

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: P331707-830

Luminaire Tested: **SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331707-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

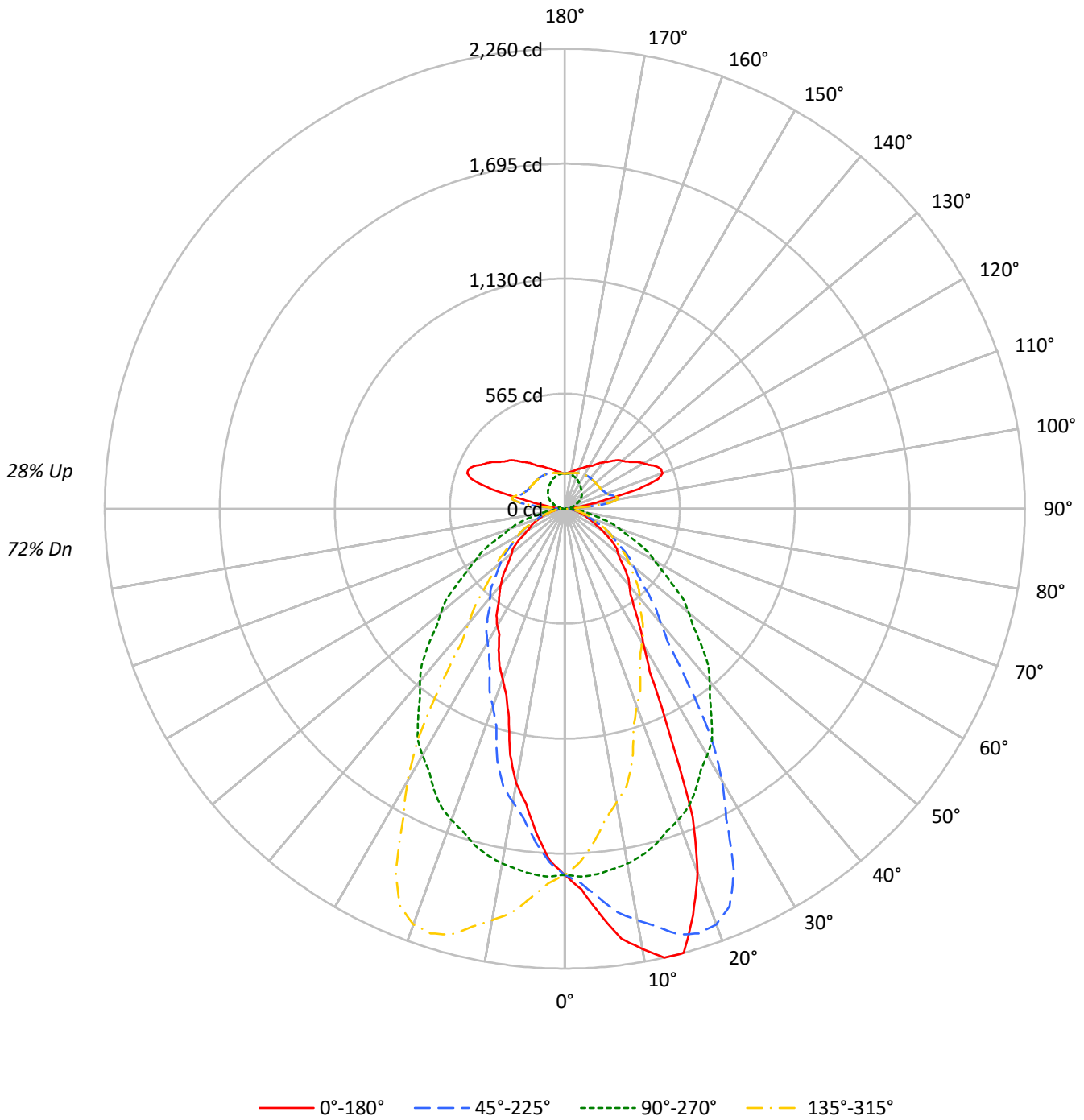
Lumens per Lamp: N/A
Luminaire Lumens: 4317.2 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	100	96	93	98	95	92	89	86	83	81	77	75	74	69	68	67	63
2	96	89	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	55
3	88	79	72	66	83	75	69	64	69	64	60	62	58	55	56	53	51	48
4	81	71	63	58	77	68	61	56	62	56	52	56	52	48	51	48	45	42
5	75	64	56	50	71	61	54	49	56	50	46	51	47	43	47	43	40	38
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	34
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	33	30
8	61	49	41	36	58	47	40	35	43	38	33	40	35	32	37	33	30	28
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	35	30	27	25
10	54	42	35	30	51	40	34	29	37	32	28	35	30	27	32	28	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	4.0
10°-20°	475.4	11.0
20°-30°	612.6	14.2
30°-40°	582.2	13.5
40°-50°	498.7	11.6
50°-60°	379.8	8.8
60°-70°	240.1	5.6
70°-80°	119.9	2.8
80°-90°	32.8	0.8
90°-100°	69.2	1.6
100°-110°	235.0	5.4
110°-120°	249.6	5.8
120°-130°	205.5	4.8
130°-140°	165.0	3.8
140°-150°	124.7	2.9
150°-160°	87.6	2.0
160°-170°	51.6	1.2
170°-180°	16.8	0.4
0°-30°	1258.6	29.2
0°-40°	1840.8	42.6
0°-60°	2719.4	63.0
0°-90°	3112.1	72.1
90°-120°	553.8	12.8
90°-150°	1049.0	24.3
90°-180°	1205.0	27.9
0°-180°	4317.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	24
90°	11	0	11	0	11	7
95°	38	12	38	12	38	49
105°	375	41	375	41	375	363
115°	494	72	494	72	494	484
125°	401	100	401	100	401	362
135°	332	117	332	117	332	258
145°	265	134	265	134	265	168
155°	223	152	223	152	223	104
165°	196	166	196	166	196	56
175°	176	173	176	173	176	17
180°	173	173	173	173	173	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	10.2	10.7	10.7	10.7	10.7	10.7	10.5	11.1	10.7	11.3	10.7
90°	11.0	11.0	11.0	11.0	11.0	10.7	10.0	10.7	11.0	11.3	11.0
92.5°	18.5	18.9	18.8	19.8	20.1	22.1	24.9	29.0	36.6	43.3	42.7
95°	38.0	37.6	38.6	41.3	45.6	53.0	66.9	87.3	114.2	130.5	115.6
97.5°	74.7	77.6	82.4	90.6	106.5	130.5	166.5	203.6	233.8	222.8	167.9
100°	119.2	125.3	134.9	149.2	176.8	217.2	262.8	304.1	311.0	263.1	181.2
102.5°	209.8	217.9	230.0	254.4	284.5	327.2	360.5	369.9	339.8	264.4	176.1
105°	375.3	379.9	394.3	414.9	435.6	446.6	442.2	404.6	335.4	246.8	166.2
107.5°	479.5	485.6	488.5	489.7	487.0	470.9	436.3	379.6	306.1	227.8	161.3
