

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: P331377-940

Luminaire Tested: **SA2XXDIP-C865D330U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331377-940
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: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

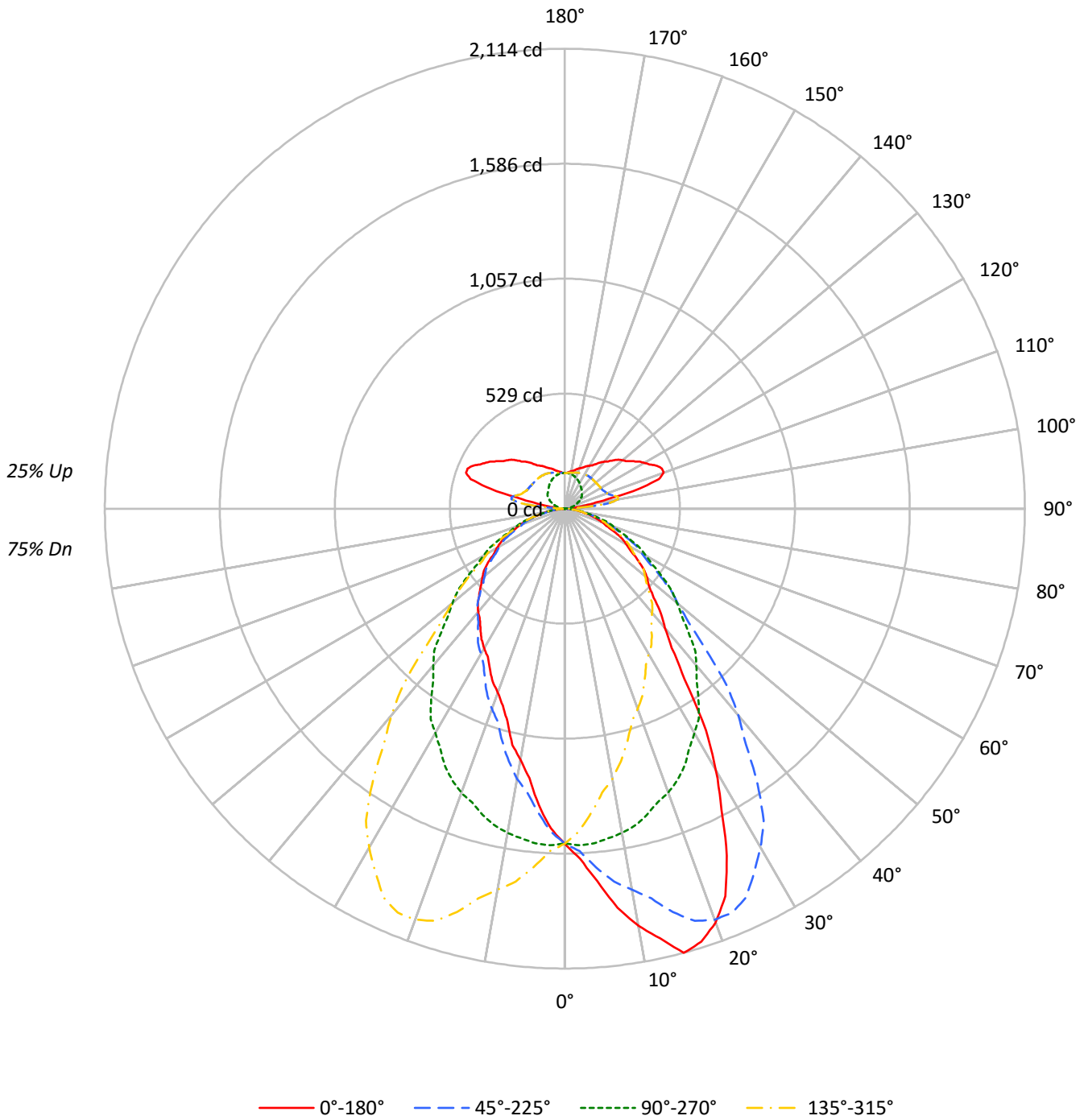
Lumens per Lamp: N/A
Luminaire Lumens: 4538.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	82	78	76	75	71	70	68	65
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	59	55
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39	37
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	3.2
10°-20°	426.3	9.4
20°-30°	618.6	13.6
30°-40°	652.8	14.4
40°-50°	578.0	12.7
50°-60°	461.3	10.2
60°-70°	313.5	6.9
70°-80°	160.7	3.5
80°-90°	40.2	0.9
90°-100°	65.5	1.4
100°-110°	222.3	4.9
110°-120°	236.2	5.2
120°-130°	194.4	4.3
130°-140°	156.1	3.4
140°-150°	118.0	2.6
150°-160°	82.9	1.8
160°-170°	48.8	1.1
170°-180°	15.9	0.4
0°-30°	1191.5	26.3
0°-40°	1844.3	40.6
0°-60°	2883.6	63.5
0°-90°	3398.1	74.9
90°-120°	524.0	11.5
90°-150°	992.5	21.9
90°-180°	1140.0	25.1
0°-180°	4538.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	35
90°	10	0	10	0	10	7
95°	36	11	36	11	36	47
105°	355	38	355	38	355	344
115°	467	68	467	68	467	458
125°	379	94	379	94	379	343
135°	314	111	314	111	314	244
145°	251	127	251	127	251	159
155°	211	144	211	144	211	98
165°	185	157	185	157	185	53
175°	167	164	167	164	167	16
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	14.4	14.4	14.9	14.4	14.4	14.8	14.7	14.4	14.9	15.4	15.8
90°	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1	10.4	10.7	10.4
92.5°	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5	34.6	40.9	40.4
95°	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6	108.1	123.5	109.3
97.5°	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6	221.1	210.8	158.8
100°	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7	294.3	248.9	171.4
102.5°	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9	321.5	250.1	166.6
105°	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8	317.3	233.4	157.2
107.5°	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1	289.6	215.5	152.6
110°	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7	272.2	207.0	151.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0	260.1	201.4	151.8
115°	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1	245.1	195.4	153.1
117.5°	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8	235.7	192.3	155.4
120°	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3	230.6	190.6	156.9
122.5°	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5	226.3	189.6	158.6
125°	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6	220.3	187.8	161.3
127.5°	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8	214.5	186.7	164.0
130°	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5	210.8	186.2	166.0
132.5°	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5	207.8	185.9	168.1
135°	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0	203.5	185.6	170.5
137.5°	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3	200.5	185.5	172.6
140°	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9	198.8	185.3	173.6
142.5°	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5	197.1	185.3	174.3
145°	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5	194.7	184.6	175.1
147.5°	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6	192.3	183.5	175.4
150°	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9	190.3	182.7	175.1
152.5°	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1	188.5	181.5	174.7
155°	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3	185.3	179.2	173.9
157.5°	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8	182.2	177.0	172.5
160°	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0	179.9	175.5	171.7
162.5°	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2	177.9	174.2	170.9
165°	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1	174.5	171.7	169.5
167.5°	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1	171.3	169.5	168.1
170°	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1	169.5	168.3	167.3
