

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: P332654-840

Luminaire Tested: **SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332654-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8384.7 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

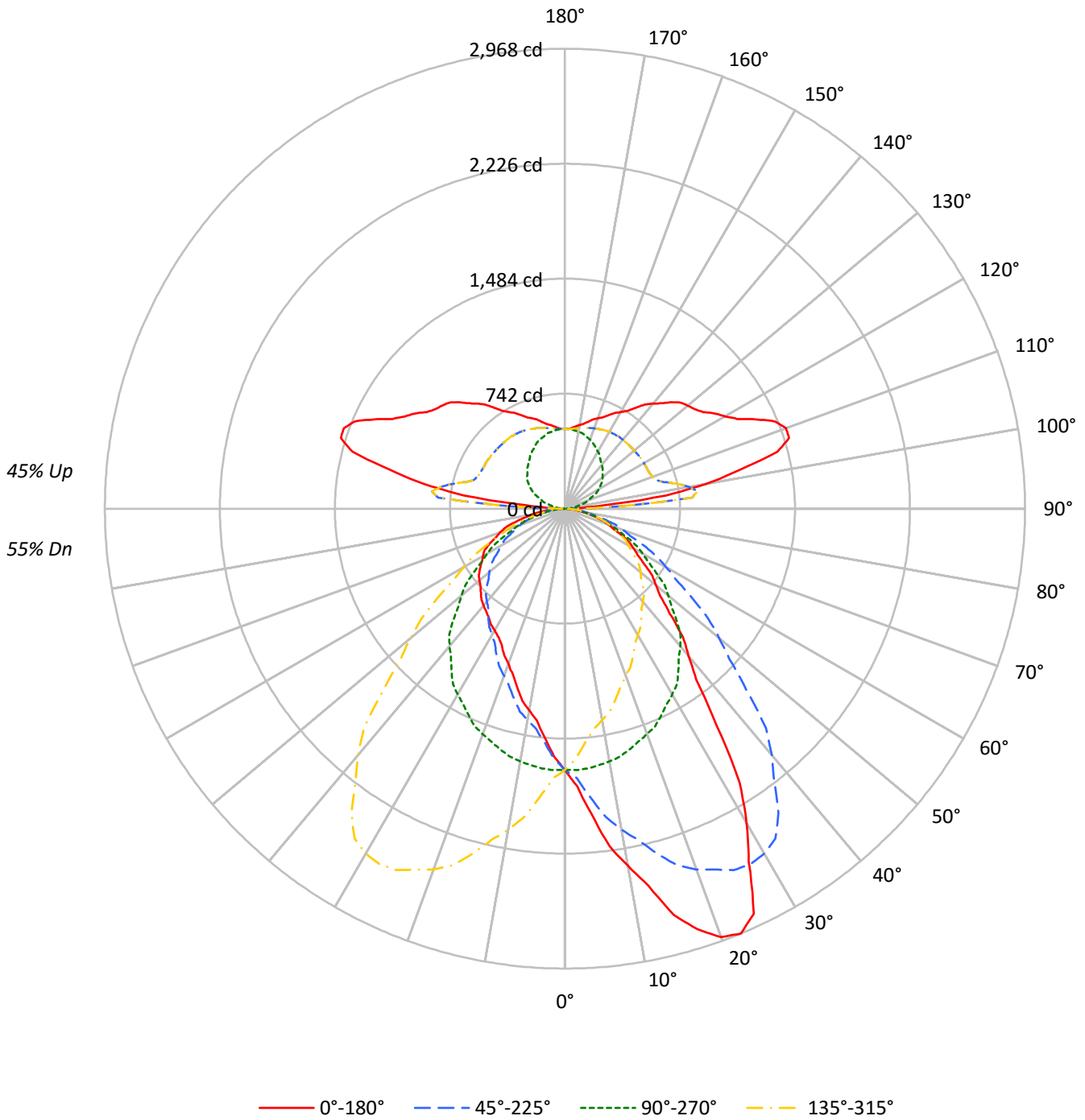
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	39	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	36	30	26	31	26	23	27	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13605	13605	13605	13605
5°	16022	13639	12039	13639
10°	19184	13581	10839	13581
15°	22697	13443	9954	13443
20°	25274	13302	9164	13302
25°	25683	13097	8620	13097
30°	21853	12899	8447	12899
35°	16802	12577	8449	12577
40°	13095	12198	8608	12198
45°	10919	11628	8752	11628
50°	9610	10934	9048	10934
55°	8804	10101	9413	10101
60°	8251	9357	9852	9357
65°	7681	8521	10214	8521
70°	7020	7695	10447	7695
75°	6273	6772	10321	6772
80°	5258	5551	9995	5551
85°	3881	4011	9568	4011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	2.0
10°-20°	506.1	6.0
20°-30°	802.5	9.6
30°-40°	893.1	10.7
40°-50°	812.9	9.7
50°-60°	664.3	7.9
60°-70°	474.2	5.7
70°-80°	261.1	3.1
80°-90°	74.1	0.9
90°-100°	370.6	4.4
100°-110°	771.4	9.2
110°-120°	690.9	8.2
120°-130°	581.2	6.9
130°-140°	484.6	5.8
140°-150°	370.2	4.4
150°-160°	260.2	3.1
160°-170°	153.1	1.8
170°-180°	49.8	0.6
0°-30°	1472.7	17.6
0°-40°	2365.8	28.2
0°-60°	3843.0	45.8
0°-90°	4652.6	55.5
90°-120°	1833.0	21.9
90°-150°	3269.0	39.0
90°-180°	3732.0	44.5
0°-180°	8384.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1685	1685	1685	1685	1685	
5°	1977	1683	1486	1683	1977	201
15°	2716	1608	1191	1608	2716	767
25°	2883	1470	968	1470	2883	1271
35°	1705	1276	857	1276	1705	1082
45°	956	1018	767	1018	956	753
55°	626	718	669	718	626	565
65°	402	446	535	446	402	398
75°	201	217	331	217	201	214
85°	42	43	103	43	42	52
90°	21	1	21	1	21	19
95°	246	33	246	33	246	382
105°	1418	118	1418	118	1418	1402
115°	1362	208	1362	208	1362	1352
125°	1087	289	1087	289	1087	988
135°	972	344	972	344	972	750
145°	794	396	794	396	794	503
155°	664	451	664	451	664	310
165°	580	491	580	491	580	166
175°	522	512	522	512	522	51
180°	513	513	513	513	513	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1793.6	1793.1	1787.5	1786.4	1782.4	1777.5	1776.4	1767.4	1749.5	1741.1	1738.9
5°	1977.1	1991.0	1972.9	1969.4	1967.3	1944.3	1932.4	1918.4	1886.3	1867.4	1852.8
7.5°	2196.1	2197.7	2189.8	2183.3	2165.6	2145.5	2115.4	2083.3	2045.0	2005.2	1975.1
10°	2340.2	2345.7	2336.6	2335.2	2299.7	2277.2	2232.6	2194.9	2151.6	2103.4	2059.5
12.5°	2492.0	2484.2	2479.6	2449.7	2443.2	2402.4	2350.5	2311.7	2244.9	2189.5	2130.9
15°	2715.7	2700.4	2690.6	2649.4	2629.2	2572.6	2517.4	2474.9	2387.6	2304.5	2241.7
17.5°	2846.9	2862.4	2839.7	2822.8	2770.5	2730.8	2674.4	2585.1	2516.8	2413.6	2334.3
20°	2941.9	2943.3	2930.7	2913.3	2872.1	2821.9	2760.4	2662.6	2581.0	2478.3	2369.4
22.5°	2967.6	2967.9	2962.5	2946.2	2915.1	2874.3	2812.4	2730.8	2631.8	2520.2	2411.4
25°	2883.3	2880.4	2886.8	2904.9	2893.1	2880.4	2844.9	2784.1	2692.0	2573.9	2456.7
27.5°	2569.9	2589.2	2624.6	2669.4	2712.4	2745.2	2754.4	2742.0	2684.8	2587.8	2465.0
30°	2344.3	2368.0	2394.6	2439.2	2525.8	2575.4	2629.9	2671.0	2648.0	2570.5	2456.0
32.5°	2096.4	2102.2	2141.6	2192.4	2271.7	2367.0	2453.4	2537.0	2564.8	2524.2	2428.6
35°	1704.9	1714.5	1757.2	1807.5	1904.5	2021.0	2150.9	2266.8	2362.5	2400.9	2352.0
37.5°	1391.2	1419.3	1449.4	1503.4	1588.8	1693.7	1828.7	1978.6	2121.2	2216.7	2232.9
40°	1242.6	1260.1	1281.7	1322.9	1395.5	1498.8	1614.8	1786.6	1938.0	2074.9	2119.5
42.5°	1125.4	1135.6	1148.8	1186.1	1241.4	1344.1	1450.0	1601.0	1753.1	1916.7	1991.7
45°	956.4	966.9	989.3	1010.9	1052.8	1124.0	1222.4	1346.7	1499.5	1657.4	1795.5
47.5°	834.4	841.1	854.3	877.6	913.1	960.1	1040.2	1144.0	1285.7	1438.9	1586.1
50°	765.2	770.7	781.2	802.1	829.4	871.2	936.9	1033.9	1144.9	1299.2	1443.7
52.5°	710.4	712.7	720.3	734.6	756.2	791.4	845.3	925.5	1028.7	1166.3	1310.2
55°	625.5	628.3	635.3	645.8	664.6	686.9	728.1	788.2	878.3	997.6	1122.6
57.5°	555.7	557.6	563.5	567.5	583.1	601.3	632.9	675.8	744.1	845.3	956.8
60°	511.0	509.7	516.6	520.1	530.6	545.9	570.4	611.6	670.9	752.6	855.2
62.5°	467.5	465.5	471.4	475.9	482.0	495.1	515.0	547.3	595.5	669.3	758.0
65°	402.1	399.3	402.8	408.4	413.9	421.0	435.7	464.2	502.6	555.7	623.4
67.5°	336.5	339.4	340.0	342.7	346.0	355.5	365.6	385.8	412.8	455.3	512.7
70°	297.4	298.1	300.9	300.9	303.0	311.3	319.7	331.6	358.1	397.3	444.0
72.5°	258.3	261.3	260.1	262.4	263.9	269.4	275.6	286.9	309.5	338.6	378.1
75°	201.1	203.2	203.2	203.9	205.9	208.0	212.9	221.3	237.3	259.0	286.2
77.5°	146.6	146.9	147.8	150.4	150.4	153.7	157.3	164.1	172.0	186.8	203.4
80°	113.1	114.5	113.8	115.2	115.2	118.0	119.4	127.7	131.3	141.0	154.3
82.5°	82.9	84.3	84.2	86.1	87.3	87.9	89.8	93.1	96.6	105.2	110.7
85°	41.9	43.3	41.9	43.3	45.3	46.0	48.2	48.9	51.7	53.7	58.7
87.5°	16.6	18.2	18.4	18.8	19.7	20.2	20.6	19.8	21.8	22.6	24.4
