

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: P331830-930

Luminaire Tested: **S122RDIW-S865D710U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331830-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D710U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

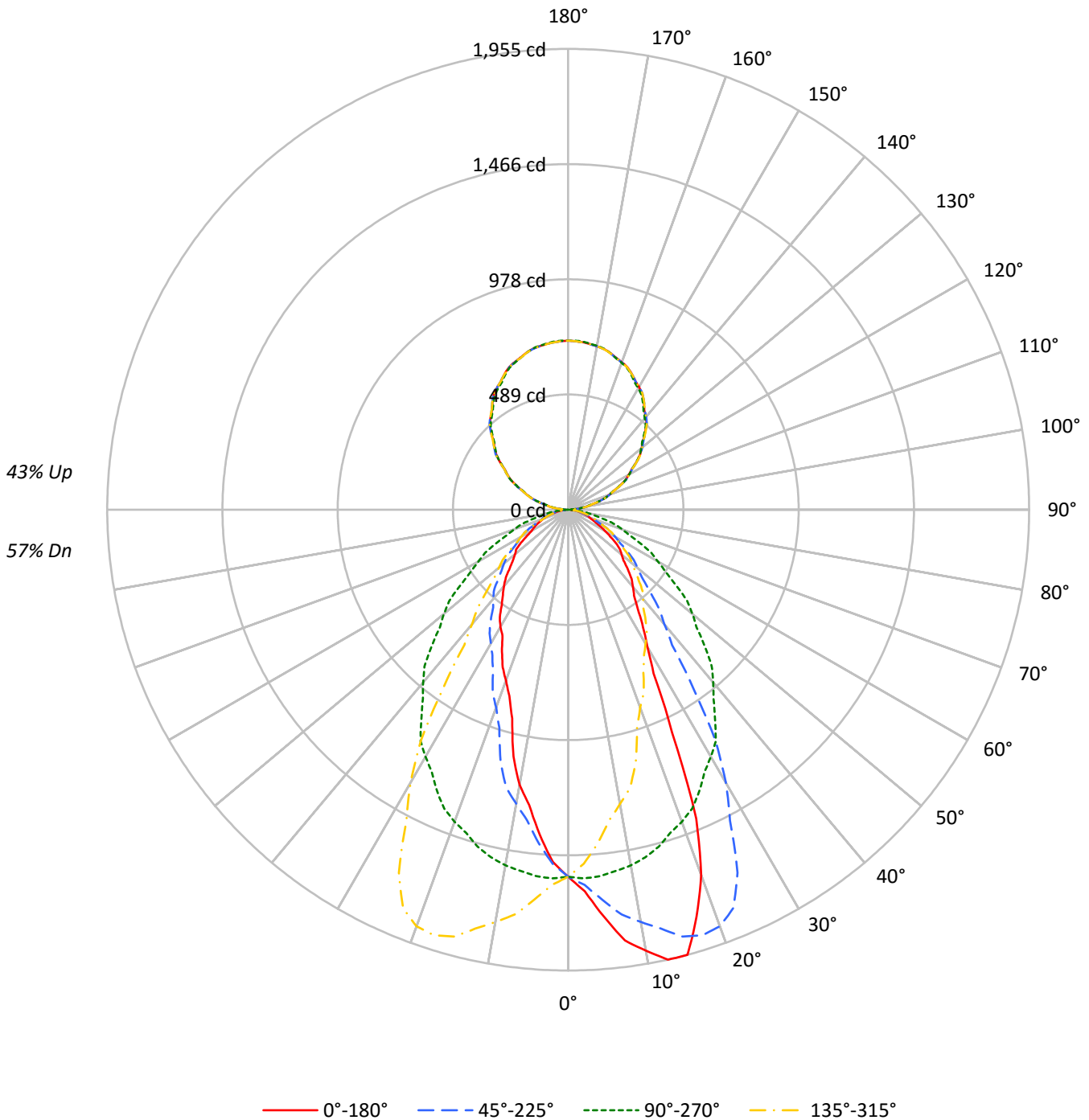
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	96	93	89	93	90	87	84	78	76	74	67	65	64	57	56	55	50
2	92	85	79	75	86	80	75	70	69	66	62	60	57	55	51	49	48	43
3	85	76	69	63	79	71	65	60	62	58	54	54	50	48	46	44	42	38
4	78	68	60	55	73	64	57	52	56	51	47	49	45	42	42	39	37	33
5	72	61	53	48	67	57	51	45	51	45	41	44	40	37	38	35	33	30
6	67	55	47	42	62	52	45	40	46	41	36	41	36	33	35	32	29	27
7	62	50	43	37	58	48	41	36	42	37	33	37	33	30	33	29	27	24
8	58	46	39	33	54	44	37	32	39	33	29	34	30	27	30	27	24	22
9	54	42	35	30	51	40	34	29	36	31	27	32	28	24	28	25	22	20
10	51	39	32	27	48	37	31	26	33	28	24	30	25	22	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.1
10°-20°	411.2	8.8
20°-30°	529.9	11.3
30°-40°	503.6	10.7
40°-50°	431.4	9.2
50°-60°	328.5	7.0
60°-70°	207.7	4.4
70°-80°	103.7	2.2
80°-90°	29.9	0.6
90°-100°	45.4	1.0
100°-110°	141.1	3.0
110°-120°	241.2	5.1
120°-130°	317.1	6.8
130°-140°	356.0	7.6
140°-150°	349.0	7.4
150°-160°	292.8	6.2
160°-170°	194.2	4.1
170°-180°	67.9	1.4
0°-30°	1088.7	23.2
0°-40°	1592.3	33.9
0°-60°	2352.3	50.1
0°-90°	2693.5	57.3
90°-120°	427.7	9.1
90°-150°	1449.8	30.9
90°-180°	2005.0	42.7
0°-180°	4698.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	21
90°	20	1	20	1	20	10
95°	38	32	38	32	38	42
105°	134	130	134	130	134	141
115°	242	242	242	242	242	239
125°	353	352	353	352	353	315
135°	461	456	461	456	461	355
145°	559	553	559	553	559	349
155°	637	632	637	632	637	293
165°	688	688	688	688	688	194
175°	713	716	713	716	713	68
180°	717	717	717	717	717	



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	11.0	11.4	11.4	11.4	11.3	11.4	11.4	11.9	11.6	12.0	11.0
90°	20.5	20.5	20.3	20.1	20.1	20.1	20.4	20.6	20.9	21.2	18.2
92.5°	19.6	19.6	19.6	19.5	19.5	19.5	19.4	19.3	19.3	19.2	18.5
95°	37.5	37.7	38.1	38.3	38.6	38.7	38.7	38.7	38.7	38.7	38.5
97.5°	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	64.6
100°	82.9	83.0	83.2	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.1
102.5°	103.2	103.4	103.5	103.6	103.8	103.8	103.6	103.5	103.5	103.3	102.8
105°	134.3	134.3	134.3	134.3	134.3	134.2	133.9	133.6	133.4	133.1	132.8
107.5°	163.6	164.2	164.9	165.4	166.1	166.3	166.2	166.1	166.0	165.9	165.9