172.5°	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8	167.7	166.7	166.3
175°	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4	165.4	165.1	164.8
177.5°	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6	164.1	163.8	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	15.9	15.4	15.2	15.9	14.4	14.3	12.1	10.4	10.2	10.0	9.2
90°	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4	1.2	2.5	3.1
92.5°	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8	5.5	7.8	9.2
95°	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1	12.3	15.4	18.3
97.5°	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9	19.6	23.0	27.3
100°	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3	25.2	28.0	33.1
102.5°	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1	30.8	33.6	38.6
105°	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4	39.7	41.9	46.6
107.5°	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5	48.5	50.6	55.0
110°	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6	54.8	56.7	60.8



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1	60.4	62.5	66.3
115°	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8	69.3	71.2	75.0
117.5°	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7	77.9	79.8	83.2
120°	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2	83.5	85.4	88.2
122.5°	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6	88.5	90.4	93.5
125°	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5	95.5	97.4	101.1
127.5°	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0	101.3	104.0	108.2
130°	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3	104.6	107.7	112.2
132.5°	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4	107.9	111.3	115.9
135°	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9	112.2	115.9	120.6
137.5°	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2	116.7	120.5	125.6
140°	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5	119.8	123.5	128.6
142.5°	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7	122.8	126.3	131.3
145°	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6	128.0	131.1	135.8
147.5°	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0	132.9	135.9	140.3
150°	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5	136.4	138.9	143.0
152.5°	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0	139.5	142.0	145.5
155°	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0	144.3	146.2	149.6
157.5°	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1	148.5	150.0	153.0
160°	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9	151.2	152.5	155.0
162.5°	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7	153.5	154.8	156.8
165°	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9	156.6	157.2	159.1
167.5°	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5	159.2	159.7	161.0
170°	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3	160.7	161.0	161.9
172.5°	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3	161.9	161.8	162.7
175°	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5	163.2	162.9	163.5
177.5°	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1	163.5	163.4	163.8
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	8.8	8.6	8.4	8.8	8.7	8.3	7.8	7.7	7.6	6.8	6.8
90°	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1	9.5	10.1	10.4
92.5°	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5	23.5	21.0	19.0
95°	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6	63.3	50.1	43.2
97.5°	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6	157.6	123.5	100.8
100°	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7	248.6	205.5	167.3
102.5°	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9	341.1	309.5	269.1
105°	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8	418.4	422.5	412.1
107.5°	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1	412.8	445.5	460.7
110°	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7	395.1	435.4	461.3



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0	374.2	417.2	446.9
115°	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1	345.6	386.9	419.4
117.5°	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8	322.4	359.9	390.3
