
92.5°	13.1	13.4	13.6	13.8	13.9	14.1	14.2
95°	22.3	22.9	23.1	23.0	22.9	22.8	22.6
97.5°	28.9	29.4	29.7	29.8	30.0	30.1	30.3
100°	32.8	33.8	34.3	34.6	34.8	35.0	35.3
102.5°	34.5	35.7	36.6	36.9	37.2	37.5	37.9
105°	36.1	37.3	38.2	38.7	39.1	39.6	40.1
107.5°	41.1	39.8	39.4	39.8	40.3	40.7	41.2
110°	57.1	45.3	39.8	40.2	40.7	41.2	41.6



TEST NUMBER: P331711-840

CATALOG NUMBER: SA2XXRDIP-C865D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	104.4	61.7	40.6	40.9	41.3	41.7	42.0
115°	162.5	108.3	77.0	68.5	60.1	51.6	43.2
117.5°	320.8	307.7	287.3	259.5	231.9	204.2	176.4
120°	390.5	391.9	384.8	368.9	353.1	337.3	321.4
122.5°	413.7	414.5	413.4	410.4	407.3	404.2	401.1
125°	447.8	448.6	449.2	449.6	449.9	450.3	450.6
127.5°	479.7	480.9	481.5	481.6	481.7	481.7	481.8
130°	499.8	501.1	501.7	501.5	501.4	501.3	501.2
132.5°	519.1	520.2	520.6	520.5	520.4	520.3	520.2
135°	546.8	548.1	548.6	548.3	548.1	547.9	547.5
137.5°	572.6	573.8	574.1	573.7	573.3	573.0	572.6
140°	589.2	590.3	590.5	589.9	589.4	588.8	588.1
142.5°	604.5	605.5	605.7	605.1	604.5	603.9	603.3
145°	625.9	626.7	626.8	626.3	625.7	625.1	624.5
147.5°	644.5	645.1	645.1	644.7	644.2	643.7	643.2
150°	656.1	656.8	656.9	656.3	655.7	655.1	654.6
152.5°	666.7	667.4	667.3	666.6	665.8	665.0	664.3
155°	681.0	681.7	681.5	680.5	679.6	678.7	677.7
157.5°	693.0	693.8	693.8	692.8	691.9	690.9	690.0
160°	699.8	700.5	700.5	699.7	698.9	698.0	697.2
162.5°	706.5	707.3	707.2	706.2	705.2	704.2	703.2
165°	714.5	715.3	715.3	714.5	713.7	712.9	712.0
167.5°	721.1	722.0	721.9	720.7	719.7	718.6	717.6
170°	724.5	725.3	725.2	724.1	723.1	722.1	720.9
172.5°	727.0	727.8	727.7	726.7	725.6	724.6	723.5
175°	729.7	730.5	730.4	729.2	728.0	726.9	725.7
177.5°	729.9	730.5	730.4	729.6	728.7	727.9	727.1
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)