110°	510.9	511.2	508.2	501.9	487.6	460.2	417.6	358.0	287.8	218.8	160.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	510.3	508.5	502.8	492.3	472.4	441.0	395.5	338.3	274.9	212.9	160.4
115°	493.9	490.9	482.2	466.9	443.3	409.0	365.3	314.1	259.1	206.5	161.8
117.5°	464.5	461.9	452.9	436.7	412.6	380.4	340.8	295.8	249.1	203.3	164.3
120°	445.6	442.2	432.6	417.0	393.6	363.4	328.0	286.7	243.7	201.5	165.9
122.5°	425.8	423.1	414.5	399.1	378.1	350.8	317.4	279.6	239.2	200.4	167.7
125°	400.7	397.9	389.6	377.0	357.7	332.7	303.4	269.1	232.8	198.5	170.5
127.5°	378.5	376.4	369.2	357.3	340.4	317.4	289.8	258.7	226.8	197.4	173.3
130°	366.0	363.4	356.7	345.3	329.0	307.1	280.8	252.1	222.8	196.8	175.5
132.5°	353.0	350.5	344.4	333.1	317.1	296.4	272.2	245.7	219.6	196.5	177.7
135°	332.1	330.7	324.7	313.7	299.4	280.8	258.7	236.8	215.1	196.1	180.2
137.5°	311.5	309.5	304.3	294.8	281.7	265.5	248.1	229.7	212.0	196.0	182.5
140°	297.4	295.4	290.4	281.7	271.1	256.5	241.1	225.1	210.1	195.9	183.5
142.5°	283.2	282.9	278.4	270.5	260.4	248.2	235.0	221.4	208.3	195.9	184.3
145°	265.0	264.1	260.8	255.1	247.1	237.4	227.2	216.1	205.9	195.1	185.1
147.5°	249.9	249.2	246.9	242.4	235.8	228.8	220.7	212.1	203.3	194.0	185.4
150°	240.8	240.4	238.5	234.4	229.4	223.5	216.5	209.2	201.1	193.1	185.1
152.5°	233.1	233.0	231.5	228.1	224.1	219.0	213.0	206.2	199.3	191.8	184.6
155°	222.8	223.5	222.2	219.8	216.1	212.4	207.5	202.2	195.9	189.5	183.8
157.5°	214.1	214.1	213.5	211.5	209.0	206.0	201.9	197.5	192.6	187.1	182.3
160°	208.5	208.5	208.1	206.5	204.2	201.8	198.1	194.4	190.1	185.5	181.5
162.5°	203.1	203.4	203.1	202.0	199.6	197.8	194.7	191.5	188.0	184.2	180.7
165°	195.5	195.9	195.9	194.4	193.1	191.8	189.5	187.2	184.5	181.5	179.2
167.5°	188.4	188.8	188.9	188.1	187.6	186.3	184.7	182.9	181.1	179.2	177.7
170°	184.2	184.8	185.1	184.2	183.8	183.1	181.8	180.9	179.2	177.9	176.8
172.5°	180.7	181.1	181.4	181.0	180.6	180.2	179.2	178.4	177.3	176.3	175.8
175°	176.2	176.8	177.2	176.8	176.8	176.5	176.2	175.9	174.8	174.5	174.2
177.5°	173.4	174.0	174.3	174.3	174.3	174.3	174.0	174.0	173.4	173.1	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	10.3	10.4	10.0	9.3	9.7	10.1	12.3	14.6	12.8	11.5	10.7
90°	9.0	6.7	5.0	4.0	3.3	2.6	1.3	0.4	1.3	2.6	3.3
92.5°	33.3	22.6	15.1	12.0	9.7	8.3	5.8	4.1	5.8	8.3	9.7
95°	76.9	48.0	32.6	24.6	19.3	16.3	13.0	11.7	13.0	16.3	19.3
97.5°	103.7	63.2	44.0	35.0	28.8	24.3	20.7	18.9	20.7	24.3	28.8
100°	109.2	68.6	51.0	41.7	35.0	29.6	26.7	25.6	26.7	29.6	35.0
102.5°	109.5	73.4	57.1	47.8	40.8	35.5	32.5	31.8	32.5	35.5	40.8