90°	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2	17.2	18.2	16.2
92.5°	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0	266.4	319.8	279.8
95°	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0	844.9	821.6	620.1
97.5°	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8	1061.4	865.4	580.3
100°	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9	1068.6	810.5	526.2
102.5°	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2	1008.1	742.0	490.0
105°	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1	898.3	661.4	458.7
107.5°	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0	809.5	616.2	453.0
110°	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6	765.2	600.9	454.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8	740.2	593.6	459.5
115°	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8	716.8	589.8	468.8
117.5°	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8	706.3	588.8	478.7
120°	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5	700.6	588.8	485.9
122.5°	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9	694.2	587.9	493.2
125°	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3	683.6	586.7	504.1
127.5°	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1	669.2	584.5	512.7
130°	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1	660.4	583.7	519.2
132.5°	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1	652.3	582.9	524.8
135°	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7	640.2	581.7	533.3
137.5°	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6	629.7	581.5	538.4
140°	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4	624.1	580.7	542.4
142.5°	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1	619.2	580.7	545.6
145°	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2	611.0	578.7	547.4
147.5°	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1	603.5	575.0	548.5
150°	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1	597.8	572.6	548.5
152.5°	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2	591.4	568.6	546.8
155°	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9	581.7	562.6	544.4
157.5°	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5	571.8	556.3	541.8
160°	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6	564.6	551.5	539.4
162.5°	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7	558.2	546.6	536.9
165°	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5	547.4	539.4	532.3
167.5°	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6	537.8	532.1	527.5
170°	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3	531.3	527.3	524.2
172.5°	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9	525.6	522.4	521.0
175°	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2	519.2	517.2	517.2
177.5°	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5	514.7	513.9	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1739.5	1731.6	1726.1	1721.6	1709.3	1702.0	1696.5	1688.6	1679.7	1670.2	1658.5
5°	1838.2	1814.4	1797.0	1770.5	1745.3	1724.3	1702.7	1683.1	1659.4	1633.7	1614.8
7.5°	1941.9	1906.6	1861.4	1822.1	1778.0	1739.6	1705.3	1670.0	1633.5	1598.0	1565.5
10°	2007.8	1962.5	1912.2	1852.8	1797.0	1747.4	1701.3	1656.7	1613.4	1570.0	1533.1
12.5°	2078.7	2022.2	1947.9	1878.6	1815.9	1749.7	1694.0	1639.3	1587.1	1541.6	1498.4
15°	2173.9	2092.2	2006.4	1913.6	1831.2	1753.7	1677.6	1608.5	1549.8	1489.8	1447.9
17.5°	2232.5	2131.4	2033.3	1936.2	1836.4	1738.8	1656.7	1576.9	1503.5	1443.9	1391.1
20°	2271.0	2170.5	2048.3	1951.3	1832.6	1732.0	1637.1	1548.4	1471.7	1408.2	1353.6
22.5°	2304.5	2188.4	2066.2	1938.4	1820.3	1713.6	1609.7	1520.6	1442.1	1375.1	1322.9
25°	2322.7	2189.3	2056.7	1929.7	1795.5	1669.2	1575.0	1470.3	1386.4	1316.0	1260.1
27.5°	2324.6	2182.0	2031.9	1890.8	1752.4	1634.8	1515.8	1422.2	1335.2	1260.7	1207.1
30°	2318.4	2169.8	2008.5	1855.6	1716.7	1588.9	1485.6	1383.7	1295.1	1221.0	1165.2
32.5°	2299.0	2144.0	1978.3	1816.5	1672.5	1547.6	1441.0	1344.0	1257.6	1184.7	1126.1
35°	2242.4	2089.5	1912.9	1744.6	1597.3	1471.0	1374.6	1276.2	1189.6	1120.4	1064.0
37.5°	2154.0	2015.8	1836.2	1662.1	1517.4	1390.5	1295.1	1206.1	1128.0	1057.8	999.9
40°	2076.9	1955.4	1775.3	1605.7	1449.4	1328.6	1239.2	1157.5	1080.1	1013.7	958.6
42.5°	1988.1	1882.3	1716.2	1536.4	1385.6	1264.4	1177.2	1103.9	1030.9	969.6	914.4
45°	1829.8	1760.0	1603.6	1437.4	1280.4	1165.9	1082.8	1018.5	957.2	897.1	851.0
47.5°	1647.7	1613.1	1481.5	1323.6	1174.6	1061.7	989.7	930.3	876.5	825.6	785.0
50°	1525.4	1508.6	1394.8	1242.6	1100.2	994.1	921.5	870.6	824.5	779.8	741.4
52.5°	1404.7	1404.2	1301.6	1162.3	1030.5	928.3	856.2	808.6	768.6	732.4	697.8
55°	1220.3	1239.9	1159.6	1035.3	917.4	825.2	760.2	717.7	689.7	659.7	633.9
57.5°	1051.0	1083.4	1017.1	907.7	809.3	724.4	667.8	635.8	606.1	587.9	569.2
60°	940.4	971.1	919.5	827.3	734.5	661.9	608.0	579.5	553.6	541.1	527.8
62.5°	842.1	869.5	831.2	745.8	665.2	595.3	550.0	522.5	505.0	491.3	482.5
