

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: P331735-930

Luminaire Tested: **SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331735-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

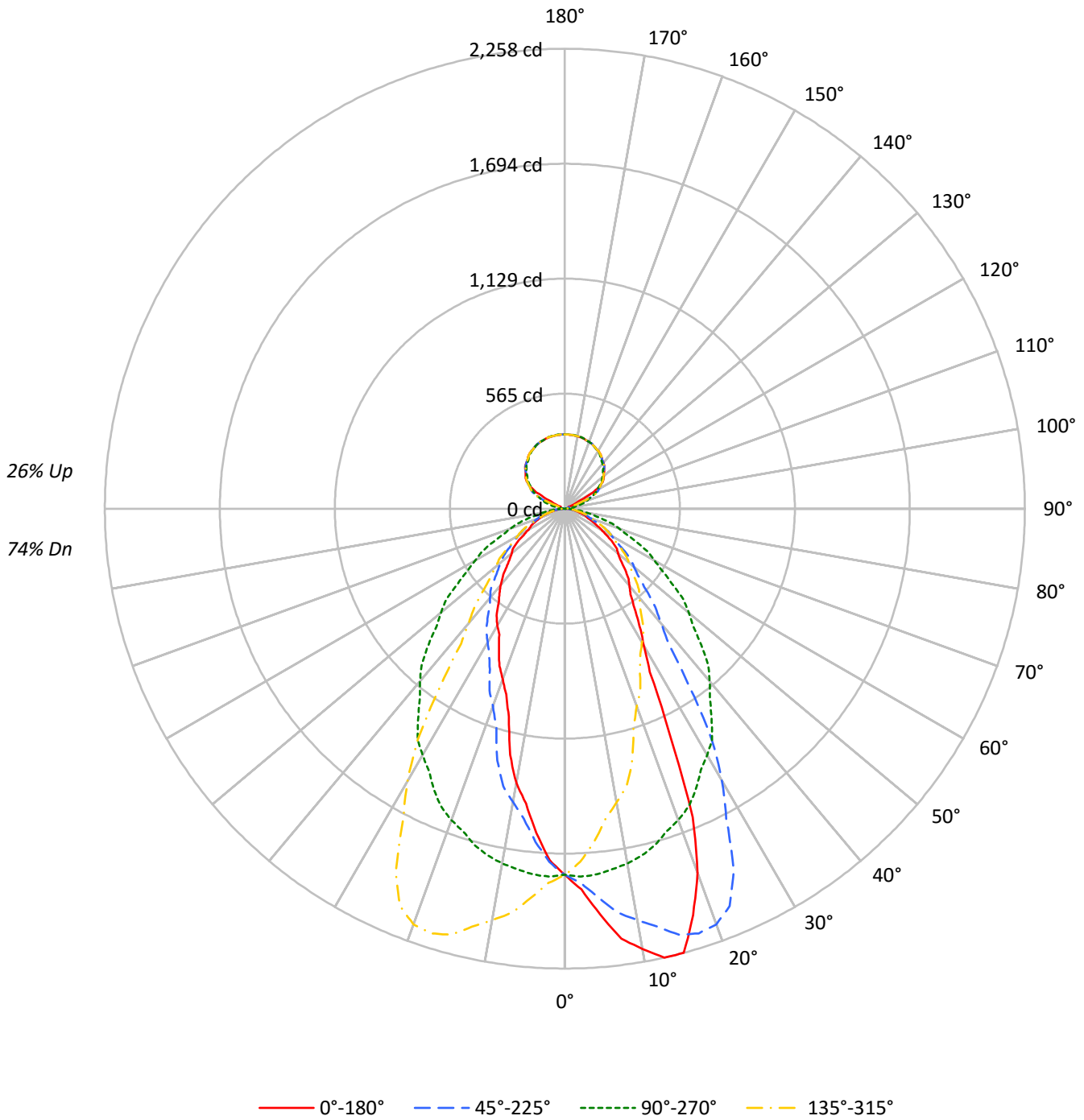
Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.8
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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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	100	97	93	99	96	92	90	87	84	82	79	77	75	71	70	69	65
2	96	89	83	78	91	85	80	76	78	74	70	71	67	65	64	62	60	56
3	89	80	73	67	84	76	70	65	70	65	60	64	60	56	58	55	52	49
4	82	71	64	58	78	68	62	56	63	57	53	58	53	50	53	49	46	44
5	76	65	57	51	72	62	55	50	57	51	47	53	48	44	48	44	41	39
6	70	59	51	45	67	56	49	44	52	46	42	48	43	39	44	40	37	35
7	66	54	46	40	62	52	45	39	48	42	37	44	39	36	41	37	34	31
8	61	49	42	36	58	48	41	36	44	38	34	41	36	32	38	34	31	29
9	57	45	38	33	55	44	37	32	41	35	31	38	33	30	36	31	28	26
10	54	42	35	30	52	41	34	30	38	32	28	36	31	27	33	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29032	29032	29032	29032
5°	32423	29214	25901	29214
10°	35974	29009	22453	29009
15°	37742	28583	17690	28583
20°	32720	27953	15309	27953
25°	21458	27091	13668	27091
30°	14443	26045	12370	26045
35°	11698	24727	11158	24727
40°	10404	23294	10323	23294
45°	9417	21614	9216	21614
50°	8568	19947	8538	19947
55°	8056	18097	7949	18097
60°	6736	16401	6659	16401
65°	5681	14896	6445	14896
70°	5249	13303	6076	13303
75°	4916	11578	5608	11578
80°	4537	9530	4993	9530
85°	4168	7521	4390	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	4.1
10°-20°	474.9	11.4
20°-30°	612.0	14.7
30°-40°	581.6	13.9
40°-50°	498.2	11.9
50°-60°	379.4	9.1
60°-70°	239.9	5.7
70°-80°	119.8	2.9
80°-90°	32.1	0.8
90°-100°	12.1	0.3
100°-110°	44.6	1.1
110°-120°	119.1	2.9
120°-130°	196.6	4.7
130°-140°	209.1	5.0
140°-150°	194.4	4.7
150°-160°	156.3	3.7
160°-170°	100.7	2.4
170°-180°	34.7	0.8
0°-30°	1257.4	30.1
0°-40°	1839.0	44.0
0°-60°	2716.7	65.1
0°-90°	3108.4	74.4
90°-120°	175.8	4.2
90°-150°	776.0	18.6
90°-180°	1068.0	25.6
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1798	1798	1798	1798	1798	
5°	2000	1802	1598	1802	2000	197
15°	2258	1710	1058	1710	2258	609
25°	1204	1521	767	1521	1204	572
35°	594	1254	566	1254	594	380
45°	412	947	404	947	412	319
55°	286	643	282	643	286	251
65°	149	390	169	390	149	151
75°	79	186	90	186	79	84
85°	22	41	24	41	22	24
90°	7	0	7	0	7	4
95°	11	17	11	17	11	11
105°	20	80	20	80	20	21
115°	22	152	22	152	22	54
125°	225	214	225	214	225	195
135°	274	265	274	265	274	211
145°	312	308	312	308	312	195
155°	339	339	339	339	339	156
165°	356	357	356	357	356	101
175°	363	365	363	365	363	35
180°	364	364	364	364	364	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1871.0	1872.6	1874.0	1870.5	1870.5	1867.5	1861.1	1856.0	1842.1	1840.0	1840.0
5°	2000.5	1999.3	2001.7	1993.7	1982.4	1979.9	1968.1	1952.4	1936.2	1918.1	1914.3
7.5°	2129.2	2127.4	2122.3	2121.0	2112.4	2093.4	2074.4	2054.0	2027.0	2000.7	1987.4
10°	2194.2	2214.8	2202.3	2180.4	2184.8	2155.5	2139.8	2113.0	2090.5	2051.1	2042.4
12.5°	2258.1	2266.3	2262.3	2249.9	2244.3	2223.9	2202.8	2179.5	2138.0	2102.6	2071.8
15°	2257.9	2269.8	2272.9	2269.1	2272.3	2271.0	2259.8	2240.4	2204.2	2165.4	2131.7
17.5°	2091.2	2099.5	2119.9	2133.8	2151.3	2188.3	2206.5	2213.7	2208.3	2186.2	2162.4
20°	1904.3	1890.5	1948.0	1977.4	2002.4	2064.8	2118.6	2139.2	2172.3	2171.7	2165.4
22.5°	1639.4	1642.7	1697.1	1732.0	1805.0	1867.4	1928.7	2006.3	2070.4	2112.7	2137.5
25°	1204.5	1228.3	1282.6	1330.2	1411.4	1527.5	1633.1	1755.6	1871.2	1962.4	2049.3
27.5°	904.7	906.4	949.5	993.4	1041.6	1136.9	1269.7	1416.0	1580.8	1716.8	1873.2
30°	774.7	770.9	789.0	816.0	857.2	930.9	1030.9	1174.6	1338.9	1543.8	1726.2
32.5°	682.7	683.0	696.6	716.5	750.7	800.5	868.9	985.6	1140.9	1342.4	1556.3
35°	593.5	592.9	602.9	617.3	631.6	663.5	710.4	771.6	878.4	1066.5	1285.2
37.5°	529.5	532.3	537.2	546.2	562.1	579.8	607.9	649.0	725.1	836.3	1020.1
40°	493.6	494.8	501.7	509.2	518.5	532.3	555.4	588.6	644.2	732.9	867.2
42.5°	460.6	461.9	466.7	473.7	481.1	494.8	514.0	542.6	587.7	656.9	767.7
45°	412.4	412.4	416.7	419.9	428.0	440.4	456.1	479.8	511.0	562.3	636.0
47.5°	367.1	367.2	370.1	375.5	380.6	390.4	405.7	425.1	447.8	487.5	550.4
50°	341.1	341.8	343.6	348.0	351.1	359.9	371.8	388.6	412.4	443.0	495.5
52.5°	320.2	319.8	322.1	324.0	326.1	332.4	341.3	356.1	377.3	404.0	447.4
55°	286.2	283.6	287.4	290.5	292.4	294.9	299.9	309.2	327.3	349.8	382.4
57.5°	243.7	242.6	245.3	248.2	254.0	260.8	265.1	271.0	280.4	296.5	328.7
60°	208.6	208.6	214.3	216.1	223.1	231.8	240.5	245.6	254.9	265.5	289.3
62.5°	177.7	178.2	180.8	182.7	186.5	197.3	209.5	220.5	229.4	239.5	255.3
65°	148.7	149.9	149.9	151.2	153.7	156.2	161.2	169.9	185.6	199.9	211.8
67.5°	126.2	126.6	126.9	128.2	128.8	131.6	133.5	137.5	141.0	154.7	169.4
70°	111.2	113.1	112.4	113.7	114.3	115.6	118.1	119.9	125.6	128.7	137.5
