

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: P331440-840

Luminaire Tested: **SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331440-840
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-C1005D725U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

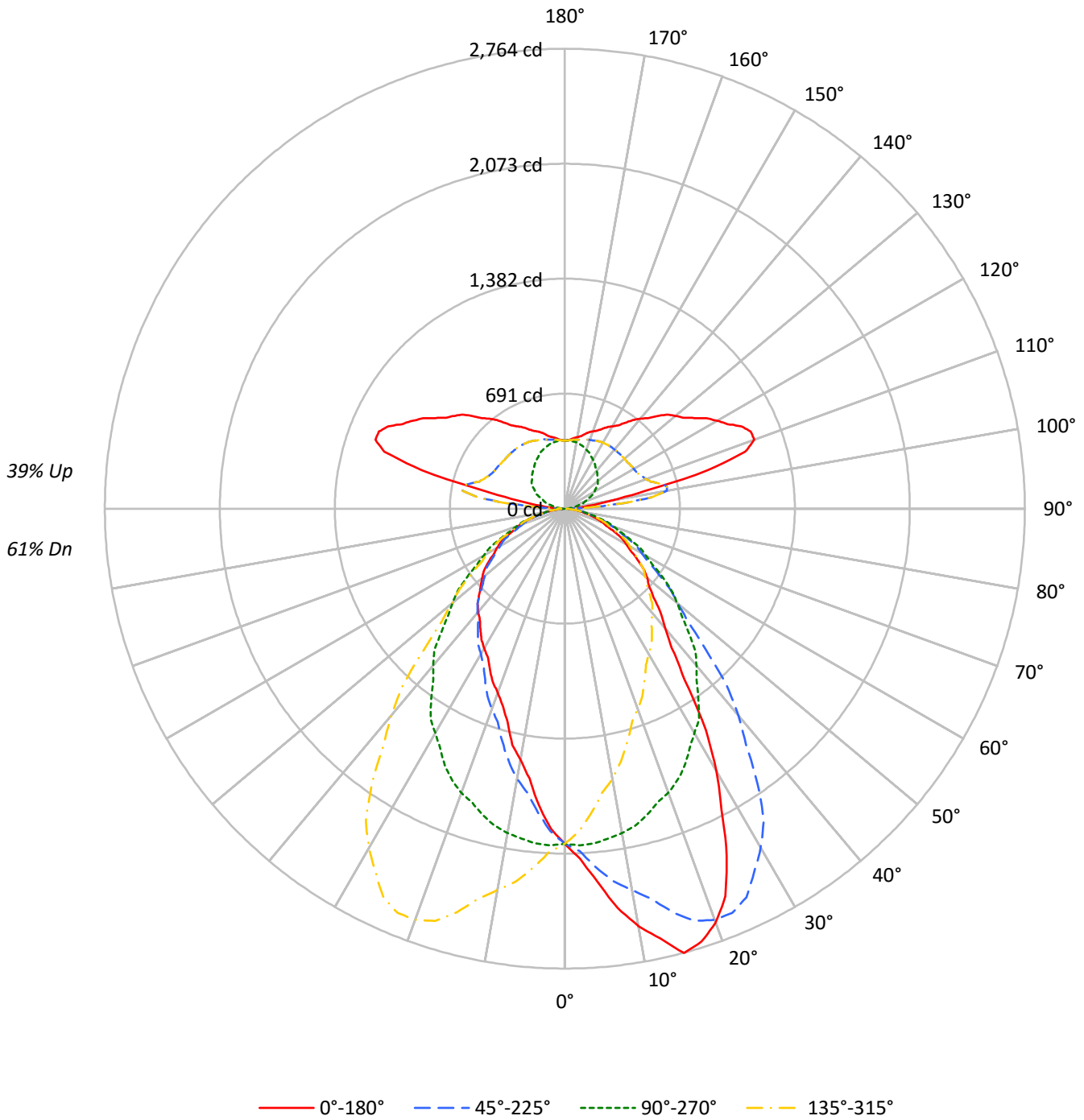
Lumens per Lamp: N/A
Luminaire Lumens: 7302.8 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60.7
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	93	90	94	91	87	84	79	77	75	69	67	66	59	58	57	57	57	57	52	
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	49	49	49	45	
3	85	75	68	62	79	71	65	59	62	58	54	55	51	48	47	45	42	42	42	42	39	
4	78	67	59	53	73	63	56	51	56	50	46	49	45	42	43	40	37	37	37	37	34	
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	33	33	33	30	
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	36	32	29	29	29	29	26	
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	26	26	26	24	
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	24	24	24	21	
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	21	21	21	19	
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	20	20	20	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32513	32513	32513	32513
5°	36451	32725	29000	32725
10°	41769	32455	25097	32455
15°	46208	31861	22173	31861
20°	45505	31223	20213	31223
25°	41031	30375	18971	30375
30°	33907	29015	18066	29015
35°	24711	27595	17420	27595
40°	19736	25918	17062	25918
45°	17249	23980	16575	23980
50°	16211	22102	16252	22102
55°	14945	20194	15817	20194
60°	13695	18167	15145	18167
65°	12478	16351	14487	16351
70°	11325	14578	13520	14578
75°	10044	12601	11977	12601
80°	8638	10432	9642	10432
85°	7744	7744	5743	7744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.6
10°-20°	557.5	7.6
20°-30°	809.1	11.1
30°-40°	853.9	11.7
40°-50°	756.0	10.4
50°-60°	603.3	8.3
60°-70°	410.1	5.6
70°-80°	210.2	2.9
80°-90°	54.4	0.7
90°-100°	164.1	2.2
100°-110°	557.0	7.6
110°-120°	591.7	8.1
120°-130°	487.1	6.7
130°-140°	391.2	5.4
140°-150°	295.6	4.0
150°-160°	207.7	2.8
160°-170°	122.3	1.7
170°-180°	39.8	0.5
0°-30°	1558.5	21.3
0°-40°	2412.3	33.0
0°-60°	3771.7	51.6
0°-90°	4446.4	60.9
90°-120°	1312.8	18.0
90°-150°	2486.7	34.1
90°-180°	2856.0	39.1
0°-180°	7302.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2014	2014	2014	2014	2014	
5°	2249	2019	1789	2019	2249	225
15°	2764	1906	1326	1906	2764	763
25°	2303	1705	1065	1705	2303	1041
35°	1254	1400	884	1400	1254	815
45°	755	1050	726	1050	755	594
55°	531	717	562	717	531	476
65°	327	428	379	428	327	325
75°	161	202	192	202	161	172
85°	42	42	31	42	42	46
90°	26	1	26	1	26	16
95°	90	28	90	28	90	117
105°	890	96	890	96	890	861
115°	1171	170	1171	170	1171	1146
125°	950	237	950	237	950	858
135°	787	278	787	278	787	611
145°	628	317	628	317	628	399
155°	528	361	528	361	528	246
165°	463	393	463	393	463	132
175°	418	410	418	410	418	41
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2106.6	2107.2	2108.4	2098.5	2097.3	2097.3	2088.6	2081.2	2072.5	2060.7	2062.0
5°	2249.0	2257.5	2260.6	2251.3	2237.4	2235.8	2222.7	2201.0	2180.9	2164.6	2153.0
7.5°	2418.9	2422.4	2414.8	2402.6	2392.2	2373.6	2349.1	2325.1	2291.6	2260.8	2237.9
10°	2547.7	2552.3	2539.2	2521.4	2506.7	2485.1	2449.4	2413.1	2368.9	2326.4	2292.3
12.5°	2645.5	2657.0	2640.1	2637.8	2612.6	2582.8	2540.4	2522.0	2459.9	2400.7	2364.2
15°	2764.4	2763.6	2765.2	2750.5	2731.9	2727.2	2682.4	2633.6	2546.2	2511.3	2450.9
17.5°	2730.1	2741.8	2747.2	2747.0	2746.6	2743.7	2729.3	2698.5	2654.6	2598.2	2528.5
20°	2648.4	2663.8	2666.1	2683.9	2694.0	2707.1	2712.6	2704.0	2677.0	2629.8	2569.4
22.5°	2522.0	2526.4	2533.7	2561.3	2583.1	2616.2	2633.3	2661.9	2651.6	2628.5	2578.1
25°	2303.2	2295.4	2322.5	2336.4	2386.7	2439.3	2477.3	2519.1	2556.3	2578.7	2563.9
27.5°	2040.3	2028.7	2069.3	2106.3	2147.2	2204.1	2263.2	2333.0	2391.1	2463.7	2488.6
30°	1818.7	1825.6	1864.3	1903.8	1965.7	2046.2	2112.7	2189.4	2272.2	2353.5	2409.9
32.5°	1579.7	1606.5	1630.9	1691.4	1746.0	1835.7	1933.2	2029.0	2132.3	2224.7	2312.2
35°	1253.7	1284.6	1318.8	1362.8	1439.5	1528.4	1623.7	1752.9	1893.8	2019.9	2123.6
37.5°	1055.3	1050.4	1069.9	1101.8	1163.8	1235.7	1345.2	1472.9	1638.7	1787.0	1933.2
40°	936.4	933.3	947.3	976.6	1023.9	1076.5	1172.5	1284.6	1438.7	1619.8	1793.9
42.5°	854.7	856.6	864.3	885.0	917.4	960.7	1032.6	1128.0	1269.1	1439.7	1626.8
45°	755.4	760.7	769.3	779.3	797.9	833.5	873.7	941.9	1053.3	1195.7	1379.9
47.5°	683.8	684.0	692.7	701.5	712.5	732.6	765.4	808.1	886.8	1002.7	1161.0
50°	645.4	640.1	646.2	653.2	664.8	678.7	700.3	740.6	793.2	886.9	1019.3
52.5°	598.3	598.5	604.1	606.7	617.1	631.1	650.9	678.7	726.4	799.6	908.4
55°	530.9	534.7	537.9	542.5	551.8	561.9	577.3	595.9	633.1	688.0	768.5
57.5°	467.5	468.7	471.8	480.6	486.5	495.7	510.5	527.4	551.5	592.2	652.7
60°	424.1	424.1	430.3	434.1	441.9	451.2	462.8	479.1	500.7	534.0	582.8
62.5°	384.5	383.8	386.4	392.6	398.6	407.3	418.8	432.6	453.0	482.6	522.7
65°	326.6	325.1	329.7	331.2	337.4	346.0	355.3	369.9	386.2	407.9	443.4
67.5°	270.8	272.8	275.2	278.1	281.6	290.5	296.7	307.1	320.8	338.8	362.9