105°	111.2	81.6	66.0	56.6	49.3	44.3	41.9	40.6	41.9	44.3	49.3
107.5°	115.8	90.0	74.8	65.4	58.2	53.5	51.3	50.2	51.3	53.5	58.2
110°	119.5	95.6	81.0	71.3	64.3	59.9	58.0	56.6	58.0	59.9	64.3



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	123.6	100.9	86.8	76.8	70.1	66.1	63.8	62.5	63.8	66.1	70.1
115°	129.5	109.2	94.9	86.0	79.3	75.3	73.2	71.6	73.2	75.3	79.3
117.5°	135.9	116.9	103.7	94.3	87.9	84.4	82.4	81.1	82.4	84.4	87.9
120°	140.3	122.2	109.2	99.9	93.2	90.3	88.2	86.9	88.2	90.3	93.2
122.5°	143.9	127.2	115.1	105.5	98.9	95.6	93.6	92.6	93.6	95.6	98.9
125°	149.9	134.9	122.9	113.6	106.9	102.9	100.9	99.9	100.9	102.9	106.9
127.5°	155.4	141.9	130.3	120.6	114.3	109.9	107.1	105.8	107.1	109.9	114.3
130°	158.8	146.2	134.5	125.3	118.6	113.9	110.6	109.2	110.6	113.9	118.6
132.5°	162.3	150.0	138.8	129.5	122.5	117.6	114.0	112.4	114.0	117.6	122.5
135°	166.8	155.2	144.5	135.3	127.5	122.5	118.6	117.3	118.6	122.5	127.5
137.5°	170.3	159.5	148.9	140.3	132.7	127.3	123.4	121.8	123.4	127.3	132.7
140°	172.2	161.8	151.8	143.2	135.9	130.5	126.6	125.3	126.6	130.5	135.9
142.5°	173.8	163.7	154.0	145.9	138.8	133.5	129.8	128.7	129.8	133.5	138.8
145°	175.9	166.5	157.5	150.2	143.5	138.6	135.3	133.8	135.3	138.6	143.5
147.5°	177.0	168.8	160.3	153.8	148.3	143.6	140.4	139.5	140.4	143.6	148.3
150°	177.5	169.8	162.2	156.2	151.2	146.8	144.2	143.2	144.2	146.8	151.2
152.5°	177.8	170.9	164.0	158.6	153.8	150.1	147.4	146.9	147.4	150.1	153.8
155°	178.1	172.5	166.8	161.8	158.2	154.5	152.5	152.2	152.5	154.5	158.2
157.5°	178.1	173.6	168.8	164.7	161.7	158.5	156.9	156.6	156.9	158.5	161.7
160°	178.1	174.2	170.2	166.5	163.8	161.2	159.9	159.5	159.9	161.2	163.8
162.5°	177.9	174.5	171.0	168.1	165.7	163.6	162.2	162.5	162.2	163.6	165.7
165°	177.2	174.8	171.8	169.8	168.1	166.2	165.5	165.9	165.5	166.2	168.1
167.5°	176.7	174.7	172.6	171.4	170.1	168.8	168.2	168.6	168.2	168.8	170.1
170°	176.2	174.5	172.9	171.8	171.2	170.2	169.8	170.5	169.8	170.2	171.2
172.5°	175.4	174.3	173.1	172.4	172.0	171.0	171.2	171.5	171.2	171.0	172.0
175°	174.5	173.8	173.1	172.9	172.9	172.2	172.5	172.9	172.5	172.2	172.9
177.5°	174.0	173.4	173.1	173.1	173.1	172.7	172.9	173.4	172.9	172.7	173.1
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	10.3	10.0	9.3	9.8	10.2	9.8	9.7	9.1	9.0	9.1	8.7
90°	4.0	5.0	6.7	9.0	11.0	11.3	11.0	10.7	10.0	10.7	11.0
92.5°	12.0	15.1	22.6	33.3	42.7	43.3	36.6	29.0	24.9	22.1	20.1
95°	24.6	32.6	48.0	76.9	115.6	130.5	114.2	87.3	66.9	53.0	45.6
