

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: P331754-830

Luminaire Tested: **SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331754-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6713.6 lumens
Efficiency: N/A
Efficacy: 100.5 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

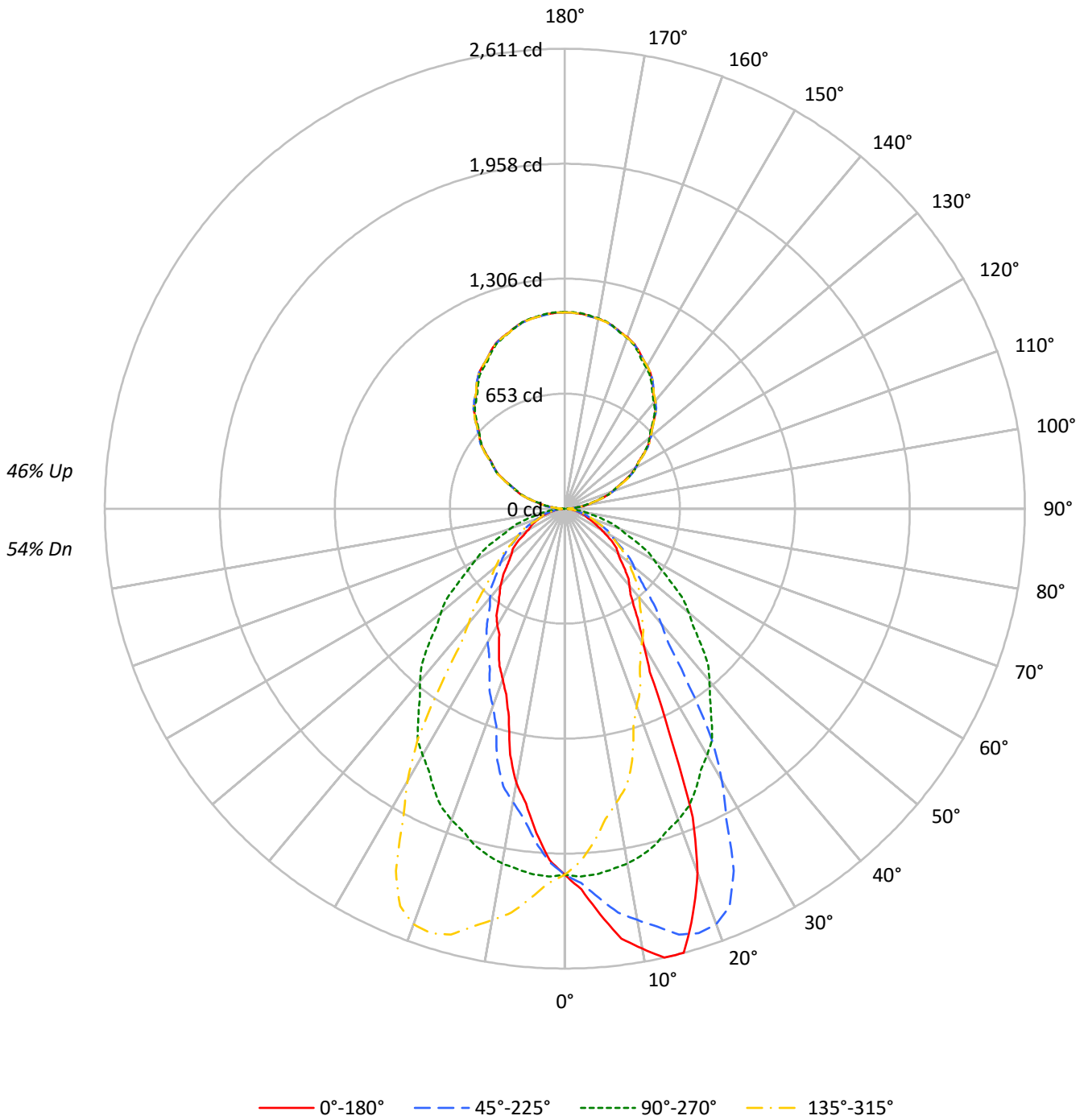
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

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	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	92	88	92	89	86	83	76	74	72	64	63	61	54	53	52	47
2	91	84	79	74	84	79	74	69	68	64	61	58	55	53	48	47	45	41
3	84	75	68	63	78	70	64	59	61	56	52	52	48	46	44	41	39	35
4	77	67	60	54	71	63	56	51	54	49	45	47	43	40	40	37	35	31
5	71	60	53	47	66	56	50	44	49	44	40	43	39	35	36	33	31	28
6	66	54	47	41	61	51	44	39	45	39	35	39	35	32	33	30	28	25
7	61	50	42	37	57	47	40	35	41	36	32	36	31	28	31	28	25	23
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	29	25	23	21
9	53	42	34	30	50	39	33	28	35	30	26	31	26	23	27	23	21	19
10	50	38	31	27	47	36	30	26	32	27	24	28	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	2.9
10°-20°	549.1	8.2
20°-30°	707.5	10.5
30°-40°	672.4	10.0
40°-50°	576.0	8.6
50°-60°	438.6	6.5
60°-70°	277.3	4.1
70°-80°	138.5	2.1
80°-90°	40.5	0.6
90°-100°	70.6	1.1
100°-110°	219.4	3.3
110°-120°	375.0	5.6
120°-130°	493.1	7.3
130°-140°	553.4	8.2
140°-150°	542.7	8.1
150°-160°	455.2	6.8
160°-170°	301.9	4.5
170°-180°	105.5	1.6
0°-30°	1453.7	21.7
0°-40°	2126.0	31.7
0°-60°	3140.7	46.8
0°-90°	3596.9	53.6
90°-120°	665.0	9.9
90°-150°	2254.1	33.6
90°-180°	3117.0	46.4
0°-180°	6713.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	29
90°	32	1	32	1	32	15
95°	58	49	58	49	58	65
105°	209	202	209	202	209	220
115°	376	376	376	376	376	372
125°	549	547	549	547	549	490
135°	717	708	717	708	717	552
145°	869	860	869	860	869	543
155°	990	983	990	983	990	456
165°	1070	1070	1070	1070	1070	302
175°	1109	1113	1109	1113	1109	105
180°	1115	1115	1115	1115	1115	



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	15.6	16.2	16.1	16.1	16.0	16.1	16.1	16.8	16.3	17.0	15.5
90°	32.0	31.8	31.6	31.4	31.1	31.3	31.7	32.0	32.5	32.9	28.3
92.5°	30.4	30.4	30.3	30.3	30.3	30.3	30.2	30.1	30.0	29.9	28.8
95°	58.3	58.7	59.2	59.6	59.9	60.2	60.2	60.2	60.2	60.2	59.8
97.5°	101.0	101.0	101.1	101.1	101.2	101.2	101.2	101.2	101.2	101.2	100.4
100°	128.8	129.0	129.3	129.5	129.7	129.8	129.8	129.8	129.8	129.8	129.2
102.5°	160.5	160.7	160.9	161.1	161.3	161.4	161.2	161.0	160.8	160.7	159.9
105°	208.8	208.8	208.8	208.8	208.8	208.6	208.2	207.7	207.4	206.9	206.5
107.5°	254.3	255.3	256.3	257.2	258.2	258.5	258.4	258.3	258.1	257.9	257.9