72.5°	97.2	98.6	98.5	99.2	100.9	101.1	103.1	104.9	108.6	111.2	115.9
75°	78.8	78.1	78.8	80.0	80.6	81.2	81.2	83.7	85.6	88.1	91.2
77.5°	60.7	61.4	61.2	61.4	61.5	62.6	62.5	63.6	65.5	66.7	68.2
80°	48.8	49.3	48.8	49.3	50.0	50.6	50.0	50.6	52.5	53.7	53.7
82.5°	37.7	37.8	38.2	38.4	38.5	38.6	39.5	39.6	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.2	22.5	22.5	23.2	23.2	23.2
87.5°	9.5	9.9	9.9	9.9	9.9	9.8	9.7	10.2	9.6	10.0	9.5
90°	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9	5.5	5.3	4.8
92.5°	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.1	5.9
95°	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8	10.6	10.3	9.9
97.5°	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3	14.0	13.8	12.8
100°	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0	15.5	15.0	14.0
102.5°	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6	16.1	15.4	23.8
105°	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4	16.7	16.1	32.0
107.5°	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2	21.9	22.5	41.7
110°	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4	40.3	46.1	63.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6	95.0	116.3	120.5
115°	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4	135.5	162.7	161.2
117.5°	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1	173.6	180.2	179.1
120°	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6	194.0	193.2	192.2
122.5°	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5	206.1	205.7	204.6
125°	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6	223.1	222.7	221.6
127.5°	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4	238.7	238.1	237.3
130°	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3	248.7	248.1	247.4
132.5°	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1	258.5	258.0	257.3
135°	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0	272.4	271.8	271.3
137.5°	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8	285.3	284.7	284.1
140°	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2	293.7	293.1	292.5
142.5°	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9	301.4	300.9	300.2
145°	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7	312.3	311.9	310.9
147.5°	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0	321.7	321.5	320.5
150°	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8	327.5	327.2	326.2
152.5°	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1	332.7	332.4	331.5
155°	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2	339.9	339.5	338.8
157.5°	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3	345.8	345.4	345.0
160°	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8	349.4	349.0	348.7
162.5°	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9	352.6	352.2	351.9
165°	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9	356.5	356.1	356.0
167.5°	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3	359.9	359.5	359.3
170°	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0	361.6	361.2	361.0
172.5°	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2	362.8	362.4	362.3
175°	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6	364.2	363.8	363.7
177.5°	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8	364.4	364.1	364.0
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1841.1	1837.0	1833.6	1824.6	1820.1	1810.0	1808.6	1808.1	1795.1	1782.6	1779.1
5°	1904.3	1894.3	1879.3	1861.8	1843.7	1825.0	1812.5	1802.5	1777.4	1753.7	1740.0
7.5°	1968.1	1946.5	1920.7	1887.6	1859.9	1829.0	1806.0	1785.3	1749.9	1715.9	1693.0
10°	2015.5	1980.5	1946.1	1900.5	1864.9	1829.9	1797.5	1769.4	1729.3	1684.4	1652.5
12.5°	2045.0	2006.5	1959.2	1914.6	1868.4	1824.0	1780.5	1744.3	1697.4	1650.9	1613.1
15°	2084.9	2043.6	1986.2	1922.4	1863.0	1805.0	1755.0	1710.0	1648.8	1593.2	1546.9
17.5°	2117.5	2060.8	1999.0	1925.3	1856.6	1782.7	1718.4	1660.9	1592.8	1525.7	1471.2
20°	2127.9	2071.8	2000.5	1926.8	1845.6	1758.8	1689.4	1626.9	1553.8	1480.7	1418.2
22.5°	2121.5	2077.7	1998.5	1910.3	1827.1	1736.3	1657.9	1585.4	1504.3	1429.7	1357.2
25°	2077.4	2062.4	1987.4	1891.2	1796.2	1690.6	1600.0	1520.7	1428.2	1348.3	1269.5
27.5°	1974.5	2006.9	1960.4	1857.9	1752.3	1639.2	1537.3	1447.0	1351.0	1261.0	1182.6
30°	1875.6	1949.9	1929.9	1834.9	1716.9	1605.7	1491.3	1397.0	1294.5	1202.1	1124.6
32.5°	1740.1	1863.0	1882.4	1803.0	1680.9	1558.7	1438.8	1345.0	1238.0	1140.6	1065.1
35°	1524.4	1708.1	1792.4	1741.9	1619.4	1487.6	1363.8	1254.5	1147.0	1050.8	975.9
37.5°	1267.1	1517.4	1657.9	1661.5	1549.1	1412.0	1277.2	1168.7	1058.7	964.3	883.2
40°	1100.2	1371.3	1554.4	1595.1	1500.1	1352.0	1215.8	1105.2	997.8	905.3	812.2
42.5°	950.3	1220.4	1445.4	1516.0	1440.6	1293.6	1156.8	1041.2	936.8	849.3	754.2
45°	768.5	1004.6	1252.6	1378.8	1337.0	1200.8	1056.5	946.6	848.4	772.8	681.6
47.5°	648.2	814.7	1054.8	1225.4	1224.7	1100.3	958.4	853.0	762.1	691.2	617.4