97.5°	35.0	44.0	63.2	103.7	167.9	222.8	233.8	203.6	166.5	130.5	106.5
100°	41.7	51.0	68.6	109.2	181.2	263.1	311.0	304.1	262.8	217.2	176.8
102.5°	47.8	57.1	73.4	109.5	176.1	264.4	339.8	369.9	360.5	327.2	284.5
105°	56.6	66.0	81.6	111.2	166.2	246.8	335.4	404.6	442.2	446.6	435.6
107.5°	65.4	74.8	90.0	115.8	161.3	227.8	306.1	379.6	436.3	470.9	487.0
110°	71.3	81.0	95.6	119.5	160.2	218.8	287.8	358.0	417.6	460.2	487.6



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.8	86.8	100.9	123.6	160.4	212.9	274.9	338.3	395.5	441.0	472.4
115°	86.0	94.9	109.2	129.5	161.8	206.5	259.1	314.1	365.3	409.0	443.3
117.5°	94.3	103.7	116.9	135.9	164.3	203.3	249.1	295.8	340.8	380.4	412.6
120°	99.9	109.2	122.2	140.3	165.9	201.5	243.7	286.7	328.0	363.4	393.6
122.5°	105.5	115.1	127.2	143.9	167.7	200.4	239.2	279.6	317.4	350.8	378.1
125°	113.6	122.9	134.9	149.9	170.5	198.5	232.8	269.1	303.4	332.7	357.7
127.5°	120.6	130.3	141.9	155.4	173.3	197.4	226.8	258.7	289.8	317.4	340.4
130°	125.3	134.5	146.2	158.8	175.5	196.8	222.8	252.1	280.8	307.1	329.0
132.5°	129.5	138.8	150.0	162.3	177.7	196.5	219.6	245.7	272.2	296.4	317.1
135°	135.3	144.5	155.2	166.8	180.2	196.1	215.1	236.8	258.7	280.8	299.4
137.5°	140.3	148.9	159.5	170.3	182.5	196.0	212.0	229.7	248.1	265.5	281.7
140°	143.2	151.8	161.8	172.2	183.5	195.9	210.1	225.1	241.1	256.5	271.1
142.5°	145.9	154.0	163.7	173.8	184.3	195.9	208.3	221.4	235.0	248.2	260.4
145°	150.2	157.5	166.5	175.9	185.1	195.1	205.9	216.1	227.2	237.4	247.1
147.5°	153.8	160.3	168.8	177.0	185.4	194.0	203.3	212.1	220.7	228.8	235.8
150°	156.2	162.2	169.8	177.5	185.1	193.1	201.1	209.2	216.5	223.5	229.4
152.5°	158.6	164.0	170.9	177.8	184.6	191.8	199.3	206.2	213.0	219.0	224.1
155°	161.8	166.8	172.5	178.1	183.8	189.5	195.9	202.2	207.5	212.4	216.1
157.5°	164.7	168.8	173.6	178.1	182.3	187.1	192.6	197.5	201.9	206.0	209.0
160°	166.5	170.2	174.2	178.1	181.5	185.5	190.1	194.4	198.1	201.8	204.2
162.5°	168.1	171.0	174.5	177.9	180.7	184.2	188.0	191.5	194.7	197.8	199.6
165°	169.8	171.8	174.8	177.2	179.2	181.5	184.5	187.2	189.5	191.8	193.1
167.5°	171.4	172.6	174.7	176.7	177.7	179.2	181.1	182.9	184.7	186.3	187.6
170°	171.8	172.9	174.5	176.2	176.8	177.9	179.2	180.9	181.8	183.1	183.8
172.5°	172.4	173.1	174.3	175.4	175.8	176.3	177.3	178.4	179.2	180.2	180.6
175°	172.9	173.1	173.8	174.5	174.2	174.5	174.8	175.9	176.2	176.5	176.8
177.5°	173.1	173.1	173.4	174.0	173.4	173.1	173.4	174.0	174.0	174.3	174.3
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	8.7	8.2	8.7	8.2	8.7	8.2	8.7	8.7	9.1	9.0	9.1
