

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: P331741-930

Luminaire Tested: **SA2XXRDIP-C1005D530U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331741-930
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-C1005D530U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4832.2 lumens
Efficiency: N/A
Efficacy: 87.7 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

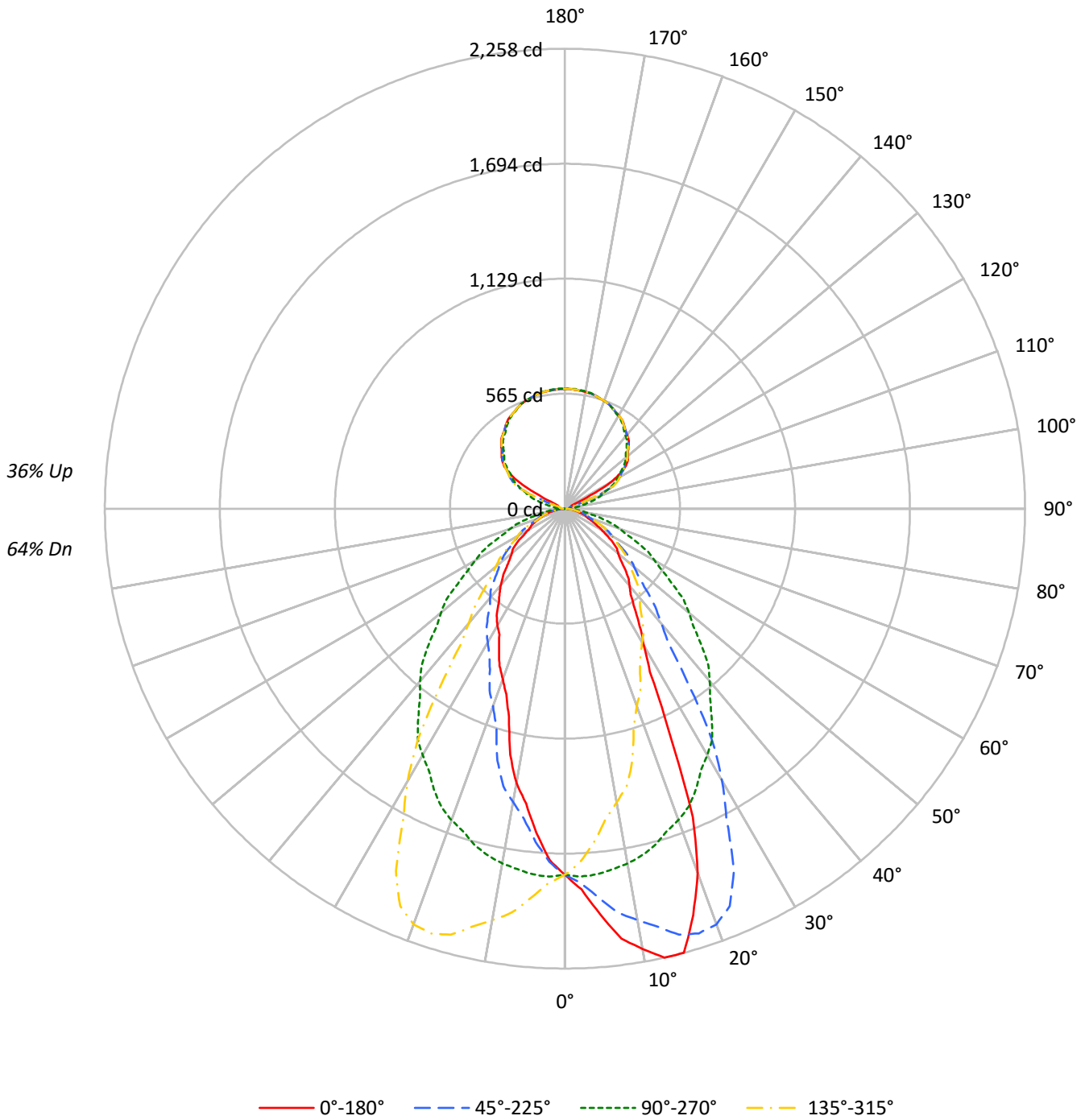
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	102	98	94	91	96	92	89	86	82	79	77	72	70	69	63	62	60	56
2	94	87	81	76	88	82	77	73	73	69	66	64	61	59	57	54	53	49
3	86	77	70	65	81	73	67	62	65	60	56	58	54	51	51	48	46	43
4	80	69	62	56	75	66	59	54	59	53	49	52	48	45	46	43	41	38
5	74	62	55	49	69	59	52	47	53	48	43	48	43	40	43	39	36	33
6	68	57	49	43	64	54	47	42	49	43	39	44	39	36	39	35	33	30
7	64	52	44	39	60	49	42	37	45	39	35	40	36	32	36	32	30	27
8	59	47	40	35	56	45	38	34	41	35	31	37	32	29	33	30	27	25
9	56	44	36	31	52	42	35	30	38	32	28	34	30	27	31	27	25	23
10	52	40	33	29	49	39	32	28	35	30	26	32	28	24	29	25	23	21