50°	579.8	724.7	927.8	1121.4	1137.7	1033.4	898.4	794.1	709.1	634.8	575.4
52.5°	518.3	637.7	820.4	1006.0	1052.2	961.9	831.0	734.6	652.2	583.8	533.0
55°	438.0	530.4	669.1	842.8	912.8	849.1	732.9	642.9	576.0	518.5	474.8
57.5°	370.5	439.9	551.1	691.0	772.5	732.4	636.5	563.5	506.2	454.2	419.7
60°	328.0	384.8	479.2	596.1	686.0	657.9	576.0	507.9	459.2	414.3	381.7
62.5°	288.0	336.9	417.8	512.6	595.0	583.4	516.6	459.4	416.7	375.8	348.2
65°	231.8	267.4	330.5	404.9	471.1	476.7	428.6	389.9	351.7	319.3	294.9
67.5°	184.6	207.8	252.3	314.9	364.5	382.2	352.9	323.3	293.0	267.9	246.8
70°	155.6	174.3	206.8	257.4	303.0	321.7	304.9	281.8	255.5	234.9	216.8
72.5°	126.0	144.3	168.3	205.5	244.5	264.8	258.9	242.3	221.0	203.9	186.8
75°	95.0	100.6	116.8	141.9	172.4	190.0	194.3	185.6	168.7	155.6	145.5
77.5°	70.2	73.6	81.4	94.5	114.5	130.0	136.5	135.4	123.8	116.2	106.8
80°	56.3	58.1	61.9	67.5	82.5	98.1	102.5	102.5	94.3	91.2	81.9
82.5°	42.7	44.1	46.4	49.5	56.5	70.1	75.0	76.0	70.8	66.7	59.4
85°	24.4	23.7	25.0	26.9	28.1	31.9	39.4	40.6	39.4	34.3	32.4
87.5°	9.4	9.8	9.7	9.0	9.5	9.8	12.1	14.5	12.6	11.3	10.4
90°	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2	0.9	1.5	2.2
92.5°	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3	5.3	5.2	5.1
95°	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1	15.2	13.3	11.3
97.5°	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0	28.5	23.1	17.7
100°	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6	38.6	30.6	22.6
102.5°	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6	58.9	57.2	55.5
105°	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1	81.9	83.6	85.4
107.5°	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4	103.9	105.3	106.7
110°	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8	118.0	119.3	120.5



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3	131.3	132.5	133.5
115°	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6	152.5	153.6	154.6
117.5°	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6	171.7	172.8	174.0
120°	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5	185.4	186.3	187.2
122.5°	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3	197.3	198.2	199.1
125°	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3	215.1	215.8	216.6
127.5°	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6	231.5	232.3	233.2
130°	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9	241.9	242.8	243.8
132.5°	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5	252.3	253.1	253.9
135°	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2	266.1	267.1	268.0
137.5°	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1	279.7	280.4	281.0
140°	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1	288.6	289.0	289.5
142.5°	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7	296.1	296.5	297.0
145°	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6	307.6	307.5	307.4
147.5°	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0	317.8	317.6	317.3
150°	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7	324.3	323.9	323.5
152.5°	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4	330.0	329.5	329.1
155°	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8	338.2	337.7	337.1
157.5°	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2	344.8	344.3	343.9
160°	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	348.7	348.3	348.0
162.5°	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4	352.0	351.7	351.3
165°	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9	356.6	356.2	355.9
167.5°	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3	360.0	359.6	359.2
170°	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2	361.8	361.5	361.2
172.5°	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5	363.1	362.7	362.4
175°	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1	364.7	364.3	363.9
177.5°	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3	365.0	364.7	364.4
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1772.6	1769.1	1762.6	1752.6	1746.6	1736.1	1729.1	1733.1	1734.1	1733.1	1732.1
5°	1725.0	1711.9	1693.8	1676.3	1660.0	1642.5	1632.6	1628.2	1619.4	1614.4	1611.9
7.5°	1667.4	1644.8	1619.2	1588.7	1562.8	1535.7	1521.8	1514.9	1497.1	1487.4	1478.8
10°	1624.4	1588.8	1563.2	1523.2	1498.8	1463.2	1438.8	1439.5	1415.1	1401.3	1391.4
12.5°	1577.0	1537.8	1495.2	1459.2	1425.4	1396.8	1367.3	1355.5	1329.7	1316.4	1289.4
15°	1498.2	1452.6	1407.6	1358.9	1324.5	1280.2	1237.7	1185.9	1143.9	1107.7	1097.7
17.5°	1412.3	1355.8	1310.7	1253.4	1194.6	1120.0	1070.7	1040.6	1015.4	996.3	982.0
20°	1353.2	1295.8	1247.7	1161.5	1082.1	1031.5	995.2	972.2	945.9	925.3	914.0
22.5°	1291.3	1231.3	1165.7	1069.5	1007.6	967.0	934.7	908.2	890.4	874.3	864.1
25°	1203.3	1137.7	1029.6	963.4	913.4	870.9	848.4	832.2	813.4	791.6	781.6
