

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: P331713-830

Luminaire Tested: **SA2XXRDIP-C865D530U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331713-830
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-C865D530U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

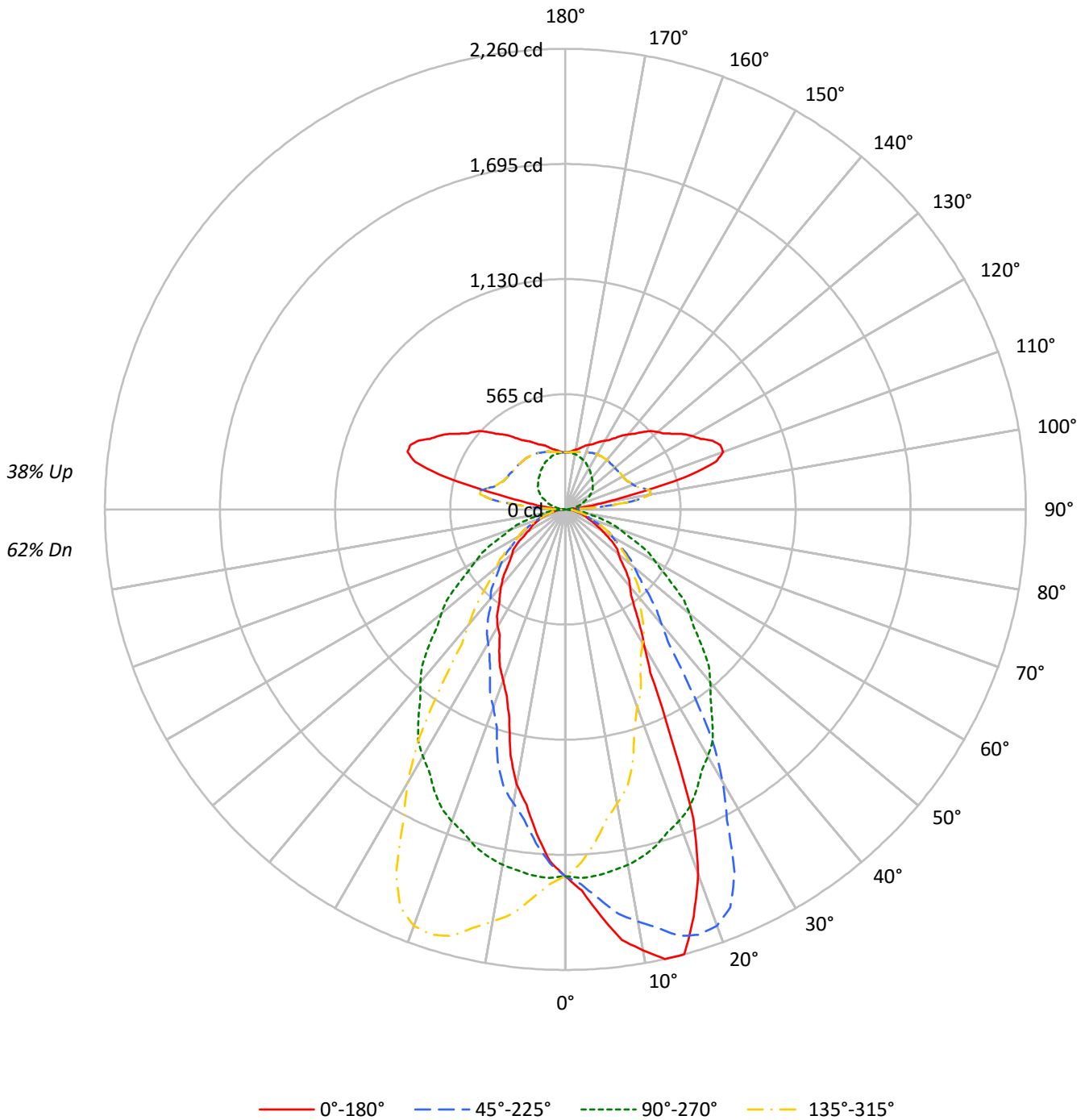
Lumens per Lamp: N/A
Luminaire Lumens: 5058.1 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.8
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	94	90	95	91	88	85	80	78	76	70	68	67	60	59	58	54
2	93	86	80	76	87	81	76	72	71	68	64	63	60	57	54	52	51	47
3	86	77	70	64	80	72	66	61	64	59	55	56	53	50	49	47	44	41
4	79	69	61	55	74	65	58	53	58	52	48	51	47	44	45	42	39	36
5	73	62	54	48	68	59	52	46	52	47	42	46	42	39	41	38	35	32
6	68	56	48	43	63	53	46	41	48	42	38	42	38	35	38	34	31	29
7	63	51	43	38	59	49	42	37	44	38	34	39	34	31	35	31	28	26
8	59	47	39	34	55	45	38	33	40	35	31	36	32	28	32	29	26	24
9	55	43	36	31	52	41	34	30	37	32	28	33	29	26	30	26	24	22
10	52	40	33	28	49	38	32	27	34	29	25	31	27	24	28	24	22	20

