

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: P331713-940

Luminaire Tested: **SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331713-940
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: SA2XXRDIP-C865D530U940-4F0-1E-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

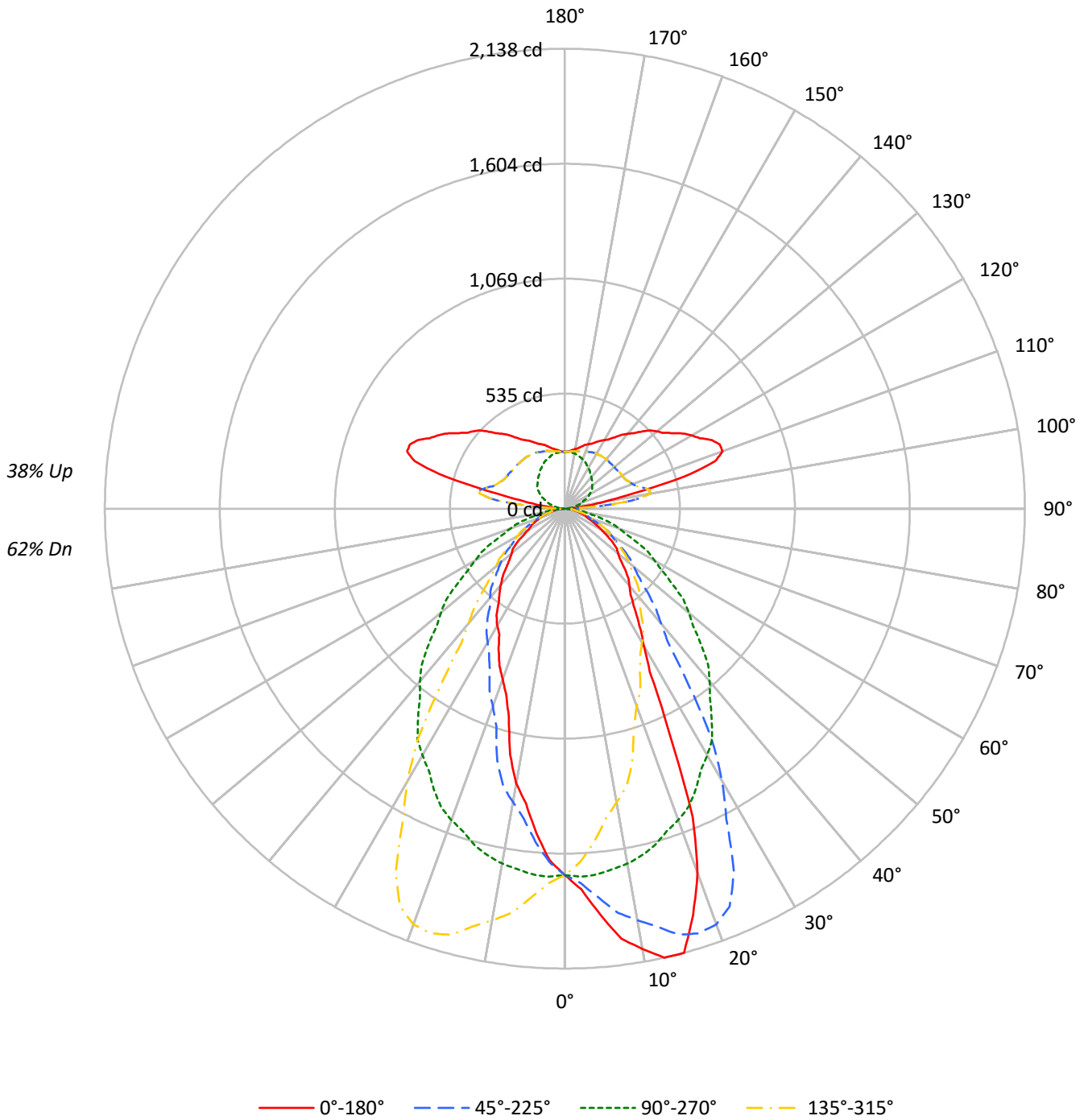
Lumens per Lamp: N/A
Luminaire Lumens: 4785.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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									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	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°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.4
10°-20°	449.8	9.4
20°-30°	579.6	12.1
30°-40°	550.8	11.5
40°-50°	471.8	9.9
50°-60°	359.3	7.5
60°-70°	227.1	4.7
70°-80°	113.4	2.4
80°-90°	31.9	0.7
90°-100°	105.7	2.2
100°-110°	358.8	7.5
110°-120°	381.2	8.0
120°-130°	313.8	6.6
130°-140°	252.0	5.3
140°-150°	190.4	4.0
150°-160°	133.8	2.8
160°-170°	78.8	1.6
170°-180°	25.6	0.5
0°-30°	1190.8	24.9
0°-40°	1741.6	36.4
0°-60°	2572.7	53.8
0°-90°	2945.2	61.5
90°-120°	845.7	17.7
90°-150°	1601.9	33.5
90°-180°	1840.0	38.5
0°-180°	4785.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	23
90°	17	0	17	0	17	10
95°	58	18	58	18	58	75
105°	573	62	573	62	573	555
115°	754	109	754	109	754	738
125°	612	153	612	153	612	553
135°	507	179	507	179	507	394
145°	405	204	405	204	405	257
155°	340	232	340	232	340	159
165°	298	253	298	253	298	85
175°	269	264	269	264	269	26
180°	264	264	264	264	264	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	11.0	11.4	11.4	11.4	11.4	11.3	11.1	11.8	11.4	11.9	11.4
90°	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2	16.8	17.3	16.8
92.5°	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3	55.8	66.1	65.2
95°	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2	174.4	199.4	176.5
97.5°	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9	357.0	340.3	256.3
100°	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3	474.9	401.7	276.6
102.5°	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8	518.9	403.8	268.9
105°	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9	512.1	376.8	253.8
107.5°	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6	467.4	347.9	246.2
110°	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7	439.3	334.1	244.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6	419.8	325.1	245.0
115°	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6	395.7	315.3	247.2
117.5°	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7	380.4	310.5	250.8
120°	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8	372.3	307.6	253.2
122.5°	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9	365.3	306.0	256.1
125°	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9	355.4	303.1	260.4
127.5°	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1	346.3	301.4	264.7
130°	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0	340.2	300.5	268.0
132.5°	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2	335.3	300.1	271.3
135°	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6	328.5	299.5	275.1
137.5°	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7	323.7	299.4	278.6
140°	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8	320.9	299.0	280.2
142.5°	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0	318.1	299.0	281.4
145°	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0	314.2	298.0	282.8
147.5°	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9	310.4	296.1	283.1
150°	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3	307.2	295.0	282.8
152.5°	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9	304.3	292.9	282.0
155°	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7	299.0	289.4	280.7
157.5°	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5	294.0	285.7	278.4
160°	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9	290.3	283.3	277.1
162.5°	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5	287.1	281.2	275.9
165°	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8	281.7	277.1	273.6
167.5°	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4	276.4	273.6	271.3
170°	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2	273.6	271.5	270.0