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.7	10.0	10.7
92.5°	19.8	18.8	18.9	18.5	18.9	18.8	19.8	20.1	22.1	24.9	29.0
95°	41.3	38.6	37.6	38.0	37.6	38.6	41.3	45.6	53.0	66.9	87.3
97.5°	90.6	82.4	77.6	74.7	77.6	82.4	90.6	106.5	130.5	166.5	203.6
100°	149.2	134.9	125.3	119.2	125.3	134.9	149.2	176.8	217.2	262.8	304.1
102.5°	254.4	230.0	217.9	209.8	217.9	230.0	254.4	284.5	327.2	360.5	369.9
105°	414.9	394.3	379.9	375.3	379.9	394.3	414.9	435.6	446.6	442.2	404.6
107.5°	489.7	488.5	485.6	479.5	485.6	488.5	489.7	487.0	470.9	436.3	379.6
110°	501.9	508.2	511.2	510.9	511.2	508.2	501.9	487.6	460.2	417.6	358.0



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.3	502.8	508.5	510.3	508.5	502.8	492.3	472.4	441.0	395.5	338.3
115°	466.9	482.2	490.9	493.9	490.9	482.2	466.9	443.3	409.0	365.3	314.1
117.5°	436.7	452.9	461.9	464.5	461.9	452.9	436.7	412.6	380.4	340.8	295.8
120°	417.0	432.6	442.2	445.6	442.2	432.6	417.0	393.6	363.4	328.0	286.7
122.5°	399.1	414.5	423.1	425.8	423.1	414.5	399.1	378.1	350.8	317.4	279.6
125°	377.0	389.6	397.9	400.7	397.9	389.6	377.0	357.7	332.7	303.4	269.1
127.5°	357.3	369.2	376.4	378.5	376.4	369.2	357.3	340.4	317.4	289.8	258.7
130°	345.3	356.7	363.4	366.0	363.4	356.7	345.3	329.0	307.1	280.8	252.1
132.5°	333.1	344.4	350.5	353.0	350.5	344.4	333.1	317.1	296.4	272.2	245.7
135°	313.7	324.7	330.7	332.1	330.7	324.7	313.7	299.4	280.8	258.7	236.8
137.5°	294.8	304.3	309.5	311.5	309.5	304.3	294.8	281.7	265.5	248.1	229.7
140°	281.7	290.4	295.4	297.4	295.4	290.4	281.7	271.1	256.5	241.1	225.1
142.5°	270.5	278.4	282.9	283.2	282.9	278.4	270.5	260.4	248.2	235.0	221.4
145°	255.1	260.8	264.1	265.0	264.1	260.8	255.1	247.1	237.4	227.2	216.1
147.5°	242.4	246.9	249.2	249.9	249.2	246.9	242.4	235.8	228.8	220.7	212.1
150°	234.4	238.5	240.4	240.8	240.4	238.5	234.4	229.4	223.5	216.5	209.2
152.5°	228.1	231.5	233.0	233.1	233.0	231.5	228.1	224.1	219.0	213.0	206.2
155°	219.8	222.2	223.5	222.8	223.5	222.2	219.8	216.1	212.4	207.5	202.2
157.5°	211.5	213.5	214.1	214.1	214.1	213.5	211.5	209.0	206.0	201.9	197.5
160°	206.5	208.1	208.5	208.5	208.5	208.1	206.5	204.2	201.8	198.1	194.4
162.5°	202.0	203.1	203.4	203.1	203.4	203.1	202.0	199.6	197.8	194.7	191.5
165°	194.4	195.9	195.9	195.5	195.9	195.9	194.4	193.1	191.8	189.5	187.2
167.5°	188.1	188.9	188.8	188.4	188.8	188.9	188.1	187.6	186.3	184.7	182.9
170°	184.2	185.1	184.8	184.2	184.8	185.1	184.2	183.8	183.1	181.8	180.9
172.5°	181.0	181.4	181.1	180.7	181.1	181.4	181.0	180.6	180.2	179.2	178.4