110°	186.4	186.7	187.1	187.5	187.9	188.2	188.2	188.2	188.2	188.2	188.2



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	208.1	208.4	208.7	209.0	209.3	209.6	209.9	210.3	210.6	210.9	211.0
115°	242.0	242.4	242.8	243.2	243.6	243.9	244.0	244.2	244.3	244.4	244.7
117.5°	274.3	274.7	275.1	275.5	275.9	276.3	276.6	277.0	277.3	277.6	278.3
120°	297.0	297.4	297.8	298.2	298.6	298.9	298.9	298.9	298.9	298.9	299.9
122.5°	319.4	319.6	319.9	320.2	320.5	320.8	321.1	321.5	321.8	322.1	322.9
125°	353.4	353.4	353.6	353.8	353.8	354.1	354.5	354.9	355.3	355.7	356.1
127.5°	384.3	384.7	385.1	385.6	386.0	386.5	386.9	387.4	387.9	388.4	388.9
130°	406.6	407.1	407.6	408.1	408.7	409.1	409.4	409.7	409.9	410.2	410.4
132.5°	427.9	428.3	428.7	429.2	429.6	430.1	430.6	431.3	431.9	432.4	432.4
135°	461.0	461.4	461.8	462.2	462.6	462.9	463.0	463.2	463.3	463.4	463.2
137.5°	491.0	491.5	492.1	492.6	493.2	493.5	493.6	493.7	493.8	493.9	493.6
140°	511.8	512.3	512.9	513.5	514.0	514.2	514.2	514.2	514.2	514.2	513.6
142.5°	530.7	531.2	531.7	532.3	532.9	533.0	533.0	532.9	532.7	532.6	532.1
145°	559.1	559.5	560.1	560.6	561.2	561.3	561.3	561.1	560.9	560.8	560.0
147.5°	584.3	584.8	585.3	585.9	586.4	586.4	586.1	585.9	585.5	585.3	584.7
150°	600.8	601.2	601.5	601.9	602.3	602.3	601.9	601.5	601.2	600.8	600.2
152.5°	616.3	616.8	617.3	617.8	618.3	618.3	617.8	617.3	616.8	616.3	615.6
155°	637.1	637.5	637.9	638.3	638.7	638.5	637.9	637.2	636.5	635.9	635.4
157.5°	654.9	655.6	656.2	656.9	657.5	657.4	656.5	655.6	654.7	653.8	653.5
160°	666.1	666.7	667.2	667.7	668.2	668.1	667.3	666.5	665.7	664.9	664.7
162.5°	675.8	676.5	677.1	677.7	678.3	678.2	677.4	676.4	675.5	674.6	674.4
165°	688.5	689.2	689.8	690.5	691.2	691.0	690.1	689.2	688.2	687.3	687.3
167.5°	698.9	699.6	700.3	701.0	701.6	701.6	700.6	699.7	698.7	697.8	697.8
170°	704.2	705.0	705.8	706.6	707.4	707.4	706.5	705.5	704.6	703.6	703.8
172.5°	708.6	709.4	710.2	711.0	711.8	711.8	710.8	709.9	708.9	707.9	708.1
175°	713.3	714.1	714.9	715.7	716.5	716.5	715.5	714.5	713.6	712.7	713.0
177.5°	715.4	716.1	716.7	717.4	718.0	718.0	717.4	716.7	716.1	715.4	715.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	10.4	10.3	9.6	8.8	8.9	9.0	10.8	12.6	11.3	10.3	9.8
90°	15.2	12.3	9.4	7.1	5.5	3.8	2.2	0.6	2.2	3.8	5.5
92.5°	17.9	17.1	16.5	15.5	14.3	13.1	12.0	10.8	12.0	13.1	14.3
95°	38.2	37.9	37.7	36.9	35.5	34.2	32.8	31.5	32.8	34.2	35.5
97.5°	64.1	63.6	63.0	62.2	61.0	59.8	58.6	57.5	58.6	59.8	61.0
100°	82.7	82.3	81.9	81.1	80.1	79.0	77.9	76.8	77.9	79.0	80.1
102.5°	102.3	101.8	101.3	100.6	99.7	98.9	98.0	97.2	98.0	98.9	99.7