70°	239.9	239.9	239.9	242.3	246.9	251.6	257.7	266.2	279.4	294.9	316.5
72.5°	205.2	207.7	210.2	208.8	214.7	217.4	224.9	229.7	242.3	252.2	271.4
75°	161.0	161.0	161.0	164.8	167.1	169.5	174.1	178.7	185.0	197.3	207.4
77.5°	120.1	119.8	120.6	121.5	124.0	126.7	128.2	132.3	138.0	143.8	152.3
80°	92.9	94.4	95.2	96.7	96.7	98.3	99.1	104.5	108.4	112.2	117.6
82.5°	71.8	72.1	72.3	72.6	73.2	74.1	76.1	77.9	79.3	82.5	86.6
85°	41.8	41.0	41.0	42.5	41.8	41.8	43.3	44.8	44.8	45.6	48.0
87.5°	21.3	21.3	21.9	21.3	21.3	21.8	21.4	21.1	21.9	22.7	23.1
90°	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2	26.1	26.9	26.1
92.5°	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9	86.6	102.6	101.2
95°	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8	270.7	309.4	274.0
97.5°	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6	554.2	528.3	397.9
100°	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7	737.3	623.6	429.4
102.5°	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8	805.5	626.8	417.5
105°	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2	795.0	584.9	393.9
107.5°	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8	725.6	540.1	382.2
110°	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6	682.1	518.7	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9	651.8	504.7	380.3
115°	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4	614.2	489.5	383.6
117.5°	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1	590.5	482.0	389.3
120°	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6	577.8	477.6	393.1
122.5°	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7	567.1	475.0	397.6
125°	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8	551.8	470.5	404.1
127.5°	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4	537.6	467.8	411.0
130°	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5	528.2	466.6	416.1
132.5°	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4	520.6	466.0	421.1
135°	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3	510.0	464.9	427.1
137.5°	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4	502.5	464.8	432.4
140°	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6	498.2	464.1	434.9
142.5°	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8	493.7	464.1	436.9
145°	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3	487.9	462.6	438.9
147.5°	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7	481.9	459.8	439.6
150°	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7	476.8	457.9	438.9
152.5°	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8	472.4	454.7	437.7
155°	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2	464.1	449.2	435.8
157.5°	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0	456.5	443.5	432.1
160°	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0	450.8	439.7	430.2
162.5°	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0	445.7	436.6	428.4
165°	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6	437.4	430.2	424.7
167.5°	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7	429.1	424.7	421.1
170°	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7	424.7	421.5	419.2
172.5°	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9	420.3	417.8	416.7
175°	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8	414.4	413.6	412.8
177.5°	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4	411.1	410.5	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2066.4	2061.4	2058.3	2047.2	2037.2	2027.3	2024.3	2025.5	2011.9	1998.8	1993.3
5°	2146.9	2131.3	2116.7	2095.8	2071.0	2043.9	2029.9	2019.1	1992.1	1962.7	1945.6
7.5°	2219.0	2196.9	2168.5	2129.2	2093.1	2050.5	2023.5	1999.4	1959.8	1918.3	1893.0
10°	2262.9	2232.7	2196.4	2148.4	2104.3	2052.4	2016.0	1979.6	1933.2	1883.7	1852.7
12.5°	2300.7	2260.0	2224.2	2162.6	2110.4	2045.6	2002.5	1951.2	1902.3	1843.4	1813.1
15°	2390.7	2315.5	2247.5	2177.8	2113.5	2023.0	1975.0	1906.1	1841.9	1769.2	1734.3
17.5°	2460.1	2375.7	2268.5	2180.0	2105.1	2004.8	1934.3	1851.8	1775.8	1692.7	1645.4
20°	2499.7	2403.0	2287.6	2182.4	2092.6	1978.1	1901.5	1817.2	1728.2	1634.5	1583.5
22.5°	2523.2	2421.6	2307.5	2173.1	2067.9	1956.4	1860.0	1767.6	1677.4	1576.3	1522.8
25°	2530.7	2437.8	2317.1	2165.5	2036.9	1910.8	1794.7	1705.0	1595.8	1501.4	1423.2
27.5°	2493.9	2427.3	2311.2	2150.8	2001.1	1853.7	1724.2	1622.6	1507.4	1404.9	1326.4
30°	2448.6	2409.9	2296.9	2136.0	1972.7	1814.0	1671.6	1556.3	1441.8	1338.1	1257.6
32.5°	2378.7	2370.4	2271.0	2115.0	1942.4	1763.9	1616.6	1500.0	1373.1	1271.2	1194.5
35°	2241.3	2278.4	2215.7	2067.9	1885.2	1692.5	1533.1	1400.0	1268.5	1170.9	1098.9
37.5°	2057.1	2149.3	2132.9	1999.0	1808.2	1614.9	1438.9	1299.7	1174.4	1075.9	1005.3
40°	1930.2	2047.8	2064.8	1946.4	1753.7	1554.8	1368.3	1229.7	1107.4	1017.7	946.4
42.5°	1793.9	1931.4	1978.1	1883.2	1694.3	1491.7	1305.1	1161.6	1040.6	953.3	890.2
45°	1565.6	1747.5	1831.9	1777.7	1595.1	1387.7	1195.7	1050.2	940.3	858.3	809.5
47.5°	1352.2	1551.0	1664.4	1645.2	1484.7	1279.3	1089.5	949.9	842.9	777.5	733.9