110°	289.7	290.3	291.0	291.6	292.2	292.6	292.6	292.6	292.6	292.6	292.6



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	324.0	324.5	325.0	325.4	325.9	326.4	326.9	327.4	327.9	328.1
115°	376.3	376.8	377.5	378.1	378.7	379.2	379.4	379.6	379.8	380.0	380.4
117.5°	426.5	427.1	427.7	428.4	429.0	429.5	430.1	430.6	431.0	431.6	432.7
120°	461.8	462.5	463.1	463.7	464.4	464.7	464.7	464.7	464.7	464.7	466.4
122.5°	496.4	496.9	497.4	497.9	498.3	498.8	499.3	499.7	500.3	500.8	502.0
125°	549.3	549.5	549.7	550.0	550.2	550.5	551.2	551.9	552.4	553.1	553.7
127.5°	597.5	598.1	598.8	599.5	600.1	600.9	601.6	602.4	603.1	603.9	604.6
130°	632.1	632.9	633.8	634.6	635.5	636.0	636.5	636.9	637.3	637.7	638.2
132.5°	665.2	665.9	666.6	667.2	667.9	668.6	669.6	670.5	671.5	672.3	672.2
135°	716.7	717.4	718.0	718.6	719.3	719.6	719.9	720.1	720.3	720.5	720.1
137.5°	763.4	764.2	765.1	765.9	766.8	767.2	767.4	767.6	767.8	767.9	767.4
140°	795.8	796.6	797.4	798.2	799.1	799.6	799.6	799.6	799.6	799.6	798.5
142.5°	825.1	826.0	826.8	827.6	828.5	828.8	828.6	828.5	828.3	828.1	827.4
145°	869.1	870.0	870.8	871.7	872.5	872.8	872.6	872.3	872.1	871.9	870.7
147.5°	908.4	909.3	910.0	910.9	911.6	911.8	911.3	910.9	910.4	909.9	909.1
150°	934.1	934.6	935.3	935.9	936.5	936.5	935.9	935.3	934.6	934.1	933.2
152.5°	958.1	958.9	959.7	960.5	961.3	961.3	960.5	959.7	958.9	958.1	957.1
155°	990.4	991.1	991.7	992.3	993.0	992.8	991.7	990.7	989.7	988.5	988.0
157.5°	1018.3	1019.3	1020.3	1021.3	1022.3	1022.1	1020.7	1019.3	1017.9	1016.4	1016.1
160°	1035.6	1036.4	1037.3	1038.1	1039.0	1038.8	1037.5	1036.2	1035.0	1033.7	1033.5
162.5°	1050.7	1051.7	1052.6	1053.7	1054.7	1054.4	1053.0	1051.6	1050.2	1048.8	1048.6
165°	1070.4	1071.5	1072.5	1073.6	1074.6	1074.4	1072.9	1071.5	1070.0	1068.6	1068.6
167.5°	1086.6	1087.7	1088.7	1089.9	1090.9	1090.7	1089.3	1087.8	1086.4	1084.9	1085.0
170°	1094.9	1096.1	1097.4	1098.6	1099.9	1099.8	1098.3	1096.8	1095.4	1093.9	1094.1
172.5°	1101.6	1102.9	1104.2	1105.4	1106.6	1106.5	1105.1	1103.6	1102.2	1100.7	1100.9
175°	1109.0	1110.2	1111.4	1112.8	1114.0	1113.9	1112.4	1111.0	1109.5	1108.1	1108.4
177.5°	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3	1115.4	1114.4	1113.3	1112.4	1112.7
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	14.6	14.2	13.3	12.1	12.1	12.2	14.5	17.0	15.2	13.9	13.3
90°	23.8	19.1	14.5	10.9	8.5	5.9	3.5	0.9	3.5	5.9	8.5
92.5°	27.7	26.7	25.5	24.1	22.2	20.5	18.6	16.8	18.6	20.5	22.2
95°	59.4	58.9	58.5	57.3	55.1	53.1	51.0	48.9	51.0	53.1	55.1
97.5°	99.6	98.9	98.0	96.7	94.9	93.0	91.2	89.4	91.2	93.0	94.9
100°	128.6	127.9	127.3	126.1	124.5	122.8	121.1	119.4	121.1	122.8	124.5