105°	132.6	132.3	132.0	131.7	131.3	130.9	130.4	130.0	130.4	130.9	131.3
107.5°	165.9	165.9	165.9	165.6	165.0	164.4	163.8	163.2	163.8	164.4	165.0
110°	188.2	188.2	188.2	187.8	186.9	186.1	185.3	184.5	185.3	186.1	186.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.1	211.2	211.3	211.0	210.2	209.4	208.6	207.7	208.6	209.4	210.2
115°	244.9	245.2	245.5	245.2	244.4	243.6	242.8	242.0	242.8	243.6	244.4
117.5°	279.1	279.8	280.5	280.4	279.3	278.3	277.2	276.1	277.2	278.3	279.3
120°	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9	299.9	301.0	302.1
122.5°	323.6	324.3	325.1	324.8	323.5	322.3	321.0	319.7	321.0	322.3	323.5
125°	356.5	356.9	357.3	356.9	355.7	354.5	353.4	352.1	353.4	354.5	355.7
127.5°	389.4	389.9	390.4	389.8	388.2	386.8	385.2	383.7	385.2	386.8	388.2
130°	410.7	411.0	411.2	410.5	408.8	407.0	405.3	403.5	405.3	407.0	408.8
132.5°	432.4	432.3	432.3	431.5	430.1	428.7	427.2	425.8	427.2	428.7	430.1
135°	462.9	462.6	462.4	461.5	460.0	458.5	457.1	455.6	457.1	458.5	460.0
137.5°	493.3	492.8	492.5	491.7	490.6	489.3	488.1	486.9	488.1	489.3	490.6
140°	512.9	512.3	511.5	510.6	509.4	508.2	507.0	505.8	507.0	508.2	509.4
142.5°	531.7	531.2	530.8	529.9	528.8	527.6	526.4	525.1	526.4	527.6	528.8
145°	559.2	558.4	557.6	556.8	555.8	554.8	553.9	552.9	553.9	554.8	555.8
147.5°	584.2	583.7	583.1	582.3	581.1	580.0	578.9	577.8	578.9	580.0	581.1
150°	599.7	599.2	598.6	597.9	597.1	596.3	595.5	594.7	595.5	596.3	597.1
152.5°	615.0	614.3	613.7	612.9	612.1	611.3	610.5	609.7	610.5	611.3	612.1
155°	635.0	634.6	634.2	633.8	633.4	633.0	632.6	632.2	632.6	633.0	633.4
157.5°	653.3	653.1	652.8	652.6	652.2	652.0	651.8	651.4	651.8	652.0	652.2
160°	664.6	664.5	664.4	664.1	663.9	663.6	663.3	663.1	663.3	663.6	663.9
162.5°	674.3	674.2	674.0	673.9	673.8	673.8	673.8	673.7	673.8	673.8	673.8
165°	687.3	687.3	687.3	687.4	687.5	687.6	687.7	687.9	687.7	687.6	687.5
167.5°	697.8	697.9	697.9	698.1	698.5	699.0	699.4	699.8	699.4	699.0	698.5
170°	703.8	704.0	704.2	704.4	704.8	705.2	705.6	706.0	705.6	705.2	704.8
172.5°	708.3	708.3	708.5	708.7	709.1	709.6	710.0	710.4	710.0	709.6	709.1
175°	713.2	713.5	713.8	714.1	714.5	714.9	715.3	715.7	715.3	714.9	714.5
177.5°	715.9	716.1	716.3	716.6	716.9	717.2	717.5	717.9	717.5	717.2	716.9
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	9.6	9.6	9.4	9.9	10.6	10.8	10.7	10.2	10.1	10.1	9.6
90°	7.1	9.4	12.3	15.2	18.2	21.2	20.9	20.6	20.4	20.1	20.1
92.5°	15.5	16.5	17.1	17.9	18.5	19.2	19.3	19.3	19.4	19.5	19.5
95°	36.9	37.7	37.9	38.2	38.5	38.7	38.7	38.7	38.7	38.7	38.6
