

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: P331404

Luminaire Tested: **SA2XXDIP-C865D925U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331404
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: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

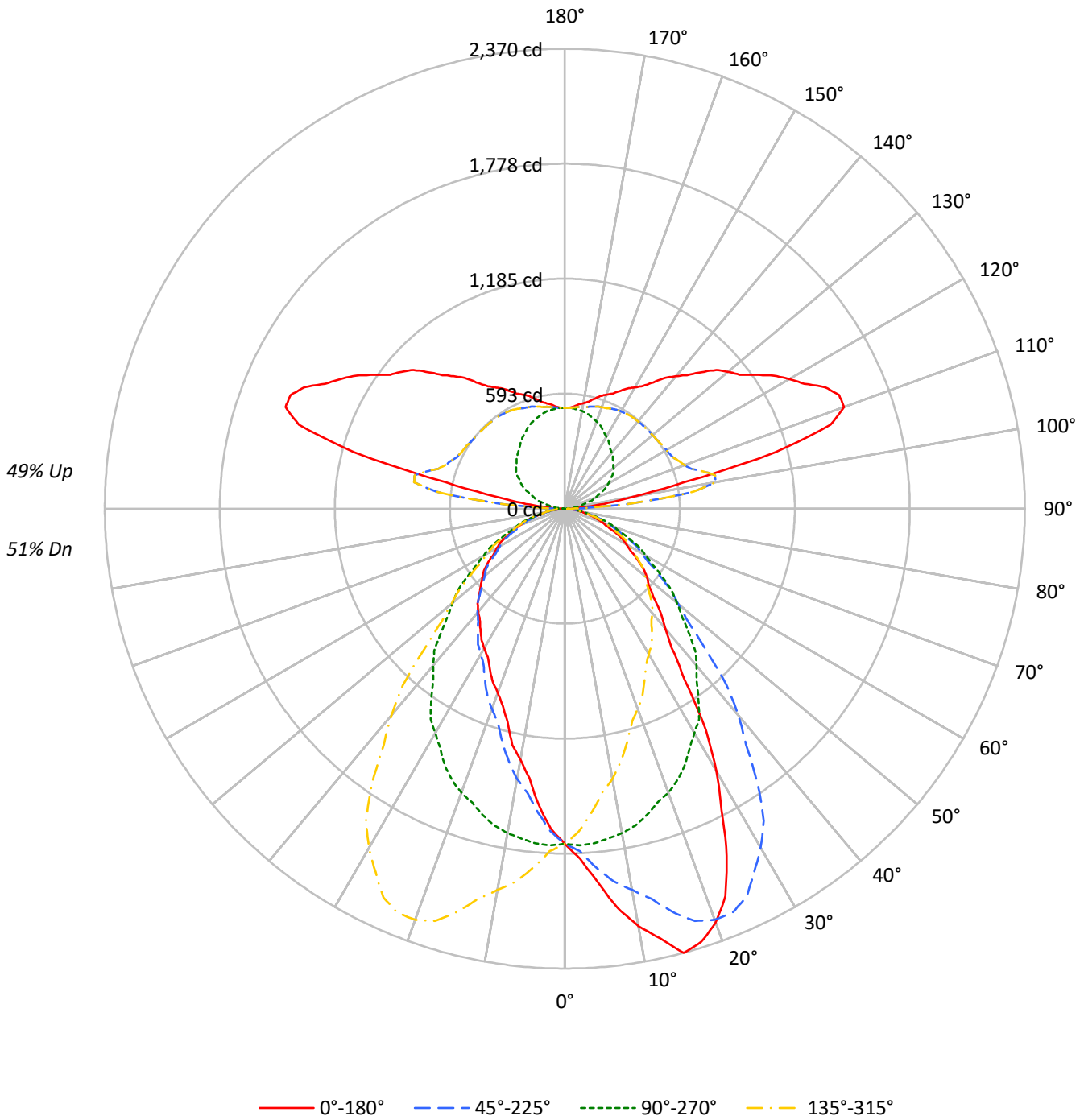
Lumens per Lamp: N/A
Luminaire Lumens: 7425.1 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	37	33
4	76	65	58	52	70	61	54	49	52	47	43	44	41	37	37	34	32	28
5	70	58	51	45	64	55	48	42	47	42	37	40	36	33	34	31	28	25
6	64	53	45	39	59	49	42	37	43	37	33	36	32	29	31	28	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	31	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	24	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.2
10°-20°	478.0	6.4
20°-30°	693.8	9.3
30°-40°	732.1	9.9
40°-50°	648.2	8.7
50°-60°	517.3	7.0
60°-70°	351.6	4.7
70°-80°	180.3	2.4
80°-90°	48.1	0.6
90°-100°	207.5	2.8
100°-110°	704.2	9.5
110°-120°	748.1	10.1
120°-130°	615.8	8.3
130°-140°	494.5	6.7
140°-150°	373.7	5.0
150°-160°	262.6	3.5
160°-170°	154.6	2.1
170°-180°	50.3	0.7
0°-30°	1336.2	18.0
0°-40°	2068.3	27.9
0°-60°	3233.8	43.6
0°-90°	3813.8	51.4
90°-120°	1659.8	22.4
90°-150°	3143.8	42.3
90°-180°	3611.0	48.6
0°-180°	7425.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	40
90°	33	1	33	1	33	19
95°	114	35	114	35	114	148
105°	1125	122	1125	122	1125	1088
115°	1480	215	1480	215	1480	1449
125°	1201	299	1201	299	1201	1085
135°	995	351	995	351	995	773
145°	794	401	794	401	794	505
155°	668	456	668	456	668	312
165°	586	497	586	497	586	168
175°	528	518	528	518	528	51
180°	519	519	519	519	519	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	20.4	20.4	20.9	20.4	20.4	20.7	20.3	20.2	20.9	21.7	22.0
90°	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9	32.9	33.9	32.9
92.5°	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0	109.6	129.7	127.9
95°	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5	342.3	391.2	346.3
97.5°	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2	700.6	667.9	503.0
100°	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2	932.2	788.4	542.9
102.5°	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4	1018.4	792.4	527.8
105°	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6	1005.0	739.5	498.0
107.5°	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6	917.4	682.9	483.2
110°	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9	862.3	655.7	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8	824.0	638.1	480.8
115°	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1	776.5	618.8	485.0
117.5°	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4	746.5	609.4	492.2
120°	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3	730.6	603.8	497.0
122.5°	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7	717.0	600.6	502.6
125°	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4	697.6	594.8	511.0
127.5°	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5	679.7	591.4	519.6