65°	701.7	724.7	691.9	629.8	560.6	504.7	467.8	446.1	429.4	423.7	413.9
67.5°	567.1	588.1	570.4	517.6	462.1	419.9	390.9	370.1	360.2	355.4	348.4
70°	487.3	508.3	489.4	443.3	400.7	365.2	337.9	326.0	315.6	313.5	303.7
72.5°	419.7	433.9	415.2	379.1	342.6	312.7	291.5	279.1	273.7	269.9	264.6
75°	314.9	327.4	314.9	286.9	261.1	240.1	222.0	217.1	210.9	208.7	205.2
77.5°	222.9	233.7	224.1	206.6	187.3	171.2	161.4	155.1	153.7	150.1	151.8
80°	170.4	177.3	168.2	156.4	141.0	129.9	122.9	119.4	115.2	113.8	116.5
82.5°	122.3	125.4	120.8	112.8	101.4	94.1	89.4	85.3	84.4	84.7	84.7
85°	63.5	62.8	62.1	55.1	51.7	46.8	44.0	43.3	42.6	44.0	45.3
87.5°	24.0	24.6	22.8	20.6	18.7	16.9	15.7	14.7	15.7	16.9	17.6
90°	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0	3.0	6.1	7.1
92.5°	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5	16.8	26.3	38.5
95°	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2	36.3	46.4	59.5
97.5°	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7	59.7	68.4	80.5
100°	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6	76.6	83.7	95.7
102.5°	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7	94.3	100.6	111.9
105°	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0	121.0	126.0	138.1
107.5°	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8	147.8	152.8	165.7
110°	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3	166.3	171.4	183.5



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1	184.1	190.0	201.3
115°	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7	210.7	217.7	227.8
117.5°	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3	237.1	243.4	254.5
120°	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1	254.1	261.2	272.2
122.5°	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2	270.1	277.2	287.5
125°	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3	293.4	299.4	310.5
127.5°	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1	311.3	318.6	331.2
130°	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6	322.7	330.6	345.8
132.5°	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0	332.2	342.7	357.1
135°	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8	347.8	357.9	375.1
137.5°	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5	362.3	373.4	389.7
140°	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0	372.0	383.1	400.2
142.5°	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3	383.3	393.5	409.9
145°	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2	399.2	409.3	423.4
147.5°	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1	415.2	424.0	438.6
150°	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5	426.5	434.5	446.7
152.5°	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0	436.2	444.2	455.4
155°	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6	451.6	457.7	467.8
157.5°	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9	464.9	470.6	478.5
160°	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8	473.8	477.9	484.9
162.5°	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9	481.1	484.3	490.6
165°	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0	491.0	493.0	498.1
167.5°	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1	499.1	500.1	503.9
170°	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1	503.1	504.1	507.2
172.5°	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1	507.2	507.3	509.5
175°	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1	511.1	511.1	512.1
177.5°	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9	513.1	512.3	513.1
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1652.8	1647.9	1640.6	1630.5	1622.1	1613.3	1611.0	1607.6	1614.4	1608.7	1607.1
5°	1598.7	1584.1	1565.2	1543.6	1531.0	1512.9	1509.3	1502.4	1495.4	1494.7	1487.7
7.5°	1541.4	1519.8	1495.1	1473.1	1452.7	1432.8	1419.9	1417.0	1406.7	1400.7	1393.7
10°	1504.5	1477.9	1449.4	1428.4	1404.6	1383.7	1369.1	1360.7	1353.6	1345.9	1339.0
12.5°	1460.9	1432.7	1409.1	1386.4	1358.3	1342.3	1318.2	1303.6	1302.3	1302.4	1284.2
15°	1410.2	1382.3	1345.9	1313.8	1298.5	1267.8	1254.6	1237.8	1227.3	1216.8	1208.5
17.5°	1352.3	1317.5	1289.2	1252.3	1222.9	1198.5	1181.1	1171.0	1155.3	1140.4	1129.7
20°	1316.0	1279.0	1248.9	1209.8	1177.7	1147.7	1133.1	1119.1	1107.2	1094.7	1082.8
22.5°	1279.1	1240.4	1203.7	1165.7	1135.9	1104.2	1090.0	1071.1	1059.8	1052.8	1040.9
25°	1221.0	1179.1	1137.2	1101.0	1070.3	1042.3	1023.5	1008.8	996.2	990.7	983.0
27.5°	1157.9	1116.3	1075.8	1034.6	999.8	979.5	964.4	953.3	946.1	938.7	935.2
30°	1117.7	1074.4	1031.2	992.7	960.6	940.4	926.5	918.8	913.1	909.7	906.2
32.5°	1076.9	1034.2	988.7	953.6	924.8	906.9	896.3	888.6	885.8	884.5	883.2
35°	1011.6	968.3	926.5	895.0	867.8	860.8	851.7	847.5	846.2	851.0	853.1
37.5°	948.4	908.2	869.6	839.1	821.3	811.1	808.0	808.2	813.1	817.5	822.5
40°	907.6	868.5	832.1	805.7	788.9	782.6	781.2	784.7	790.3	795.2	800.7
42.5°	867.9	829.4	796.4	771.5	759.8	754.1	755.0	758.4	766.3	772.2	780.6
