

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: P331395

Luminaire Tested: **SA2XXDIP-C865D725U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331395  
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-C865D725U835-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

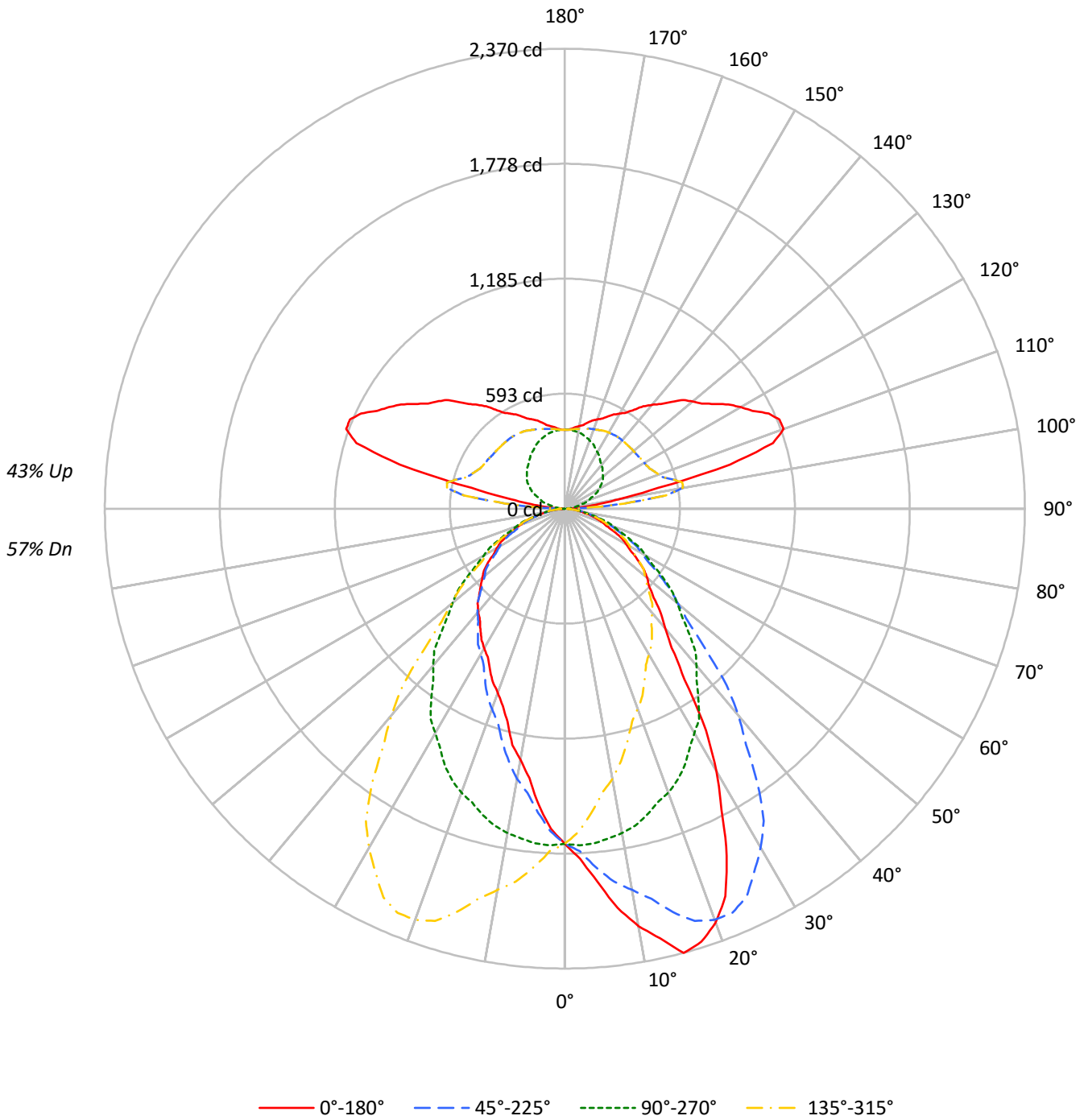
Lumens per Lamp: N/A  
Luminaire Lumens: 6641.4 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57				57
1	100	96	92	89	93	89	86	83	78	75	73	67	65	63	56	55	54	49				49
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	47	42				42
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	45	42	40	36				36
4	77	66	59	53	72	62	56	50	55	49	45	47	43	40	41	38	35	32				32
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31	28				28
6	66	54	46	40	61	51	43	38	45	39	35	39	34	31	34	30	28	25				25
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	27	25	22				22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	22	20				20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	23	27	23	20	18				18
10	49	37	30	26	46	35	29	25	32	26	23	28	24	21	25	21	19	17				17