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	3.5
10°-20°	474.9	9.8
20°-30°	612.0	12.7
30°-40°	581.6	12.0
40°-50°	498.2	10.3
50°-60°	379.4	7.9
60°-70°	239.9	5.0
70°-80°	119.8	2.5
80°-90°	32.6	0.7
90°-100°	19.6	0.4
100°-110°	71.9	1.5
110°-120°	192.3	4.0
120°-130°	317.4	6.6
130°-140°	337.5	7.0
140°-150°	313.7	6.5
150°-160°	252.2	5.2
160°-170°	162.5	3.4
170°-180°	55.9	1.2
0°-30°	1257.4	26.0
0°-40°	1839.0	38.1
0°-60°	2716.7	56.2
0°-90°	3109.0	64.3
90°-120°	283.8	5.9
90°-150°	1252.5	25.9
90°-180°	1723.0	35.7
0°-180°	4832.2	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°	12	0	12	0	12	6
95°	18	28	18	28	18	17
105°	32	129	32	129	32	34
115°	35	245	35	245	35	87
125°	364	346	364	346	364	315
135°	442	428	442	428	442	341
145°	504	496	504	496	504	315
155°	547	547	547	547	547	252
165°	575	576	575	576	575	162
175°	586	589	586	589	586	56
180°	588	588	588	588	588	



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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°	10.3	10.8	10.7	10.7	10.7	10.6	10.5	10.9	10.3	10.7	10.0
90°	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5	9.0	8.5	7.7
92.5°	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4	10.1	9.9	9.5
95°	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5	17.0	16.6	15.9
97.5°	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0	22.6	22.2	20.7
100°	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8	25.0	24.2	22.7
102.5°	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9	25.9	24.9	38.4
105°	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0	27.0	25.9	51.8
107.5°	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2	35.3	36.4	67.3
110°	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5	65.0	74.4	101.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8	153.3	187.8	194.5
115°	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0	218.7	262.5	260.2
117.5°	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6	280.2	290.7	289.2
120°	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1	313.0	311.9	310.1
122.5°	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3	332.6	332.0	330.1
125°	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9	360.2	359.5	357.8
127.5°	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3	385.3	384.4	383.0
130°	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4	401.5	400.4	399.3
132.5°	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2	417.3	416.4	415.3
135°	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6	439.6	438.6	437.8
137.5°	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4	460.5	459.5	458.5
140°	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8	474.0	473.1	472.1
142.5°	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3	486.5	485.8	484.5
145°	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7	504.0	503.4	501.7
147.5°	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8	519.3	518.9	517.2
150°	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1	528.6	528.0	526.5
152.5°	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7	537.1	536.5	535.1
155°	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2	548.6	548.0	546.9
157.5°	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8	558.2	557.6	556.8
160°	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4	563.9	563.4	562.8
162.5°	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7	569.1	568.4	567.9
165°	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2	575.5	574.8	574.5
167.5°	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5	580.8	580.2	579.9
170°	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2	583.6	582.9	582.7
172.5°	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3	585.6	585.0	584.7
175°	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5	587.8	587.2	586.9
177.5°	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7	588.2	587.7	587.6
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



