

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: P331731-940

Luminaire Tested: **SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331731-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6696.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

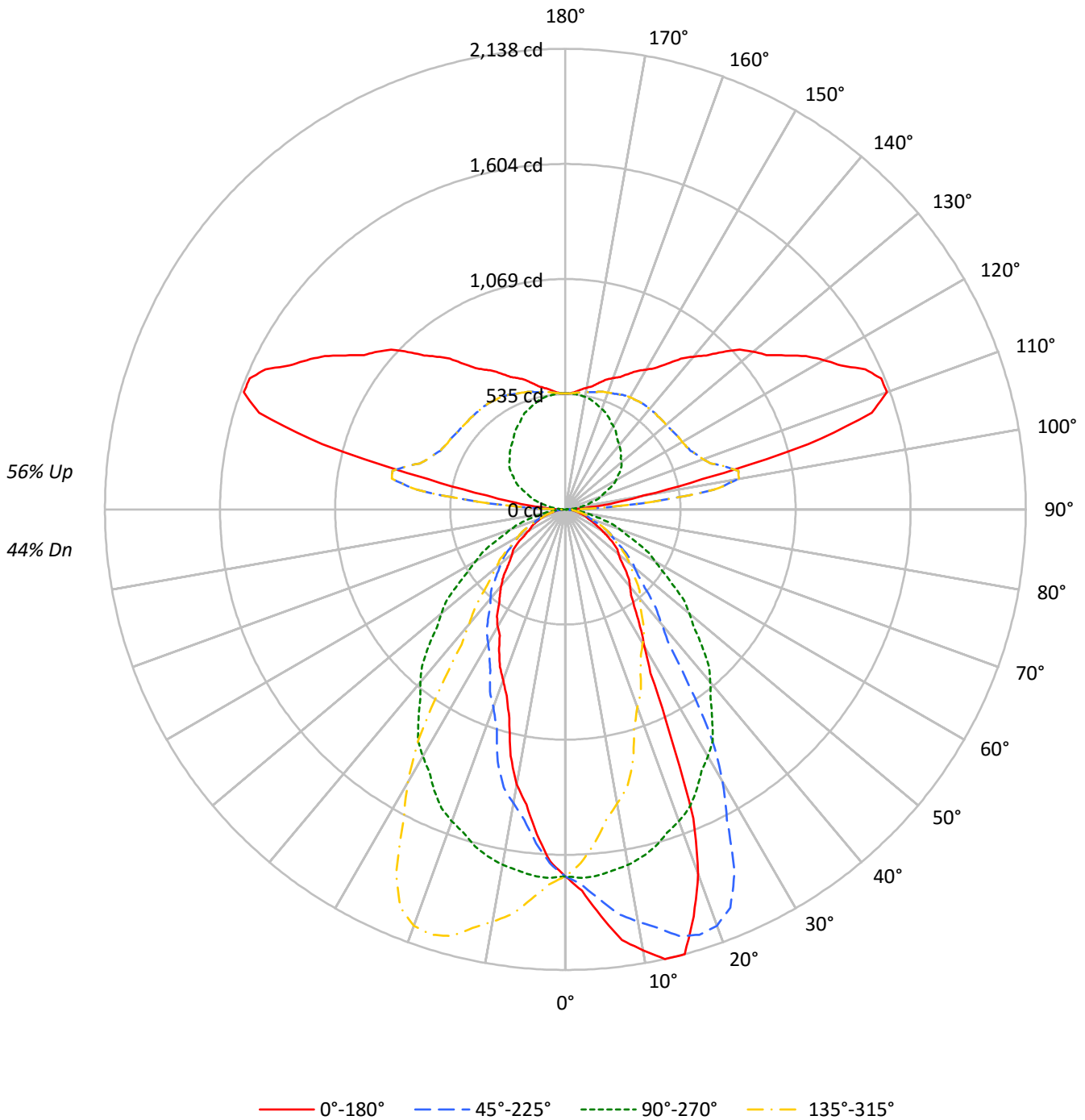
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	80	71	69	67	58	56	55	46	45	44	38
2	89	82	76	72	81	75	71	66	63	60	57	52	49	47	41	40	38	33
3	82	73	66	61	75	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	65	58	52	69	60	54	49	51	46	42	42	38	36	34	31	29	26
5	69	58	51	45	63	54	47	42	46	41	37	38	34	31	31	28	26	23
6	64	53	45	39	59	49	42	37	41	36	32	35	31	28	28	26	23	21
7	59	48	40	35	54	44	38	33	38	33	29	32	28	25	26	23	21	19
8	55	44	36	31	51	40	34	29	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	26	32	27	23	27	23	21	22	20	18	16
10	48	37	30	25	44	34	28	24	30	25	21	25	21	19	21	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	2.4
10°-20°	449.8	6.7
20°-30°	579.6	8.7
30°-40°	550.8	8.2
40°-50°	471.8	7.0
50°-60°	359.3	5.4
60°-70°	227.1	3.4
70°-80°	113.4	1.7
80°-90°	34.4	0.5
90°-100°	215.4	3.2
100°-110°	730.9	10.9
110°-120°	776.4	11.6
120°-130°	639.2	9.5
130°-140°	513.3	7.7
140°-150°	387.9	5.8
150°-160°	272.6	4.1
160°-170°	160.5	2.4
170°-180°	52.2	0.8
0°-30°	1190.8	17.8
0°-40°	1741.6	26.0
0°-60°	2572.7	38.4
0°-90°	2947.7	44.0
90°-120°	1722.7	25.7
90°-150°	3263.0	48.7
90°-180°	3748.0	56.0
0°-180°	6696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	24
90°	34	1	34	1	34	19
95°	118	36	118	36	118	154
105°	1167	126	1167	126	1167	1130
115°	1536	223	1536	223	1536	1504
125°	1246	311	1246	311	1246	1126
135°	1033	365	1033	365	1033	802
145°	825	416	825	416	825	524
155°	693	473	693	473	693	323
165°	608	516	608	516	608	174
175°	548	538	548	538	548	53
180°	539	539	539	539	539	