102.5°	159.1	158.3	157.5	156.4	155.0	153.7	152.4	151.1	152.4	153.7	155.0
105°	206.1	205.7	205.3	204.7	204.2	203.5	202.8	202.3	202.8	203.5	204.2
107.5°	257.9	257.9	257.9	257.5	256.6	255.6	254.7	253.7	254.7	255.6	256.6
110°	292.6	292.6	292.6	291.9	290.7	289.4	288.1	286.9	288.1	289.4	290.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	328.2	328.4	328.6	328.0	326.8	325.6	324.2	323.0	324.2	325.6	326.8
115°	380.9	381.3	381.6	381.3	380.0	378.7	377.5	376.3	377.5	378.7	380.0
117.5°	433.9	435.1	436.2	436.0	434.3	432.6	430.9	429.3	430.9	432.6	434.3
120°	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7	466.4	468.0	469.7
122.5°	503.1	504.3	505.5	505.0	503.0	501.1	499.0	497.0	499.0	501.1	503.0
125°	554.3	555.0	555.6	555.0	553.1	551.2	549.3	547.4	549.3	551.2	553.1
127.5°	605.4	606.1	606.9	606.1	603.7	601.3	598.9	596.5	598.9	601.3	603.7
130°	638.6	638.9	639.4	638.3	635.6	632.8	630.1	627.4	630.1	632.8	635.6
132.5°	672.2	672.1	672.0	670.9	668.6	666.5	664.2	662.0	664.2	666.5	668.6
135°	719.6	719.3	718.9	717.5	715.2	712.8	710.6	708.3	710.6	712.8	715.2
137.5°	766.9	766.3	765.7	764.5	762.6	760.7	758.8	757.1	758.8	760.7	762.6
140°	797.4	796.4	795.3	793.9	792.0	790.1	788.2	786.4	788.2	790.1	792.0
142.5°	826.7	826.0	825.3	824.0	822.1	820.2	818.3	816.4	818.3	820.2	822.1
145°	869.4	868.2	867.0	865.5	864.1	862.6	861.2	859.7	861.2	862.6	864.1
147.5°	908.2	907.5	906.6	905.3	903.5	901.8	900.0	898.2	900.0	901.8	903.5
150°	932.4	931.5	930.7	929.6	928.4	927.1	925.9	924.6	925.9	927.1	928.4
152.5°	956.1	955.1	954.1	953.0	951.7	950.5	949.2	947.9	949.2	950.5	951.7
155°	987.3	986.7	986.1	985.4	984.9	984.2	983.5	983.0	983.5	984.2	984.9
157.5°	1015.7	1015.3	1014.9	1014.6	1014.1	1013.7	1013.2	1012.9	1013.2	1013.7	1014.1
160°	1033.3	1033.1	1032.9	1032.6	1032.2	1031.7	1031.3	1031.0	1031.3	1031.7	1032.2
162.5°	1048.4	1048.2	1047.9	1047.8	1047.7	1047.6	1047.5	1047.4	1047.5	1047.6	1047.7
165°	1068.6	1068.6	1068.6	1068.7	1068.8	1069.0	1069.3	1069.5	1069.3	1069.0	1068.8
167.5°	1085.0	1085.1	1085.1	1085.4	1086.0	1086.7	1087.3	1087.9	1087.3	1086.7	1086.0
170°	1094.4	1094.6	1094.8	1095.1	1095.8	1096.5	1097.0	1097.7	1097.0	1096.5	1095.8
172.5°	1101.1	1101.4	1101.5	1101.9	1102.6	1103.2	1103.8	1104.5	1103.8	1103.2	1102.6
175°	1108.9	1109.3	1109.7	1110.2	1110.9	1111.4	1112.1	1112.8	1112.1	1111.4	1110.9
177.5°	1113.0	1113.3	1113.7	1114.1	1114.7	1115.1	1115.6	1116.2	1115.6	1115.1	1114.7
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	13.2	13.3	13.1	13.9	14.9	15.3	15.2	14.5	14.4	14.3	13.8
90°	10.9	14.5	19.1	23.8	28.3	32.9	32.5	32.0	31.7	31.3	31.1
92.5°	24.1	25.5	26.7	27.7	28.8	29.9	30.0	30.1	30.2	30.3	30.3