120°	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3	310.3	343.8	372.4
122.5°	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5	300.2	331.9	357.8
125°	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6	287.0	314.8	338.4
127.5°	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8	274.2	300.3	322.1
130°	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5	265.6	290.5	311.3
132.5°	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5	257.5	280.4	300.0
135°	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0	244.8	265.6	283.2
137.5°	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3	234.7	251.2	266.5
140°	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9	228.1	242.6	256.5
142.5°	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5	222.3	234.8	246.4
145°	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5	214.9	224.6	233.8
147.5°	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6	208.8	216.4	223.1
150°	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9	204.8	211.4	217.0
152.5°	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1	201.5	207.1	212.0
155°	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3	196.3	201.0	204.5
157.5°	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8	191.0	194.9	197.7
160°	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0	187.4	190.9	193.1
162.5°	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2	184.2	187.2	188.9
165°	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1	179.2	181.5	182.7
167.5°	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1	174.8	176.3	177.5
170°	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1	172.0	173.3	173.9
172.5°	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8	169.5	170.5	170.9
175°	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4	166.7	167.0	167.3
177.5°	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6	164.6	164.9	164.9
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	6.8	6.3	6.3	5.9	6.3	6.3	6.8	6.8	6.8	7.6	7.7
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1
92.5°	18.7	17.7	17.9	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5
95°	39.1	36.6	35.6	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6
97.5°	85.7	77.9	73.4	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6
100°	141.2	127.6	118.5	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7
102.5°	240.7	217.6	206.2	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9
105°	392.5	373.0	359.4	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8
107.5°	463.2	462.2	459.4	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1
110°	474.8	480.8	483.7	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	475.7	481.1	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0
115°	441.8	456.2	464.4	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1
117.5°	413.1	428.5	437.0	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8
120°	394.5	409.3	418.4	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3
122.5°	377.6	392.2	400.3	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5
125°	356.7	368.6	376.5	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6
127.5°	338.0	349.3	356.1	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8
130°	326.7	337.4	343.8	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5
132.5°	315.1	325.8	331.6	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5
135°	296.8	307.2	312.9	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0
137.5°	278.9	287.8	292.8	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3
140°	266.5	274.7	279.5	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9
142.5°	255.9	263.4	267.6	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5
145°	241.3	246.7	249.9	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5
147.5°	229.3	233.6	235.8	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6
150°	221.8	225.6	227.5	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9
152.5°	215.8	219.0	220.4	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1
155°	207.9	210.2	211.4	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3
157.5°	200.1	202.0	202.5	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8