172.5°	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5	270.7	269.1	268.4
175°	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5	267.0	266.4	266.0
177.5°	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6	264.8	264.4	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	10.8	10.5	10.1	9.3	9.5	9.8	11.8	13.8	12.2	11.2	10.5
90°	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5	2.1	4.1	5.1
92.5°	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2	8.9	12.6	14.9
95°	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8	19.8	24.9	29.5
97.5°	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0	31.7	37.1	44.1
100°	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1	40.7	45.3	53.4
102.5°	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5	49.7	54.2	62.3
105°	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1	64.1	67.6	75.3
107.5°	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7	78.3	81.8	88.8
110°	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4	88.5	91.6	98.2



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4	97.5	100.9	107.1
115°	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3	111.9	114.9	121.0
117.5°	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8	125.8	128.9	134.3
120°	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7	134.7	137.8	142.4
122.5°	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2	142.9	146.0	151.0
125°	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6	154.1	157.1	163.3
127.5°	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5	163.5	167.8	174.5
130°	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8	168.8	173.9	181.0
132.5°	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7	174.2	179.6	187.2
135°	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0	181.0	187.2	194.7
137.5°	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9	188.3	194.5	202.6
140°	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2	193.2	199.4	207.5
142.5°	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5	198.1	203.8	212.0
145°	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5	206.4	211.5	219.2
147.5°	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9	214.5	219.4	226.4
150°	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6	220.2	224.3	230.9
152.5°	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4	225.1	229.2	235.0
155°	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4	232.9	235.9	241.6
157.5°	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1	239.6	242.1	246.9
160°	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6	244.1	246.1	250.2
162.5°	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1	247.7	249.8	253.1
165°	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2	252.7	253.8	256.8
167.5°	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5	256.9	257.8	259.8
170°	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4	259.3	259.8	261.4
172.5°	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0	261.4	261.1	262.6
175°	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9	263.4	262.9	263.9
177.5°	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8	264.0	263.6	264.4
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	10.3	10.1	9.6	10.3	11.0	10.5	10.4	9.9	9.7	9.9	9.5
90°	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2	15.2	16.2	16.8
92.5°	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3	38.1	33.8	30.6
95°	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2	102.2	80.9	69.6
97.5°	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9	254.4	199.4	162.6
100°	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3	401.3	331.5	270.0
102.5°	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8	550.5	499.6	434.4
105°	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9	675.3	682.0	665.1
107.5°	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6	666.2	719.1	743.7
110°	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7	637.7	702.8	744.5



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6	604.0	673.5	721.3
115°	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6	557.9	624.5	676.9
117.5°	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7	520.4	580.9	630.0