50°	1201.1	1405.4	1542.4	1548.6	1405.4	1201.8	1011.5	879.9	781.6	720.5	684.9
52.5°	1069.9	1264.9	1414.2	1447.0	1316.9	1121.4	941.5	810.6	724.1	667.9	636.0
55°	898.5	1063.4	1229.0	1289.3	1184.9	999.2	832.7	717.4	636.1	597.4	569.6
57.5°	747.0	884.4	1037.3	1104.1	1039.7	880.7	724.7	624.5	558.7	524.7	503.3
60°	667.1	775.5	911.7	991.4	935.6	794.1	657.8	562.6	508.5	478.3	458.2
62.5°	592.8	688.8	804.0	876.9	846.5	713.0	591.0	507.0	460.2	431.8	417.3
65°	489.1	564.9	654.0	721.2	701.1	599.8	500.0	428.0	390.8	368.4	356.8
67.5°	402.7	457.6	519.3	578.2	562.0	490.2	410.0	354.0	326.3	306.9	299.9
70°	348.3	390.0	445.0	492.2	479.1	420.2	356.8	308.8	284.8	268.5	261.6
72.5°	296.3	330.6	372.5	411.1	402.2	353.4	300.4	264.2	245.8	230.8	225.1
75°	223.7	249.9	275.5	301.0	298.7	260.8	229.8	202.0	187.3	175.7	173.4
77.5°	165.1	179.9	197.2	212.4	208.1	186.5	162.2	146.2	135.4	127.6	126.4
80°	126.1	134.6	147.0	157.8	152.5	143.2	123.8	112.2	104.5	96.7	93.6
82.5°	91.5	100.0	107.4	113.3	109.2	100.5	88.6	80.7	76.0	70.7	69.5
85°	48.0	52.6	55.7	57.3	55.7	50.3	44.8	41.8	38.0	35.6	34.8
87.5°	22.8	21.7	20.9	21.7	19.5	19.2	16.2	13.7	13.6	13.6	12.7
90°	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8	3.1	6.4	7.9
92.5°	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6	13.9	19.6	23.0
95°	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7	30.8	38.7	45.7
97.5°	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0	49.3	57.7	68.4
100°	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8	63.1	70.3	82.9
102.5°	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3	77.1	84.1	96.7
105°	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3	99.5	105.0	116.8
107.5°	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1	121.6	126.9	137.8
110°	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2	137.3	142.1	152.4



TEST NUMBER: P331440-840

CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0	151.3	156.6	166.2
115°	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8	173.7	178.4	187.8
117.5°	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2	195.3	200.1	208.4
120°	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0	209.2	213.9	221.1
122.5°	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3	221.9	226.5	234.3
125°	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8	239.2	243.9	253.4
127.5°	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7	253.9	260.5	270.9
130°	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9	262.1	269.9	281.0
132.5°	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5	270.3	278.8	290.5
135°	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9	281.0	290.5	302.4
137.5°	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6	292.4	301.8	314.5
140°	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8	299.9	309.4	322.0
142.5°	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0	307.6	316.4	329.0
145°	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3	320.5	328.4	340.2
147.5°	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6	333.0	340.5	351.4
150°	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4	341.8	348.1	358.4
152.5°	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3	349.4	355.7	364.7
155°	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7	361.5	366.3	375.0
157.5°	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2	371.9	375.8	383.3
160°	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1	378.9	382.0	388.4
162.5°	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1	384.6	387.8	392.8
165°	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1	392.3	393.9	398.7
167.5°	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8	398.8	400.2	403.2
170°	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1	402.6	403.3	405.8
172.5°	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7	405.8	405.3	407.7
175°	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7	408.9	408.1	409.7
177.5°	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1	409.9	409.2	410.5
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331440-840
 CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1987.1	1983.4	1970.3	1963.6	1952.5	1941.9	1935.1	1938.2	1940.7	1939.4	1937.5
5°	1930.2	1915.4	1893.0	1873.6	1859.7	1834.2	1823.3	1818.0	1813.3	1807.9	1802.4
7.5°	1862.3	1839.2	1807.0	1779.4	1753.3	1721.6	1703.5	1692.7	1681.5	1669.3	1658.5
10°	1814.0	1781.5	1747.5	1708.8	1677.9	1649.2	1623.7	1606.6	1591.1	1576.5	1565.6
12.5°	1763.3	1725.9	1683.7	1630.8	1596.7	1555.7	1551.9	1521.9	1497.6	1488.5	1475.8
15°	1682.4	1629.8	1576.5	1513.8	1486.7	1449.6	1426.3	1403.1	1382.2	1367.5	1363.6
17.5°	1590.7	1522.6	1469.5	1424.4	1380.1	1342.0	1320.6	1302.0	1284.9	1265.2	1262.5
20°	1520.8	1461.9	1403.9	1364.4	1318.8	1280.0	1253.7	1235.2	1220.4	1208.8	1198.8
22.5°	1454.5	1390.1	1337.0	1293.8	1248.8	1217.5	1196.8	1178.8	1166.6	1153.8	1144.3
25°	1348.2	1297.9	1239.8	1191.0	1153.9	1133.8	1116.7	1101.3	1093.6	1085.0	1074.2
27.5°	1255.2	1199.2	1144.9	1107.1	1074.5	1056.7	1044.6	1034.1	1026.8	1021.9	1015.7