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	3.4
10°-20°	475.4	9.4
20°-30°	612.6	12.1
30°-40°	582.2	11.5
40°-50°	498.7	9.9
50°-60°	379.8	7.5
60°-70°	240.1	4.7
70°-80°	119.9	2.4
80°-90°	33.7	0.7
90°-100°	111.8	2.2
100°-110°	379.3	7.5
110°-120°	402.9	8.0
120°-130°	331.7	6.6
130°-140°	266.3	5.3
140°-150°	201.3	4.0
150°-160°	141.4	2.8
160°-170°	83.3	1.6
170°-180°	27.1	0.5
0°-30°	1258.6	24.9
0°-40°	1840.8	36.4
0°-60°	2719.4	53.8
0°-90°	3113.1	61.5
90°-120°	893.9	17.7
90°-150°	1693.2	33.5
90°-180°	1945.0	38.5
0°-180°	5058.1	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	25
90°	18	1	18	1	18	11
95°	61	19	61	19	61	80
105°	606	66	606	66	606	586
115°	797	116	797	116	797	781
125°	647	161	647	161	647	584
135°	536	189	536	189	536	416
145°	428	216	428	216	428	272
155°	360	246	360	246	360	168
165°	316	268	316	268	316	90
175°	284	279	284	279	284	28
180°	280	280	280	280	280	



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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°	11.6	12.1	12.1	12.1	12.1	12.0	11.7	12.4	12.1	12.6	12.1
90°	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2	17.7	18.3	17.7
92.5°	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8	59.0	69.8	68.9
95°	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8	184.4	210.8	186.5
97.5°	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7	377.3	359.7	270.9
100°	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8	502.0	424.6	292.4
102.5°	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0	548.5	426.8	284.3
105°	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1	541.3	398.3	268.2
107.5°	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7	494.1	367.8	260.2
110°	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9	464.4	353.2	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0	443.7	343.7	259.0
115°	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9	418.2	333.3	261.3
117.5°	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4	402.1	328.2	265.1
120°	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8	393.5	325.2	267.7
122.5°	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2	386.2	323.5	270.7
125°	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3	375.7	320.4	275.2
127.5°	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6	366.1	318.6	279.8
130°	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9	359.6	317.6	283.2
132.5°	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6	354.4	317.3	286.7
135°	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2	347.2	316.6	290.8
137.5°	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7	342.1	316.5	294.5
140°	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4	339.2	316.0	296.1
142.5°	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3	336.2	316.0	297.5
145°	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8	332.2	315.0	298.9
147.5°	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3	328.1	313.0	299.3
150°	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5	324.7	311.8	298.9
152.5°	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8	321.7	309.6	298.0
155°	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3	316.0	305.9	296.7
157.5°	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7	310.8	302.0	294.3
160°	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9	306.9	299.4	292.9
162.5°	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2	303.5	297.3	291.6
165°	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1	297.7	292.9	289.2
167.5°	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3	292.2	289.2	286.7
170°	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9	289.2	287.0	285.4
172.5°	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0	286.2	284.5	283.7
175°	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8	282.2	281.6	281.2
177.5°	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8	279.9	279.5	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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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°	11.4	11.1	10.7	9.8	10.1	10.4	12.4	14.6	12.9	11.9	11.1
90°	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6	2.2	4.3	5.4
92.5°	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6	9.4	13.3	15.7
95°	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9	20.9	26.3	31.2
97.5°	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6	33.6	39.2	46.6
100°	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4	43.0	47.9	56.5
102.5°	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3	52.5	57.3	65.9
105°	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6	67.8	71.4	79.6
107.5°	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1	82.8	86.4	93.9
110°	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3	93.5	96.8	103.8