95°	57.3	58.5	58.9	59.4	59.8	60.2	60.2	60.2	60.2	60.2	59.9
97.5°	96.7	98.0	98.9	99.6	100.4	101.2	101.2	101.2	101.2	101.2	101.2
100°	126.1	127.3	127.9	128.6	129.2	129.8	129.8	129.8	129.8	129.8	129.7
102.5°	156.4	157.5	158.3	159.1	159.9	160.7	160.8	161.0	161.2	161.4	161.3
105°	204.7	205.3	205.7	206.1	206.5	206.9	207.4	207.7	208.2	208.6	208.8
107.5°	257.5	257.9	257.9	257.9	257.9	257.9	258.1	258.3	258.4	258.5	258.2
110°	291.9	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.2



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	328.0	328.6	328.4	328.2	328.1	327.9	327.4	326.9	326.4	325.9	325.4
115°	381.3	381.6	381.3	380.9	380.4	380.0	379.8	379.6	379.4	379.2	378.7
117.5°	436.0	436.2	435.1	433.9	432.7	431.6	431.0	430.6	430.1	429.5	429.0
120°	471.4	471.4	469.7	468.0	466.4	464.7	464.7	464.7	464.7	464.7	464.4
122.5°	505.0	505.5	504.3	503.1	502.0	500.8	500.3	499.7	499.3	498.8	498.3
125°	555.0	555.6	555.0	554.3	553.7	553.1	552.4	551.9	551.2	550.5	550.2
127.5°	606.1	606.9	606.1	605.4	604.6	603.9	603.1	602.4	601.6	600.9	600.1
130°	638.3	639.4	638.9	638.6	638.2	637.7	637.3	636.9	636.5	636.0	635.5
132.5°	670.9	672.0	672.1	672.2	672.2	672.3	671.5	670.5	669.6	668.6	667.9
135°	717.5	718.9	719.3	719.6	720.1	720.5	720.3	720.1	719.9	719.6	719.3
137.5°	764.5	765.7	766.3	766.9	767.4	767.9	767.8	767.6	767.4	767.2	766.8
140°	793.9	795.3	796.4	797.4	798.5	799.6	799.6	799.6	799.6	799.6	799.1
142.5°	824.0	825.3	826.0	826.7	827.4	828.1	828.3	828.5	828.6	828.8	828.5
145°	865.5	867.0	868.2	869.4	870.7	871.9	872.1	872.3	872.6	872.8	872.5
147.5°	905.3	906.6	907.5	908.2	909.1	909.9	910.4	910.9	911.3	911.8	911.6
150°	929.6	930.7	931.5	932.4	933.2	934.1	934.6	935.3	935.9	936.5	936.5
152.5°	953.0	954.1	955.1	956.1	957.1	958.1	958.9	959.7	960.5	961.3	961.3
155°	985.4	986.1	986.7	987.3	988.0	988.5	989.7	990.7	991.7	992.8	993.0
157.5°	1014.6	1014.9	1015.3	1015.7	1016.1	1016.4	1017.9	1019.3	1020.7	1022.1	1022.3
160°	1032.6	1032.9	1033.1	1033.3	1033.5	1033.7	1035.0	1036.2	1037.5	1038.8	1039.0
162.5°	1047.8	1047.9	1048.2	1048.4	1048.6	1048.8	1050.2	1051.6	1053.0	1054.4	1054.7
165°	1068.7	1068.6	1068.6	1068.6	1068.6	1068.6	1070.0	1071.5	1072.9	1074.4	1074.6
167.5°	1085.4	1085.1	1085.1	1085.0	1085.0	1084.9	1086.4	1087.8	1089.3	1090.7	1090.9
170°	1095.1	1094.8	1094.6	1094.4	1094.1	1093.9	1095.4	1096.8	1098.3	1099.8	1099.9
172.5°	1101.9	1101.5	1101.4	1101.1	1100.9	1100.7	1102.2	1103.6	1105.1	1106.5	1106.6
175°	1110.2	1109.7	1109.3	1108.9	1108.4	1108.1	1109.5	1111.0	1112.4	1113.9	1114.0
177.5°	1114.1	1113.7	1113.3	1113.0	1112.7	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	13.8	13.3	13.9	13.3	13.9	13.3	13.8	13.8	14.3	14.4	14.5