97.5°	62.2	63.0	63.6	64.1	64.6	65.1	65.1	65.1	65.1	65.1	65.1
100°	81.1	81.9	82.3	82.7	83.1	83.5	83.5	83.5	83.5	83.5	83.4
102.5°	100.6	101.3	101.8	102.3	102.8	103.3	103.5	103.5	103.6	103.8	103.8
105°	131.7	132.0	132.3	132.6	132.8	133.1	133.4	133.6	133.9	134.2	134.3
107.5°	165.6	165.9	165.9	165.9	165.9	165.9	166.0	166.1	166.2	166.3	166.1
110°	187.8	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	187.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	211.0	211.3	211.2	211.1	211.0	210.9	210.6	210.3	209.9	209.6	209.3
115°	245.2	245.5	245.2	244.9	244.7	244.4	244.3	244.2	244.0	243.9	243.6
117.5°	280.4	280.5	279.8	279.1	278.3	277.6	277.3	277.0	276.6	276.3	275.9
120°	303.1	303.1	302.1	301.0	299.9	298.9	298.9	298.9	298.9	298.9	298.6
122.5°	324.8	325.1	324.3	323.6	322.9	322.1	321.8	321.5	321.1	320.8	320.5
125°	356.9	357.3	356.9	356.5	356.1	355.7	355.3	354.9	354.5	354.1	353.8
127.5°	389.8	390.4	389.9	389.4	388.9	388.4	387.9	387.4	386.9	386.5	386.0
130°	410.5	411.2	411.0	410.7	410.4	410.2	409.9	409.7	409.4	409.1	408.7
132.5°	431.5	432.3	432.3	432.4	432.4	432.4	431.9	431.3	430.6	430.1	429.6
135°	461.5	462.4	462.6	462.9	463.2	463.4	463.3	463.2	463.0	462.9	462.6
137.5°	491.7	492.5	492.8	493.3	493.6	493.9	493.8	493.7	493.6	493.5	493.2
140°	510.6	511.5	512.3	512.9	513.6	514.2	514.2	514.2	514.2	514.2	514.0
142.5°	529.9	530.8	531.2	531.7	532.1	532.6	532.7	532.9	533.0	533.0	532.9
145°	556.8	557.6	558.4	559.2	560.0	560.8	560.9	561.1	561.3	561.3	561.2
147.5°	582.3	583.1	583.7	584.2	584.7	585.3	585.5	585.9	586.1	586.4	586.4
150°	597.9	598.6	599.2	599.7	600.2	600.8	601.2	601.5	601.9	602.3	602.3
152.5°	612.9	613.7	614.3	615.0	615.6	616.3	616.8	617.3	617.8	618.3	618.3
155°	633.8	634.2	634.6	635.0	635.4	635.9	636.5	637.2	637.9	638.5	638.7
157.5°	652.6	652.8	653.1	653.3	653.5	653.8	654.7	655.6	656.5	657.4	657.5
160°	664.1	664.4	664.5	664.6	664.7	664.9	665.7	666.5	667.3	668.1	668.2
162.5°	673.9	674.0	674.2	674.3	674.4	674.6	675.5	676.4	677.4	678.2	678.3
165°	687.4	687.3	687.3	687.3	687.3	687.3	688.2	689.2	690.1	691.0	691.2
167.5°	698.1	697.9	697.9	697.8	697.8	697.8	698.7	699.7	700.6	701.6	701.6
170°	704.4	704.2	704.0	703.8	703.8	703.6	704.6	705.5	706.5	707.4	707.4
172.5°	708.7	708.5	708.3	708.3	708.1	707.9	708.9	709.9	710.8	711.8	711.8
175°	714.1	713.8	713.5	713.2	713.0	712.7	713.6	714.5	715.5	716.5	716.5
177.5°	716.6	716.3	716.1	715.9	715.7	715.4	716.1	716.7	717.4	718.0	718.0
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	9.6	9.2	9.7	9.3	9.7	9.2	9.6	9.6	10.1	10.1	10.2