27.5°	1110.4	1006.0	928.4	879.1	831.4	803.8	783.6	759.4	742.6	732.7	722.4
30°	1040.9	936.5	876.0	822.2	788.5	757.8	734.1	720.4	704.1	687.2	680.4
32.5°	963.4	880.0	822.0	777.2	743.0	716.9	698.1	675.9	664.1	653.8	639.4
35°	867.2	804.0	751.0	714.8	682.2	661.0	639.1	626.0	604.8	596.1	590.4
37.5°	785.7	731.0	691.4	653.1	627.4	603.9	590.5	569.6	560.4	548.3	536.5
40°	739.7	686.0	647.9	616.6	587.9	570.4	553.5	536.7	522.9	517.3	503.0
42.5°	692.8	649.0	610.9	576.7	557.4	538.9	517.6	505.2	491.0	481.8	473.0
45°	627.9	589.1	556.7	528.6	507.3	488.0	474.2	453.6	445.5	427.4	419.9
47.5°	571.0	534.9	503.9	477.2	456.5	443.8	423.7	407.6	394.6	383.5	373.9
50°	530.4	500.4	470.4	446.7	428.0	409.9	389.2	381.1	361.1	355.5	349.8
52.5°	493.4	465.0	437.5	414.3	395.5	377.9	359.7	349.1	335.7	330.0	325.9
55°	441.7	414.3	388.0	367.4	348.6	330.5	319.3	306.1	299.9	295.5	290.5
57.5°	389.7	365.0	344.9	324.0	305.2	290.7	277.8	269.9	263.4	257.6	251.7
60°	356.8	333.0	314.9	295.5	276.1	264.2	254.3	244.9	237.4	228.7	226.2
62.5°	321.7	301.0	284.4	265.5	248.7	237.8	228.3	219.4	210.4	197.7	194.2
65°	273.6	257.4	239.9	224.3	209.3	198.7	184.9	175.0	171.2	169.9	169.3
67.5°	230.2	214.8	199.8	183.8	170.2	160.3	153.4	151.8	149.2	148.5	146.7
70°	201.2	186.8	171.8	156.8	143.7	141.9	139.3	136.8	133.7	132.5	131.2
72.5°	175.2	160.3	145.3	133.3	127.7	125.3	122.9	120.3	118.2	117.0	116.2
75°	134.4	120.6	110.6	106.2	103.1	101.2	97.4	95.6	94.3	92.5	91.8
77.5°	96.7	88.9	84.4	81.6	78.4	76.3	74.2	72.3	71.0	70.6	69.6
80°	73.7	70.0	66.9	63.1	61.9	59.4	58.7	56.8	57.5	55.6	55.6
82.5°	57.2	52.5	49.9	48.1	46.9	44.8	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.1	26.9	25.6	25.6	23.7	24.4	23.7	23.7	22.5	21.9
87.5°	10.0	9.7	8.8	8.9	9.0	8.6	8.6	8.2	8.2	8.3	7.8
90°	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9	6.1	6.4	6.7
92.5°	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4	6.6	6.7	6.8
95°	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8	11.2	11.4	11.6
97.5°	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3	14.4	14.7	14.8
100°	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0	16.5	16.9	17.2
102.5°	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6	17.3	17.9	18.3
105°	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4	18.0	18.7	19.1
107.5°	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2	20.5	19.9	19.6
110°	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4	28.5	22.7	19.9



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6	52.3	30.9	20.3
115°	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4	81.3	54.1	38.5
117.5°	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1	160.5	153.9	143.7
120°	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6	195.3	196.0	192.4
122.5°	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5	206.9	207.3	206.8
125°	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6	224.0	224.4	224.7
127.5°	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4	239.9	240.5	240.8
130°	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3	250.0	250.6	250.9
132.5°	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1	259.6	260.2	260.4
135°	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0	273.5	274.1	274.3
137.5°	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.1
140°	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2	294.7	295.2	295.4
142.5°	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9	302.4	302.9	303.0
145°	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7	313.1	313.5	313.6
147.5°	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0	322.4	322.7	322.7
150°	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8	328.2	328.6	328.6
152.5°	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1	333.5	333.8	333.8
155°	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2	340.6	341.0	340.9
157.5°	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3	346.7	347.0	347.0
160°	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8	350.1	350.4	350.4
162.5°	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9	353.4	353.8	353.8
165°	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9	357.3	357.8	357.8
167.5°	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3	360.7	361.1	361.0
170°	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0	362.4	362.8	362.7
172.5°	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2	363.6	364.0	364.0
175°	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6	365.0	365.4	365.3
177.5°	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8	365.1	365.4	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1726.6	1727.6	1726.2	1727.1	1726.2	1727.6	1726.6	1732.1	1733.1	1734.1	1733.1
5°	1608.7	1601.2	1600.0	1598.1	1600.0	1601.2	1608.7	1611.9	1614.4	1619.4	1628.2
7.5°	1468.1	1467.0	1463.9	1459.5	1463.9	1467.0	1468.1	1478.8	1487.4	1497.1	1514.9