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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°	9.9	10.3	10.1	9.4	9.7	10.0	12.3	14.6	12.8	11.5	10.7
90°	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6	24.5	21.4	18.3
97.5°	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9	46.1	37.3	28.5
100°	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3	62.4	49.4	36.4
102.5°	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8	95.1	92.3	89.5
105°	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3	132.2	135.0	137.9
107.5°	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3	167.6	169.9	172.2
110°	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5	190.5	192.5	194.4



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3	212.1	213.8	215.6
115°	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7	246.2	247.9	249.5
117.5°	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4	277.2	279.0	280.8
120°	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8	299.2	300.7	302.1
122.5°	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9	318.4	319.9	321.4
125°	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9	347.2	348.4	349.6
127.5°	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2	373.6	375.0	376.3
130°	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9	390.4	391.9	393.5
132.5°	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9	407.2	408.5	409.8
135°	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0	429.6	431.0	432.6
137.5°	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5	451.4	452.5	453.6
140°	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0	465.8	466.6	467.3
142.5°	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3	478.0	478.7	479.3
145°	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5	496.4	496.4	496.3
147.5°	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3	512.9	512.6	512.3
150°	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2	523.5	522.9	522.2
152.5°	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4	532.6	531.9	531.2
155°	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7	545.9	545.0	544.2
157.5°	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2	556.5	555.8	555.1
160°	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	562.8	562.2	561.7
162.5°	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8	568.2	567.6	567.0
165°	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1	575.5	574.9	574.4
167.5°	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6	581.0	580.4	579.8
170°	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6	584.1	583.5	582.9
172.5°	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7	586.1	585.5	585.0
175°	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3	588.6	588.0	587.3
177.5°	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7	589.2	588.6	588.2
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331741-930
 CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-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°	10.4	10.1	9.2	9.4	9.5	9.2	9.3	8.9	9.0	9.0	8.6
90°	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5	9.9	10.4	10.8
92.5°	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4	10.6	10.8	11.0
95°	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5	18.0	18.5	18.7
97.5°	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0	23.3	23.7	24.0
100°	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8	26.5	27.3	27.7
102.5°	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9	27.9	28.9	29.5
105°	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0	29.1	30.1	30.8
107.5°	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2	33.2	32.1	31.8
110°	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5	46.1	36.6	32.1