90°	20.1	20.3	20.5	20.5	20.5	20.3	20.1	20.1	20.1	20.4	20.6
92.5°	19.5	19.6	19.6	19.6	19.6	19.6	19.5	19.5	19.5	19.4	19.3
95°	38.3	38.1	37.7	37.5	37.7	38.1	38.3	38.6	38.7	38.7	38.7
97.5°	65.1	65.1	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1
100°	83.3	83.2	83.0	82.9	83.0	83.2	83.3	83.4	83.5	83.5	83.5
102.5°	103.6	103.5	103.4	103.2	103.4	103.5	103.6	103.8	103.8	103.6	103.5
105°	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.2	133.9	133.6
107.5°	165.4	164.9	164.2	163.6	164.2	164.9	165.4	166.1	166.3	166.2	166.1
110°	187.5	187.1	186.7	186.4	186.7	187.1	187.5	187.9	188.2	188.2	188.2



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	209.0	208.7	208.4	208.1	208.4	208.7	209.0	209.3	209.6	209.9	210.3
115°	243.2	242.8	242.4	242.0	242.4	242.8	243.2	243.6	243.9	244.0	244.2
117.5°	275.5	275.1	274.7	274.3	274.7	275.1	275.5	275.9	276.3	276.6	277.0
120°	298.2	297.8	297.4	297.0	297.4	297.8	298.2	298.6	298.9	298.9	298.9
122.5°	320.2	319.9	319.6	319.4	319.6	319.9	320.2	320.5	320.8	321.1	321.5
125°	353.8	353.6	353.4	353.4	353.4	353.6	353.8	353.8	354.1	354.5	354.9
127.5°	385.6	385.1	384.7	384.3	384.7	385.1	385.6	386.0	386.5	386.9	387.4
130°	408.1	407.6	407.1	406.6	407.1	407.6	408.1	408.7	409.1	409.4	409.7
132.5°	429.2	428.7	428.3	427.9	428.3	428.7	429.2	429.6	430.1	430.6	431.3
135°	462.2	461.8	461.4	461.0	461.4	461.8	462.2	462.6	462.9	463.0	463.2
137.5°	492.6	492.1	491.5	491.0	491.5	492.1	492.6	493.2	493.5	493.6	493.7
140°	513.5	512.9	512.3	511.8	512.3	512.9	513.5	514.0	514.2	514.2	514.2
142.5°	532.3	531.7	531.2	530.7	531.2	531.7	532.3	532.9	533.0	533.0	532.9
145°	560.6	560.1	559.5	559.1	559.5	560.1	560.6	561.2	561.3	561.3	561.1
147.5°	585.9	585.3	584.8	584.3	584.8	585.3	585.9	586.4	586.4	586.1	585.9
150°	601.9	601.5	601.2	600.8	601.2	601.5	601.9	602.3	602.3	601.9	601.5
152.5°	617.8	617.3	616.8	616.3	616.8	617.3	617.8	618.3	618.3	617.8	617.3
155°	638.3	637.9	637.5	637.1	637.5	637.9	638.3	638.7	638.5	637.9	637.2
157.5°	656.9	656.2	655.6	654.9	655.6	656.2	656.9	657.5	657.4	656.5	655.6
160°	667.7	667.2	666.7	666.1	666.7	667.2	667.7	668.2	668.1	667.3	666.5
162.5°	677.7	677.1	676.5	675.8	676.5	677.1	677.7	678.3	678.2	677.4	676.4
165°	690.5	689.8	689.2	688.5	689.2	689.8	690.5	691.2	691.0	690.1	689.2
167.5°	701.0	700.3	699.6	698.9	699.6	700.3	701.0	701.6	701.6	700.6	699.7
170°	706.6	705.8	705.0	704.2	705.0	705.8	706.6	707.4	707.4	706.5	705.5
172.5°	711.0	710.2	709.4	708.6	709.4	710.2	711.0	711.8	711.8	710.8	709.9