TEST NUMBER: P331713-830
 CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9	103.0	106.6	113.2
115°	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6	118.3	121.5	127.9
117.5°	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8	133.0	136.2	141.9
120°	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3	142.4	145.6	150.5
122.5°	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3	151.1	154.3	159.6
125°	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3	162.9	166.1	172.6
127.5°	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7	172.9	177.4	184.5
130°	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3	178.4	183.8	191.3
132.5°	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4	184.1	189.8	197.8
135°	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2	191.3	197.8	205.9
137.5°	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5	199.1	205.6	214.1
140°	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1	204.2	210.8	219.3
142.5°	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7	209.4	215.5	224.0
145°	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1	218.2	223.6	231.7
147.5°	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1	226.7	231.9	239.3
150°	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1	232.7	237.0	244.0
152.5°	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1	237.9	242.2	248.4
155°	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6	246.2	249.4	255.3
157.5°	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7	253.3	255.9	261.0
160°	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5	258.0	260.1	264.5
162.5°	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2	261.8	264.0	267.5
165°	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7	267.1	268.2	271.5
167.5°	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2	271.5	272.5	274.6
170°	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2	274.1	274.7	276.3
172.5°	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9	276.3	276.0	277.6
175°	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0	278.4	277.9	279.0
177.5°	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9	279.1	278.6	279.5
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-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°	10.8	10.7	10.2	10.9	11.6	11.1	11.0	10.5	10.3	10.5	10.1
90°	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2	16.1	17.2	17.7
92.5°	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8	40.2	35.7	32.3
95°	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8	108.0	85.5	73.6
97.5°	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7	268.9	210.8	171.9
100°	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8	424.1	350.4	285.4
102.5°	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0	581.9	528.1	459.1
105°	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1	713.8	720.9	703.0
107.5°	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7	704.2	760.1	786.1
110°	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9	674.0	742.8	786.9