130°	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5	667.7	589.8	526.0
132.5°	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3	658.1	589.0	532.3
135°	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6	644.7	587.8	539.9
137.5°	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2	635.3	587.6	546.7
140°	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7	629.8	586.8	549.9
142.5°	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5	624.2	586.8	552.3
145°	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7	616.8	584.8	554.9
147.5°	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5	609.2	581.3	555.7
150°	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8	602.8	578.9	554.9
152.5°	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0	597.2	574.9	553.3
155°	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8	586.8	567.9	550.9
157.5°	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6	577.1	560.7	546.3
160°	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8	569.9	555.9	543.9
162.5°	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1	563.5	551.9	541.5
165°	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9	552.9	543.9	536.9
167.5°	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3	542.5	536.9	532.3
170°	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9	536.9	532.9	530.0
172.5°	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7	531.4	528.2	526.8
175°	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0	524.0	523.0	522.0
177.5°	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4	519.8	519.0	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	21.3	19.9	18.9	19.4	17.4	17.0	14.1	11.9	11.9	12.2	11.6
90°	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2	17.6	24.8	29.1
95°	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9	38.9	48.9	57.9
97.5°	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9	62.3	72.9	86.4
100°	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8	79.8	88.8	104.8
102.5°	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2	97.4	106.4	122.4
105°	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8	125.8	132.7	147.7
107.5°	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5	153.7	160.5	174.3
110°	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7	173.7	179.6	192.6



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2	191.2	198.0	210.2
115°	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6	219.6	225.6	237.5
117.5°	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9	246.9	252.9	263.5
120°	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5	264.5	270.5	279.4
122.5°	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3	280.4	286.4	296.2
125°	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4	302.4	308.4	320.4
127.5°	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0	321.0	329.3	342.5
130°	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4	331.3	341.3	355.3