175°	715.7	714.9	714.1	713.3	714.1	714.9	715.7	716.5	716.5	715.5	714.5
177.5°	717.4	716.7	716.1	715.4	716.1	716.7	717.4	718.0	718.0	717.4	716.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	10.7	10.8	10.6	9.9	9.4	9.6	9.6	9.8	10.3	11.3	12.6
90°	20.9	21.2	18.2	15.2	12.3	9.4	7.1	5.5	3.8	2.2	0.6
92.5°	19.3	19.2	18.5	17.9	17.1	16.5	15.5	14.3	13.1	12.0	10.8
95°	38.7	38.7	38.5	38.2	37.9	37.7	36.9	35.5	34.2	32.8	31.5
97.5°	65.1	65.1	64.6	64.1	63.6	63.0	62.2	61.0	59.8	58.6	57.5
100°	83.5	83.5	83.1	82.7	82.3	81.9	81.1	80.1	79.0	77.9	76.8
102.5°	103.5	103.3	102.8	102.3	101.8	101.3	100.6	99.7	98.9	98.0	97.2
105°	133.4	133.1	132.8	132.6	132.3	132.0	131.7	131.3	130.9	130.4	130.0
107.5°	166.0	165.9	165.9	165.9	165.9	165.9	165.6	165.0	164.4	163.8	163.2
110°	188.2	188.2	188.2	188.2	188.2	188.2	187.8	186.9	186.1	185.3	184.5



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	210.6	210.9	211.0	211.1	211.2	211.3	211.0	210.2	209.4	208.6	207.7
115°	244.3	244.4	244.7	244.9	245.2	245.5	245.2	244.4	243.6	242.8	242.0
117.5°	277.3	277.6	278.3	279.1	279.8	280.5	280.4	279.3	278.3	277.2	276.1
120°	298.9	298.9	299.9	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9
122.5°	321.8	322.1	322.9	323.6	324.3	325.1	324.8	323.5	322.3	321.0	319.7
125°	355.3	355.7	356.1	356.5	356.9	357.3	356.9	355.7	354.5	353.4	352.1
127.5°	387.9	388.4	388.9	389.4	389.9	390.4	389.8	388.2	386.8	385.2	383.7
130°	409.9	410.2	410.4	410.7	411.0	411.2	410.5	408.8	407.0	405.3	403.5
132.5°	431.9	432.4	432.4	432.4	432.3	432.3	431.5	430.1	428.7	427.2	425.8
135°	463.3	463.4	463.2	462.9	462.6	462.4	461.5	460.0	458.5	457.1	455.6
137.5°	493.8	493.9	493.6	493.3	492.8	492.5	491.7	490.6	489.3	488.1	486.9
140°	514.2	514.2	513.6	512.9	512.3	511.5	510.6	509.4	508.2	507.0	505.8
142.5°	532.7	532.6	532.1	531.7	531.2	530.8	529.9	528.8	527.6	526.4	525.1
145°	560.9	560.8	560.0	559.2	558.4	557.6	556.8	555.8	554.8	553.9	552.9
147.5°	585.5	585.3	584.7	584.2	583.7	583.1	582.3	581.1	580.0	578.9	577.8
150°	601.2	600.8	600.2	599.7	599.2	598.6	597.9	597.1	596.3	595.5	594.7
152.5°	616.8	616.3	615.6	615.0	614.3	613.7	612.9	612.1	611.3	610.5	609.7
155°	636.5	635.9	635.4	635.0	634.6	634.2	633.8	633.4	633.0	632.6	632.2
157.5°	654.7	653.8	653.5	653.3	653.1	652.8	652.6	652.2	652.0	651.8	651.4
160°	665.7	664.9	664.7	664.6	664.5	664.4	664.1	663.9	663.6	663.3	663.1
162.5°	675.5	674.6	674.4	674.3	674.2	674.0	673.9	673.8	673.8	673.8	673.7
165°	688.2	687.3	687.3	687.3	687.3	687.3	687.3	687.4	687.5	687.6	687.7