90°	31.4	31.6	31.8	32.0	31.8	31.6	31.4	31.1	31.3	31.7	32.0
92.5°	30.3	30.3	30.4	30.4	30.4	30.3	30.3	30.3	30.3	30.2	30.1
95°	59.6	59.2	58.7	58.3	58.7	59.2	59.6	59.9	60.2	60.2	60.2
97.5°	101.1	101.1	101.0	101.0	101.0	101.1	101.1	101.2	101.2	101.2	101.2
100°	129.5	129.3	129.0	128.8	129.0	129.3	129.5	129.7	129.8	129.8	129.8
102.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.4	161.2	161.0
105°	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.6	208.2	207.7
107.5°	257.2	256.3	255.3	254.3	255.3	256.3	257.2	258.2	258.5	258.4	258.3
110°	291.6	291.0	290.3	289.7	290.3	291.0	291.6	292.2	292.6	292.6	292.6



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	325.0	324.5	324.0	323.6	324.0	324.5	325.0	325.4	325.9	326.4	326.9
115°	378.1	377.5	376.8	376.3	376.8	377.5	378.1	378.7	379.2	379.4	379.6
117.5°	428.4	427.7	427.1	426.5	427.1	427.7	428.4	429.0	429.5	430.1	430.6
120°	463.7	463.1	462.5	461.8	462.5	463.1	463.7	464.4	464.7	464.7	464.7
122.5°	497.9	497.4	496.9	496.4	496.9	497.4	497.9	498.3	498.8	499.3	499.7
125°	550.0	549.7	549.5	549.3	549.5	549.7	550.0	550.2	550.5	551.2	551.9
127.5°	599.5	598.8	598.1	597.5	598.1	598.8	599.5	600.1	600.9	601.6	602.4
130°	634.6	633.8	632.9	632.1	632.9	633.8	634.6	635.5	636.0	636.5	636.9
132.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	668.6	669.6	670.5
135°	718.6	718.0	717.4	716.7	717.4	718.0	718.6	719.3	719.6	719.9	720.1
137.5°	765.9	765.1	764.2	763.4	764.2	765.1	765.9	766.8	767.2	767.4	767.6
140°	798.2	797.4	796.6	795.8	796.6	797.4	798.2	799.1	799.6	799.6	799.6
142.5°	827.6	826.8	826.0	825.1	826.0	826.8	827.6	828.5	828.8	828.6	828.5
145°	871.7	870.8	870.0	869.1	870.0	870.8	871.7	872.5	872.8	872.6	872.3
147.5°	910.9	910.0	909.3	908.4	909.3	910.0	910.9	911.6	911.8	911.3	910.9
150°	935.9	935.3	934.6	934.1	934.6	935.3	935.9	936.5	936.5	935.9	935.3
152.5°	960.5	959.7	958.9	958.1	958.9	959.7	960.5	961.3	961.3	960.5	959.7
155°	992.3	991.7	991.1	990.4	991.1	991.7	992.3	993.0	992.8	991.7	990.7
157.5°	1021.3	1020.3	1019.3	1018.3	1019.3	1020.3	1021.3	1022.3	1022.1	1020.7	1019.3
160°	1038.1	1037.3	1036.4	1035.6	1036.4	1037.3	1038.1	1039.0	1038.8	1037.5	1036.2
162.5°	1053.7	1052.6	1051.7	1050.7	1051.7	1052.6	1053.7	1054.7	1054.4	1053.0	1051.6
165°	1073.6	1072.5	1071.5	1070.4	1071.5	1072.5	1073.6	1074.6	1074.4	1072.9	1071.5
167.5°	1089.9	1088.7	1087.7	1086.6	1087.7	1088.7	1089.9	1090.9	1090.7	1089.3	1087.8
170°	1098.6	1097.4	1096.1	1094.9	1096.1	1097.4	1098.6	1099.9	1099.8	1098.3	1096.8
172.5°	1105.4	1104.2	1102.9	1101.6	1102.9	1104.2	1105.4	1106.6	1106.5	1105.1	1103.6