10°	1377.6	1374.5	1373.9	1369.5	1373.9	1374.5	1377.6	1391.4	1401.3	1415.1	1439.5
12.5°	1271.6	1251.6	1249.4	1238.5	1249.4	1251.6	1271.6	1289.4	1316.4	1329.7	1355.5
15°	1082.7	1079.0	1066.5	1058.3	1066.5	1079.0	1082.7	1097.7	1107.7	1143.9	1185.9
17.5°	974.8	962.5	958.6	956.9	958.6	962.5	974.8	982.0	996.3	1015.4	1040.6
20°	905.3	894.1	892.2	891.0	892.2	894.1	905.3	914.0	925.3	945.9	972.2
22.5°	857.3	845.5	840.7	836.9	840.7	845.5	857.3	864.1	874.3	890.4	908.2
25°	775.3	770.9	768.5	767.2	768.5	770.9	775.3	781.6	791.6	813.4	832.2
27.5°	711.3	701.6	699.8	696.5	699.8	701.6	711.3	722.4	732.7	742.6	759.4
30°	674.7	671.6	667.2	663.5	667.2	671.6	674.7	680.4	687.2	704.1	720.4
32.5°	631.8	629.2	625.3	623.5	625.3	629.2	631.8	639.4	653.8	664.1	675.9
35°	584.2	575.4	571.7	566.1	571.7	575.4	584.2	590.4	596.1	604.8	626.0
37.5°	533.8	529.2	523.9	525.8	523.9	529.2	533.8	536.5	548.3	560.4	569.6
40°	494.8	491.7	490.5	489.8	490.5	491.7	494.8	503.0	517.3	522.9	536.7
42.5°	463.8	455.2	451.9	451.8	451.9	455.2	463.8	473.0	481.8	491.0	505.2
45°	416.7	408.6	403.0	403.6	403.0	408.6	416.7	419.9	427.4	445.5	453.6
47.5°	368.5	368.3	364.8	365.8	364.8	368.3	368.5	373.9	383.5	394.6	407.6
50°	345.5	341.8	339.2	339.9	339.2	341.8	345.5	349.8	355.5	361.1	381.1
52.5°	323.5	320.2	318.3	320.9	318.3	320.2	323.5	325.9	330.0	335.7	349.1
55°	287.4	283.6	283.0	282.4	283.0	283.6	287.4	290.5	295.5	299.9	306.1
57.5°	247.0	244.5	240.8	239.1	240.8	244.5	247.0	251.7	257.6	263.4	269.9
60°	218.0	213.0	206.8	206.2	206.8	213.0	218.0	226.2	228.7	237.4	244.9
62.5°	191.5	190.5	189.3	189.1	189.3	190.5	191.5	194.2	197.7	210.4	219.4
65°	168.0	167.5	168.0	168.7	168.0	167.5	168.0	169.3	169.9	171.2	175.0
67.5°	146.4	145.3	144.2	144.7	144.2	145.3	146.4	146.7	148.5	149.2	151.8
70°	130.0	129.3	128.7	128.7	128.7	129.3	130.0	131.2	132.5	133.7	136.8
72.5°	114.0	113.8	113.2	112.7	113.2	113.8	114.0	116.2	117.0	118.2	120.3
75°	91.2	89.9	89.9	89.9	89.9	89.9	91.2	91.8	92.5	94.3	95.6
77.5°	69.5	68.8	68.2	67.8	68.2	68.8	69.5	69.6	70.6	71.0	72.3
80°	55.0	54.4	53.7	53.7	53.7	54.4	55.0	55.6	55.6	57.5	56.8
82.5°	42.0	41.3	41.3	40.8	41.3	41.3	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.2	22.5	23.7	22.5	23.2	22.5	21.9	22.5	23.7	23.7
87.5°	7.8	7.3	7.9	7.4	7.9	7.3	7.8	7.8	8.3	8.2	8.2
90°	6.8	6.8	7.0	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9
92.5°	6.9	7.0	7.0	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4
95°	11.5	11.4	11.4	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8
97.5°	14.9	15.0	15.1	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3
100°	17.3	17.4	17.5	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0
102.5°	18.4	18.6	18.8	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6
105°	19.3	19.6	19.8	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4
107.5°	19.9	20.1	20.4	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2
110°	20.1	20.4	20.6	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	20.6	20.9	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6
115°	34.2	30.1	25.8	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4
117.5°	129.9	116.0	102.2	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1
120°	184.5	176.6	168.7	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6
122.5°	205.3	203.7	202.2	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5
125°	224.9	225.0	225.2	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6
127.5°	240.9	240.9	240.9	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4
130°	250.9	250.8	250.8	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3
132.5°	260.3	260.3	260.2	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1
135°	274.3	274.1	274.0	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0
137.5°	287.0	286.8	286.6	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8
140°	295.1	294.8	294.5	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2
142.5°	302.6	302.4	302.1	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9
145°	313.2	313.0	312.7	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7
147.5°	322.5	322.2	322.0	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0
150°	328.3	328.0	327.7	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8
152.5°	333.4	333.0	332.6	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1
155°	340.4	340.0	339.5	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2
157.5°	346.5	346.1	345.6	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3
160°	350.0	349.6	349.2	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8
162.5°	353.2	352.7	352.2	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9
165°	357.3	356.9	356.5	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9
167.5°	360.5	360.0	359.5	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3
170°	362.2	361.7	361.2	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0