45°	806.4	774.3	742.1	721.9	712.1	713.5	713.5	719.7	727.4	736.5	745.6
47.5°	748.4	716.0	689.6	672.6	667.5	666.3	670.2	678.4	689.4	700.6	713.4
50°	709.3	678.5	655.5	640.2	634.6	636.7	642.3	649.9	663.2	677.2	690.4
52.5°	669.6	641.7	620.4	606.1	602.2	606.0	611.6	623.7	635.3	650.4	666.4
55°	608.0	584.3	567.5	557.1	555.7	557.8	564.1	577.3	594.1	613.0	628.3
57.5°	546.7	526.9	511.6	504.3	505.0	507.0	517.4	533.1	551.0	571.1	590.9
60°	505.4	487.3	474.7	469.2	469.8	474.0	486.6	501.3	523.6	543.1	564.1
62.5°	466.4	450.4	438.4	433.4	432.4	441.6	453.6	468.9	491.2	513.0	535.6
65°	403.5	390.9	381.2	378.4	380.5	387.5	402.8	423.0	441.9	464.9	488.7
67.5°	342.0	331.7	325.1	326.3	328.8	339.1	352.0	369.4	390.8	414.7	438.2
70°	303.0	293.2	287.6	288.3	292.6	305.1	316.3	333.7	356.8	381.2	400.7
72.5°	262.8	256.3	251.4	254.3	258.4	267.1	281.0	298.5	318.8	341.5	362.1
75°	201.8	201.8	198.9	201.1	207.3	215.7	226.2	244.4	264.6	282.8	299.5
77.5°	149.7	148.1	150.0	152.5	156.1	166.0	178.0	191.0	206.2	224.4	238.2
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.5	156.4	168.2	183.6	196.8
82.5°	86.0	86.7	88.6	93.8	95.2	103.5	111.6	123.4	134.2	144.5	155.5
85°	46.8	46.8	50.3	52.3	55.8	61.4	66.3	73.3	83.1	90.1	100.5
87.5°	19.5	19.5	22.9	24.0	26.2	29.3	30.2	36.6	39.0	42.0	47.1
90°	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2	19.2	20.2	20.2
92.5°	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0	149.1	118.6	98.4
95°	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0	590.8	455.7	357.9
97.5°	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8	1045.6	947.1	841.8
100°	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9	1236.0	1186.6	1112.0
102.5°	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2	1310.2	1324.5	1293.4
105°	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1	1303.5	1403.3	1444.7
107.5°	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0	1199.7	1340.3	1430.2
110°	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6	1119.0	1265.3	1376.1



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8	1048.0	1186.2	1297.1
115°	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8	966.8	1084.8	1181.5
117.5°	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8	920.5	1013.2	1095.3
120°	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5	900.3	981.0	1052.5
122.5°	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9	887.4	960.8	1023.5
125°	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3	867.0	936.5	992.0
127.5°	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1	843.0	912.4	965.0
130°	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1	823.6	892.2	945.6
132.5°	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1	801.9	868.8	922.3
135°	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7	769.2	830.7	881.1
137.5°	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6	738.0	789.8	835.4
140°	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4	717.8	763.2	805.5
142.5°	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1	700.8	739.8	776.5
145°	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2	677.5	707.7	736.0
147.5°	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1	657.3	681.6	703.7
150°	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1	645.2	665.4	683.6
152.5°	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2	633.1	651.7	666.6
155°	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9	616.0	631.1	643.2
157.5°	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5	599.1	611.8	621.5
160°	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6	587.7	598.8	606.9
162.5°	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7	577.2	585.9	593.2
165°	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5	561.6	568.6	573.6
167.5°	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6	548.3	553.9	556.9
170°	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3	539.4	543.4	546.4
172.5°	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9	532.1	534.5	536.7
175°	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2	522.2	524.2	524.2
177.5°	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5	516.3	516.3	517.2
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1606.0	1604.9	1600.9	1600.4	1600.9	1604.9	1606.0	1607.1	1608.7	1614.4	1607.6
5°	1483.5	1480.1	1477.9	1485.6	1477.9	1480.1	1483.5	1487.7	1494.7	1495.4	1502.4
7.5°	1391.2	1388.5	1382.3	1380.4	1382.3	1388.5	1391.2	1393.7	1400.7	1406.7	1417.0
10°	1332.0	1329.2	1323.6	1322.2	1323.6	1329.2	1332.0	1339.0	1345.9	1353.6	1360.7
12.5°	1275.1	1269.5	1268.4	1269.7	1268.4	1269.5	1275.1	1284.2	1302.4	1302.3	1303.6
15°	1199.4	1196.6	1188.9	1191.0	1188.9	1196.6	1199.4	1208.5	1216.8	1227.3	1237.8
17.5°	1124.8	1121.5	1112.2	1120.3	1112.2	1121.5	1124.8	1129.7	1140.4	1155.3	1171.0
20°	1077.9	1072.3	1067.4	1066.7	1067.4	1072.3	1077.9	1082.8	1094.7	1107.2	1119.1
22.5°	1033.2	1028.2	1027.7	1023.2	1027.7	1028.2	1033.2	1040.9	1052.8	1059.8	1071.1