175°	1112.8	1111.4	1110.2	1109.0	1110.2	1111.4	1112.8	1114.0	1113.9	1112.4	1111.0
177.5°	1115.4	1114.4	1113.3	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3	1115.4	1114.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	15.2	15.3	14.9	13.9	13.1	13.3	13.2	13.3	13.9	15.2	17.0
90°	32.5	32.9	28.3	23.8	19.1	14.5	10.9	8.5	5.9	3.5	0.9
92.5°	30.0	29.9	28.8	27.7	26.7	25.5	24.1	22.2	20.5	18.6	16.8
95°	60.2	60.2	59.8	59.4	58.9	58.5	57.3	55.1	53.1	51.0	48.9
97.5°	101.2	101.2	100.4	99.6	98.9	98.0	96.7	94.9	93.0	91.2	89.4
100°	129.8	129.8	129.2	128.6	127.9	127.3	126.1	124.5	122.8	121.1	119.4
102.5°	160.8	160.7	159.9	159.1	158.3	157.5	156.4	155.0	153.7	152.4	151.1
105°	207.4	206.9	206.5	206.1	205.7	205.3	204.7	204.2	203.5	202.8	202.3
107.5°	258.1	257.9	257.9	257.9	257.9	257.9	257.5	256.6	255.6	254.7	253.7
110°	292.6	292.6	292.6	292.6	292.6	292.6	291.9	290.7	289.4	288.1	286.9



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	327.4	327.9	328.1	328.2	328.4	328.6	328.0	326.8	325.6	324.2	323.0
115°	379.8	380.0	380.4	380.9	381.3	381.6	381.3	380.0	378.7	377.5	376.3
117.5°	431.0	431.6	432.7	433.9	435.1	436.2	436.0	434.3	432.6	430.9	429.3
120°	464.7	464.7	466.4	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7
122.5°	500.3	500.8	502.0	503.1	504.3	505.5	505.0	503.0	501.1	499.0	497.0
125°	552.4	553.1	553.7	554.3	555.0	555.6	555.0	553.1	551.2	549.3	547.4
127.5°	603.1	603.9	604.6	605.4	606.1	606.9	606.1	603.7	601.3	598.9	596.5
130°	637.3	637.7	638.2	638.6	638.9	639.4	638.3	635.6	632.8	630.1	627.4
132.5°	671.5	672.3	672.2	672.2	672.1	672.0	670.9	668.6	666.5	664.2	662.0
135°	720.3	720.5	720.1	719.6	719.3	718.9	717.5	715.2	712.8	710.6	708.3
137.5°	767.8	767.9	767.4	766.9	766.3	765.7	764.5	762.6	760.7	758.8	757.1
140°	799.6	799.6	798.5	797.4	796.4	795.3	793.9	792.0	790.1	788.2	786.4
142.5°	828.3	828.1	827.4	826.7	826.0	825.3	824.0	822.1	820.2	818.3	816.4
145°	872.1	871.9	870.7	869.4	868.2	867.0	865.5	864.1	862.6	861.2	859.7
147.5°	910.4	909.9	909.1	908.2	907.5	906.6	905.3	903.5	901.8	900.0	898.2
150°	934.6	934.1	933.2	932.4	931.5	930.7	929.6	928.4	927.1	925.9	924.6
152.5°	958.9	958.1	957.1	956.1	955.1	954.1	953.0	951.7	950.5	949.2	947.9
155°	989.7	988.5	988.0	987.3	986.7	986.1	985.4	984.9	984.2	983.5	983.0
157.5°	1017.9	1016.4	1016.1	1015.7	1015.3	1014.9	1014.6	1014.1	1013.7	1013.2	1012.9
160°	1035.0	1033.7	1033.5	1033.3	1033.1	1032.9	1032.6	1032.2	1031.7	1031.3	1031.0
162.5°	1050.2	1048.8	1048.6	1048.4	1048.2	1047.9	1047.8	1047.7	1047.6	1047.5	1047.4
165°	1070.0	1068.6	1068.6	1068.6	1068.6	1068.6	1068.7	1068.8	1069.0	1069.3	1069.5