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8	84.3	49.8	32.8
115°	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0	131.2	87.4	62.1
117.5°	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6	259.0	248.4	232.0
120°	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1	315.3	316.4	310.6
122.5°	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3	334.0	334.7	333.8
125°	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9	361.5	362.2	362.6
127.5°	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3	387.3	388.2	388.7
130°	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4	403.5	404.6	405.0
132.5°	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2	419.1	420.0	420.3
135°	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6	441.5	442.5	442.9
137.5°	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4	462.3	463.3	463.5
140°	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8	475.6	476.5	476.7
142.5°	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3	488.0	488.9	489.0
145°	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7	505.3	506.0	506.1
147.5°	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8	520.3	520.8	520.8
150°	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1	529.7	530.3	530.4
152.5°	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7	538.3	538.8	538.7
155°	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2	549.8	550.3	550.2
157.5°	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8	559.5	560.1	560.1
160°	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4	565.0	565.6	565.6
162.5°	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7	570.4	571.0	571.0
165°	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2	576.8	577.5	577.5
167.5°	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5	582.2	582.9	582.8
170°	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2	584.9	585.5	585.5
172.5°	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3	586.9	587.6	587.5
175°	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5	589.1	589.8	589.7
177.5°	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7	589.3	589.8	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-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°	8.6	8.2	8.7	8.3	8.7	8.2	8.6	8.6	9.0	9.0	8.9
90°	10.9	11.1	11.3	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4
95°	18.6	18.5	18.4	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5
97.5°	24.1	24.2	24.3	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0
100°	28.0	28.1	28.3	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8
102.5°	29.8	30.0	30.2	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9
105°	31.2	31.6	32.0	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0
107.5°	32.1	32.5	32.9	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2
110°	32.4	32.9	33.3	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.0	33.3	33.7	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8
115°	55.3	48.5	41.7	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0
117.5°	209.5	187.2	164.9	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6
120°	297.8	285.1	272.3	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1
122.5°	331.3	328.8	326.4	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3
125°	363.0	363.2	363.5	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9
127.5°	388.8	388.9	388.9	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3
130°	404.9	404.8	404.7	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4
132.5°	420.2	420.1	420.0	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2
135°	442.6	442.5	442.3	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6
137.5°	463.2	462.8	462.6	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4
140°	476.2	475.8	475.3	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8
142.5°	488.5	488.0	487.5	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3
145°	505.6	505.2	504.7	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7
147.5°	520.5	520.1	519.7	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8
150°	529.9	529.4	528.9	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1
152.5°	538.2	537.5	536.9	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7
155°	549.4	548.7	548.0	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2
157.5°	559.3	558.6	557.8	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8
160°	564.9	564.3	563.5	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4
162.5°	570.1	569.3	568.5	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7
165°	576.8	576.2	575.5	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2
167.5°	581.9	581.1	580.2	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5
170°	584.6	583.8	582.9	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2
172.5°	586.7	585.8	585.0	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3
175°	588.7	587.7	586.9	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5
177.5°	589.1	588.3	587.7	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-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°	9.3	9.2	9.5	9.4	9.2	10.1	10.4	10.7	11.5	12.8	14.6
90°	9.0	8.5	7.7	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4
92.5°	10.1	9.9	9.5	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6
95°	17.0	16.6	15.9	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6
97.5°	22.6	22.2	20.7	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9
100°	25.0	24.2	22.7	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3
102.5°	25.9	24.9	38.4	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8
105°	27.0	25.9	51.8	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3
107.5°	35.3	36.4	67.3	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3
110°	65.0	74.4	101.7	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	153.3	187.8	194.5	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3
115°	218.7	262.5	260.2	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7
117.5°	280.2	290.7	289.2	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4
120°	313.0	311.9	310.1	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8
122.5°	332.6	332.0	330.1	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9
125°	360.2	359.5	357.8	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9
127.5°	385.3	384.4	383.0	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2
130°	401.5	400.4	399.3	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9
132.5°	417.3	416.4	415.3	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9
135°	439.6	438.6	437.8	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0
137.5°	460.5	459.5	458.5	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5
140°	474.0	473.1	472.1	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0
142.5°	486.5	485.8	484.5	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3
145°	504.0	503.4	501.7	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5
147.5°	519.3	518.9	517.2	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3
150°	528.6	528.0	526.5	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2
152.5°	537.1	536.5	535.1	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4
155°	548.6	548.0	546.9	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7
157.5°	558.2	557.6	556.8	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2
160°	563.9	563.4	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4
162.5°	569.1	568.4	567.9	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8
165°	575.5	574.8	574.5	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1
167.5°	580.8	580.2	579.9	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6
170°	583.6	582.9	582.7	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6
172.5°	585.6	585.0	584.7	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7
175°	587.8	587.2	586.9	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3
177.5°	588.2	587.7	587.6	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331741-930