25°	977.3	972.5	971.1	967.7	971.1	972.5	977.3	983.0	990.7	996.2	1008.8
27.5°	934.5	932.1	929.6	930.7	929.6	932.1	934.5	935.2	938.7	946.1	953.3
30°	908.3	907.6	906.2	906.2	906.2	907.6	908.3	906.2	909.7	913.1	918.8
32.5°	886.5	886.4	887.2	887.2	887.2	886.4	886.5	883.2	884.5	885.8	888.6
35°	855.9	858.0	859.4	857.3	859.4	858.0	855.9	853.1	851.0	846.2	847.5
37.5°	828.3	830.3	832.3	834.7	832.3	830.3	828.3	822.5	817.5	813.1	808.2
40°	807.0	811.9	813.3	816.8	813.3	811.9	807.0	800.7	795.2	790.3	784.7
42.5°	786.9	792.3	796.0	796.7	796.0	792.3	786.9	780.6	772.2	766.3	758.4
45°	756.1	761.6	766.6	766.6	766.6	761.6	756.1	745.6	736.5	727.4	719.7
47.5°	724.1	732.2	737.1	738.3	737.1	732.2	724.1	713.4	700.6	689.4	678.4
50°	702.4	712.1	717.0	720.4	717.0	712.1	702.4	690.4	677.2	663.2	649.9
52.5°	681.1	690.8	697.4	699.2	697.4	690.8	681.1	666.4	650.4	635.3	623.7
55°	644.4	658.3	666.0	668.8	666.0	658.3	644.4	628.3	613.0	594.1	577.3
57.5°	609.8	622.6	631.6	633.6	631.6	622.6	609.8	590.9	571.1	551.0	533.1
60°	582.9	596.9	608.0	610.2	608.0	596.9	582.9	564.1	543.1	523.6	501.3
62.5°	555.5	570.1	580.2	585.6	580.2	570.1	555.5	535.6	513.0	491.2	468.9
65°	508.3	522.9	532.7	534.7	532.7	522.9	508.3	488.7	464.9	441.9	423.0
67.5°	456.6	471.2	477.7	481.7	477.7	471.2	456.6	438.2	414.7	390.8	369.4
70°	420.3	432.1	439.1	442.6	439.1	432.1	420.3	400.7	381.2	356.8	333.7
72.5°	378.9	391.3	399.5	400.2	399.5	391.3	378.9	362.1	341.5	318.8	298.5
75°	315.6	326.7	330.9	330.9	330.9	326.7	315.6	299.5	282.8	264.6	244.4
77.5°	249.7	255.5	260.8	262.0	260.8	255.5	249.7	238.2	224.4	206.2	191.0
80°	207.3	210.9	215.0	215.0	215.0	210.9	207.3	196.8	183.6	168.2	156.4
82.5°	163.8	166.7	170.9	170.4	170.9	166.7	163.8	155.5	144.5	134.2	123.4
85°	99.2	105.4	104.7	103.3	104.7	105.4	99.2	100.5	90.1	83.1	73.3
87.5°	48.9	49.7	51.1	52.3	51.1	49.7	48.9	47.1	42.0	39.0	36.6
90°	21.2	22.2	21.2	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2
92.5°	86.5	81.1	77.7	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0
95°	308.5	277.2	259.1	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0
97.5°	769.4	708.7	678.5	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8
100°	1024.3	962.8	932.5	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9
102.5°	1239.6	1195.1	1163.3	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2
105°	1446.7	1438.7	1424.5	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1
107.5°	1480.0	1503.0	1513.1	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0
110°	1447.7	1490.1	1508.2	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1378.4	1429.6	1455.0	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8
115°	1261.2	1321.7	1353.9	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8
117.5°	1163.3	1214.1	1246.7	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8
120°	1109.9	1154.4	1180.5	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5
122.5°	1072.1	1109.9	1132.2	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9
125°	1032.4	1061.6	1080.8	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3
127.5°	1005.5	1031.6	1047.6	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1
130°	986.9	1012.2	1028.3	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1
132.5°	962.8	991.2	1006.5	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1
135°	921.5	949.7	965.8	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7
137.5°	873.0	900.9	914.2	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6
140°	840.8	863.0	877.1	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4
142.5°	807.7	828.3	840.8	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1
145°	761.1	778.3	788.4	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2
147.5°	722.3	737.0	744.7	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1
150°	699.6	712.8	718.8	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1
152.5°	680.3	690.9	694.6	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2
155°	653.3	661.4	664.4	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9
157.5°	629.0	635.1	636.9	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5
160°	613.0	619.0	620.1	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6
162.5°	597.6	603.7	604.7	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7
165°	577.6	581.7	580.7	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5
167.5°	559.0	561.6	561.4	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6
170°	548.5	549.5	548.5	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3
172.5°	538.0	539.0	538.0	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9
175°	524.2	526.2	524.2	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2
177.5°	516.3	517.2	515.5	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1611.0	1613.3	1622.1	1630.5	1640.6	1647.9	1652.8	1658.5	1670.2	1679.7	1688.6
5°	1509.3	1512.9	1531.0	1543.6	1565.2	1584.1	1598.7	1614.8	1633.7	1659.4	1683.1