172.5°	363.5	363.0	362.4	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2
175°	364.8	364.2	363.5	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6
177.5°	364.9	364.5	364.1	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1729.1	1736.1	1746.6	1752.6	1762.6	1769.1	1772.6	1779.1	1782.6	1795.1	1808.1
5°	1632.6	1642.5	1660.0	1676.3	1693.8	1711.9	1725.0	1740.0	1753.7	1777.4	1802.5
7.5°	1521.8	1535.7	1562.8	1588.7	1619.2	1644.8	1667.4	1693.0	1715.9	1749.9	1785.3
10°	1438.8	1463.2	1498.8	1523.2	1563.2	1588.8	1624.4	1652.5	1684.4	1729.3	1769.4
12.5°	1367.3	1396.8	1425.4	1459.2	1495.2	1537.8	1577.0	1613.1	1650.9	1697.4	1744.3
15°	1237.7	1280.2	1324.5	1358.9	1407.6	1452.6	1498.2	1546.9	1593.2	1648.8	1710.0
17.5°	1070.7	1120.0	1194.6	1253.4	1310.7	1355.8	1412.3	1471.2	1525.7	1592.8	1660.9
20°	995.2	1031.5	1082.1	1161.5	1247.7	1295.8	1353.2	1418.2	1480.7	1553.8	1626.9
22.5°	934.7	967.0	1007.6	1069.5	1165.7	1231.3	1291.3	1357.2	1429.7	1504.3	1585.4
25°	848.4	870.9	913.4	963.4	1029.6	1137.7	1203.3	1269.5	1348.3	1428.2	1520.7
27.5°	783.6	803.8	831.4	879.1	928.4	1006.0	1110.4	1182.6	1261.0	1351.0	1447.0
30°	734.1	757.8	788.5	822.2	876.0	936.5	1040.9	1124.6	1202.1	1294.5	1397.0
32.5°	698.1	716.9	743.0	777.2	822.0	880.0	963.4	1065.1	1140.6	1238.0	1345.0
35°	639.1	661.0	682.2	714.8	751.0	804.0	867.2	975.9	1050.8	1147.0	1254.5
37.5°	590.5	603.9	627.4	653.1	691.4	731.0	785.7	883.2	964.3	1058.7	1168.7
40°	553.5	570.4	587.9	616.6	647.9	686.0	739.7	812.2	905.3	997.8	1105.2
42.5°	517.6	538.9	557.4	576.7	610.9	649.0	692.8	754.2	849.3	936.8	1041.2
45°	474.2	488.0	507.3	528.6	556.7	589.1	627.9	681.6	772.8	848.4	946.6
47.5°	423.7	443.8	456.5	477.2	503.9	534.9	571.0	617.4	691.2	762.1	853.0
50°	389.2	409.9	428.0	446.7	470.4	500.4	530.4	575.4	634.8	709.1	794.1
52.5°	359.7	377.9	395.5	414.3	437.5	465.0	493.4	533.0	583.8	652.2	734.6
55°	319.3	330.5	348.6	367.4	388.0	414.3	441.7	474.8	518.5	576.0	642.9
57.5°	277.8	290.7	305.2	324.0	344.9	365.0	389.7	419.7	454.2	506.2	563.5
60°	254.3	264.2	276.1	295.5	314.9	333.0	356.8	381.7	414.3	459.2	507.9
62.5°	228.3	237.8	248.7	265.5	284.4	301.0	321.7	348.2	375.8	416.7	459.4
65°	184.9	198.7	209.3	224.3	239.9	257.4	273.6	294.9	319.3	351.7	389.9
67.5°	153.4	160.3	170.2	183.8	199.8	214.8	230.2	246.8	267.9	293.0	323.3
70°	139.3	141.9	143.7	156.8	171.8	186.8	201.2	216.8	234.9	255.5	281.8
72.5°	122.9	125.3	127.7	133.3	145.3	160.3	175.2	186.8	203.9	221.0	242.3
75°	97.4	101.2	103.1	106.2	110.6	120.6	134.4	145.5	155.6	168.7	185.6
77.5°	74.2	76.3	78.4	81.6	84.4	88.9	96.7	106.8	116.2	123.8	135.4
80°	58.7	59.4	61.9	63.1	66.9	70.0	73.7	81.9	91.2	94.3	102.5
82.5°	44.3	44.8	46.9	48.1	49.9	52.5	57.2	59.4	66.7	70.8	76.0
85°	24.4	23.7	25.6	25.6	26.9	28.1	29.4	32.4	34.3	39.4	40.6
87.5°	8.6	8.6	9.0	8.9	8.8	9.7	10.0	10.4	11.3	12.6	14.5
90°	5.5	5.3	4.8	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2
92.5°	6.3	6.1	5.9	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3
95°	10.6	10.3	9.9	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1
97.5°	14.0	13.8	12.8	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0
100°	15.5	15.0	14.0	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6
102.5°	16.1	15.4	23.8	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6
105°	16.7	16.1	32.0	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1
107.5°	21.9	22.5	41.7	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4
110°	40.3	46.1	63.0	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	95.0	116.3	120.5	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3
115°	135.5	162.7	161.2	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6
117.5°	173.6	180.2	179.1	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6
120°	194.0	193.2	192.2	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5
122.5°	206.1	205.7	204.6	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3
125°	223.1	222.7	221.6	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3
127.5°	238.7	238.1	237.3	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6
130°	248.7	248.1	247.4	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9
132.5°	258.5	258.0	257.3	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5
135°	272.4	271.8	271.3	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2
137.5°	285.3	284.7	284.1	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1
140°	293.7	293.1	292.5	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1
142.5°	301.4	300.9	300.2	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7
145°	312.3	311.9	310.9	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6
147.5°	321.7	321.5	320.5	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0
150°	327.5	327.2	326.2	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7
152.5°	332.7	332.4	331.5	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4
155°	339.9	339.5	338.8	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8