**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



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.4	2.5
10°-20°	478.0	7.2
20°-30°	693.8	10.4
30°-40°	732.1	11.0
40°-50°	648.2	9.8
50°-60°	517.3	7.8
60°-70°	351.6	5.3
70°-80°	180.3	2.7
80°-90°	47.1	0.7
90°-100°	162.5	2.4
100°-110°	551.5	8.3
110°-120°	585.9	8.8
120°-130°	482.3	7.3
130°-140°	387.3	5.8
140°-150°	292.7	4.4
150°-160°	205.7	3.1
160°-170°	121.1	1.8
170°-180°	39.4	0.6
0°-30°	1336.2	20.1
0°-40°	2068.3	31.1
0°-60°	3233.8	48.7
0°-90°	3812.8	57.4
90°-120°	1300.0	19.6
90°-150°	2462.4	37.1
90°-180°	2829.0	42.6
0°-180°	6641.4	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°	26	1	26	1	26	16
95°	89	27	89	27	89	116
105°	881	95	881	95	881	852
115°	1159	168	1159	168	1159	1135
125°	940	234	940	234	940	850
135°	779	275	779	275	779	605
145°	622	314	622	314	622	395
155°	523	357	523	357	523	244
165°	459	389	459	389	459	131
175°	414	406	414	406	414	40
180°	406	406	406	406	406	



TEST NUMBER: P331395

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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°	19.0	19.0	19.5	19.0	19.0	19.3	19.0	18.8	19.5	20.2	20.6
90°	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0	25.8	26.6	25.8
92.5°	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2	85.8	101.6	100.2
95°	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8	268.1	306.4	271.3
97.5°	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9	548.8	523.1	394.0
100°	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7	730.1	617.5	425.2
102.5°	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2	797.6	620.7	413.4
105°	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8	787.2	579.2	390.1
107.5°	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0	718.5	534.8	378.5
110°	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3	675.4	513.6	376.0



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1	645.4	499.8	376.6
115°	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1	608.2	484.7	379.9
117.5°	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3	584.7	477.3	385.5
120°	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0	572.2	472.9	389.3
122.5°	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2	561.6	470.4	393.7
125°	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6	546.4	465.9	400.2
127.5°	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4	532.3	463.2	407.0
130°	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7	523.0	462.0	412.0
132.5°	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7	515.5	461.4	417.0
135°	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8	505.0	460.4	422.9
137.5°	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1	497.6	460.3	428.2
140°	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4	493.3	459.6	430.7
142.5°	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7	488.9	459.6	432.6
145°	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3	483.1	458.1	434.6
147.5°	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8	477.2	455.3	435.3
150°	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9	472.1	453.4	434.6
152.5°	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0	467.8	450.3	433.4
155°	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5	459.6	444.8	431.5
157.5°	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4	452.0	439.2	427.9
160°	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5	446.4	435.4	426.0
162.5°	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6	441.3	432.3	424.2
165°	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3	433.1	426.0	420.6
167.5°	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5	424.9	420.6	417.0
170°	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5	420.6	417.4	415.1
172.5°	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8	416.2	413.7	412.6
175°	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7	410.4	409.6	408.8
177.5°	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4	407.1	406.5	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**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°	20.1	19.1	18.3	18.9	17.0	16.6	13.9	11.8	11.8	11.9	11.1
90°	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8	3.1	6.3	7.8
92.5°	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5	13.8	19.4	22.8
95°	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4	30.5	38.3	45.3
97.5°	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6	48.8	57.1	67.7
100°	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2	62.5	69.6	82.1
102.5°	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6	76.3	83.3	95.8
105°	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4	98.5	104.0	115.7
107.5°	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9	120.4	125.7	136.5
110°	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9	136.0	140.7	150.9





TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6	149.8	155.1	164.6
115°	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1	172.0	176.7	186.0
117.5°	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3	193.4	198.1	206.4
120°	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0	207.2	211.8	218.9
122.5°	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2	219.7	224.3	232.0
125°	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5	236.9	241.5	250.9
127.5°	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3	251.4	258.0	268.3
130°	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4	259.5	267.3	278.3
132.5°	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9	267.7	276.1	287.7
135°	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2	278.3	287.7	299.4
137.5°	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8	289.5	298.9	311.4
140°	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9	297.0	306.4	318.9
142.5°	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0	304.6	313.3	325.8
145°	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2	317.4	325.2	336.9
147.5°	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4	329.7	337.2	348.0
150°	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1	338.5	344.7	354.9
152.5°	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9	346.0	352.2	361.1
155°	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2	358.0	362.7	371.3
157.5°	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6	368.3	372.1	379.6
160°	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4	375.2	378.3	384.6
162.5°	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3	380.8	384.0	389.0
165°	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3	388.5	390.1	394.8
167.5°	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9	394.9	396.3	399.3
170°	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2	398.7	399.4	401.8
172.5°	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7	401.8	401.3	403.7
175°	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7	404.9	404.1	405.7
177.5°	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1	405.9	405.2	406.5
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-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°	10.9	10.8	11.1	12.2	12.6	12.2	11.5	11.4	11.1	10.3	10.5
90°	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0	23.5	25.0	25.8
92.5°	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2	58.5	51.9	47.1
95°	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8	157.1	124.3	107.1
97.5°	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9	391.0	306.4	250.0
100°	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7	616.8	509.7	415.1
102.5°	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2	846.3	767.9	667.7
105°	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8	1038.1	1048.3	1022.5
107.5°	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0	1024.0	1105.3	1143.2
110°	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3	980.3	1080.3	1144.4