7.5°	1419.9	1432.8	1452.7	1473.1	1495.1	1519.8	1541.4	1565.5	1598.0	1633.5	1670.0
10°	1369.1	1383.7	1404.6	1428.4	1449.4	1477.9	1504.5	1533.1	1570.0	1613.4	1656.7
12.5°	1318.2	1342.3	1358.3	1386.4	1409.1	1432.7	1460.9	1498.4	1541.6	1587.1	1639.3
15°	1254.6	1267.8	1298.5	1313.8	1345.9	1382.3	1410.2	1447.9	1489.8	1549.8	1608.5
17.5°	1181.1	1198.5	1222.9	1252.3	1289.2	1317.5	1352.3	1391.1	1443.9	1503.5	1576.9
20°	1133.1	1147.7	1177.7	1209.8	1248.9	1279.0	1316.0	1353.6	1408.2	1471.7	1548.4
22.5°	1090.0	1104.2	1135.9	1165.7	1203.7	1240.4	1279.1	1322.9	1375.1	1442.1	1520.6
25°	1023.5	1042.3	1070.3	1101.0	1137.2	1179.1	1221.0	1260.1	1316.0	1386.4	1470.3
27.5°	964.4	979.5	999.8	1034.6	1075.8	1116.3	1157.9	1207.1	1260.7	1335.2	1422.2
30°	926.5	940.4	960.6	992.7	1031.2	1074.4	1117.7	1165.2	1221.0	1295.1	1383.7
32.5°	896.3	906.9	924.8	953.6	988.7	1034.2	1076.9	1126.1	1184.7	1257.6	1344.0
35°	851.7	860.8	867.8	895.0	926.5	968.3	1011.6	1064.0	1120.4	1189.6	1276.2
37.5°	808.0	811.1	821.3	839.1	869.6	908.2	948.4	999.9	1057.8	1128.0	1206.1
40°	781.2	782.6	788.9	805.7	832.1	868.5	907.6	958.6	1013.7	1080.1	1157.5
42.5°	755.0	754.1	759.8	771.5	796.4	829.4	867.9	914.4	969.6	1030.9	1103.9
45°	713.5	713.5	712.1	721.9	742.1	774.3	806.4	851.0	897.1	957.2	1018.5
47.5°	670.2	666.3	667.5	672.6	689.6	716.0	748.4	785.0	825.6	876.5	930.3
50°	642.3	636.7	634.6	640.2	655.5	678.5	709.3	741.4	779.8	824.5	870.6
52.5°	611.6	606.0	602.2	606.1	620.4	641.7	669.6	697.8	732.4	768.6	808.6
55°	564.1	557.8	555.7	557.1	567.5	584.3	608.0	633.9	659.7	689.7	717.7
57.5°	517.4	507.0	505.0	504.3	511.6	526.9	546.7	569.2	587.9	606.1	635.8
60°	486.6	474.0	469.8	469.2	474.7	487.3	505.4	527.8	541.1	553.6	579.5
62.5°	453.6	441.6	432.4	433.4	438.4	450.4	466.4	482.5	491.3	505.0	522.5
65°	402.8	387.5	380.5	378.4	381.2	390.9	403.5	413.9	423.7	429.4	446.1
67.5°	352.0	339.1	328.8	326.3	325.1	331.7	342.0	348.4	355.4	360.2	370.1
70°	316.3	305.1	292.6	288.3	287.6	293.2	303.0	303.7	313.5	315.6	326.0
72.5°	281.0	267.1	258.4	254.3	251.4	256.3	262.8	264.6	269.9	273.7	279.1
75°	226.2	215.7	207.3	201.1	198.9	201.8	201.8	205.2	208.7	210.9	217.1
77.5°	178.0	166.0	156.1	152.5	150.0	148.1	149.7	151.8	150.1	153.7	155.1
80°	144.5	132.0	124.3	122.9	118.7	115.2	114.5	116.5	113.8	115.2	119.4
82.5°	111.6	103.5	95.2	93.8	88.6	86.7	86.0	84.7	84.7	84.4	85.3
85°	66.3	61.4	55.8	52.3	50.3	46.8	46.8	45.3	44.0	42.6	43.3
87.5°	30.2	29.3	26.2	24.0	22.9	19.5	19.5	17.6	16.9	15.7	14.7
90°	17.2	18.2	16.2	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0
92.5°	266.4	319.8	279.8	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5
95°	844.9	821.6	620.1	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2
97.5°	1061.4	865.4	580.3	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7
100°	1068.6	810.5	526.2	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6
102.5°	1008.1	742.0	490.0	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7
105°	898.3	661.4	458.7	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0
107.5°	809.5	616.2	453.0	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8
110°	765.2	600.9	454.6	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3



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CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.2	593.6	459.5	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1
115°	716.8	589.8	468.8	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7
117.5°	706.3	588.8	478.7	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3
120°	700.6	588.8	485.9	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1
122.5°	694.2	587.9	493.2	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2
125°	683.6	586.7	504.1	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3
127.5°	669.2	584.5	512.7	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1
130°	660.4	583.7	519.2	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6
132.5°	652.3	582.9	524.8	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0
135°	640.2	581.7	533.3	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8
137.5°	629.7	581.5	538.4	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5
140°	624.1	580.7	542.4	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0
142.5°	619.2	580.7	545.6	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3
145°	611.0	578.7	547.4	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2
147.5°	603.5	575.0	548.5	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1
150°	597.8	572.6	548.5	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5
152.5°	591.4	568.6	546.8	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0
155°	581.7	562.6	544.4	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6
157.5°	571.8	556.3	541.8	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9
160°	564.6	551.5	539.4	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8
162.5°	558.2	546.6	536.9	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9