167.5°	1086.4	1084.9	1085.0	1085.0	1085.1	1085.1	1085.4	1086.0	1086.7	1087.3	1087.9
170°	1095.4	1093.9	1094.1	1094.4	1094.6	1094.8	1095.1	1095.8	1096.5	1097.0	1097.7
172.5°	1102.2	1100.7	1100.9	1101.1	1101.4	1101.5	1101.9	1102.6	1103.2	1103.8	1104.5
175°	1109.5	1108.1	1108.4	1108.9	1109.3	1109.7	1110.2	1110.9	1111.4	1112.1	1112.8
177.5°	1113.3	1112.4	1112.7	1113.0	1113.3	1113.7	1114.1	1114.7	1115.1	1115.6	1116.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.5	12.2	12.1	12.1	13.3	14.2	14.6	15.5	17.0	16.3	16.8
90°	3.5	5.9	8.5	10.9	14.5	19.1	23.8	28.3	32.9	32.5	32.0
92.5°	18.6	20.5	22.2	24.1	25.5	26.7	27.7	28.8	29.9	30.0	30.1
95°	51.0	53.1	55.1	57.3	58.5	58.9	59.4	59.8	60.2	60.2	60.2
97.5°	91.2	93.0	94.9	96.7	98.0	98.9	99.6	100.4	101.2	101.2	101.2
100°	121.1	122.8	124.5	126.1	127.3	127.9	128.6	129.2	129.8	129.8	129.8
102.5°	152.4	153.7	155.0	156.4	157.5	158.3	159.1	159.9	160.7	160.8	161.0
105°	202.8	203.5	204.2	204.7	205.3	205.7	206.1	206.5	206.9	207.4	207.7
107.5°	254.7	255.6	256.6	257.5	257.9	257.9	257.9	257.9	257.9	258.1	258.3
110°	288.1	289.4	290.7	291.9	292.6	292.6	292.6	292.6	292.6	292.6	292.6



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	324.2	325.6	326.8	328.0	328.6	328.4	328.2	328.1	327.9	327.4	326.9
115°	377.5	378.7	380.0	381.3	381.6	381.3	380.9	380.4	380.0	379.8	379.6
117.5°	430.9	432.6	434.3	436.0	436.2	435.1	433.9	432.7	431.6	431.0	430.6
120°	466.4	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7	464.7	464.7
122.5°	499.0	501.1	503.0	505.0	505.5	504.3	503.1	502.0	500.8	500.3	499.7
125°	549.3	551.2	553.1	555.0	555.6	555.0	554.3	553.7	553.1	552.4	551.9
127.5°	598.9	601.3	603.7	606.1	606.9	606.1	605.4	604.6	603.9	603.1	602.4
130°	630.1	632.8	635.6	638.3	639.4	638.9	638.6	638.2	637.7	637.3	636.9
132.5°	664.2	666.5	668.6	670.9	672.0	672.1	672.2	672.2	672.3	671.5	670.5
135°	710.6	712.8	715.2	717.5	718.9	719.3	719.6	720.1	720.5	720.3	720.1
137.5°	758.8	760.7	762.6	764.5	765.7	766.3	766.9	767.4	767.9	767.8	767.6
140°	788.2	790.1	792.0	793.9	795.3	796.4	797.4	798.5	799.6	799.6	799.6
142.5°	818.3	820.2	822.1	824.0	825.3	826.0	826.7	827.4	828.1	828.3	828.5
145°	861.2	862.6	864.1	865.5	867.0	868.2	869.4	870.7	871.9	872.1	872.3
147.5°	900.0	901.8	903.5	905.3	906.6	907.5	908.2	909.1	909.9	910.4	910.9
150°	925.9	927.1	928.4	929.6	930.7	931.5	932.4	933.2	934.1	934.6	935.3
152.5°	949.2	950.5	951.7	953.0	954.1	955.1	956.1	957.1	958.1	958.9	959.7
155°	983.5	984.2	984.9	985.4	986.1	986.7	987.3	988.0	988.5	989.7	990.7
157.5°	1013.2	1013.7	1014.1	1014.6	1014.9	1015.3	1015.7	1016.1	1016.4	1017.9	1019.3
160°	1031.3	1031.7	1032.2	1032.6	1032.9	1033.1	1033.3	1033.5	1033.7	1035.0	1036.2