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0	638.4	711.9	762.4
115°	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9	589.7	660.1	715.5
117.5°	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4	550.1	614.0	665.9
120°	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8	529.4	586.4	635.4
122.5°	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2	512.3	566.2	610.4
125°	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3	489.7	537.0	577.3
127.5°	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6	467.8	512.4	549.6
130°	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9	453.2	495.6	531.0
132.5°	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6	439.4	478.4	511.7
135°	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2	417.6	453.2	483.2
137.5°	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7	400.4	428.5	454.8
140°	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4	389.2	413.9	437.5
142.5°	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3	379.3	400.6	420.4
145°	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8	366.6	383.2	398.9
147.5°	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3	356.3	369.3	380.7
150°	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5	349.4	360.7	370.3
152.5°	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8	343.8	353.4	361.7
155°	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3	334.9	342.9	348.8
157.5°	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7	325.8	332.6	337.2
160°	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9	319.8	325.7	329.5
162.5°	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2	314.2	319.3	322.2
165°	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1	305.9	309.6	311.8
167.5°	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3	298.2	300.8	302.7
170°	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9	293.5	295.7	296.7
172.5°	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0	289.2	290.9	291.5
175°	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8	284.4	284.9	285.4
177.5°	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8	280.8	281.3	281.3
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-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°	10.1	9.5	10.1	9.5	10.1	9.5	10.1	10.1	10.5	10.3	10.5
90°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2
92.5°	32.0	30.3	30.6	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8
95°	66.6	62.4	60.7	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8
97.5°	146.2	133.0	125.2	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7
100°	240.8	217.7	202.1	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8
102.5°	410.7	371.2	351.8	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0
105°	669.8	636.4	613.3	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1
107.5°	790.2	788.4	783.8	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7
110°	810.0	820.3	825.1	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	794.6	811.6	820.8	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0
115°	753.6	778.4	792.3	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9
117.5°	704.8	730.9	745.6	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4
120°	673.0	698.2	713.8	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8
122.5°	644.1	669.0	682.9	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2
125°	608.5	628.9	642.3	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3
127.5°	576.7	595.9	607.5	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6
130°	557.4	575.7	586.4	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9
132.5°	537.6	555.9	565.8	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6
135°	506.3	524.1	533.8	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2
137.5°	475.8	491.1	499.5	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7
140°	454.8	468.7	476.7	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4
142.5°	436.7	449.4	456.6	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3
145°	411.7	420.8	426.2	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8
147.5°	391.3	398.6	402.3	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3
150°	378.4	384.8	388.0	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5
152.5°	368.1	373.7	376.1	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8
155°	354.8	358.5	360.7	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3
157.5°	341.4	344.6	345.5	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7
160°	333.3	335.9	336.5	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9
162.5°	325.9	327.8	328.3	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2
165°	313.9	316.0	316.0	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1
167.5°	303.7	304.9	304.8	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3
170°	297.3	298.9	298.3	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9
172.5°	292.1	292.8	292.3	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0
175°	285.4	286.0	285.4	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8
177.5°	281.3	281.3	280.8	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331713-830
 CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-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°	11.0	11.1	11.6	10.9	10.2	10.7	10.8	11.1	11.9	12.9	14.6
90°	17.7	18.3	17.7	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6
92.5°	59.0	69.8	68.9	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6
95°	184.4	210.8	186.5	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9
97.5°	377.3	359.7	270.9	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6
100°	502.0	424.6	292.4	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4
102.5°	548.5	426.8	284.3	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3
105°	541.3	398.3	268.2	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6
107.5°	494.1	367.8	260.2	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1
110°	464.4	353.2	258.5	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.7	343.7	259.0	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9
115°	418.2	333.3	261.3	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6
117.5°	402.1	328.2	265.1	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8
120°	393.5	325.2	267.7	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3
122.5°	386.2	323.5	270.7	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3
125°	375.7	320.4	275.2	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3
127.5°	366.1	318.6	279.8	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7
130°	359.6	317.6	283.2	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3
132.5°	354.4	317.3	286.7	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4
135°	347.2	316.6	290.8	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2
137.5°	342.1	316.5	294.5	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5
140°	339.2	316.0	296.1	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1
142.5°	336.2	316.0	297.5	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7
145°	332.2	315.0	298.9	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1
147.5°	328.1	313.0	299.3	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1
150°	324.7	311.8	298.9	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1
152.5°	321.7	309.6	298.0	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1
155°	316.0	305.9	296.7	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6
157.5°	310.8	302.0	294.3	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7
160°	306.9	299.4	292.9	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5
162.5°	303.5	297.3	291.6	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2
165°	297.7	292.9	289.2	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7
167.5°	292.2	289.2	286.7	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2
170°	289.2	287.0	285.4	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2
172.5°	286.2	284.5	283.7	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9
175°	282.2	281.6	281.2	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0
177.5°	279.9	279.5	279.9	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331713-830