120°	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8	500.9	554.8	601.1
122.5°	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9	484.6	535.7	577.5
125°	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9	463.2	508.0	546.2
127.5°	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1	442.6	484.7	520.0
130°	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0	428.7	468.9	502.4
132.5°	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2	415.7	452.6	484.1
135°	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6	395.1	428.7	457.2
137.5°	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7	378.8	405.4	430.3
140°	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8	368.2	391.6	413.9
142.5°	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0	358.8	379.0	397.7
145°	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0	346.8	362.6	377.4
147.5°	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9	337.1	349.4	360.2
150°	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3	330.6	341.3	350.4
152.5°	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9	325.3	334.3	342.2
155°	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7	316.8	324.4	330.0
157.5°	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5	308.3	314.7	319.1
160°	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9	302.6	308.2	311.7
162.5°	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5	297.3	302.1	304.8
165°	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8	289.4	292.9	295.0
167.5°	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4	282.1	284.5	286.4
170°	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2	277.7	279.7	280.7
172.5°	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5	273.6	275.2	275.8
175°	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5	269.0	269.6	270.0
177.5°	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6	265.6	266.1	266.1
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	9.5	9.0	9.5	9.0	9.5	9.0	9.5	9.5	9.9	9.7	9.9
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2
92.5°	30.2	28.6	29.0	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3
95°	63.0	59.0	57.4	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2
97.5°	138.3	125.8	118.4	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9
100°	227.8	206.0	191.2	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3
102.5°	388.5	351.2	332.8	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8
105°	633.6	602.1	580.2	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9
107.5°	747.6	745.9	741.5	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6
110°	766.3	776.1	780.6	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	751.7	767.9	776.5	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6
115°	712.9	736.4	749.6	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6
117.5°	666.8	691.5	705.4	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7
120°	636.7	660.6	675.3	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8
122.5°	609.4	632.9	646.0	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9
125°	575.7	594.9	607.7	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9
127.5°	545.6	563.7	574.7	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1
130°	527.4	544.7	554.8	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0
132.5°	508.6	525.9	535.3	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2
135°	479.0	495.8	505.0	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6
137.5°	450.1	464.6	472.6	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7
140°	430.3	443.4	451.0	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8
142.5°	413.1	425.2	431.9	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0
145°	389.5	398.1	403.2	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0
147.5°	370.2	377.1	380.6	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9
150°	358.0	364.1	367.1	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3
152.5°	348.2	353.6	355.8	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9
155°	335.6	339.2	341.3	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7
157.5°	323.0	326.0	326.9	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5
160°	315.3	317.8	318.3	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9