CATALOG NUMBER: SA2XXRDIP-C1005D530U930-4F0-1E-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°	12.3	10.0	9.7	9.4	10.1	10.3	9.9	10.0	10.7	10.3	10.9
90°	1.5	2.5	3.5	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4
95°	24.5	21.4	18.3	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5
97.5°	46.1	37.3	28.5	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0
100°	62.4	49.4	36.4	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8
102.5°	95.1	92.3	89.5	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9
105°	132.2	135.0	137.9	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0
107.5°	167.6	169.9	172.2	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2
110°	190.5	192.5	194.4	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.1	213.8	215.6	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8
115°	246.2	247.9	249.5	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0
117.5°	277.2	279.0	280.8	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6
120°	299.2	300.7	302.1	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1
122.5°	318.4	319.9	321.4	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3
125°	347.2	348.4	349.6	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9
127.5°	373.6	375.0	376.3	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3
130°	390.4	391.9	393.5	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4
132.5°	407.2	408.5	409.8	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2
135°	429.6	431.0	432.6	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6
137.5°	451.4	452.5	453.6	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4
140°	465.8	466.6	467.3	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8
142.5°	478.0	478.7	479.3	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3
145°	496.4	496.4	496.3	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7
147.5°	512.9	512.6	512.3	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8
150°	523.5	522.9	522.2	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1
152.5°	532.6	531.9	531.2	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7
155°	545.9	545.0	544.2	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2
157.5°	556.5	555.8	555.1	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8
160°	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4
162.5°	568.2	567.6	567.0	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7
165°	575.5	574.9	574.4	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2
167.5°	581.0	580.4	579.8	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5
170°	584.1	583.5	582.9	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2
172.5°	586.1	585.5	585.0	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3
175°	588.6	588.0	587.3	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5
177.5°	589.2	588.6	588.2	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



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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°	10.5	10.6	10.7	10.7	10.7	10.8	10.3
90°	9.9	10.4	10.8	10.9	11.1	11.3	11.5
92.5°	10.6	10.8	11.0	11.2	11.3	11.4	11.5
95°	18.0	18.5	18.7	18.6	18.5	18.4	18.3
97.5°	23.3	23.7	24.0	24.1	24.2	24.3	24.5
100°	26.5	27.3	27.7	28.0	28.1	28.3	28.5
102.5°	27.9	28.9	29.5	29.8	30.0	30.2	30.6
105°	29.1	30.1	30.8	31.2	31.6	32.0	32.4
107.5°	33.2	32.1	31.8	32.1	32.5	32.9	33.3
110°	46.1	36.6	32.1	32.4	32.9	33.3	33.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.3	49.8	32.8	33.0	33.3	33.7	33.9
115°	131.2	87.4	62.1	55.3	48.5	41.7	34.9
117.5°	259.0	248.4	232.0	209.5	187.2	164.9	142.4
120°	315.3	316.4	310.6	297.8	285.1	272.3	259.5
122.5°	334.0	334.7	333.8	331.3	328.8	326.4	323.8
125°	361.5	362.2	362.6	363.0	363.2	363.5	363.8
127.5°	387.3	388.2	388.7	388.8	388.9	388.9	389.0
130°	403.5	404.6	405.0	404.9	404.8	404.7	404.6
132.5°	419.1	420.0	420.3	420.2	420.1	420.0	420.0
135°	441.5	442.5	442.9	442.6	442.5	442.3	442.1
137.5°	462.3	463.3	463.5	463.2	462.8	462.6	462.3
140°	475.6	476.5	476.7	476.2	475.8	475.3	474.8
142.5°	488.0	488.9	489.0	488.5	488.0	487.5	487.1
145°	505.3	506.0	506.1	505.6	505.2	504.7	504.2
147.5°	520.3	520.8	520.8	520.5	520.1	519.7	519.3
150°	529.7	530.3	530.4	529.9	529.4	528.9	528.5
152.5°	538.3	538.8	538.7	538.2	537.5	536.9	536.3
155°	549.8	550.3	550.2	549.4	548.7	548.0	547.1
157.5°	559.5	560.1	560.1	559.3	558.6	557.8	557.1
160°	565.0	565.6	565.6	564.9	564.3	563.5	562.9
162.5°	570.4	571.0	571.0	570.1	569.3	568.5	567.7
165°	576.8	577.5	577.5	576.8	576.2	575.5	574.8
167.5°	582.2	582.9	582.8	581.9	581.1	580.2	579.4
170°	584.9	585.5	585.5	584.6	583.8	582.9	582.0
172.5°	586.9	587.6	587.5	586.7	585.8	585.0	584.1
175°	589.1	589.8	589.7	588.7	587.7	586.9	585.9
177.5°	589.3	589.8	589.7	589.1	588.3	587.7	587.0
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0

(END OF REPORT)