132.5°	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9	341.7	352.5	367.3
135°	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3	355.3	367.3	382.2
137.5°	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9	369.7	381.6	397.6
140°	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3	379.3	391.2	407.2
142.5°	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6	388.8	400.0	416.0
145°	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2	405.2	415.2	430.2
147.5°	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0	421.0	430.5	444.3
150°	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2	432.1	440.1	453.1
152.5°	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3	441.7	449.7	461.1
155°	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1	457.1	463.1	474.1
157.5°	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3	470.3	475.1	484.6
160°	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1	479.1	483.0	491.0
162.5°	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8	486.2	490.2	496.6
165°	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0	496.0	498.0	504.0
167.5°	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4	504.2	506.0	509.8
170°	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0	509.0	510.0	513.0
172.5°	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2	513.0	512.4	515.4
175°	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0	517.0	516.0	518.0
177.5°	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8	518.2	517.4	519.0
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	11.4	11.5	12.0	13.4	14.0	13.7	13.0	12.8	12.4	11.7	11.9
90°	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9	29.9	31.9	32.9
92.5°	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0	74.7	66.3	60.1
95°	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5	200.6	158.7	136.7
97.5°	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2	499.2	391.2	319.2
100°	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2	787.4	650.7	530.0
102.5°	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4	1080.5	980.5	852.5
105°	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6	1325.4	1338.4	1305.4
107.5°	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6	1307.4	1411.2	1459.5
110°	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9	1251.5	1379.3	1461.1



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8	1185.3	1321.8	1415.6
115°	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1	1094.8	1225.6	1328.4
117.5°	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4	1021.4	1139.9	1236.4
120°	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3	983.1	1088.8	1179.7
122.5°	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7	951.1	1051.3	1133.4
125°	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4	909.2	997.0	1071.9
127.5°	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5	868.5	951.3	1020.4
130°	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5	841.3	920.2	986.1