160°	195.4	196.9	197.2	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0
162.5°	191.1	192.2	192.4	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2
165°	184.0	185.3	185.3	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1
167.5°	178.0	178.7	178.6	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1
170°	174.2	175.1	174.9	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1
172.5°	171.2	171.7	171.3	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8
175°	167.3	167.6	167.3	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4
177.5°	164.9	164.9	164.6	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	7.8	8.3	8.7	8.8	8.4	8.6	8.8	9.2	10.0	10.2	10.4
90°	10.4	10.7	10.4	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4
92.5°	34.6	40.9	40.4	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8
95°	108.1	123.5	109.3	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1
97.5°	221.1	210.8	158.8	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9
100°	294.3	248.9	171.4	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3
102.5°	321.5	250.1	166.6	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1
105°	317.3	233.4	157.2	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4
107.5°	289.6	215.5	152.6	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5
110°	272.2	207.0	151.6	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.1	201.4	151.8	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1
115°	245.1	195.4	153.1	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8
117.5°	235.7	192.3	155.4	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7
120°	230.6	190.6	156.9	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2
122.5°	226.3	189.6	158.6	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6
125°	220.3	187.8	161.3	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5
127.5°	214.5	186.7	164.0	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0
130°	210.8	186.2	166.0	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3
132.5°	207.8	185.9	168.1	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4
135°	203.5	185.6	170.5	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9
137.5°	200.5	185.5	172.6	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2
140°	198.8	185.3	173.6	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5
142.5°	197.1	185.3	174.3	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7
145°	194.7	184.6	175.1	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6
147.5°	192.3	183.5	175.4	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0
150°	190.3	182.7	175.1	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5
152.5°	188.5	181.5	174.7	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0
155°	185.3	179.2	173.9	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0
157.5°	182.2	177.0	172.5	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1
160°	179.9	175.5	171.7	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9
162.5°	177.9	174.2	170.9	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7
165°	174.5	171.7	169.5	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9
167.5°	171.3	169.5	168.1	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5
170°	169.5	168.3	167.3	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3
172.5°	167.7	166.7	166.3	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3
175°	165.4	165.1	164.8	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5
177.5°	164.1	163.8	164.1	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331377-940

CATALOG NUMBER: SA2XXDIP-C865D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.1	14.3	14.4	15.9	15.2	15.4	15.9	15.8	15.4	14.9	14.4
90°	1.2	2.5	3.1	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1
92.5°	5.5	7.8	9.2	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5
95°	12.3	15.4	18.3	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6
97.5°	19.6	23.0	27.3	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6
100°	25.2	28.0	33.1	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7
102.5°	30.8	33.6	38.6	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9