30°	1189.5	1133.0	1090.5	1053.3	1026.2	1008.5	1000.7	994.5	985.9	982.9	979.8
32.5°	1126.3	1075.4	1039.1	1006.8	981.0	969.4	962.3	956.7	950.1	947.0	940.8
35°	1037.0	994.5	958.9	941.1	920.2	910.1	904.7	897.0	890.8	887.7	886.9
37.5°	953.0	916.0	892.6	869.7	860.9	854.7	847.3	842.0	840.2	839.7	838.9
40°	898.5	868.3	847.5	828.9	825.0	815.7	809.5	804.9	804.9	805.7	804.9
42.5°	849.0	821.9	803.4	787.4	782.8	777.3	771.1	770.8	772.0	774.7	772.0
45°	774.0	754.6	741.4	733.7	725.2	719.7	718.9	721.2	722.1	722.9	725.2
47.5°	704.9	692.1	680.1	671.6	667.9	666.9	666.0	670.0	673.8	675.2	678.7
50°	664.0	649.3	639.2	633.8	630.8	629.1	630.8	635.4	638.4	642.4	644.7
52.5°	618.2	607.8	600.9	596.7	595.4	596.4	596.7	602.0	606.9	608.3	609.4
55°	554.9	547.1	545.6	538.7	541.7	541.0	544.8	548.0	552.6	557.2	558.0
57.5°	491.7	485.5	481.4	482.0	482.9	486.4	489.6	495.0	500.0	504.9	505.3
60°	449.7	446.6	444.2	444.2	445.8	450.4	454.2	459.7	462.8	465.9	468.2
62.5°	411.2	408.2	405.9	407.1	411.1	413.8	418.4	421.3	424.4	427.5	428.6
65°	350.6	349.0	351.3	352.9	353.7	357.6	362.9	365.3	368.4	369.9	375.4
67.5°	294.7	295.0	294.7	296.9	301.3	302.3	307.4	312.9	313.5	316.4	319.9
70°	256.9	258.5	260.0	261.6	265.5	267.0	270.8	273.2	276.3	278.6	280.9
72.5°	222.3	222.6	224.1	223.8	227.0	230.5	233.7	236.0	239.1	242.1	244.4
75°	171.1	171.1	172.6	173.4	177.2	181.1	180.4	181.9	185.0	188.0	189.7
77.5°	124.9	123.2	124.9	125.7	126.9	130.2	130.8	133.0	136.5	135.4	137.1
80°	95.2	92.9	95.2	95.9	95.9	99.9	99.9	101.4	103.7	101.4	103.7
82.5°	68.0	66.9	68.6	68.8	70.0	70.1	71.4	71.7	74.0	72.9	74.0
85°	34.0	33.3	34.0	33.3	34.0	34.8	34.8	34.0	34.0	35.6	33.3
87.5°	12.4	12.3	12.4	13.5	13.8	13.4	12.6	12.5	12.1	11.2	11.4
90°	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2	23.7	25.2	26.1
92.5°	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9	59.1	52.4	47.6
95°	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8	158.6	125.5	108.2
97.5°	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6	394.9	309.4	252.5
100°	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7	622.9	514.7	419.2
102.5°	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8	854.6	775.5	674.3
105°	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2	1048.3	1058.6	1032.6
107.5°	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8	1034.1	1116.2	1154.5
110°	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6	990.0	1091.0	1155.7



TEST NUMBER: P331440-840

CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9	937.5	1045.5	1119.7
115°	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4	866.0	969.4	1050.7
117.5°	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1	807.9	901.7	978.0
120°	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6	777.6	861.2	933.1
122.5°	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7	752.3	831.5	896.5
125°	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8	719.1	788.6	847.8
127.5°	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4	686.9	752.5	807.1
130°	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5	665.5	727.8	779.9
132.5°	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4	645.3	702.6	751.5
135°	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3	613.4	665.5	709.6
137.5°	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4	587.9	629.3	667.8
140°	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6	571.6	607.8	642.6
142.5°	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8	557.0	588.2	617.3
145°	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3	538.4	562.9	585.7
147.5°	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7	523.2	542.3	559.1
150°	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7	513.1	529.7	543.9
152.5°	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8	504.9	519.0	531.3
155°	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2	491.8	503.6	512.3
157.5°	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0	478.6	488.5	495.2
160°	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0	469.7	478.4	483.9
162.5°	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0	461.5	468.9	473.2
165°	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6	449.2	454.7	457.9
167.5°	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7	438.0	441.7	444.6
170°	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7	431.0	434.1	435.8
172.5°	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9	424.7	427.3	428.2
175°	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8	417.6	418.4	419.2
177.5°	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4	412.4	413.0	413.0
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331440-840
 CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1931.4	1930.2	1930.2	1924.6	1930.2	1930.2	1931.4	1937.5	1939.4	1940.7	1938.2
5°	1791.6	1789.3	1785.4	1789.3	1785.4	1789.3	1791.6	1802.4	1807.9	1813.3	1818.0
7.5°	1653.4	1644.1	1642.7	1633.6	1642.7	1644.1	1653.4	1658.5	1669.3	1681.5	1692.7
10°	1552.5	1546.3	1545.5	1530.8	1545.5	1546.3	1552.5	1565.6	1576.5	1591.1	1606.6