132.5°	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3	815.8	888.2	950.1
135°	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6	775.5	841.3	897.2
137.5°	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2	743.3	795.6	844.3
140°	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7	722.6	768.5	812.4
142.5°	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5	704.2	743.7	780.5
145°	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7	680.7	711.6	740.5
147.5°	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5	661.5	685.6	706.8
150°	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8	648.7	669.7	687.6
152.5°	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0	638.3	656.1	671.7
155°	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8	621.8	636.7	647.7
157.5°	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6	605.0	617.6	626.2
160°	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8	593.8	604.8	611.8
162.5°	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1	583.4	592.8	598.2
165°	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9	567.9	574.9	578.9
167.5°	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3	553.7	558.5	562.1
170°	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9	544.9	548.9	550.9
172.5°	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7	536.9	540.1	541.3
175°	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0	528.0	529.0	530.0
177.5°	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4	521.4	522.2	522.2
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	11.9	11.4	11.4	10.8	11.4	11.4	11.9	11.9	11.7	12.4	12.8
90°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	31.9	29.9	31.9
92.5°	59.3	56.1	56.9	55.3	56.9	56.1	59.3	60.1	66.3	74.7	87.0
95°	123.8	115.8	112.8	113.8	112.8	115.8	123.8	136.7	158.7	200.6	261.5
97.5°	271.5	246.9	232.3	224.0	232.3	246.9	271.5	319.2	391.2	499.2	610.2
100°	447.1	404.2	375.3	357.3	375.3	404.2	447.1	530.0	650.7	787.4	911.2
102.5°	762.5	689.2	653.1	628.8	653.1	689.2	762.5	852.5	980.5	1080.5	1108.4
105°	1243.5	1181.7	1138.7	1124.8	1138.7	1181.7	1243.5	1305.4	1338.4	1325.4	1212.6
107.5°	1467.3	1463.9	1455.3	1436.8	1455.3	1463.9	1467.3	1459.5	1411.2	1307.4	1137.6
110°	1504.0	1523.0	1532.0	1531.0	1532.0	1523.0	1504.0	1461.1	1379.3	1251.5	1072.9



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1475.3	1507.0	1524.0	1529.4	1524.0	1507.0	1475.3	1415.6	1321.8	1185.3	1013.8
115°	1399.2	1445.1	1471.1	1480.1	1471.1	1445.1	1399.2	1328.4	1225.6	1094.8	941.1
117.5°	1308.6	1357.1	1384.5	1392.0	1384.5	1357.1	1308.6	1236.4	1139.9	1021.4	886.4
120°	1249.5	1296.4	1325.4	1335.4	1325.4	1296.4	1249.5	1179.7	1088.8	983.1	859.3
122.5°	1196.0	1242.1	1267.9	1276.3	1267.9	1242.1	1196.0	1133.4	1051.3	951.1	837.7
125°	1129.8	1167.7	1192.6	1200.6	1192.6	1167.7	1129.8	1071.9	997.0	909.2	806.4
127.5°	1070.9	1106.4	1128.0	1134.4	1128.0	1106.4	1070.9	1020.4	951.3	868.5	775.5
130°	1035.0	1068.9	1088.8	1096.8	1088.8	1068.9	1035.0	986.1	920.2	841.3	755.5
