

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P995004

Luminaire Tested: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P995004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K
Description: Define 3 Regressed Direct Recessed with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

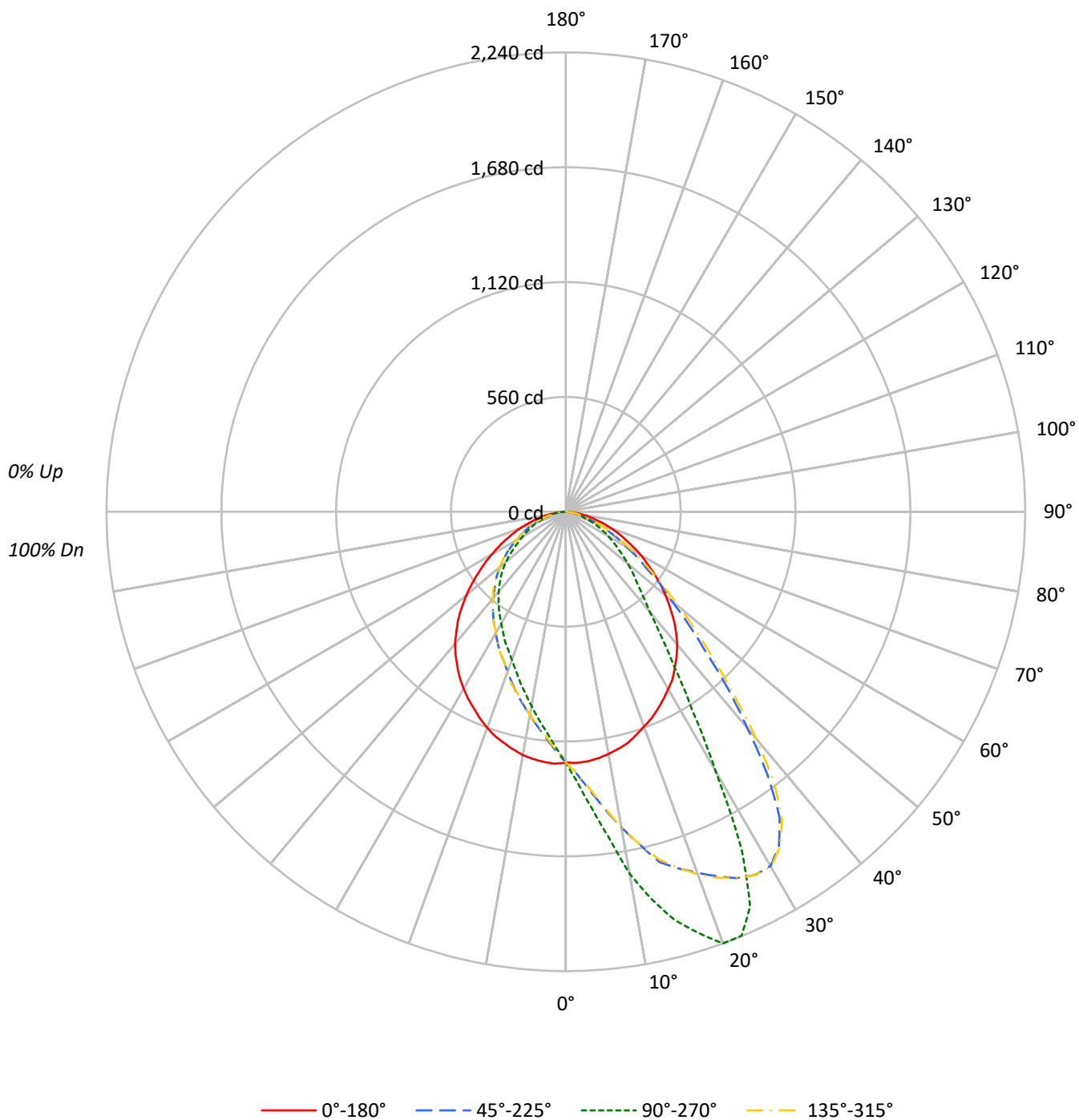
Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
Input Voltage (V):
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: 24 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13159	13159	13159	13159
5°	13197	15686	13232	11637
10°	13109	19584	13167	10514
15°	13005	22988	13005	9587
20°	12769	25656	12840	8800
25°	12605	25246	12580	8316
30°	12410	18146	12384	7818
35°	12172	12117	12117	7495
40°	11868	8927	11809	7162
45°	11312	7488	11297	6835
50°	10622	6608	10587	6380
55°	9841	5795	9762	5756
60°	9080	5160	8990	5272
65°	8183	4531	8237	4905
70°	7377	3556	7575	4478
75°	6400	3136	6658	4092
80°	5318	2727	5771	4023
85°	4261	2198	4656	4261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 21461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.9
10°-20°	375.8	12.3
20°-30°	591.9	19.4
30°-40°	615.5	20.2
40°-50°	526.5	17.3
50°-60°	401.4	13.2
60°-70°	257.2	8.4
70°-80°	123.2	4.0
80°-90°	32.4	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1087.7	35.7
0°-40°	1703.2	56.0
0°-60°	2631.2	86.4
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1222	1222	1222	1222	1222	
5°	1221	1452	1225	1077	1221	116
15°	1167	2063	1167	860	1167	328
25°	1061	2126	1059	700	1061	489
35°	926	922	922	570	926	580
45°	743	492	742	449	743	572
55°	524	309	520	307	524	470
65°	321	178	323	193	321	321
75°	154	75	160	98	154	166
85°	34	18	38	34	34	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1225.6	1234.0	1240.3	1244.4	1254.9	1261.2	1266.4	1275.8	1275.8	1277.9	1282.1
5°	1221.4	1239.2	1251.8	1268.5	1290.5	1301.0	1315.6	1328.2	1346.0	1355.4	1364.8
7.5°	1212.0	1237.1	1263.3	1288.4	1320.8	1341.8	1356.4	1388.9	1411.9	1440.2	1462.1
10°	1199.4	1234.0	1267.5	1306.2	1350.2	1381.6	1403.5	1446.4	1490.4	1530.2	1563.7
12.5°	1183.7	1225.6	1273.7	1320.8	1382.6	1414.0	1449.6	1503.0	1565.8	1616.0	1661.0
15°	1167.0	1215.1	1269.6	1327.1	1404.6	1448.5	1499.8	1564.7	1634.8	1707.1	1768.8
17.5°	1140.8	1201.5	1262.2	1346.0	1437.0	1463.2	1507.1	1596.1	1683.0	1747.9	1823.2
20°	1114.7	1182.7	1259.1	1334.5	1432.8	1493.5	1534.4	1628.6	1721.7	1800.2	1872.4
22.5°	1090.6	1161.8	1241.3	1336.5	1428.6	1489.4	1540.6	1639.0	1746.8	1834.7	1923.7
25°	1061.3	1138.7	1226.6	1316.7	1428.6	1474.7	1531.2	1645.3	1759.4	1860.9	1970.8