CATALOG NUMBER: SA2XXRDIP-C865D530U830-4F0-1E-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°	12.4	10.4	10.1	9.8	10.7	11.1	11.4	12.1	12.6	12.1	12.4
90°	2.2	4.3	5.4	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2
92.5°	9.4	13.3	15.7	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8
95°	20.9	26.3	31.2	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8
97.5°	33.6	39.2	46.6	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7
100°	43.0	47.9	56.5	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8
102.5°	52.5	57.3	65.9	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0
105°	67.8	71.4	79.6	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1
107.5°	82.8	86.4	93.9	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7
110°	93.5	96.8	103.8	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	103.0	106.6	113.2	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0
115°	118.3	121.5	127.9	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9
117.5°	133.0	136.2	141.9	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4
120°	142.4	145.6	150.5	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8
122.5°	151.1	154.3	159.6	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2
125°	162.9	166.1	172.6	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3
127.5°	172.9	177.4	184.5	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6
130°	178.4	183.8	191.3	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9
132.5°	184.1	189.8	197.8	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6
135°	191.3	197.8	205.9	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2
137.5°	199.1	205.6	214.1	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7
140°	204.2	210.8	219.3	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4
142.5°	209.4	215.5	224.0	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3
145°	218.2	223.6	231.7	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8
147.5°	226.7	231.9	239.3	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3
150°	232.7	237.0	244.0	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5
152.5°	237.9	242.2	248.4	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8
155°	246.2	249.4	255.3	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3
157.5°	253.3	255.9	261.0	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7
160°	258.0	260.1	264.5	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9
162.5°	261.8	264.0	267.5	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2
165°	267.1	268.2	271.5	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1
167.5°	271.5	272.5	274.6	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3
170°	274.1	274.7	276.3	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9
172.5°	276.3	276.0	277.6	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0
175°	278.4	277.9	279.0	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8
177.5°	279.1	278.6	279.5	279.5	279.5	279.5	280.8	279.9	279.5	279.9	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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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°	11.7	12.0	12.1	12.1	12.1	12.1	11.6
90°	16.1	17.2	17.7	17.7	17.7	17.7	17.7
92.5°	40.2	35.7	32.3	32.0	30.3	30.6	29.8
95°	108.0	85.5	73.6	66.6	62.4	60.7	61.3
97.5°	268.9	210.8	171.9	146.2	133.0	125.2	120.6
100°	424.1	350.4	285.4	240.8	217.7	202.1	192.5
102.5°	581.9	528.1	459.1	410.7	371.2	351.8	338.7
105°	713.8	720.9	703.0	669.8	636.4	613.3	605.8
107.5°	704.2	760.1	786.1	790.2	788.4	783.8	773.8
110°	674.0	742.8	786.9	810.0	820.3	825.1	824.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	638.4	711.9	762.4	794.6	811.6	820.8	823.7
115°	589.7	660.1	715.5	753.6	778.4	792.3	797.1
117.5°	550.1	614.0	665.9	704.8	730.9	745.6	749.7
120°	529.4	586.4	635.4	673.0	698.2	713.8	719.2
122.5°	512.3	566.2	610.4	644.1	669.0	682.9	687.4
125°	489.7	537.0	577.3	608.5	628.9	642.3	646.7
127.5°	467.8	512.4	549.6	576.7	595.9	607.5	611.0
130°	453.2	495.6	531.0	557.4	575.7	586.4	590.7
132.5°	439.4	478.4	511.7	537.6	555.9	565.8	569.7
135°	417.6	453.2	483.2	506.3	524.1	533.8	535.9
137.5°	400.4	428.5	454.8	475.8	491.1	499.5	502.8
140°	389.2	413.9	437.5	454.8	468.7	476.7	480.0
142.5°	379.3	400.6	420.4	436.7	449.4	456.6	457.2
145°	366.6	383.2	398.9	411.7	420.8	426.2	427.8
147.5°	356.3	369.3	380.7	391.3	398.6	402.3	403.2
150°	349.4	360.7	370.3	378.4	384.8	388.0	388.6
152.5°	343.8	353.4	361.7	368.1	373.7	376.1	376.2
155°	334.9	342.9	348.8	354.8	358.5	360.7	359.6
157.5°	325.8	332.6	337.2	341.4	344.6	345.5	345.5
160°	319.8	325.7	329.5	333.3	335.9	336.5	336.5
162.5°	314.2	319.3	322.2	325.9	327.8	328.3	327.9
165°	305.9	309.6	311.8	313.9	316.0	316.0	315.6
167.5°	298.2	300.8	302.7	303.7	304.9	304.8	304.2
170°	293.5	295.7	296.7	297.3	298.9	298.3	297.3
172.5°	289.2	290.9	291.5	292.1	292.8	292.3	291.6
175°	284.4	284.9	285.4	285.4	286.0	285.4	284.4
177.5°	280.8	281.3	281.3	281.3	281.3	280.8	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5

(END OF REPORT)