132.5°	998.2	1032.2	1050.5	1057.7	1050.5	1032.2	998.2	950.1	888.2	815.8	736.3
135°	940.1	973.1	991.0	995.0	991.0	973.1	940.1	897.2	841.3	775.5	709.6
137.5°	883.5	911.8	927.6	933.6	927.6	911.8	883.5	844.3	795.6	743.3	688.2
140°	844.3	870.3	885.3	891.2	885.3	870.3	844.3	812.4	768.5	722.6	674.7
142.5°	810.8	834.4	847.7	848.9	847.7	834.4	810.8	780.5	743.7	704.2	663.5
145°	764.5	781.5	791.4	794.4	791.4	781.5	764.5	740.5	711.6	680.7	647.7
147.5°	726.6	740.1	746.9	748.7	746.9	740.1	726.6	706.8	685.6	661.5	635.5
150°	702.6	714.6	720.6	721.6	720.6	714.6	702.6	687.6	669.7	648.7	626.8
152.5°	683.4	693.8	698.2	698.4	698.2	693.8	683.4	671.7	656.1	638.3	618.0
155°	658.7	665.7	669.7	667.7	669.7	665.7	658.7	647.7	636.7	621.8	605.8
157.5°	633.9	639.7	641.5	641.5	641.5	639.7	633.9	626.2	617.6	605.0	591.6
160°	618.8	623.8	624.8	624.8	624.8	623.8	618.8	611.8	604.8	593.8	582.8
162.5°	605.2	608.6	609.6	608.8	609.6	608.6	605.2	598.2	592.8	583.4	574.1
165°	582.8	586.8	586.8	585.8	586.8	586.8	582.8	578.9	574.9	567.9	560.9
167.5°	563.9	566.1	565.9	564.7	565.9	566.1	563.9	562.1	558.5	553.7	548.3
170°	551.9	554.9	553.9	551.9	553.9	554.9	551.9	550.9	548.9	544.9	541.9
172.5°	542.3	543.7	542.7	541.5	542.7	543.7	542.3	541.3	540.1	536.9	534.7
175°	530.0	531.0	530.0	528.0	530.0	531.0	530.0	530.0	529.0	528.0	527.0
177.5°	522.2	522.2	521.4	519.8	521.4	522.2	522.2	522.2	522.2	521.4	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	13.0	13.7	14.0	13.4	12.0	11.5	11.4	11.6	12.2	11.9	11.9
90°	32.9	33.9	32.9	26.9	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.6	129.7	127.9	99.6	67.9	45.3	35.9	29.1	24.8	17.6	12.2
95°	342.3	391.2	346.3	230.5	143.7	97.8	73.9	57.9	48.9	38.9	34.9
97.5°	700.6	667.9	503.0	310.6	189.6	131.9	104.8	86.4	72.9	62.3	56.9
100°	932.2	788.4	542.9	327.4	205.6	152.7	124.8	104.8	88.8	79.8	76.8
102.5°	1018.4	792.4	527.8	328.2	220.0	171.1	143.1	122.4	106.4	97.4	95.2
105°	1005.0	739.5	498.0	333.3	244.5	197.6	169.7	147.7	132.7	125.8	121.8
107.5°	917.4	682.9	483.2	347.1	269.7	224.2	196.0	174.3	160.5	153.7	150.5
110°	862.3	655.7	480.1	358.3	286.4	242.5	213.6	192.6	179.6	173.7	169.7



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	824.0	638.1	480.8	370.3	302.4	260.1	230.3	210.2	198.0	191.2	187.2
115°	776.5	618.8	485.0	388.2	327.4	284.4	257.5	237.5	225.6	219.6	214.6
117.5°	746.5	609.4	492.2	407.4	350.3	310.6	282.6	263.5	252.9	246.9	242.9
120°	730.6	603.8	497.0	420.2	366.3	327.4	299.4	279.4	270.5	264.5	260.5
122.5°	717.0	600.6	502.6	431.3	381.4	344.9	316.2	296.2	286.4	280.4	277.3
125°	697.6	594.8	511.0	449.1	404.2	368.3	340.3	320.4	308.4	302.4	299.4
127.5°	679.7	591.4	519.6	465.7	425.4	390.4	361.7	342.5	329.3	321.0	317.0
130°	667.7	589.8	526.0	476.1	438.1	403.2	375.3	355.3	341.3	331.3	327.4
132.5°	658.1	589.0	532.3	486.4	449.3	416.0	388.0	367.3	352.5	341.7	336.9
135°	644.7	587.8	539.9	500.0	465.1	433.1	405.2	382.2	367.3	355.3	351.3
137.5°	635.3	587.6	546.7	510.4	477.9	446.3	420.4	397.6	381.6	369.7	364.9