167.5°	698.7	697.8	697.8	697.8	697.9	697.9	698.1	698.5	699.0	699.4	699.8
170°	704.6	703.6	703.8	703.8	704.0	704.2	704.4	704.8	705.2	705.6	706.0
172.5°	708.9	707.9	708.1	708.3	708.3	708.5	708.7	709.1	709.6	710.0	710.4
175°	713.6	712.7	713.0	713.2	713.5	713.8	714.1	714.5	714.9	715.3	715.7
177.5°	716.1	715.4	715.7	715.9	716.1	716.3	716.6	716.9	717.2	717.5	717.9
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	10.8	9.0	8.9	8.8	9.6	10.3	10.4	11.0	12.0	11.6	11.9
90°	2.2	3.8	5.5	7.1	9.4	12.3	15.2	18.2	21.2	20.9	20.6
92.5°	12.0	13.1	14.3	15.5	16.5	17.1	17.9	18.5	19.2	19.3	19.3
95°	32.8	34.2	35.5	36.9	37.7	37.9	38.2	38.5	38.7	38.7	38.7
97.5°	58.6	59.8	61.0	62.2	63.0	63.6	64.1	64.6	65.1	65.1	65.1
100°	77.9	79.0	80.1	81.1	81.9	82.3	82.7	83.1	83.5	83.5	83.5
102.5°	98.0	98.9	99.7	100.6	101.3	101.8	102.3	102.8	103.3	103.5	103.5
105°	130.4	130.9	131.3	131.7	132.0	132.3	132.6	132.8	133.1	133.4	133.6
107.5°	163.8	164.4	165.0	165.6	165.9	165.9	165.9	165.9	165.9	166.0	166.1
110°	185.3	186.1	186.9	187.8	188.2	188.2	188.2	188.2	188.2	188.2	188.2



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	208.6	209.4	210.2	211.0	211.3	211.2	211.1	211.0	210.9	210.6	210.3
115°	242.8	243.6	244.4	245.2	245.5	245.2	244.9	244.7	244.4	244.3	244.2
117.5°	277.2	278.3	279.3	280.4	280.5	279.8	279.1	278.3	277.6	277.3	277.0
120°	299.9	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9	298.9	298.9
122.5°	321.0	322.3	323.5	324.8	325.1	324.3	323.6	322.9	322.1	321.8	321.5
125°	353.4	354.5	355.7	356.9	357.3	356.9	356.5	356.1	355.7	355.3	354.9
127.5°	385.2	386.8	388.2	389.8	390.4	389.9	389.4	388.9	388.4	387.9	387.4
130°	405.3	407.0	408.8	410.5	411.2	411.0	410.7	410.4	410.2	409.9	409.7
132.5°	427.2	428.7	430.1	431.5	432.3	432.3	432.4	432.4	432.4	431.9	431.3
135°	457.1	458.5	460.0	461.5	462.4	462.6	462.9	463.2	463.4	463.3	463.2
137.5°	488.1	489.3	490.6	491.7	492.5	492.8	493.3	493.6	493.9	493.8	493.7
140°	507.0	508.2	509.4	510.6	511.5	512.3	512.9	513.6	514.2	514.2	514.2
142.5°	526.4	527.6	528.8	529.9	530.8	531.2	531.7	532.1	532.6	532.7	532.9
145°	553.9	554.8	555.8	556.8	557.6	558.4	559.2	560.0	560.8	560.9	561.1
147.5°	578.9	580.0	581.1	582.3	583.1	583.7	584.2	584.7	585.3	585.5	585.9
150°	595.5	596.3	597.1	597.9	598.6	599.2	599.7	600.2	600.8	601.2	601.5
152.5°	610.5	611.3	612.1	612.9	613.7	614.3	615.0	615.6	616.3	616.8	617.3
155°	632.6	633.0	633.4	633.8	634.2	634.6	635.0	635.4	635.9	636.5	637.2
157.5°	651.8	652.0	652.2	652.6	652.8	653.1	653.3	653.5	653.8	654.7	655.6
160°	663.3	663.6	663.9	664.1	664.4	664.5	664.6	664.7	664.9	665.7	666.5