175°	176.8	177.2	176.8	176.2	176.8	177.2	176.8	176.8	176.5	176.2	175.9
177.5°	174.3	174.3	174.0	173.4	174.0	174.3	174.3	174.3	174.3	174.0	174.0
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	9.7	9.8	10.2	9.8	9.3	10.0	10.3	10.7	11.5	12.8	14.6
90°	11.0	11.3	11.0	9.0	6.7	5.0	4.0	3.3	2.6	1.3	0.4
92.5°	36.6	43.3	42.7	33.3	22.6	15.1	12.0	9.7	8.3	5.8	4.1
95°	114.2	130.5	115.6	76.9	48.0	32.6	24.6	19.3	16.3	13.0	11.7
97.5°	233.8	222.8	167.9	103.7	63.2	44.0	35.0	28.8	24.3	20.7	18.9
100°	311.0	263.1	181.2	109.2	68.6	51.0	41.7	35.0	29.6	26.7	25.6
102.5°	339.8	264.4	176.1	109.5	73.4	57.1	47.8	40.8	35.5	32.5	31.8
105°	335.4	246.8	166.2	111.2	81.6	66.0	56.6	49.3	44.3	41.9	40.6
107.5°	306.1	227.8	161.3	115.8	90.0	74.8	65.4	58.2	53.5	51.3	50.2
110°	287.8	218.8	160.2	119.5	95.6	81.0	71.3	64.3	59.9	58.0	56.6



TEST NUMBER: P331707-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.9	212.9	160.4	123.6	100.9	86.8	76.8	70.1	66.1	63.8	62.5
115°	259.1	206.5	161.8	129.5	109.2	94.9	86.0	79.3	75.3	73.2	71.6
117.5°	249.1	203.3	164.3	135.9	116.9	103.7	94.3	87.9	84.4	82.4	81.1
120°	243.7	201.5	165.9	140.3	122.2	109.2	99.9	93.2	90.3	88.2	86.9
122.5°	239.2	200.4	167.7	143.9	127.2	115.1	105.5	98.9	95.6	93.6	92.6
125°	232.8	198.5	170.5	149.9	134.9	122.9	113.6	106.9	102.9	100.9	99.9
127.5°	226.8	197.4	173.3	155.4	141.9	130.3	120.6	114.3	109.9	107.1	105.8
130°	222.8	196.8	175.5	158.8	146.2	134.5	125.3	118.6	113.9	110.6	109.2
132.5°	219.6	196.5	177.7	162.3	150.0	138.8	129.5	122.5	117.6	114.0	112.4
135°	215.1	196.1	180.2	166.8	155.2	144.5	135.3	127.5	122.5	118.6	117.3
137.5°	212.0	196.0	182.5	170.3	159.5	148.9	140.3	132.7	127.3	123.4	121.8
140°	210.1	195.9	183.5	172.2	161.8	151.8	143.2	135.9	130.5	126.6	125.3
142.5°	208.3	195.9	184.3	173.8	163.7	154.0	145.9	138.8	133.5	129.8	128.7
145°	205.9	195.1	185.1	175.9	166.5	157.5	150.2	143.5	138.6	135.3	133.8
147.5°	203.3	194.0	185.4	177.0	168.8	160.3	153.8	148.3	143.6	140.4	139.5
150°	201.1	193.1	185.1	177.5	169.8	162.2	156.2	151.2	146.8	144.2	143.2
152.5°	199.3	191.8	184.6	177.8	170.9	164.0	158.6	153.8	150.1	147.4	146.9
155°	195.9	189.5	183.8	178.1	172.5	166.8	161.8	158.2	154.5	152.5	152.2
157.5°	192.6	187.1	182.3	178.1	173.6	168.8	164.7	161.7	158.5	156.9	156.6
160°	190.1	185.5	181.5	178.1	174.2	170.2	166.5	163.8	161.2	159.9	159.5
162.5°	188.0	184.2	180.7	177.9	174.5	171.0	168.1	165.7	163.6	162.2	162.5
165°	184.5	181.5	179.2	177.2	174.8	171.8	169.8	168.1	166.2	165.5	165.9
167.5°	181.1	179.2	177.7	176.7	174.7	172.6	171.4	170.1	168.8	168.2	168.6