140°	629.8	586.8	549.9	516.0	485.0	455.1	429.2	407.2	391.2	379.3	375.3
142.5°	624.2	586.8	552.3	520.8	490.6	461.5	437.1	416.0	400.0	388.8	385.6
145°	616.8	584.8	554.9	527.0	499.0	472.1	450.1	430.2	415.2	405.2	401.2
147.5°	609.2	581.3	555.7	530.4	505.8	480.5	460.9	444.3	430.5	421.0	418.0
150°	602.8	578.9	554.9	531.9	509.0	486.0	468.1	453.1	440.1	432.1	429.2
152.5°	597.2	574.9	553.3	532.7	512.2	491.6	475.3	461.1	449.7	441.7	440.3
155°	586.8	567.9	550.9	533.9	517.0	500.0	485.0	474.1	463.1	457.1	456.1
157.5°	577.1	560.7	546.3	533.9	520.4	506.0	493.4	484.6	475.1	470.3	469.3
160°	569.9	555.9	543.9	533.9	522.0	510.0	499.0	491.0	483.0	479.1	478.1
162.5°	563.5	551.9	541.5	533.1	522.8	512.4	503.8	496.6	490.2	486.2	486.8
165°	552.9	543.9	536.9	531.0	524.0	515.0	509.0	504.0	498.0	496.0	497.0
167.5°	542.5	536.9	532.3	529.6	523.8	517.2	513.4	509.8	506.0	504.2	505.4
170°	536.9	532.9	530.0	528.0	523.0	518.0	515.0	513.0	510.0	509.0	511.0
172.5°	531.4	528.2	526.8	525.6	522.2	518.8	516.6	515.4	512.4	513.0	514.2
175°	524.0	523.0	522.0	523.0	521.0	519.0	518.0	518.0	516.0	517.0	518.0
177.5°	519.8	519.0	519.8	521.4	519.8	519.0	519.0	519.0	517.4	518.2	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



TEST NUMBER: P331404

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	14.1	17.0	17.4	19.4	18.9	19.9	21.3	22.0	21.7	20.9	20.2
90°	4.0	8.0	10.0	12.0	15.0	20.0	26.9	32.9	33.9	32.9	31.9
92.5°	17.6	24.8	29.1	35.9	45.3	67.9	99.6	127.9	129.7	109.6	87.0
95°	38.9	48.9	57.9	73.9	97.8	143.7	230.5	346.3	391.2	342.3	261.5
97.5°	62.3	72.9	86.4	104.8	131.9	189.6	310.6	503.0	667.9	700.6	610.2
100°	79.8	88.8	104.8	124.8	152.7	205.6	327.4	542.9	788.4	932.2	911.2
102.5°	97.4	106.4	122.4	143.1	171.1	220.0	328.2	527.8	792.4	1018.4	1108.4
105°	125.8	132.7	147.7	169.7	197.6	244.5	333.3	498.0	739.5	1005.0	1212.6
107.5°	153.7	160.5	174.3	196.0	224.2	269.7	347.1	483.2	682.9	917.4	1137.6
110°	173.7	179.6	192.6	213.6	242.5	286.4	358.3	480.1	655.7	862.3	1072.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.2	198.0	210.2	230.3	260.1	302.4	370.3	480.8	638.1	824.0	1013.8
115°	219.6	225.6	237.5	257.5	284.4	327.4	388.2	485.0	618.8	776.5	941.1
117.5°	246.9	252.9	263.5	282.6	310.6	350.3	407.4	492.2	609.4	746.5	886.4
120°	264.5	270.5	279.4	299.4	327.4	366.3	420.2	497.0	603.8	730.6	859.3
122.5°	280.4	286.4	296.2	316.2	344.9	381.4	431.3	502.6	600.6	717.0	837.7
125°	302.4	308.4	320.4	340.3	368.3	404.2	449.1	511.0	594.8	697.6	806.4
127.5°	321.0	329.3	342.5	361.7	390.4	425.4	465.7	519.6	591.4	679.7	775.5
130°	331.3	341.3	355.3	375.3	403.2	438.1	476.1	526.0	589.8	667.7	755.5
132.5°	341.7	352.5	367.3	388.0	416.0	449.3	486.4	532.3	589.0	658.1	736.3
135°	355.3	367.3	382.2	405.2	433.1	465.1	500.0	539.9	587.8	644.7	709.6
137.5°	369.7	381.6	397.6	420.4	446.3	477.9	510.4	546.7	587.6	635.3	688.2
140°	379.3	391.2	407.2	429.2	455.1	485.0	516.0	549.9	586.8	629.8	674.7
142.5°	388.8	400.0	416.0	437.1	461.5	490.6	520.8	552.3	586.8	624.2	663.5