165°	547.4	539.4	532.3	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0
167.5°	537.8	532.1	527.5	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1
170°	531.3	527.3	524.2	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1
172.5°	525.6	522.4	521.0	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1
175°	519.2	517.2	517.2	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1
177.5°	514.7	513.9	513.9	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332654-840

CATALOG NUMBER: SA4XXDIP-C1020D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1696.5	1702.0	1709.3	1721.6	1726.1	1731.6	1739.5	1738.9	1741.1	1749.5	1767.4
5°	1702.7	1724.3	1745.3	1770.5	1797.0	1814.4	1838.2	1852.8	1867.4	1886.3	1918.4
7.5°	1705.3	1739.6	1778.0	1822.1	1861.4	1906.6	1941.9	1975.1	2005.2	2045.0	2083.3
10°	1701.3	1747.4	1797.0	1852.8	1912.2	1962.5	2007.8	2059.5	2103.4	2151.6	2194.9
12.5°	1694.0	1749.7	1815.9	1878.6	1947.9	2022.2	2078.7	2130.9	2189.5	2244.9	2311.7
15°	1677.6	1753.7	1831.2	1913.6	2006.4	2092.2	2173.9	2241.7	2304.5	2387.6	2474.9
17.5°	1656.7	1738.8	1836.4	1936.2	2033.3	2131.4	2232.5	2334.3	2413.6	2516.8	2585.1
20°	1637.1	1732.0	1832.6	1951.3	2048.3	2170.5	2271.0	2369.4	2478.3	2581.0	2662.6
22.5°	1609.7	1713.6	1820.3	1938.4	2066.2	2188.4	2304.5	2411.4	2520.2	2631.8	2730.8
25°	1575.0	1669.2	1795.5	1929.7	2056.7	2189.3	2322.7	2456.7	2573.9	2692.0	2784.1
27.5°	1515.8	1634.8	1752.4	1890.8	2031.9	2182.0	2324.6	2465.0	2587.8	2684.8	2742.0
30°	1485.6	1588.9	1716.7	1855.6	2008.5	2169.8	2318.4	2456.0	2570.5	2648.0	2671.0
32.5°	1441.0	1547.6	1672.5	1816.5	1978.3	2144.0	2299.0	2428.6	2524.2	2564.8	2537.0
35°	1374.6	1471.0	1597.3	1744.6	1912.9	2089.5	2242.4	2352.0	2400.9	2362.5	2266.8
37.5°	1295.1	1390.5	1517.4	1662.1	1836.2	2015.8	2154.0	2232.9	2216.7	2121.2	1978.6
40°	1239.2	1328.6	1449.4	1605.7	1775.3	1955.4	2076.9	2119.5	2074.9	1938.0	1786.6
42.5°	1177.2	1264.4	1385.6	1536.4	1716.2	1882.3	1988.1	1991.7	1916.7	1753.1	1601.0
45°	1082.8	1165.9	1280.4	1437.4	1603.6	1760.0	1829.8	1795.5	1657.4	1499.5	1346.7
47.5°	989.7	1061.7	1174.6	1323.6	1481.5	1613.1	1647.7	1586.1	1438.9	1285.7	1144.0
50°	921.5	994.1	1100.2	1242.6	1394.8	1508.6	1525.4	1443.7	1299.2	1144.9	1033.9
52.5°	856.2	928.3	1030.5	1162.3	1301.6	1404.2	1404.7	1310.2	1166.3	1028.7	925.5
55°	760.2	825.2	917.4	1035.3	1159.6	1239.9	1220.3	1122.6	997.6	878.3	788.2
57.5°	667.8	724.4	809.3	907.7	1017.1	1083.4	1051.0	956.8	845.3	744.1	675.8
60°	608.0	661.9	734.5	827.3	919.5	971.1	940.4	855.2	752.6	670.9	611.6
62.5°	550.0	595.3	665.2	745.8	831.2	869.5	842.1	758.0	669.3	595.5	547.3
65°	467.8	504.7	560.6	629.8	691.9	724.7	701.7	623.4	555.7	502.6	464.2
67.5°	390.9	419.9	462.1	517.6	570.4	588.1	567.1	512.7	455.3	412.8	385.8
70°	337.9	365.2	400.7	443.3	489.4	508.3	487.3	444.0	397.3	358.1	331.6
72.5°	291.5	312.7	342.6	379.1	415.2	433.9	419.7	378.1	338.6	309.5	286.9
75°	222.0	240.1	261.1	286.9	314.9	327.4	314.9	286.2	259.0	237.3	221.3
77.5°	161.4	171.2	187.3	206.6	224.1	233.7	222.9	203.4	186.8	172.0	164.1
80°	122.9	129.9	141.0	156.4	168.2	177.3	170.4	154.3	141.0	131.3	127.7
82.5°	89.4	94.1	101.4	112.8	120.8	125.4	122.3	110.7	105.2	96.6	93.1
85°	44.0	46.8	51.7	55.1	62.1	62.8	63.5	58.7	53.7	51.7	48.9
87.5°	15.7	16.9	18.7	20.6	22.8	24.6	24.0	24.4	22.6	21.8	19.8
90°	3.0	6.1	7.1	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2
92.5°	16.8	26.3	38.5	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0
95°	36.3	46.4	59.5	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0
97.5°	59.7	68.4	80.5	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8
100°	76.6	83.7	95.7	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9
102.5°	94.3	100.6	111.9	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2
105°	121.0	126.0	138.1	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1
107.5°	147.8	152.8	165.7	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0
110°	166.3	171.4	183.5	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	190.0	201.3	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8
115°	210.7	217.7	227.8	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8
117.5°	237.1	243.4	254.5	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8
120°	254.1	261.2	272.2	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5
122.5°	270.1	277.2	287.5	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9
125°	293.4	299.4	310.5	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3
127.5°	311.3	318.6	331.2	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1
130°	322.7	330.6	345.8	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1
132.5°	332.2	342.7	357.1	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1
135°	347.8	357.9	375.1	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7
137.5°	362.3	373.4	389.7	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6