157.5°	345.8	345.4	345.0	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2
160°	349.4	349.0	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0
162.5°	352.6	352.2	351.9	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4
165°	356.5	356.1	356.0	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9
167.5°	359.9	359.5	359.3	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3
170°	361.6	361.2	361.0	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2
172.5°	362.8	362.4	362.3	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5
175°	364.2	363.8	363.7	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1
177.5°	364.4	364.1	364.0	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331735-930

CATALOG NUMBER: SA2XXRDIP-C1005D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1808.6	1810.0	1820.1	1824.6	1833.6	1837.0	1841.1	1840.0	1840.0	1842.1	1856.0
5°	1812.5	1825.0	1843.7	1861.8	1879.3	1894.3	1904.3	1914.3	1918.1	1936.2	1952.4
7.5°	1806.0	1829.0	1859.9	1887.6	1920.7	1946.5	1968.1	1987.4	2000.7	2027.0	2054.0
10°	1797.5	1829.9	1864.9	1900.5	1946.1	1980.5	2015.5	2042.4	2051.1	2090.5	2113.0
12.5°	1780.5	1824.0	1868.4	1914.6	1959.2	2006.5	2045.0	2071.8	2102.6	2138.0	2179.5
15°	1755.0	1805.0	1863.0	1922.4	1986.2	2043.6	2084.9	2131.7	2165.4	2204.2	2240.4
17.5°	1718.4	1782.7	1856.6	1925.3	1999.0	2060.8	2117.5	2162.4	2186.2	2208.3	2213.7
20°	1689.4	1758.8	1845.6	1926.8	2000.5	2071.8	2127.9	2165.4	2171.7	2172.3	2139.2
22.5°	1657.9	1736.3	1827.1	1910.3	1998.5	2077.7	2121.5	2137.5	2112.7	2070.4	2006.3
25°	1600.0	1690.6	1796.2	1891.2	1987.4	2062.4	2077.4	2049.3	1962.4	1871.2	1755.6
27.5°	1537.3	1639.2	1752.3	1857.9	1960.4	2006.9	1974.5	1873.2	1716.8	1580.8	1416.0
30°	1491.3	1605.7	1716.9	1834.9	1929.9	1949.9	1875.6	1726.2	1543.8	1338.9	1174.6
32.5°	1438.8	1558.7	1680.9	1803.0	1882.4	1863.0	1740.1	1556.3	1342.4	1140.9	985.6
35°	1363.8	1487.6	1619.4	1741.9	1792.4	1708.1	1524.4	1285.2	1066.5	878.4	771.6
37.5°	1277.2	1412.0	1549.1	1661.5	1657.9	1517.4	1267.1	1020.1	836.3	725.1	649.0
40°	1215.8	1352.0	1500.1	1595.1	1554.4	1371.3	1100.2	867.2	732.9	644.2	588.6
42.5°	1156.8	1293.6	1440.6	1516.0	1445.4	1220.4	950.3	767.7	656.9	587.7	542.6
45°	1056.5	1200.8	1337.0	1378.8	1252.6	1004.6	768.5	636.0	562.3	511.0	479.8
47.5°	958.4	1100.3	1224.7	1225.4	1054.8	814.7	648.2	550.4	487.5	447.8	425.1
50°	898.4	1033.4	1137.7	1121.4	927.8	724.7	579.8	495.5	443.0	412.4	388.6
52.5°	831.0	961.9	1052.2	1006.0	820.4	637.7	518.3	447.4	404.0	377.3	356.1
55°	732.9	849.1	912.8	842.8	669.1	530.4	438.0	382.4	349.8	327.3	309.2
57.5°	636.5	732.4	772.5	691.0	551.1	439.9	370.5	328.7	296.5	280.4	271.0
60°	576.0	657.9	686.0	596.1	479.2	384.8	328.0	289.3	265.5	254.9	245.6
62.5°	516.6	583.4	595.0	512.6	417.8	336.9	288.0	255.3	239.5	229.4	220.5
65°	428.6	476.7	471.1	404.9	330.5	267.4	231.8	211.8	199.9	185.6	169.9
67.5°	352.9	382.2	364.5	314.9	252.3	207.8	184.6	169.4	154.7	141.0	137.5
70°	304.9	321.7	303.0	257.4	206.8	174.3	155.6	137.5	128.7	125.6	119.9
72.5°	258.9	264.8	244.5	205.5	168.3	144.3	126.0	115.9	111.2	108.6	104.9
75°	194.3	190.0	172.4	141.9	116.8	100.6	95.0	91.2	88.1	85.6	83.7
77.5°	136.5	130.0	114.5	94.5	81.4	73.6	70.2	68.2	66.7	65.5	63.6
80°	102.5	98.1	82.5	67.5	61.9	58.1	56.3	53.7	53.7	52.5	50.6
82.5°	75.0	70.1	56.5	49.5	46.4	44.1	42.7	41.3	40.8	41.0	39.6
85°	39.4	31.9	28.1	26.9	25.0	23.7	24.4	23.2	23.2	23.2	22.5
87.5°	12.1	9.8	9.5	9.0	9.7	9.8	9.4	9.5	10.0	9.6	10.2
90°	0.9	1.5	2.2	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9
92.5°	5.3	5.2	5.1	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4
95°	15.2	13.3	11.3	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8
97.5°	28.5	23.1	17.7	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3
100°	38.6	30.6	22.6	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0
102.5°	58.9	57.2	55.5	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6
105°	81.9	83.6	85.4	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4
107.5°	103.9	105.3	106.7	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2
110°	118.0	119.3	120.5	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.3	132.5	133.5	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6
115°	152.5	153.6	154.6	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4
117.5°	171.7	172.8	174.0	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1
120°	185.4	186.3	187.2	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6
122.5°	197.3	198.2	199.1	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5
125°	215.1	215.8	216.6	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6
127.5°	231.5	232.3	233.2	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4
130°	241.9	242.8	243.8	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3
132.5°	252.3	253.1	253.9	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1