105°	39.7	41.9	46.6	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8
107.5°	48.5	50.6	55.0	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1
110°	54.8	56.7	60.8	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.4	62.5	66.3	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0
115°	69.3	71.2	75.0	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1
117.5°	77.9	79.8	83.2	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8
120°	83.5	85.4	88.2	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3
122.5°	88.5	90.4	93.5	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5
125°	95.5	97.4	101.1	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6
127.5°	101.3	104.0	108.2	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8
130°	104.6	107.7	112.2	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5
132.5°	107.9	111.3	115.9	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5
135°	112.2	115.9	120.6	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0
137.5°	116.7	120.5	125.6	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3
140°	119.8	123.5	128.6	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9
142.5°	122.8	126.3	131.3	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5
145°	128.0	131.1	135.8	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5
147.5°	132.9	135.9	140.3	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6
150°	136.4	138.9	143.0	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9
152.5°	139.5	142.0	145.5	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1
155°	144.3	146.2	149.6	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3
157.5°	148.5	150.0	153.0	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8
160°	151.2	152.5	155.0	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0
162.5°	153.5	154.8	156.8	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2
165°	156.6	157.2	159.1	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1
167.5°	159.2	159.7	161.0	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1
170°	160.7	161.0	161.9	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1
172.5°	161.9	161.8	162.7	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8
175°	163.2	162.9	163.5	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4
177.5°	163.5	163.4	163.8	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	14.7	14.8	14.4	14.4	14.9	14.4	14.4
90°	9.5	10.1	10.4	10.4	10.4	10.4	10.4
92.5°	23.5	21.0	19.0	18.7	17.7	17.9	17.5
95°	63.3	50.1	43.2	39.1	36.6	35.6	35.9
97.5°	157.6	123.5	100.8	85.7	77.9	73.4	70.7
100°	248.6	205.5	167.3	141.2	127.6	118.5	112.8
102.5°	341.1	309.5	269.1	240.7	217.6	206.2	198.5
105°	418.4	422.5	412.1	392.5	373.0	359.4	355.1
107.5°	412.8	445.5	460.7	463.2	462.2	459.4	453.6
110°	395.1	435.4	461.3	474.8	480.8	483.7	483.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.2	417.2	446.9	465.7	475.7	481.1	482.8
115°	345.6	386.9	419.4	441.8	456.2	464.4	467.3
117.5°	322.4	359.9	390.3	413.1	428.5	437.0	439.4
120°	310.3	343.8	372.4	394.5	409.3	418.4	421.6
122.5°	300.2	331.9	357.8	377.6	392.2	400.3	402.9
125°	287.0	314.8	338.4	356.7	368.6	376.5	379.1
127.5°	274.2	300.3	322.1	338.0	349.3	356.1	358.1
130°	265.6	290.5	311.3	326.7	337.4	343.8	346.3
132.5°	257.5	280.4	300.0	315.1	325.8	331.6	333.9
135°	244.8	265.6	283.2	296.8	307.2	312.9	314.1
137.5°	234.7	251.2	266.5	278.9	287.8	292.8	294.7
140°	228.1	242.6	256.5	266.5	274.7	279.5	281.3
142.5°	222.3	234.8	246.4	255.9	263.4	267.6	268.0
145°	214.9	224.6	233.8	241.3	246.7	249.9	250.7
147.5°	208.8	216.4	223.1	229.3	233.6	235.8	236.4
150°	204.8	211.4	217.0	221.8	225.6	227.5	227.8
152.5°	201.5	207.1	212.0	215.8	219.0	220.4	220.5
155°	196.3	201.0	204.5	207.9	210.2	211.4	210.8
157.5°	191.0	194.9	197.7	200.1	202.0	202.5	202.5
160°	187.4	190.9	193.1	195.4	196.9	197.2	197.2
162.5°	184.2	187.2	188.9	191.1	192.2	192.4	192.2
165°	179.2	181.5	182.7	184.0	185.3	185.3	184.9
167.5°	174.8	176.3	177.5	178.0	178.7	178.6	178.3
170°	172.0	173.3	173.9	174.2	175.1	174.9	174.2
172.5°	169.5	170.5	170.9	171.2	171.7	171.3	170.9
175°	166.7	167.0	167.3	167.3	167.6	167.3	166.7
177.5°	164.6	164.9	164.9	164.9	164.9	164.6	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8

(END OF REPORT)