12.5°	1475.7	1460.9	1463.8	1455.2	1463.8	1460.9	1475.7	1475.8	1488.5	1497.6	1521.9
15°	1342.7	1342.7	1339.7	1326.5	1339.7	1342.7	1342.7	1363.6	1367.5	1382.2	1403.1
17.5°	1247.3	1245.7	1238.3	1241.9	1238.3	1245.7	1247.3	1262.5	1265.2	1284.9	1302.0
20°	1190.2	1185.7	1176.4	1176.4	1176.4	1185.7	1190.2	1198.8	1208.8	1220.4	1235.2
22.5°	1136.4	1136.1	1126.2	1129.3	1126.2	1136.1	1136.4	1144.3	1153.8	1166.6	1178.8
25°	1073.4	1067.2	1062.6	1064.9	1062.6	1067.2	1073.4	1074.2	1085.0	1093.6	1101.3
27.5°	1013.7	1010.3	1010.0	1003.6	1010.0	1010.3	1013.7	1015.7	1021.9	1026.8	1034.1
30°	979.0	971.3	972.8	969.0	972.8	971.3	979.0	979.8	982.9	985.9	994.5
32.5°	939.4	936.5	935.0	931.8	935.0	936.5	939.4	940.8	947.0	950.1	956.7
35°	885.3	886.2	882.2	883.8	882.2	886.2	885.3	886.9	887.7	890.8	897.0
37.5°	838.2	840.6	838.8	839.2	838.8	840.6	838.2	838.9	839.7	840.2	842.0
40°	807.2	807.2	807.2	809.5	807.2	807.2	807.2	804.9	805.7	804.9	804.9
42.5°	777.5	776.3	775.0	774.9	775.0	776.3	777.5	772.0	774.7	772.0	770.8
45°	726.7	729.0	729.8	725.9	729.8	729.0	726.7	725.2	722.9	722.1	721.2
47.5°	680.8	681.1	680.8	684.2	680.8	681.1	680.8	678.7	675.2	673.8	670.0
50°	648.5	647.0	648.5	647.0	648.5	647.0	648.5	644.7	642.4	638.4	635.4
52.5°	614.5	614.8	613.9	613.6	613.9	614.8	614.5	609.4	608.3	606.9	602.0
55°	561.1	562.6	561.9	561.9	561.9	562.6	561.1	558.0	557.2	552.6	548.0
57.5°	505.8	507.3	508.3	504.9	508.3	507.3	505.8	505.3	504.9	500.0	495.0
60°	467.5	471.3	470.5	469.0	470.5	471.3	467.5	468.2	465.9	462.8	459.7
62.5°	432.1	433.5	433.4	433.1	433.4	433.5	432.1	428.6	427.5	424.4	421.3
65°	377.7	379.2	376.9	379.2	376.9	379.2	377.7	375.4	369.9	368.4	365.3
67.5°	319.0	319.5	321.1	322.2	321.1	319.5	319.0	319.9	316.4	313.5	312.9
70°	282.5	281.8	284.1	286.4	284.1	281.8	282.5	280.9	278.6	276.3	273.2
72.5°	244.1	245.8	245.0	246.7	245.0	245.8	244.1	244.4	242.1	239.1	236.0
75°	188.0	190.4	189.7	192.0	189.7	190.4	188.0	189.7	188.0	185.0	181.9
77.5°	135.9	136.2	135.9	137.1	135.9	136.2	135.9	137.1	135.4	136.5	133.0
80°	103.7	102.2	100.6	103.7	100.6	102.2	103.7	103.7	101.4	103.7	101.4
82.5°	72.1	73.0	71.5	71.5	71.5	73.0	72.1	74.0	72.9	74.0	71.7
85°	33.3	32.5	31.0	31.0	31.0	32.5	33.3	33.3	35.6	34.0	34.0
87.5°	11.4	10.8	10.8	10.2	10.8	10.8	11.4	11.4	11.2	12.1	12.5
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2
92.5°	46.9	44.3	45.0	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9
95°	97.9	91.6	89.2	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8
97.5°	214.7	195.3	183.8	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6
100°	353.7	319.7	296.8	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7
102.5°	603.1	545.1	516.5	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8
105°	983.6	934.6	900.7	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2
107.5°	1160.6	1157.9	1151.1	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8
110°	1189.6	1204.7	1211.7	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6



TEST NUMBER: P331440-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1166.9	1192.0	1205.5	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9
115°	1106.7	1143.1	1163.6	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4
117.5°	1035.1	1073.5	1095.1	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1
120°	988.4	1025.4	1048.3	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6
122.5°	946.0	982.5	1002.9	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7
125°	893.6	923.6	943.3	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8
127.5°	847.1	875.1	892.2	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4
130°	818.6	845.5	861.2	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5
132.5°	789.6	816.4	830.9	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4
135°	743.7	769.7	783.9	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3
137.5°	698.8	721.2	733.7	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4
140°	667.8	688.3	700.2	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6
142.5°	641.4	659.9	670.6	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8
145°	604.7	618.1	626.0	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3
147.5°	574.7	585.4	590.8	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7
150°	555.7	565.2	570.0	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7
152.5°	540.6	548.8	552.3	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8
155°	521.0	526.5	529.7	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2
157.5°	501.4	506.0	507.5	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0
160°	489.5	493.4	494.1	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0
162.5°	478.7	481.4	482.2	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0
165°	461.0	464.1	464.1	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6
167.5°	446.1	447.8	447.6	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7
170°	436.6	438.9	438.1	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7