162.5°	1047.5	1047.6	1047.7	1047.8	1047.9	1048.2	1048.4	1048.6	1048.8	1050.2	1051.6
165°	1069.3	1069.0	1068.8	1068.7	1068.6	1068.6	1068.6	1068.6	1068.6	1070.0	1071.5
167.5°	1087.3	1086.7	1086.0	1085.4	1085.1	1085.1	1085.0	1085.0	1084.9	1086.4	1087.8
170°	1097.0	1096.5	1095.8	1095.1	1094.8	1094.6	1094.4	1094.1	1093.9	1095.4	1096.8
172.5°	1103.8	1103.2	1102.6	1101.9	1101.5	1101.4	1101.1	1100.9	1100.7	1102.2	1103.6
175°	1112.1	1111.4	1110.9	1110.2	1109.7	1109.3	1108.9	1108.4	1108.1	1109.5	1111.0
177.5°	1115.6	1115.1	1114.7	1114.1	1113.7	1113.3	1113.0	1112.7	1112.4	1113.3	1114.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	16.1	16.1	16.0	16.1	16.1	16.2	15.6
90°	31.7	31.3	31.1	31.4	31.6	31.8	32.0
92.5°	30.2	30.3	30.3	30.3	30.3	30.4	30.4
95°	60.2	60.2	59.9	59.6	59.2	58.7	58.3
97.5°	101.2	101.2	101.2	101.1	101.1	101.0	101.0
100°	129.8	129.8	129.7	129.5	129.3	129.0	128.8
102.5°	161.2	161.4	161.3	161.1	160.9	160.7	160.5
105°	208.2	208.6	208.8	208.8	208.8	208.8	208.8
107.5°	258.4	258.5	258.2	257.2	256.3	255.3	254.3
110°	292.6	292.6	292.2	291.6	291.0	290.3	289.7



TEST NUMBER: P331754-830

CATALOG NUMBER: SA2XXRDIP-C1005D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	326.4	325.9	325.4	325.0	324.5	324.0	323.6
115°	379.4	379.2	378.7	378.1	377.5	376.8	376.3
117.5°	430.1	429.5	429.0	428.4	427.7	427.1	426.5
120°	464.7	464.7	464.4	463.7	463.1	462.5	461.8
122.5°	499.3	498.8	498.3	497.9	497.4	496.9	496.4
125°	551.2	550.5	550.2	550.0	549.7	549.5	549.3
127.5°	601.6	600.9	600.1	599.5	598.8	598.1	597.5
130°	636.5	636.0	635.5	634.6	633.8	632.9	632.1
132.5°	669.6	668.6	667.9	667.2	666.6	665.9	665.2
135°	719.9	719.6	719.3	718.6	718.0	717.4	716.7
137.5°	767.4	767.2	766.8	765.9	765.1	764.2	763.4
140°	799.6	799.6	799.1	798.2	797.4	796.6	795.8
142.5°	828.6	828.8	828.5	827.6	826.8	826.0	825.1
145°	872.6	872.8	872.5	871.7	870.8	870.0	869.1
147.5°	911.3	911.8	911.6	910.9	910.0	909.3	908.4
150°	935.9	936.5	936.5	935.9	935.3	934.6	934.1
152.5°	960.5	961.3	961.3	960.5	959.7	958.9	958.1
155°	991.7	992.8	993.0	992.3	991.7	991.1	990.4
157.5°	1020.7	1022.1	1022.3	1021.3	1020.3	1019.3	1018.3
160°	1037.5	1038.8	1039.0	1038.1	1037.3	1036.4	1035.6
162.5°	1053.0	1054.4	1054.7	1053.7	1052.6	1051.7	1050.7
165°	1072.9	1074.4	1074.6	1073.6	1072.5	1071.5	1070.4
167.5°	1089.3	1090.7	1090.9	1089.9	1088.7	1087.7	1086.6
170°	1098.3	1099.8	1099.9	1098.6	1097.4	1096.1	1094.9
172.5°	1105.1	1106.5	1106.6	1105.4	1104.2	1102.9	1101.6
175°	1112.4	1113.9	1114.0	1112.8	1111.4	1110.2	1109.0
177.5°	1115.4	1116.3	1116.3	1115.4	1114.4	1113.3	1112.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)