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1	928.3	1035.3	1108.8
115°	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1	857.5	959.9	1040.4
117.5°	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3	800.0	892.9	968.4
120°	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0	770.0	852.8	924.0
122.5°	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2	745.0	823.4	887.7
125°	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6	712.1	780.9	839.5
127.5°	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4	680.2	745.1	799.2
130°	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7	659.0	720.7	772.3
132.5°	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7	639.0	695.7	744.2
135°	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8	607.4	659.0	702.7
137.5°	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1	582.2	623.2	661.3
140°	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4	566.0	601.9	636.3
142.5°	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7	551.6	582.5	611.3
145°	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3	533.1	557.4	580.0
147.5°	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8	518.1	537.0	553.6
150°	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9	508.1	524.5	538.6
152.5°	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0	500.0	513.9	526.1
155°	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5	487.0	498.7	507.3
157.5°	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4	473.9	483.7	490.4
160°	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5	465.1	473.7	479.2
162.5°	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6	457.0	464.3	468.6
165°	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3	444.8	450.3	453.4
167.5°	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5	433.7	437.4	440.3
170°	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5	426.8	429.9	431.5
172.5°	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8	420.6	423.1	424.0
175°	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7	413.5	414.3	415.1
177.5°	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4	408.4	409.0	409.0
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-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°	10.5	9.9	9.9	9.4	9.9	9.9	10.5	10.5	10.3	11.1	11.4
90°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0
92.5°	46.4	43.9	44.6	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2
95°	96.9	90.7	88.3	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8
97.5°	212.6	193.4	182.0	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9
100°	350.2	316.6	293.9	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7
102.5°	597.2	539.8	511.5	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2
105°	974.0	925.5	891.9	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8
107.5°	1149.3	1146.6	1139.9	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0
110°	1178.0	1192.9	1199.9	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1155.5	1180.4	1193.7	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1
115°	1095.9	1131.9	1152.2	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1
117.5°	1025.0	1063.0	1084.4	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3
120°	978.7	1015.4	1038.1	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0
122.5°	936.8	972.9	993.1	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2
125°	884.9	914.6	934.1	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6
127.5°	838.8	866.6	883.5	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4
130°	810.6	837.2	852.8	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7
132.5°	781.9	808.4	822.8	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7
135°	736.4	762.2	776.2	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8
137.5°	692.0	714.2	726.5	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1
140°	661.3	681.6	693.4	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4
142.5°	635.1	653.5	664.0	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7
145°	598.8	612.1	619.9	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3
147.5°	569.1	579.7	585.0	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8
150°	550.3	559.7	564.4	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9
152.5°	535.3	543.4	546.9	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0
155°	515.9	521.4	524.5	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5
157.5°	496.5	501.1	502.5	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4
160°	484.7	488.6	489.3	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5
162.5°	474.0	476.7	477.5	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6
165°	456.5	459.6	459.6	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3
167.5°	441.7	443.4	443.2	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5
170°	432.3	434.6	433.8	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5
172.5°	424.8	425.9	425.1	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8
175°	415.1	415.9	415.1	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7
177.5°	409.0	409.0	408.4	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-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°	11.5	12.2	12.6	12.2	11.1	10.8	10.9	11.1	11.9	11.8	11.8
90°	25.8	26.6	25.8	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8
92.5°	85.8	101.6	100.2	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5
95°	268.1	306.4	271.3	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4
97.5°	548.8	523.1	394.0	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6
100°	730.1	617.5	425.2	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2
102.5°	797.6	620.7	413.4	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6
105°	787.2	579.2	390.1	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4
107.5°	718.5	534.8	378.5	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9
110°	675.4	513.6	376.0	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.4	499.8	376.6	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6
115°	608.2	484.7	379.9	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1
117.5°	584.7	477.3	385.5	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3
120°	572.2	472.9	389.3	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0
122.5°	561.6	470.4	393.7	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2
125°	546.4	465.9	400.2	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5
127.5°	532.3	463.2	407.0	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3
130°	523.0	462.0	412.0	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4
132.5°	515.5	461.4	417.0	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9
135°	505.0	460.4	422.9	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2
137.5°	497.6	460.3	428.2	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8
140°	493.3	459.6	430.7	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9
142.5°	488.9	459.6	432.6	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0
145°	483.1	458.1	434.6	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2
147.5°	477.2	455.3	435.3	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4
150°	472.1	453.4	434.6	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1
152.5°	467.8	450.3	433.4	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9
155°	459.6	444.8	431.5	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2
157.5°	452.0	439.2	427.9	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6
160°	446.4	435.4	426.0	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4
162.5°	441.3	432.3	424.2	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3
165°	433.1	426.0	420.6	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3
167.5°	424.9	420.6	417.0	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9
170°	420.6	417.4	415.1	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2
172.5°	416.2	413.7	412.6	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7
175°	410.4	409.6	408.8	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7
177.5°	407.1	406.5	407.1	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-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°	13.9	16.6	17.0	18.9	18.3	19.1	20.1	20.6	20.2	19.5	18.8
90°	3.1	6.3	7.8	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0
92.5°	13.8	19.4	22.8	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2
95°	30.5	38.3	45.3	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8
97.5°	48.8	57.1	67.7	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9
100°	62.5	69.6	82.1	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7
102.5°	76.3	83.3	95.8	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2
105°	98.5	104.0	115.7	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8
107.5°	120.4	125.7	136.5	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0
110°	136.0	140.7	150.9	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3





TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.8	155.1	164.6	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1
115°	172.0	176.7	186.0	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1
117.5°	193.4	198.1	206.4	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3
120°	207.2	211.8	218.9	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0
122.5°	219.7	224.3	232.0	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2
125°	236.9	241.5	250.9	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6
127.5°	251.4	258.0	268.3	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4
130°	259.5	267.3	278.3	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7
132.5°	267.7	276.1	287.7	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7
135°	278.3	287.7	299.4	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8
137.5°	289.5	298.9	311.4	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1
140°	297.0	306.4	318.9	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4
142.5°	304.6	313.3	325.8	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7
145°	317.4	325.2	336.9	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3
147.5°	329.7	337.2	348.0	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8
150°	338.5	344.7	354.9	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9
152.5°	346.0	352.2	361.1	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0
155°	358.0	362.7	371.3	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5
157.5°	368.3	372.1	379.6	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4
160°	375.2	378.3	384.6	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5
162.5°	380.8	384.0	389.0	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6
165°	388.5	390.1	394.8	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3
167.5°	394.9	396.3	399.3	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5
170°	398.7	399.4	401.8	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5
172.5°	401.8	401.3	403.7	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8
175°	404.9	404.1	405.7	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7
177.5°	405.9	405.2	406.5	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**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°	19.0	19.3	19.0	19.0	19.5	19.0	19.0
90°	23.5	25.0	25.8	25.8	25.8	25.8	25.8
92.5°	58.5	51.9	47.1	46.4	43.9	44.6	43.3
95°	157.1	124.3	107.1	96.9	90.7	88.3	89.1
97.5°	391.0	306.4	250.0	212.6	193.4	182.0	175.4
100°	616.8	509.7	415.1	350.2	316.6	293.9	279.8
102.5°	846.3	767.9	667.7	597.2	539.8	511.5	492.5
105°	1038.1	1048.3	1022.5	974.0	925.5	891.9	881.0
107.5°	1024.0	1105.3	1143.2	1149.3	1146.6	1139.9	1125.3
110°	980.3	1080.3	1144.4	1178.0	1192.9	1199.9	1199.1



TEST NUMBER: P331395

CATALOG NUMBER: SA2XXDIP-C865D725U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.3	1035.3	1108.8	1155.5	1180.4	1193.7	1197.9
115°	857.5	959.9	1040.4	1095.9	1131.9	1152.2	1159.3
117.5°	800.0	892.9	968.4	1025.0	1063.0	1084.4	1090.3
120°	770.0	852.8	924.0	978.7	1015.4	1038.1	1045.9
122.5°	745.0	823.4	887.7	936.8	972.9	993.1	999.6
125°	712.1	780.9	839.5	884.9	914.6	934.1	940.4
127.5°	680.2	745.1	799.2	838.8	866.6	883.5	888.5
130°	659.0	720.7	772.3	810.6	837.2	852.8	859.1
132.5°	639.0	695.7	744.2	781.9	808.4	822.8	828.4
135°	607.4	659.0	702.7	736.4	762.2	776.2	779.4
137.5°	582.2	623.2	661.3	692.0	714.2	726.5	731.2
140°	566.0	601.9	636.3	661.3	681.6	693.4	698.1
142.5°	551.6	582.5	611.3	635.1	653.5	664.0	664.9
145°	533.1	557.4	580.0	598.8	612.1	619.9	622.2
147.5°	518.1	537.0	553.6	569.1	579.7	585.0	586.4
150°	508.1	524.5	538.6	550.3	559.7	564.4	565.2
152.5°	500.0	513.9	526.1	535.3	543.4	546.9	547.0
155°	487.0	498.7	507.3	515.9	521.4	524.5	523.0
157.5°	473.9	483.7	490.4	496.5	501.1	502.5	502.5
160°	465.1	473.7	479.2	484.7	488.6	489.3	489.3
162.5°	457.0	464.3	468.6	474.0	476.7	477.5	476.8
165°	444.8	450.3	453.4	456.5	459.6	459.6	458.9
167.5°	433.7	437.4	440.3	441.7	443.4	443.2	442.3
170°	426.8	429.9	431.5	432.3	434.6	433.8	432.3
172.5°	420.6	423.1	424.0	424.8	425.9	425.1	424.2
175°	413.5	414.3	415.1	415.1	415.9	415.1	413.5
177.5°	408.4	409.0	409.0	409.0	409.0	408.4	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5

(END OF REPORT)