172.5°	429.0	430.1	429.3	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9
175°	419.2	420.0	419.2	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8
177.5°	413.0	413.0	412.4	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331440-840

CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1935.1	1941.9	1952.5	1963.6	1970.3	1983.4	1987.1	1993.3	1998.8	2011.9	2025.5
5°	1823.3	1834.2	1859.7	1873.6	1893.0	1915.4	1930.2	1945.6	1962.7	1992.1	2019.1
7.5°	1703.5	1721.6	1753.3	1779.4	1807.0	1839.2	1862.3	1893.0	1918.3	1959.8	1999.4
10°	1623.7	1649.2	1677.9	1708.8	1747.5	1781.5	1814.0	1852.7	1883.7	1933.2	1979.6
12.5°	1551.9	1555.7	1596.7	1630.8	1683.7	1725.9	1763.3	1813.1	1843.4	1902.3	1951.2
15°	1426.3	1449.6	1486.7	1513.8	1576.5	1629.8	1682.4	1734.3	1769.2	1841.9	1906.1
17.5°	1320.6	1342.0	1380.1	1424.4	1469.5	1522.6	1590.7	1645.4	1692.7	1775.8	1851.8
20°	1253.7	1280.0	1318.8	1364.4	1403.9	1461.9	1520.8	1583.5	1634.5	1728.2	1817.2
22.5°	1196.8	1217.5	1248.8	1293.8	1337.0	1390.1	1454.5	1522.8	1576.3	1677.4	1767.6
25°	1116.7	1133.8	1153.9	1191.0	1239.8	1297.9	1348.2	1423.2	1501.4	1595.8	1705.0
27.5°	1044.6	1056.7	1074.5	1107.1	1144.9	1199.2	1255.2	1326.4	1404.9	1507.4	1622.6
30°	1000.7	1008.5	1026.2	1053.3	1090.5	1133.0	1189.5	1257.6	1338.1	1441.8	1556.3
32.5°	962.3	969.4	981.0	1006.8	1039.1	1075.4	1126.3	1194.5	1271.2	1373.1	1500.0
35°	904.7	910.1	920.2	941.1	958.9	994.5	1037.0	1098.9	1170.9	1268.5	1400.0
37.5°	847.3	854.7	860.9	869.7	892.6	916.0	953.0	1005.3	1075.9	1174.4	1299.7
40°	809.5	815.7	825.0	828.9	847.5	868.3	898.5	946.4	1017.7	1107.4	1229.7
42.5°	771.1	777.3	782.8	787.4	803.4	821.9	849.0	890.2	953.3	1040.6	1161.6
45°	718.9	719.7	725.2	733.7	741.4	754.6	774.0	809.5	858.3	940.3	1050.2
47.5°	666.0	666.9	667.9	671.6	680.1	692.1	704.9	733.9	777.5	842.9	949.9
50°	630.8	629.1	630.8	633.8	639.2	649.3	664.0	684.9	720.5	781.6	879.9
52.5°	596.7	596.4	595.4	596.7	600.9	607.8	618.2	636.0	667.9	724.1	810.6
55°	544.8	541.0	541.7	538.7	545.6	547.1	554.9	569.6	597.4	636.1	717.4
57.5°	489.6	486.4	482.9	482.0	481.4	485.5	491.7	503.3	524.7	558.7	624.5
60°	454.2	450.4	445.8	444.2	444.2	446.6	449.7	458.2	478.3	508.5	562.6
62.5°	418.4	413.8	411.1	407.1	405.9	408.2	411.2	417.3	431.8	460.2	507.0
65°	362.9	357.6	353.7	352.9	351.3	349.0	350.6	356.8	368.4	390.8	428.0
67.5°	307.4	302.3	301.3	296.9	294.7	295.0	294.7	299.9	306.9	326.3	354.0
70°	270.8	267.0	265.5	261.6	260.0	258.5	256.9	261.6	268.5	284.8	308.8
72.5°	233.7	230.5	227.0	223.8	224.1	222.6	222.3	225.1	230.8	245.8	264.2
75°	180.4	181.1	177.2	173.4	172.6	171.1	171.1	173.4	175.7	187.3	202.0
77.5°	130.8	130.2	126.9	125.7	124.9	123.2	124.9	126.4	127.6	135.4	146.2
80°	99.9	99.9	95.9	95.9	95.2	92.9	95.2	93.6	96.7	104.5	112.2
82.5°	71.4	70.1	70.0	68.8	68.6	66.9	68.0	69.5	70.7	76.0	80.7
85°	34.8	34.8	34.0	33.3	34.0	33.3	34.0	34.8	35.6	38.0	41.8
87.5°	12.6	13.4	13.8	13.5	12.4	12.3	12.4	12.7	13.6	13.6	13.7
90°	26.1	26.9	26.1	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8
92.5°	86.6	102.6	101.2	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6
95°	270.7	309.4	274.0	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7
97.5°	554.2	528.3	397.9	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0
100°	737.3	623.6	429.4	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8
102.5°	805.5	626.8	417.5	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3
105°	795.0	584.9	393.9	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3
107.5°	725.6	540.1	382.2	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1
110°	682.1	518.7	379.7	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2



TEST NUMBER: P331440-840
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.8	504.7	380.3	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0
115°	614.2	489.5	383.6	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8
117.5°	590.5	482.0	389.3	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2
120°	577.8	477.6	393.1	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0
122.5°	567.1	475.0	397.6	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3
125°	551.8	470.5	404.1	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8
127.5°	537.6	467.8	411.0	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7
130°	528.2	466.6	416.1	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9
132.5°	520.6	466.0	421.1	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5
135°	510.0	464.9	427.1	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9
137.5°	502.5	464.8	432.4	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6
140°	498.2	464.1	434.9	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8
142.5°	493.7	464.1	436.9	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0
145°	487.9	462.6	438.9	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3
147.5°	481.9	459.8	439.6	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6
150°	476.8	457.9	438.9	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4
152.5°	472.4	454.7	437.7	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3