162.5°	308.4	310.1	310.6	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5
165°	296.9	299.0	299.0	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8
167.5°	287.3	288.5	288.4	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4
170°	281.2	282.8	282.2	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2
172.5°	276.3	277.1	276.5	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5
175°	270.0	270.5	270.0	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5
177.5°	266.1	266.1	265.6	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331713-940
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	10.4	10.5	11.0	10.3	9.6	10.1	10.3	10.5	11.2	12.2	13.8
90°	16.8	17.3	16.8	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5
92.5°	55.8	66.1	65.2	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2
95°	174.4	199.4	176.5	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8
97.5°	357.0	340.3	256.3	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0
100°	474.9	401.7	276.6	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1
102.5°	518.9	403.8	268.9	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5
105°	512.1	376.8	253.8	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1
107.5°	467.4	347.9	246.2	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7
110°	439.3	334.1	244.6	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4



TEST NUMBER: P331713-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	419.8	325.1	245.0	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4
115°	395.7	315.3	247.2	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3
117.5°	380.4	310.5	250.8	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8
120°	372.3	307.6	253.2	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7
122.5°	365.3	306.0	256.1	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2
125°	355.4	303.1	260.4	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6
127.5°	346.3	301.4	264.7	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5
130°	340.2	300.5	268.0	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8
132.5°	335.3	300.1	271.3	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7
135°	328.5	299.5	275.1	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0
137.5°	323.7	299.4	278.6	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9
140°	320.9	299.0	280.2	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2
142.5°	318.1	299.0	281.4	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5
145°	314.2	298.0	282.8	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5
147.5°	310.4	296.1	283.1	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9
150°	307.2	295.0	282.8	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6
152.5°	304.3	292.9	282.0	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4
155°	299.0	289.4	280.7	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4
157.5°	294.0	285.7	278.4	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1
160°	290.3	283.3	277.1	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6
162.5°	287.1	281.2	275.9	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1
165°	281.7	277.1	273.6	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2
167.5°	276.4	273.6	271.3	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5
170°	273.6	271.5	270.0	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4
172.5°	270.7	269.1	268.4	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0
175°	267.0	266.4	266.0	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9
177.5°	264.8	264.4	264.8	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331713-940

CATALOG NUMBER: SA2XXRDIP-C865D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	11.8	9.8	9.5	9.3	10.1	10.5	10.8	11.4	11.9	11.4	11.8
90°	2.1	4.1	5.1	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2
92.5°	8.9	12.6	14.9	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3
95°	19.8	24.9	29.5	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2
97.5°	31.7	37.1	44.1	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9
100°	40.7	45.3	53.4	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3
102.5°	49.7	54.2	62.3	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8