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	14.4	14.9	14.9	14.9	14.9	14.7	14.3	15.2	14.9	15.6	14.9
90°	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2	34.2	35.2	34.2
92.5°	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3	113.8	134.6	132.8
95°	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4	355.3	406.1	359.4
97.5°	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3	727.2	693.2	522.1
100°	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7	967.5	818.3	563.5
102.5°	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5	1057.0	822.5	547.8
105°	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6	1043.1	767.6	516.9
107.5°	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7	952.2	708.7	501.6
110°	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6	895.0	680.6	498.3



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2	855.2	662.4	499.1
115°	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9	805.9	642.2	503.5
117.5°	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1	774.8	632.5	510.9
120°	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9	758.2	626.7	515.9
122.5°	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5	744.1	623.4	521.7
125°	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0	724.1	617.4	530.4
127.5°	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9	705.4	613.9	539.3
130°	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2	693.0	612.2	545.9
132.5°	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3	683.1	611.4	552.5
135°	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5	669.1	610.1	560.4
137.5°	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3	659.4	609.9	567.5
140°	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3	653.6	609.1	570.8
142.5°	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7	647.8	609.1	573.3
145°	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3	640.2	607.0	576.0
147.5°	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7	632.3	603.3	576.8
150°	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5	625.6	600.8	576.0
152.5°	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4	619.8	596.6	574.3
155°	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7	609.1	589.4	571.8
157.5°	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0	599.0	581.9	567.0
160°	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9	591.5	577.0	564.5
162.5°	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8	584.9	572.8	562.0
165°	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2	573.9	564.5	557.3
167.5°	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1	563.1	557.3	552.5
170°	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5	557.3	553.1	550.0
172.5°	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0	551.5	548.2	546.7
175°	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0	543.9	542.8	541.8
177.5°	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2	539.5	538.7	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	13.6	12.7	11.6	10.5	10.6	10.6	12.2	13.9	12.7	12.0	11.5
90°	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1	4.1	8.3	10.3
92.5°	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7	18.2	25.7	30.2
95°	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3	40.4	50.7	60.1
97.5°	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0	64.6	75.6	89.7
100°	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7	82.8	92.2	108.8
102.5°	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8	101.1	110.4	127.0
105°	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4	130.5	137.8	153.3
107.5°	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2	159.5	166.6	180.8
110°	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1	180.2	186.5	199.9





TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3	198.5	205.5	218.1
115°	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7	227.9	234.1	246.6
117.5°	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2	256.3	262.5	273.5
120°	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4	274.5	280.7	290.1
122.5°	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8	291.1	297.3	307.5
125°	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8	313.9	320.1	332.5
127.5°	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0	333.1	341.9	355.5
130°	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7	343.9	354.3	368.8
132.5°	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7	354.7	365.9	381.2
135°	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6	368.8	381.2	396.7
137.5°	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7	383.7	396.1	412.7
140°	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5	393.6	406.1	422.7
142.5°	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3	403.6	415.2	431.8
145°	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4	420.5	431.0	446.5
147.5°	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8	436.9	446.8	461.2
150°	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4	448.5	456.8	470.3
152.5°	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0	458.5	466.7	478.6
155°	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4	474.4	480.6	492.0
157.5°	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1	488.1	493.1	503.0
160°	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1	497.2	501.3	509.6
162.5°	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3	504.7	508.8	515.4
165°	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9	514.9	516.9	523.1
167.5°	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6	523.3	525.2	529.1
170°	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4	528.3	529.3	532.4
172.5°	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7	532.4	531.8	534.9
175°	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6	536.5	535.6	537.6
177.5°	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5	537.8	537.0	538.7
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	11.5	11.6	11.7	13.2	14.4	14.2	13.9	13.3	12.8	13.3	13.0
90°	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2	31.1	33.2	34.2
92.5°	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3	77.5	68.8	62.3
95°	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4	208.2	164.7	141.9
97.5°	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3	518.2	406.1	331.3
100°	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7	817.3	675.4	550.0
102.5°	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5	1121.4	1017.6	884.8
105°	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6	1375.6	1389.1	1355.0
107.5°	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7	1357.0	1464.7	1514.8
110°	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6	1299.0	1431.6	1516.5