155°	464.1	449.2	435.8	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7
157.5°	456.5	443.5	432.1	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2
160°	450.8	439.7	430.2	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1
162.5°	445.7	436.6	428.4	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1
165°	437.4	430.2	424.7	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1
167.5°	429.1	424.7	421.1	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8
170°	424.7	421.5	419.2	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1
172.5°	420.3	417.8	416.7	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7
175°	414.4	413.6	412.8	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7
177.5°	411.1	410.5	411.1	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331440-840

CATALOG NUMBER: SA2XXDIP-C1005D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2024.3	2027.3	2037.2	2047.2	2058.3	2061.4	2066.4	2062.0	2060.7	2072.5	2081.2
5°	2029.9	2043.9	2071.0	2095.8	2116.7	2131.3	2146.9	2153.0	2164.6	2180.9	2201.0
7.5°	2023.5	2050.5	2093.1	2129.2	2168.5	2196.9	2219.0	2237.9	2260.8	2291.6	2325.1
10°	2016.0	2052.4	2104.3	2148.4	2196.4	2232.7	2262.9	2292.3	2326.4	2368.9	2413.1
12.5°	2002.5	2045.6	2110.4	2162.6	2224.2	2260.0	2300.7	2364.2	2400.7	2459.9	2522.0
15°	1975.0	2023.0	2113.5	2177.8	2247.5	2315.5	2390.7	2450.9	2511.3	2546.2	2633.6
17.5°	1934.3	2004.8	2105.1	2180.0	2268.5	2375.7	2460.1	2528.5	2598.2	2654.6	2698.5
20°	1901.5	1978.1	2092.6	2182.4	2287.6	2403.0	2499.7	2569.4	2629.8	2677.0	2704.0
22.5°	1860.0	1956.4	2067.9	2173.1	2307.5	2421.6	2523.2	2578.1	2628.5	2651.6	2661.9
25°	1794.7	1910.8	2036.9	2165.5	2317.1	2437.8	2530.7	2563.9	2578.7	2556.3	2519.1
27.5°	1724.2	1853.7	2001.1	2150.8	2311.2	2427.3	2493.9	2488.6	2463.7	2391.1	2333.0
30°	1671.6	1814.0	1972.7	2136.0	2296.9	2409.9	2448.6	2409.9	2353.5	2272.2	2189.4
32.5°	1616.6	1763.9	1942.4	2115.0	2271.0	2370.4	2378.7	2312.2	2224.7	2132.3	2029.0
35°	1533.1	1692.5	1885.2	2067.9	2215.7	2278.4	2241.3	2123.6	2019.9	1893.8	1752.9
37.5°	1438.9	1614.9	1808.2	1999.0	2132.9	2149.3	2057.1	1933.2	1787.0	1638.7	1472.9
40°	1368.3	1554.8	1753.7	1946.4	2064.8	2047.8	1930.2	1793.9	1619.8	1438.7	1284.6
42.5°	1305.1	1491.7	1694.3	1883.2	1978.1	1931.4	1793.9	1626.8	1439.7	1269.1	1128.0
45°	1195.7	1387.7	1595.1	1777.7	1831.9	1747.5	1565.6	1379.9	1195.7	1053.3	941.9
47.5°	1089.5	1279.3	1484.7	1645.2	1664.4	1551.0	1352.2	1161.0	1002.7	886.8	808.1
50°	1011.5	1201.8	1405.4	1548.6	1542.4	1405.4	1201.1	1019.3	886.9	793.2	740.6
52.5°	941.5	1121.4	1316.9	1447.0	1414.2	1264.9	1069.9	908.4	799.6	726.4	678.7
55°	832.7	999.2	1184.9	1289.3	1229.0	1063.4	898.5	768.5	688.0	633.1	595.9
57.5°	724.7	880.7	1039.7	1104.1	1037.3	884.4	747.0	652.7	592.2	551.5	527.4
60°	657.8	794.1	935.6	991.4	911.7	775.5	667.1	582.8	534.0	500.7	479.1
62.5°	591.0	713.0	846.5	876.9	804.0	688.8	592.8	522.7	482.6	453.0	432.6
65°	500.0	599.8	701.1	721.2	654.0	564.9	489.1	443.4	407.9	386.2	369.9
67.5°	410.0	490.2	562.0	578.2	519.3	457.6	402.7	362.9	338.8	320.8	307.1
70°	356.8	420.2	479.1	492.2	445.0	390.0	348.3	316.5	294.9	279.4	266.2
72.5°	300.4	353.4	402.2	411.1	372.5	330.6	296.3	271.4	252.2	242.3	229.7
75°	229.8	260.8	298.7	301.0	275.5	249.9	223.7	207.4	197.3	185.0	178.7
77.5°	162.2	186.5	208.1	212.4	197.2	179.9	165.1	152.3	143.8	138.0	132.3
80°	123.8	143.2	152.5	157.8	147.0	134.6	126.1	117.6	112.2	108.4	104.5
82.5°	88.6	100.5	109.2	113.3	107.4	100.0	91.5	86.6	82.5	79.3	77.9
85°	44.8	50.3	55.7	57.3	55.7	52.6	48.0	48.0	45.6	44.8	44.8
87.5°	16.2	19.2	19.5	21.7	20.9	21.7	22.8	23.1	22.7	21.9	21.1
90°	3.1	6.4	7.9	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2
92.5°	13.9	19.6	23.0	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9
95°	30.8	38.7	45.7	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8
97.5°	49.3	57.7	68.4	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6
100°	63.1	70.3	82.9	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7
102.5°	77.1	84.1	96.7	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8
105°	99.5	105.0	116.8	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2
107.5°	121.6	126.9	137.8	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8
110°	137.3	142.1	152.4	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.3	156.6	166.2	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9
115°	173.7	178.4	187.8	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4
117.5°	195.3	200.1	208.4	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1
120°	209.2	213.9	221.1	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6
122.5°	221.9	226.5	234.3	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7
125°	239.2	243.9	253.4	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8
127.5°	253.9	260.5	270.9	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4
130°	262.1	269.9	281.0	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5
132.5°	270.3	278.8	290.5	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4