105°	64.1	67.6	75.3	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9
107.5°	78.3	81.8	88.8	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6
110°	88.5	91.6	98.2	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.5	100.9	107.1	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6
115°	111.9	114.9	121.0	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6
117.5°	125.8	128.9	134.3	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7
120°	134.7	137.8	142.4	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8
122.5°	142.9	146.0	151.0	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9
125°	154.1	157.1	163.3	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9
127.5°	163.5	167.8	174.5	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1
130°	168.8	173.9	181.0	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0
132.5°	174.2	179.6	187.2	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2
135°	181.0	187.2	194.7	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6
137.5°	188.3	194.5	202.6	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7
140°	193.2	199.4	207.5	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8
142.5°	198.1	203.8	212.0	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0
145°	206.4	211.5	219.2	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0
147.5°	214.5	219.4	226.4	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9
150°	220.2	224.3	230.9	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3
152.5°	225.1	229.2	235.0	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9
155°	232.9	235.9	241.6	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7
157.5°	239.6	242.1	246.9	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5
160°	244.1	246.1	250.2	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9
162.5°	247.7	249.8	253.1	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5
165°	252.7	253.8	256.8	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8
167.5°	256.9	257.8	259.8	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4
170°	259.3	259.8	261.4	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2
172.5°	261.4	261.1	262.6	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5
175°	263.4	262.9	263.9	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5
177.5°	264.0	263.6	264.4	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	11.1	11.3	11.4	11.4	11.4	11.4	11.0
90°	15.2	16.2	16.8	16.8	16.8	16.8	16.8
92.5°	38.1	33.8	30.6	30.2	28.6	29.0	28.2
95°	102.2	80.9	69.6	63.0	59.0	57.4	58.0
97.5°	254.4	199.4	162.6	138.3	125.8	118.4	114.1
100°	401.3	331.5	270.0	227.8	206.0	191.2	182.1
102.5°	550.5	499.6	434.4	388.5	351.2	332.8	320.4
105°	675.3	682.0	665.1	633.6	602.1	580.2	573.1
107.5°	666.2	719.1	743.7	747.6	745.9	741.5	732.1
110°	637.7	702.8	744.5	766.3	776.1	780.6	780.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	604.0	673.5	721.3	751.7	767.9	776.5	779.3
115°	557.9	624.5	676.9	712.9	736.4	749.6	754.1
117.5°	520.4	580.9	630.0	666.8	691.5	705.4	709.3
120°	500.9	554.8	601.1	636.7	660.6	675.3	680.4
122.5°	484.6	535.7	577.5	609.4	632.9	646.0	650.3
125°	463.2	508.0	546.2	575.7	594.9	607.7	611.8
127.5°	442.6	484.7	520.0	545.6	563.7	574.7	578.0
130°	428.7	468.9	502.4	527.4	544.7	554.8	558.8
132.5°	415.7	452.6	484.1	508.6	525.9	535.3	539.0
135°	395.1	428.7	457.2	479.0	495.8	505.0	507.0
137.5°	378.8	405.4	430.3	450.1	464.6	472.6	475.6
140°	368.2	391.6	413.9	430.3	443.4	451.0	454.1
142.5°	358.8	379.0	397.7	413.1	425.2	431.9	432.6
145°	346.8	362.6	377.4	389.5	398.1	403.2	404.7
147.5°	337.1	349.4	360.2	370.2	377.1	380.6	381.5
150°	330.6	341.3	350.4	358.0	364.1	367.1	367.7
152.5°	325.3	334.3	342.2	348.2	353.6	355.8	355.9
155°	316.8	324.4	330.0	335.6	339.2	341.3	340.2
157.5°	308.3	314.7	319.1	323.0	326.0	326.9	326.9
160°	302.6	308.2	311.7	315.3	317.8	318.3	318.3
162.5°	297.3	302.1	304.8	308.4	310.1	310.6	310.2
165°	289.4	292.9	295.0	296.9	299.0	299.0	298.5
167.5°	282.1	284.5	286.4	287.3	288.5	288.4	287.8
170°	277.7	279.7	280.7	281.2	282.8	282.2	281.2
172.5°	273.6	275.2	275.8	276.3	277.1	276.5	275.9
175°	269.0	269.6	270.0	270.0	270.5	270.0	269.0
177.5°	265.6	266.1	266.1	266.1	266.1	265.6	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4

(END OF REPORT)