145°	405.2	415.2	430.2	450.1	472.1	499.0	527.0	554.9	584.8	616.8	647.7
147.5°	421.0	430.5	444.3	460.9	480.5	505.8	530.4	555.7	581.3	609.2	635.5
150°	432.1	440.1	453.1	468.1	486.0	509.0	531.9	554.9	578.9	602.8	626.8
152.5°	441.7	449.7	461.1	475.3	491.6	512.2	532.7	553.3	574.9	597.2	618.0
155°	457.1	463.1	474.1	485.0	500.0	517.0	533.9	550.9	567.9	586.8	605.8
157.5°	470.3	475.1	484.6	493.4	506.0	520.4	533.9	546.3	560.7	577.1	591.6
160°	479.1	483.0	491.0	499.0	510.0	522.0	533.9	543.9	555.9	569.9	582.8
162.5°	486.2	490.2	496.6	503.8	512.4	522.8	533.1	541.5	551.9	563.5	574.1
165°	496.0	498.0	504.0	509.0	515.0	524.0	531.0	536.9	543.9	552.9	560.9
167.5°	504.2	506.0	509.8	513.4	517.2	523.8	529.6	532.3	536.9	542.5	548.3
170°	509.0	510.0	513.0	515.0	518.0	523.0	528.0	530.0	532.9	536.9	541.9
172.5°	513.0	512.4	515.4	516.6	518.8	522.2	525.6	526.8	528.2	531.4	534.7
175°	517.0	516.0	518.0	518.0	519.0	521.0	523.0	522.0	523.0	524.0	527.0
177.5°	518.2	517.4	519.0	519.0	519.0	519.8	521.4	519.8	519.0	519.8	521.4
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	20.3	20.7	20.4	20.4	20.9	20.4	20.4
90°	29.9	31.9	32.9	32.9	32.9	32.9	32.9
92.5°	74.7	66.3	60.1	59.3	56.1	56.9	55.3
95°	200.6	158.7	136.7	123.8	115.8	112.8	113.8
97.5°	499.2	391.2	319.2	271.5	246.9	232.3	224.0
100°	787.4	650.7	530.0	447.1	404.2	375.3	357.3
102.5°	1080.5	980.5	852.5	762.5	689.2	653.1	628.8
105°	1325.4	1338.4	1305.4	1243.5	1181.7	1138.7	1124.8
107.5°	1307.4	1411.2	1459.5	1467.3	1463.9	1455.3	1436.8
110°	1251.5	1379.3	1461.1	1504.0	1523.0	1532.0	1531.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.3	1321.8	1415.6	1475.3	1507.0	1524.0	1529.4
115°	1094.8	1225.6	1328.4	1399.2	1445.1	1471.1	1480.1
117.5°	1021.4	1139.9	1236.4	1308.6	1357.1	1384.5	1392.0
120°	983.1	1088.8	1179.7	1249.5	1296.4	1325.4	1335.4
122.5°	951.1	1051.3	1133.4	1196.0	1242.1	1267.9	1276.3
125°	909.2	997.0	1071.9	1129.8	1167.7	1192.6	1200.6
127.5°	868.5	951.3	1020.4	1070.9	1106.4	1128.0	1134.4
130°	841.3	920.2	986.1	1035.0	1068.9	1088.8	1096.8
132.5°	815.8	888.2	950.1	998.2	1032.2	1050.5	1057.7
135°	775.5	841.3	897.2	940.1	973.1	991.0	995.0
137.5°	743.3	795.6	844.3	883.5	911.8	927.6	933.6
140°	722.6	768.5	812.4	844.3	870.3	885.3	891.2
142.5°	704.2	743.7	780.5	810.8	834.4	847.7	848.9
145°	680.7	711.6	740.5	764.5	781.5	791.4	794.4
147.5°	661.5	685.6	706.8	726.6	740.1	746.9	748.7
150°	648.7	669.7	687.6	702.6	714.6	720.6	721.6
152.5°	638.3	656.1	671.7	683.4	693.8	698.2	698.4
155°	621.8	636.7	647.7	658.7	665.7	669.7	667.7
157.5°	605.0	617.6	626.2	633.9	639.7	641.5	641.5
160°	593.8	604.8	611.8	618.8	623.8	624.8	624.8
162.5°	583.4	592.8	598.2	605.2	608.6	609.6	608.8
165°	567.9	574.9	578.9	582.8	586.8	586.8	585.8
167.5°	553.7	558.5	562.1	563.9	566.1	565.9	564.7
170°	544.9	548.9	550.9	551.9	554.9	553.9	551.9
172.5°	536.9	540.1	541.3	542.3	543.7	542.7	541.5
175°	528.0	529.0	530.0	530.0	531.0	530.0	528.0
177.5°	521.4	522.2	522.2	522.2	522.2	521.4	519.8
180°	519.0	519.0	519.0	519.0	519.0	519.0	519.0

(END OF REPORT)