140°	372.0	383.1	400.2	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4
142.5°	383.3	393.5	409.9	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1
145°	399.2	409.3	423.4	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2
147.5°	415.2	424.0	438.6	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1
150°	426.5	434.5	446.7	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1
152.5°	436.2	444.2	455.4	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2
155°	451.6	457.7	467.8	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9
157.5°	464.9	470.6	478.5	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5
160°	473.8	477.9	484.9	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6
162.5°	481.1	484.3	490.6	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7
165°	491.0	493.0	498.1	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5
167.5°	499.1	500.1	503.9	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6
170°	503.1	504.1	507.2	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3
172.5°	507.2	507.3	509.5	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9
175°	511.1	511.1	512.1	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2
177.5°	513.1	512.3	513.1	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1776.4	1777.5	1782.4	1786.4	1787.5	1793.1	1793.6
5°	1932.4	1944.3	1967.3	1969.4	1972.9	1991.0	1977.1
7.5°	2115.4	2145.5	2165.6	2183.3	2189.8	2197.7	2196.1
10°	2232.6	2277.2	2299.7	2335.2	2336.6	2345.7	2340.2
12.5°	2350.5	2402.4	2443.2	2449.7	2479.6	2484.2	2492.0
15°	2517.4	2572.6	2629.2	2649.4	2690.6	2700.4	2715.7
17.5°	2674.4	2730.8	2770.5	2822.8	2839.7	2862.4	2846.9
20°	2760.4	2821.9	2872.1	2913.3	2930.7	2943.3	2941.9
22.5°	2812.4	2874.3	2915.1	2946.2	2962.5	2967.9	2967.6
25°	2844.9	2880.4	2893.1	2904.9	2886.8	2880.4	2883.3
27.5°	2754.4	2745.2	2712.4	2669.4	2624.6	2589.2	2569.9
30°	2629.9	2575.4	2525.8	2439.2	2394.6	2368.0	2344.3
32.5°	2453.4	2367.0	2271.7	2192.4	2141.6	2102.2	2096.4
35°	2150.9	2021.0	1904.5	1807.5	1757.2	1714.5	1704.9
37.5°	1828.7	1693.7	1588.8	1503.4	1449.4	1419.3	1391.2
40°	1614.8	1498.8	1395.5	1322.9	1281.7	1260.1	1242.6
42.5°	1450.0	1344.1	1241.4	1186.1	1148.8	1135.6	1125.4
45°	1222.4	1124.0	1052.8	1010.9	989.3	966.9	956.4
47.5°	1040.2	960.1	913.1	877.6	854.3	841.1	834.4
50°	936.9	871.2	829.4	802.1	781.2	770.7	765.2
52.5°	845.3	791.4	756.2	734.6	720.3	712.7	710.4
55°	728.1	686.9	664.6	645.8	635.3	628.3	625.5
57.5°	632.9	601.3	583.1	567.5	563.5	557.6	555.7
60°	570.4	545.9	530.6	520.1	516.6	509.7	511.0
62.5°	515.0	495.1	482.0	475.9	471.4	465.5	467.5
65°	435.7	421.0	413.9	408.4	402.8	399.3	402.1
67.5°	365.6	355.5	346.0	342.7	340.0	339.4	336.5
70°	319.7	311.3	303.0	300.9	300.9	298.1	297.4
72.5°	275.6	269.4	263.9	262.4	260.1	261.3	258.3
75°	212.9	208.0	205.9	203.9	203.2	203.2	201.1
77.5°	157.3	153.7	150.4	150.4	147.8	146.9	146.6
80°	119.4	118.0	115.2	115.2	113.8	114.5	113.1
82.5°	89.8	87.9	87.3	86.1	84.2	84.3	82.9
85°	48.2	46.0	45.3	43.3	41.9	43.3	41.9
87.5°	20.6	20.2	19.7	18.8	18.4	18.2	16.6
90°	19.2	20.2	20.2	21.2	22.2	21.2	21.2
92.5°	149.1	118.6	98.4	86.5	81.1	77.7	77.7
95°	590.8	455.7	357.9	308.5	277.2	259.1	246.0
97.5°	1045.6	947.1	841.8	769.4	708.7	678.5	657.5
100°	1236.0	1186.6	1112.0	1024.3	962.8	932.5	924.5
102.5°	1310.2	1324.5	1293.4	1239.6	1195.1	1163.3	1156.8
105°	1303.5	1403.3	1444.7	1446.7	1438.7	1424.5	1418.5
107.5°	1199.7	1340.3	1430.2	1480.0	1503.0	1513.1	1515.7
110°	1119.0	1265.3	1376.1	1447.7	1490.1	1508.2	1517.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1048.0	1186.2	1297.1	1378.4	1429.6	1455.0	1469.7
115°	966.8	1084.8	1181.5	1261.2	1321.7	1353.9	1362.0
117.5°	920.5	1013.2	1095.3	1163.3	1214.1	1246.7	1252.9
120°	900.3	981.0	1052.5	1109.9	1154.4	1180.5	1191.6
122.5°	887.4	960.8	1023.5	1072.1	1109.9	1132.2	1143.3
125°	867.0	936.5	992.0	1032.4	1061.6	1080.8	1086.8
127.5°	843.0	912.4	965.0	1005.5	1031.6	1047.6	1053.7
130°	823.6	892.2	945.6	986.9	1012.2	1028.3	1034.4
132.5°	801.9	868.8	922.3	962.8	991.2	1006.5	1012.6
135°	769.2	830.7	881.1	921.5	949.7	965.8	971.9
137.5°	738.0	789.8	835.4	873.0	900.9	914.2	921.5
140°	717.8	763.2	805.5	840.8	863.0	877.1	885.1
142.5°	700.8	739.8	776.5	807.7	828.3	840.8	846.5
145°	677.5	707.7	736.0	761.1	778.3	788.4	793.5
147.5°	657.3	681.6	703.7	722.3	737.0	744.7	746.4
150°	645.2	665.4	683.6	699.6	712.8	718.8	719.8
152.5°	633.1	651.7	666.6	680.3	690.9	694.6	695.6
155°	616.0	631.1	643.2	653.3	661.4	664.4	664.4
157.5°	599.1	611.8	621.5	629.0	635.1	636.9	636.9
160°	587.7	598.8	606.9	613.0	619.0	620.1	620.1
162.5°	577.2	585.9	593.2	597.6	603.7	604.7	603.9
165°	561.6	568.6	573.6	577.6	581.7	580.7	579.7
167.5°	548.3	553.9	556.9	559.0	561.6	561.4	560.6
170°	539.4	543.4	546.4	548.5	549.5	548.5	548.5
172.5°	532.1	534.5	536.7	538.0	539.0	538.0	536.3
175°	522.2	524.2	524.2	524.2	526.2	524.2	522.2
177.5°	516.3	516.3	517.2	516.3	517.2	515.5	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1

(END OF REPORT)