162.5°	673.8	673.8	673.8	673.9	674.0	674.2	674.3	674.4	674.6	675.5	676.4
165°	687.7	687.6	687.5	687.4	687.3	687.3	687.3	687.3	687.3	688.2	689.2
167.5°	699.4	699.0	698.5	698.1	697.9	697.9	697.8	697.8	697.8	698.7	699.7
170°	705.6	705.2	704.8	704.4	704.2	704.0	703.8	703.8	703.6	704.6	705.5
172.5°	710.0	709.6	709.1	708.7	708.5	708.3	708.3	708.1	707.9	708.9	709.9
175°	715.3	714.9	714.5	714.1	713.8	713.5	713.2	713.0	712.7	713.6	714.5
177.5°	717.5	717.2	716.9	716.6	716.3	716.1	715.9	715.7	715.4	716.1	716.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	11.4	11.4	11.3	11.4	11.4	11.4	11.0
90°	20.4	20.1	20.1	20.1	20.3	20.5	20.5
92.5°	19.4	19.5	19.5	19.5	19.6	19.6	19.6
95°	38.7	38.7	38.6	38.3	38.1	37.7	37.5
97.5°	65.1	65.1	65.1	65.1	65.1	65.0	65.0
100°	83.5	83.5	83.4	83.3	83.2	83.0	82.9
102.5°	103.6	103.8	103.8	103.6	103.5	103.4	103.2
105°	133.9	134.2	134.3	134.3	134.3	134.3	134.3
107.5°	166.2	166.3	166.1	165.4	164.9	164.2	163.6
110°	188.2	188.2	187.9	187.5	187.1	186.7	186.4



TEST NUMBER: P331830-930

CATALOG NUMBER: S122RDIW-S865D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	209.9	209.6	209.3	209.0	208.7	208.4	208.1
115°	244.0	243.9	243.6	243.2	242.8	242.4	242.0
117.5°	276.6	276.3	275.9	275.5	275.1	274.7	274.3
120°	298.9	298.9	298.6	298.2	297.8	297.4	297.0
122.5°	321.1	320.8	320.5	320.2	319.9	319.6	319.4
125°	354.5	354.1	353.8	353.8	353.6	353.4	353.4
127.5°	386.9	386.5	386.0	385.6	385.1	384.7	384.3
130°	409.4	409.1	408.7	408.1	407.6	407.1	406.6
132.5°	430.6	430.1	429.6	429.2	428.7	428.3	427.9
135°	463.0	462.9	462.6	462.2	461.8	461.4	461.0
137.5°	493.6	493.5	493.2	492.6	492.1	491.5	491.0
140°	514.2	514.2	514.0	513.5	512.9	512.3	511.8
142.5°	533.0	533.0	532.9	532.3	531.7	531.2	530.7
145°	561.3	561.3	561.2	560.6	560.1	559.5	559.1
147.5°	586.1	586.4	586.4	585.9	585.3	584.8	584.3
150°	601.9	602.3	602.3	601.9	601.5	601.2	600.8
152.5°	617.8	618.3	618.3	617.8	617.3	616.8	616.3
155°	637.9	638.5	638.7	638.3	637.9	637.5	637.1
157.5°	656.5	657.4	657.5	656.9	656.2	655.6	654.9
160°	667.3	668.1	668.2	667.7	667.2	666.7	666.1
162.5°	677.4	678.2	678.3	677.7	677.1	676.5	675.8
165°	690.1	691.0	691.2	690.5	689.8	689.2	688.5
167.5°	700.6	701.6	701.6	701.0	700.3	699.6	698.9
170°	706.5	707.4	707.4	706.6	705.8	705.0	704.2
172.5°	710.8	711.8	711.8	711.0	710.2	709.4	708.6
175°	715.5	716.5	716.5	715.7	714.9	714.1	713.3
177.5°	717.4	718.0	718.0	717.4	716.7	716.1	715.4
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9

(END OF REPORT)