135°	266.1	267.1	268.0	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0
137.5°	279.7	280.4	281.0	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8
140°	288.6	289.0	289.5	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2
142.5°	296.1	296.5	297.0	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9
145°	307.6	307.5	307.4	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7
147.5°	317.8	317.6	317.3	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0
150°	324.3	323.9	323.5	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8
152.5°	330.0	329.5	329.1	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1
155°	338.2	337.7	337.1	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2
157.5°	344.8	344.3	343.9	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3
160°	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8
162.5°	352.0	351.7	351.3	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9
165°	356.6	356.2	355.9	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9
167.5°	360.0	359.6	359.2	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3
170°	361.8	361.5	361.2	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0
172.5°	363.1	362.7	362.4	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2
175°	364.7	364.3	363.9	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6
177.5°	365.0	364.7	364.4	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1861.1	1867.5	1870.5	1870.5	1874.0	1872.6	1871.0
5°	1968.1	1979.9	1982.4	1993.7	2001.7	1999.3	2000.5
7.5°	2074.4	2093.4	2112.4	2121.0	2122.3	2127.4	2129.2
10°	2139.8	2155.5	2184.8	2180.4	2202.3	2214.8	2194.2
12.5°	2202.8	2223.9	2244.3	2249.9	2262.3	2266.3	2258.1
15°	2259.8	2271.0	2272.3	2269.1	2272.9	2269.8	2257.9
17.5°	2206.5	2188.3	2151.3	2133.8	2119.9	2099.5	2091.2
20°	2118.6	2064.8	2002.4	1977.4	1948.0	1890.5	1904.3
22.5°	1928.7	1867.4	1805.0	1732.0	1697.1	1642.7	1639.4
25°	1633.1	1527.5	1411.4	1330.2	1282.6	1228.3	1204.5
27.5°	1269.7	1136.9	1041.6	993.4	949.5	906.4	904.7
30°	1030.9	930.9	857.2	816.0	789.0	770.9	774.7
32.5°	868.9	800.5	750.7	716.5	696.6	683.0	682.7
35°	710.4	663.5	631.6	617.3	602.9	592.9	593.5
37.5°	607.9	579.8	562.1	546.2	537.2	532.3	529.5
40°	555.4	532.3	518.5	509.2	501.7	494.8	493.6
42.5°	514.0	494.8	481.1	473.7	466.7	461.9	460.6
45°	456.1	440.4	428.0	419.9	416.7	412.4	412.4
47.5°	405.7	390.4	380.6	375.5	370.1	367.2	367.1
50°	371.8	359.9	351.1	348.0	343.6	341.8	341.1
52.5°	341.3	332.4	326.1	324.0	322.1	319.8	320.2
55°	299.9	294.9	292.4	290.5	287.4	283.6	286.2
57.5°	265.1	260.8	254.0	248.2	245.3	242.6	243.7
60°	240.5	231.8	223.1	216.1	214.3	208.6	208.6
62.5°	209.5	197.3	186.5	182.7	180.8	178.2	177.7
65°	161.2	156.2	153.7	151.2	149.9	149.9	148.7
67.5°	133.5	131.6	128.8	128.2	126.9	126.6	126.2
70°	118.1	115.6	114.3	113.7	112.4	113.1	111.2
72.5°	103.1	101.1	100.9	99.2	98.5	98.6	97.2
75°	81.2	81.2	80.6	80.0	78.8	78.1	78.8
77.5°	62.5	62.6	61.5	61.4	61.2	61.4	60.7
80°	50.0	50.6	50.0	49.3	48.8	49.3	48.8
82.5°	39.5	38.6	38.5	38.4	38.2	37.8	37.7
85°	22.5	23.2	22.5	21.9	21.9	21.9	22.5
87.5°	9.7	9.8	9.9	9.9	9.9	9.9	9.5
90°	6.1	6.4	6.7	6.8	6.8	7.0	7.1
92.5°	6.6	6.7	6.8	6.9	7.0	7.0	7.1
95°	11.2	11.4	11.6	11.5	11.4	11.4	11.3
97.5°	14.4	14.7	14.8	14.9	15.0	15.1	15.2
100°	16.5	16.9	17.2	17.3	17.4	17.5	17.7
102.5°	17.3	17.9	18.3	18.4	18.6	18.8	18.9
105°	18.0	18.7	19.1	19.3	19.6	19.8	20.1
107.5°	20.5	19.9	19.6	19.9	20.1	20.4	20.6
110°	28.5	22.7	19.9	20.1	20.4	20.6	20.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.3	30.9	20.3	20.5	20.6	20.9	21.0
115°	81.3	54.1	38.5	34.2	30.1	25.8	21.6
117.5°	160.5	153.9	143.7	129.9	116.0	102.2	88.3
120°	195.3	196.0	192.4	184.5	176.6	168.7	160.8
122.5°	206.9	207.3	206.8	205.3	203.7	202.2	200.6
125°	224.0	224.4	224.7	224.9	225.0	225.2	225.3
127.5°	239.9	240.5	240.8	240.9	240.9	240.9	241.0
130°	250.0	250.6	250.9	250.9	250.8	250.8	250.7
132.5°	259.6	260.2	260.4	260.3	260.3	260.2	260.2
135°	273.5	274.1	274.3	274.3	274.1	274.0	273.9
137.5°	286.4	287.0	287.1	287.0	286.8	286.6	286.4
140°	294.7	295.2	295.4	295.1	294.8	294.5	294.2
142.5°	302.4	302.9	303.0	302.6	302.4	302.1	301.7
145°	313.1	313.5	313.6	313.2	313.0	312.7	312.3
147.5°	322.4	322.7	322.7	322.5	322.2	322.0	321.7
150°	328.2	328.6	328.6	328.3	328.0	327.7	327.4
152.5°	333.5	333.8	333.8	333.4	333.0	332.6	332.2
155°	340.6	341.0	340.9	340.4	340.0	339.5	339.0
157.5°	346.7	347.0	347.0	346.5	346.1	345.6	345.2
160°	350.1	350.4	350.4	350.0	349.6	349.2	348.8
162.5°	353.4	353.8	353.8	353.2	352.7	352.2	351.7
165°	357.3	357.8	357.8	357.3	356.9	356.5	356.1
167.5°	360.7	361.1	361.0	360.5	360.0	359.5	358.9
170°	362.4	362.8	362.7	362.2	361.7	361.2	360.6
172.5°	363.6	364.0	364.0	363.5	363.0	362.4	361.9
175°	365.0	365.4	365.3	364.8	364.2	363.5	363.0
177.5°	365.1	365.4	365.3	364.9	364.5	364.1	363.7
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)