170°	179.2	177.9	176.8	176.2	174.5	172.9	171.8	171.2	170.2	169.8	170.5
172.5°	177.3	176.3	175.8	175.4	174.3	173.1	172.4	172.0	171.0	171.2	171.5
175°	174.8	174.5	174.2	174.5	173.8	173.1	172.9	172.9	172.2	172.5	172.9
177.5°	173.4	173.1	173.4	174.0	173.4	173.1	173.1	173.1	172.7	172.9	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331707-830

CATALOG NUMBER: SA2XXRDIP-C865D330U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.3	10.1	9.7	9.3	10.0	10.4	10.3	10.7	11.3	10.7	11.1
90°	1.3	2.6	3.3	4.0	5.0	6.7	9.0	11.0	11.3	11.0	10.7
92.5°	5.8	8.3	9.7	12.0	15.1	22.6	33.3	42.7	43.3	36.6	29.0
95°	13.0	16.3	19.3	24.6	32.6	48.0	76.9	115.6	130.5	114.2	87.3
97.5°	20.7	24.3	28.8	35.0	44.0	63.2	103.7	167.9	222.8	233.8	203.6
100°	26.7	29.6	35.0	41.7	51.0	68.6	109.2	181.2	263.1	311.0	304.1
102.5°	32.5	35.5	40.8	47.8	57.1	73.4	109.5	176.1	264.4	339.8	369.9
105°	41.9	44.3	49.3	56.6	66.0	81.6	111.2	166.2	246.8	335.4	404.6
107.5°	51.3	53.5	58.2	65.4	74.8	90.0	115.8	161.3	227.8	306.1	379.6
110°	58.0	59.9	64.3	71.3	81.0	95.6	119.5	160.2	218.8	287.8	358.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	63.8	66.1	70.1	76.8	86.8	100.9	123.6	160.4	212.9	274.9	338.3
115°	73.2	75.3	79.3	86.0	94.9	109.2	129.5	161.8	206.5	259.1	314.1
117.5°	82.4	84.4	87.9	94.3	103.7	116.9	135.9	164.3	203.3	249.1	295.8
120°	88.2	90.3	93.2	99.9	109.2	122.2	140.3	165.9	201.5	243.7	286.7
122.5°	93.6	95.6	98.9	105.5	115.1	127.2	143.9	167.7	200.4	239.2	279.6
125°	100.9	102.9	106.9	113.6	122.9	134.9	149.9	170.5	198.5	232.8	269.1
127.5°	107.1	109.9	114.3	120.6	130.3	141.9	155.4	173.3	197.4	226.8	258.7
130°	110.6	113.9	118.6	125.3	134.5	146.2	158.8	175.5	196.8	222.8	252.1
132.5°	114.0	117.6	122.5	129.5	138.8	150.0	162.3	177.7	196.5	219.6	245.7
135°	118.6	122.5	127.5	135.3	144.5	155.2	166.8	180.2	196.1	215.1	236.8
137.5°	123.4	127.3	132.7	140.3	148.9	159.5	170.3	182.5	196.0	212.0	229.7
140°	126.6	130.5	135.9	143.2	151.8	161.8	172.2	183.5	195.9	210.1	225.1
142.5°	129.8	133.5	138.8	145.9	154.0	163.7	173.8	184.3	195.9	208.3	221.4
145°	135.3	138.6	143.5	150.2	157.5	166.5	175.9	185.1	195.1	205.9	216.1
147.5°	140.4	143.6	148.3	153.8	160.3	168.8	177.0	185.4	194.0	203.3	212.1
150°	144.2	146.8	151.2	156.2	162.2	169.8	177.5	185.1	193.1	201.1	209.2
152.5°	147.4	150.1	153.8	158.6	164.0	170.9	177.8	184.6	191.8	199.3	206.2
155°	152.5	154.5	158.2	161.8	166.8	172.5	178.1	183.8	189.5	195.9	202.2
157.5°	156.9	158.5	161.7	164.7	168.8	173.6	178.1	182.3	187.1	192.6	197.5