135°	281.0	290.5	302.4	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3
137.5°	292.4	301.8	314.5	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4
140°	299.9	309.4	322.0	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6
142.5°	307.6	316.4	329.0	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8
145°	320.5	328.4	340.2	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3
147.5°	333.0	340.5	351.4	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7
150°	341.8	348.1	358.4	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7
152.5°	349.4	355.7	364.7	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8
155°	361.5	366.3	375.0	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2
157.5°	371.9	375.8	383.3	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0
160°	378.9	382.0	388.4	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0
162.5°	384.6	387.8	392.8	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0
165°	392.3	393.9	398.7	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6
167.5°	398.8	400.2	403.2	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7
170°	402.6	403.3	405.8	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7
172.5°	405.8	405.3	407.7	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9
175°	408.9	408.1	409.7	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8
177.5°	409.9	409.2	410.5	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2088.6	2097.3	2097.3	2098.5	2108.4	2107.2	2106.6
5°	2222.7	2235.8	2237.4	2251.3	2260.6	2257.5	2249.0
7.5°	2349.1	2373.6	2392.2	2402.6	2414.8	2422.4	2418.9
10°	2449.4	2485.1	2506.7	2521.4	2539.2	2552.3	2547.7
12.5°	2540.4	2582.8	2612.6	2637.8	2640.1	2657.0	2645.5
15°	2682.4	2727.2	2731.9	2750.5	2765.2	2763.6	2764.4
17.5°	2729.3	2743.7	2746.6	2747.0	2747.2	2741.8	2730.1
20°	2712.6	2707.1	2694.0	2683.9	2666.1	2663.8	2648.4
22.5°	2633.3	2616.2	2583.1	2561.3	2533.7	2526.4	2522.0
25°	2477.3	2439.3	2386.7	2336.4	2322.5	2295.4	2303.2
27.5°	2263.2	2204.1	2147.2	2106.3	2069.3	2028.7	2040.3
30°	2112.7	2046.2	1965.7	1903.8	1864.3	1825.6	1818.7
32.5°	1933.2	1835.7	1746.0	1691.4	1630.9	1606.5	1579.7
35°	1623.7	1528.4	1439.5	1362.8	1318.8	1284.6	1253.7
37.5°	1345.2	1235.7	1163.8	1101.8	1069.9	1050.4	1055.3
40°	1172.5	1076.5	1023.9	976.6	947.3	933.3	936.4
42.5°	1032.6	960.7	917.4	885.0	864.3	856.6	854.7
45°	873.7	833.5	797.9	779.3	769.3	760.7	755.4
47.5°	765.4	732.6	712.5	701.5	692.7	684.0	683.8
50°	700.3	678.7	664.8	653.2	646.2	640.1	645.4
52.5°	650.9	631.1	617.1	606.7	604.1	598.5	598.3
55°	577.3	561.9	551.8	542.5	537.9	534.7	530.9
57.5°	510.5	495.7	486.5	480.6	471.8	468.7	467.5
60°	462.8	451.2	441.9	434.1	430.3	424.1	424.1
62.5°	418.8	407.3	398.6	392.6	386.4	383.8	384.5
65°	355.3	346.0	337.4	331.2	329.7	325.1	326.6
67.5°	296.7	290.5	281.6	278.1	275.2	272.8	270.8
70°	257.7	251.6	246.9	242.3	239.9	239.9	239.9
72.5°	224.9	217.4	214.7	208.8	210.2	207.7	205.2
75°	174.1	169.5	167.1	164.8	161.0	161.0	161.0
77.5°	128.2	126.7	124.0	121.5	120.6	119.8	120.1
80°	99.1	98.3	96.7	96.7	95.2	94.4	92.9
82.5°	76.1	74.1	73.2	72.6	72.3	72.1	71.8
85°	43.3	41.8	41.8	42.5	41.0	41.0	41.8
87.5°	21.4	21.8	21.3	21.3	21.9	21.3	21.3
90°	23.7	25.2	26.1	26.1	26.1	26.1	26.1
92.5°	59.1	52.4	47.6	46.9	44.3	45.0	43.7
95°	158.6	125.5	108.2	97.9	91.6	89.2	90.0
97.5°	394.9	309.4	252.5	214.7	195.3	183.8	177.1
100°	622.9	514.7	419.2	353.7	319.7	296.8	282.6
102.5°	854.6	775.5	674.3	603.1	545.1	516.5	497.4
105°	1048.3	1058.6	1032.6	983.6	934.6	900.7	889.7
107.5°	1034.1	1116.2	1154.5	1160.6	1157.9	1151.1	1136.4
110°	990.0	1091.0	1155.7	1189.6	1204.7	1211.7	1210.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	937.5	1045.5	1119.7	1166.9	1192.0	1205.5	1209.7
115°	866.0	969.4	1050.7	1106.7	1143.1	1163.6	1170.7
117.5°	807.9	901.7	978.0	1035.1	1073.5	1095.1	1101.1
120°	777.6	861.2	933.1	988.4	1025.4	1048.3	1056.2
122.5°	752.3	831.5	896.5	946.0	982.5	1002.9	1009.5
125°	719.1	788.6	847.8	893.6	923.6	943.3	949.7
127.5°	686.9	752.5	807.1	847.1	875.1	892.2	897.3
130°	665.5	727.8	779.9	818.6	845.5	861.2	867.6
132.5°	645.3	702.6	751.5	789.6	816.4	830.9	836.6
135°	613.4	665.5	709.6	743.7	769.7	783.9	787.1
137.5°	587.9	629.3	667.8	698.8	721.2	733.7	738.4
140°	571.6	607.8	642.6	667.8	688.3	700.2	705.0
142.5°	557.0	588.2	617.3	641.4	659.9	670.6	671.5
145°	538.4	562.9	585.7	604.7	618.1	626.0	628.3
147.5°	523.2	542.3	559.1	574.7	585.4	590.8	592.2
150°	513.1	529.7	543.9	555.7	565.2	570.0	570.8
152.5°	504.9	519.0	531.3	540.6	548.8	552.3	552.4
155°	491.8	503.6	512.3	521.0	526.5	529.7	528.2
157.5°	478.6	488.5	495.2	501.4	506.0	507.5	507.5
160°	469.7	478.4	483.9	489.5	493.4	494.1	494.1
162.5°	461.5	468.9	473.2	478.7	481.4	482.2	481.5
165°	449.2	454.7	457.9	461.0	464.1	464.1	463.4
167.5°	438.0	441.7	444.6	446.1	447.8	447.6	446.7
170°	431.0	434.1	435.8	436.6	438.9	438.1	436.6
172.5°	424.7	427.3	428.2	429.0	430.1	429.3	428.4
175°	417.6	418.4	419.2	419.2	420.0	419.2	417.6
177.5°	412.4	413.0	413.0	413.0	413.0	412.4	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)