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2	1230.2	1371.9	1469.3
115°	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9	1136.4	1272.0	1378.8
117.5°	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1	1060.2	1183.2	1283.3
120°	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9	1020.3	1130.2	1224.4
122.5°	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5	987.2	1091.2	1176.3
125°	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0	943.7	1034.8	1112.5
127.5°	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9	901.4	987.4	1059.1
130°	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2	873.3	955.1	1023.4
132.5°	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3	846.8	921.9	986.1
135°	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5	804.9	873.3	931.2
137.5°	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3	771.5	825.8	876.4
140°	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3	750.0	797.6	843.2
142.5°	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7	730.9	772.0	810.0
145°	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3	706.5	738.6	768.7
147.5°	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7	686.6	711.7	733.6
150°	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5	673.3	695.1	713.7
152.5°	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4	662.5	681.0	697.1
155°	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7	645.3	660.8	672.3
157.5°	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0	627.9	641.0	649.9
160°	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9	616.4	627.8	635.0
162.5°	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8	605.6	615.3	620.9
165°	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2	589.4	596.6	600.8
167.5°	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1	574.7	579.7	583.4
170°	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5	565.6	569.7	571.8
172.5°	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0	557.3	560.6	561.9
175°	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0	548.0	549.0	550.0
177.5°	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2	541.2	542.0	542.0
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	13.0	12.5	13.0	12.5	13.0	12.5	13.0	13.0	13.3	12.8	13.3
90°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2
92.5°	61.5	58.2	59.0	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3
95°	128.4	120.2	117.1	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4
97.5°	281.8	256.3	241.1	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3
100°	464.0	419.5	389.5	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7
102.5°	791.4	715.4	677.9	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5
105°	1290.7	1226.5	1182.0	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6
107.5°	1523.0	1519.4	1510.5	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7
110°	1561.0	1580.7	1590.1	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1531.2	1564.1	1581.8	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2
115°	1452.3	1499.9	1526.9	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9
117.5°	1358.3	1408.5	1437.0	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1
120°	1296.9	1345.6	1375.6	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9
122.5°	1241.4	1289.2	1316.0	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5
125°	1172.6	1212.0	1237.9	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0
127.5°	1111.5	1148.3	1170.7	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9
130°	1074.2	1109.5	1130.2	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2
132.5°	1036.1	1071.3	1090.4	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3
135°	975.8	1010.0	1028.6	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5
137.5°	916.9	946.4	962.8	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3
140°	876.4	903.3	918.8	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3
142.5°	841.5	866.0	879.9	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7
145°	793.4	811.1	821.4	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3
147.5°	754.1	768.2	775.3	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7
150°	729.2	741.7	747.9	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5
152.5°	709.4	720.1	724.7	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4
155°	683.7	690.9	695.1	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7
157.5°	658.0	664.0	665.8	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0
160°	642.2	647.4	648.5	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9
162.5°	628.1	631.7	632.7	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8
165°	604.9	609.1	609.1	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2
167.5°	585.2	587.5	587.4	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1
170°	572.8	576.0	574.9	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5
172.5°	562.9	564.4	563.3	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0
175°	550.0	551.1	550.0	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0
177.5°	542.0	542.0	541.2	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	13.9	14.2	14.4	13.2	11.7	11.6	11.5	11.5	12.0	12.7	13.9
90°	34.2	35.2	34.2	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1
92.5°	113.8	134.6	132.8	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7
95°	355.3	406.1	359.4	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3
97.5°	727.2	693.2	522.1	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0
100°	967.5	818.3	563.5	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7
102.5°	1057.0	822.5	547.8	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8
105°	1043.1	767.6	516.9	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4
107.5°	952.2	708.7	501.6	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2
110°	895.0	680.6	498.3	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	855.2	662.4	499.1	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3
115°	805.9	642.2	503.5	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7
117.5°	774.8	632.5	510.9	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2
120°	758.2	626.7	515.9	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4
122.5°	744.1	623.4	521.7	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8
125°	724.1	617.4	530.4	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8
127.5°	705.4	613.9	539.3	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0
130°	693.0	612.2	545.9	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7
132.5°	683.1	611.4	552.5	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7
135°	669.1	610.1	560.4	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6
137.5°	659.4	609.9	567.5	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7
140°	653.6	609.1	570.8	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5
142.5°	647.8	609.1	573.3	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3
145°	640.2	607.0	576.0	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4
147.5°	632.3	603.3	576.8	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8
150°	625.6	600.8	576.0	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4
152.5°	619.8	596.6	574.3	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0
155°	609.1	589.4	571.8	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4
157.5°	599.0	581.9	567.0	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1
160°	591.5	577.0	564.5	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1
162.5°	584.9	572.8	562.0	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3
165°	573.9	564.5	557.3	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9
167.5°	563.1	557.3	552.5	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6
170°	557.3	553.1	550.0	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4
172.5°	551.5	548.2	546.7	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7
175°	543.9	542.8	541.8	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6
177.5°	539.5	538.7	539.5	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7





TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	12.2	10.6	10.6	10.5	11.6	12.7	13.6	14.9	15.6	14.9	15.2
90°	4.1	8.3	10.3	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2
92.5°	18.2	25.7	30.2	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3
95°	40.4	50.7	60.1	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4
97.5°	64.6	75.6	89.7	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3
100°	82.8	92.2	108.8	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7
102.5°	101.1	110.4	127.0	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5
105°	130.5	137.8	153.3	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6
107.5°	159.5	166.6	180.8	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7
110°	180.2	186.5	199.9	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6





TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	205.5	218.1	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2
115°	227.9	234.1	246.6	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9
117.5°	256.3	262.5	273.5	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1
120°	274.5	280.7	290.1	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9
122.5°	291.1	297.3	307.5	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5
125°	313.9	320.1	332.5	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0
127.5°	333.1	341.9	355.5	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9
130°	343.9	354.3	368.8	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2
132.5°	354.7	365.9	381.2	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3
135°	368.8	381.2	396.7	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5
137.5°	383.7	396.1	412.7	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3
140°	393.6	406.1	422.7	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3
142.5°	403.6	415.2	431.8	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7
145°	420.5	431.0	446.5	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3
147.5°	436.9	446.8	461.2	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7
150°	448.5	456.8	470.3	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5
152.5°	458.5	466.7	478.6	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4
155°	474.4	480.6	492.0	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7
157.5°	488.1	493.1	503.0	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0
160°	497.2	501.3	509.6	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9
162.5°	504.7	508.8	515.4	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8
165°	514.9	516.9	523.1	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2
167.5°	523.3	525.2	529.1	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1
170°	528.3	529.3	532.4	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5
172.5°	532.4	531.8	534.9	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0
175°	536.5	535.6	537.6	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0
177.5°	537.8	537.0	538.7	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	14.3	14.7	14.9	14.9	14.9	14.9	14.4
90°	31.1	33.2	34.2	34.2	34.2	34.2	34.2
92.5°	77.5	68.8	62.3	61.5	58.2	59.0	57.4
95°	208.2	164.7	141.9	128.4	120.2	117.1	118.1
97.5°	518.2	406.1	331.3	281.8	256.3	241.1	232.5
100°	817.3	675.4	550.0	464.0	419.5	389.5	370.9
102.5°	1121.4	1017.6	884.8	791.4	715.4	677.9	652.6
105°	1375.6	1389.1	1355.0	1290.7	1226.5	1182.0	1167.4
107.5°	1357.0	1464.7	1514.8	1523.0	1519.4	1510.5	1491.2
110°	1299.0	1431.6	1516.5	1561.0	1580.7	1590.1	1589.0



TEST NUMBER: P331731-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1230.2	1371.9	1469.3	1531.2	1564.1	1581.8	1587.3
115°	1136.4	1272.0	1378.8	1452.3	1499.9	1526.9	1536.2
117.5°	1060.2	1183.2	1283.3	1358.3	1408.5	1437.0	1444.8
120°	1020.3	1130.2	1224.4	1296.9	1345.6	1375.6	1386.0
122.5°	987.2	1091.2	1176.3	1241.4	1289.2	1316.0	1324.6
125°	943.7	1034.8	1112.5	1172.6	1212.0	1237.9	1246.2
127.5°	901.4	987.4	1059.1	1111.5	1148.3	1170.7	1177.4
130°	873.3	955.1	1023.4	1074.2	1109.5	1130.2	1138.4
132.5°	846.8	921.9	986.1	1036.1	1071.3	1090.4	1097.8
135°	804.9	873.3	931.2	975.8	1010.0	1028.6	1032.8
137.5°	771.5	825.8	876.4	916.9	946.4	962.8	968.9
140°	750.0	797.6	843.2	876.4	903.3	918.8	925.1
142.5°	730.9	772.0	810.0	841.5	866.0	879.9	881.1
145°	706.5	738.6	768.7	793.4	811.1	821.4	824.6
147.5°	686.6	711.7	733.6	754.1	768.2	775.3	777.1
150°	673.3	695.1	713.7	729.2	741.7	747.9	748.9
152.5°	662.5	681.0	697.1	709.4	720.1	724.7	724.9
155°	645.3	660.8	672.3	683.7	690.9	695.1	693.0
157.5°	627.9	641.0	649.9	658.0	664.0	665.8	665.8
160°	616.4	627.8	635.0	642.2	647.4	648.5	648.5
162.5°	605.6	615.3	620.9	628.1	631.7	632.7	631.9
165°	589.4	596.6	600.8	604.9	609.1	609.1	608.1
167.5°	574.7	579.7	583.4	585.2	587.5	587.4	586.1
170°	565.6	569.7	571.8	572.8	576.0	574.9	572.8
172.5°	557.3	560.6	561.9	562.9	564.4	563.3	562.0
175°	548.0	549.0	550.0	550.0	551.1	550.0	548.0
177.5°	541.2	542.0	542.0	542.0	542.0	541.2	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7

(END OF REPORT)