160°	159.9	161.2	163.8	166.5	170.2	174.2	178.1	181.5	185.5	190.1	194.4
162.5°	162.2	163.6	165.7	168.1	171.0	174.5	177.9	180.7	184.2	188.0	191.5
165°	165.5	166.2	168.1	169.8	171.8	174.8	177.2	179.2	181.5	184.5	187.2
167.5°	168.2	168.8	170.1	171.4	172.6	174.7	176.7	177.7	179.2	181.1	182.9
170°	169.8	170.2	171.2	171.8	172.9	174.5	176.2	176.8	177.9	179.2	180.9
172.5°	171.2	171.0	172.0	172.4	173.1	174.3	175.4	175.8	176.3	177.3	178.4
175°	172.5	172.2	172.9	172.9	173.1	173.8	174.5	174.2	174.5	174.8	175.9
177.5°	172.9	172.7	173.1	173.1	173.1	173.4	174.0	173.4	173.1	173.4	174.0
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	10.5	10.7	10.7	10.7	10.7	10.7	10.2
90°	10.0	10.7	11.0	11.0	11.0	11.0	11.0
92.5°	24.9	22.1	20.1	19.8	18.8	18.9	18.5
95°	66.9	53.0	45.6	41.3	38.6	37.6	38.0
97.5°	166.5	130.5	106.5	90.6	82.4	77.6	74.7
100°	262.8	217.2	176.8	149.2	134.9	125.3	119.2
102.5°	360.5	327.2	284.5	254.4	230.0	217.9	209.8
105°	442.2	446.6	435.6	414.9	394.3	379.9	375.3
107.5°	436.3	470.9	487.0	489.7	488.5	485.6	479.5
110°	417.6	460.2	487.6	501.9	508.2	511.2	510.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	395.5	441.0	472.4	492.3	502.8	508.5	510.3
115°	365.3	409.0	443.3	466.9	482.2	490.9	493.9
117.5°	340.8	380.4	412.6	436.7	452.9	461.9	464.5
120°	328.0	363.4	393.6	417.0	432.6	442.2	445.6
122.5°	317.4	350.8	378.1	399.1	414.5	423.1	425.8
125°	303.4	332.7	357.7	377.0	389.6	397.9	400.7
127.5°	289.8	317.4	340.4	357.3	369.2	376.4	378.5
130°	280.8	307.1	329.0	345.3	356.7	363.4	366.0
132.5°	272.2	296.4	317.1	333.1	344.4	350.5	353.0
135°	258.7	280.8	299.4	313.7	324.7	330.7	332.1
137.5°	248.1	265.5	281.7	294.8	304.3	309.5	311.5
140°	241.1	256.5	271.1	281.7	290.4	295.4	297.4
142.5°	235.0	248.2	260.4	270.5	278.4	282.9	283.2
145°	227.2	237.4	247.1	255.1	260.8	264.1	265.0
147.5°	220.7	228.8	235.8	242.4	246.9	249.2	249.9
150°	216.5	223.5	229.4	234.4	238.5	240.4	240.8
152.5°	213.0	219.0	224.1	228.1	231.5	233.0	233.1
155°	207.5	212.4	216.1	219.8	222.2	223.5	222.8
157.5°	201.9	206.0	209.0	211.5	213.5	214.1	214.1
160°	198.1	201.8	204.2	206.5	208.1	208.5	208.5
162.5°	194.7	197.8	199.6	202.0	203.1	203.4	203.1
165°	189.5	191.8	193.1	194.4	195.9	195.9	195.5
167.5°	184.7	186.3	187.6	188.1	188.9	188.8	188.4
170°	181.8	183.1	183.8	184.2	185.1	184.8	184.2
172.5°	179.2	180.2	180.6	181.0	181.4	181.1	180.7
175°	176.2	176.5	176.8	176.8	177.2	176.8	176.2
177.5°	174.0	174.3	174.3	174.3	174.3	174.0	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1

(END OF REPORT)