27.5°	1029.9	1108.4	1195.3	1287.4	1389.9	1458.0	1513.4	1635.9	1775.1	1883.9	1997.0
30°	998.5	1079.1	1162.8	1245.5	1360.6	1425.5	1489.4	1624.4	1783.5	1908.0	1994.9
32.5°	968.1	1036.2	1118.8	1199.4	1313.5	1384.7	1456.9	1612.9	1786.6	1891.3	1933.1
35°	926.3	997.4	1064.4	1150.2	1265.4	1335.5	1420.3	1611.8	1773.0	1837.9	1816.9
37.5°	887.5	947.2	1011.0	1087.4	1205.7	1296.8	1384.7	1584.6	1728.0	1732.2	1613.9
40°	844.6	893.8	947.2	1027.8	1155.5	1245.5	1340.7	1542.7	1646.3	1584.6	1376.3
42.5°	795.4	839.4	881.3	959.8	1099.0	1199.4	1302.0	1490.4	1528.1	1385.7	1169.1
45°	743.1	778.7	817.4	900.1	1039.3	1138.7	1241.3	1409.8	1371.1	1170.1	963.9
47.5°	688.7	719.0	756.7	832.1	975.5	1077.0	1174.3	1294.7	1196.3	980.7	808.0
50°	634.3	658.3	695.0	772.4	910.6	1002.7	1092.7	1171.2	1033.0	841.5	667.7
52.5°	580.9	599.7	637.4	703.3	837.3	925.2	990.1	1020.5	880.2	695.0	579.8
55°	524.4	545.3	570.4	637.4	770.3	835.2	878.1	877.1	732.6	589.3	479.4
57.5°	469.9	488.8	510.8	577.7	685.5	729.5	766.1	748.3	611.2	482.5	411.3
60°	421.8	432.3	456.3	512.8	594.5	632.2	653.1	622.7	499.2	407.1	340.2
62.5°	369.5	379.9	399.8	453.2	503.4	523.3	541.1	502.4	412.4	331.8	291.0
65°	321.3	334.9	347.5	390.4	417.6	441.7	439.6	407.1	322.4	270.0	236.5
67.5°	279.4	284.7	295.1	321.3	333.9	351.7	352.7	316.1	259.6	219.8	199.9
70°	234.4	239.7	247.0	259.6	267.9	272.1	270.0	237.6	195.7	171.6	153.9
72.5°	195.7	194.7	199.9	199.9	208.3	207.2	201.0	175.8	148.6	128.7	118.3
75°	153.9	154.9	155.9	153.9	150.7	146.5	141.3	122.5	104.7	95.2	85.8
77.5°	120.4	118.3	119.3	112.0	107.8	103.6	96.3	86.9	72.2	70.1	65.9
80°	85.8	84.8	83.7	80.6	71.2	67.0	61.8	56.5	53.4	51.3	50.2
82.5°	57.6	57.6	55.5	49.2	44.0	40.8	39.8	37.7	34.5	34.5	33.5
85°	34.5	33.5	31.4	25.1	22.0	22.0	22.0	22.0	19.9	19.9	18.8
87.5°	13.6	12.6	9.4	9.4	8.4	8.4	8.4	7.3	7.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1290.5	1290.5	1299.9	1309.3	1304.1	1307.2	1318.8	1314.6	1322.9	1321.9	1325.0
5°	1387.8	1399.3	1408.8	1428.6	1431.8	1428.6	1448.5	1453.8	1463.2	1451.7	1456.9
7.5°	1497.7	1521.8	1544.8	1574.1	1583.5	1585.6	1596.1	1610.8	1623.3	1600.3	1611.8
10°	1604.5	1641.1	1688.2	1714.4	1737.4	1745.8	1754.2	1763.6	1778.2	1791.8	1781.4
12.5°	1719.6	1773.0	1818.0	1865.1	1893.4	1890.2	1914.3	1920.6	1932.1	1935.2	1939.4
15°	1813.8	1889.2	1917.4	1987.5	1993.8	2014.8	2042.0	2066.0	2069.2	2062.9	2062.9
17.5°	1903.8	1968.7	2018.9	2075.5	2087.0	2104.8	2139.3	2150.8	2155.0	2154.0	2154.0
20°	1977.1	2020.0	2104.8	2151.9	2170.7	2193.7	2217.8	2232.5	2235.6	2239.8	2233.5
22.5°	2025.2	2090.1	2159.2	2197.9	2213.6	2222.0	2237.7	2241.9	2236.6	2237.7	2238.7
25°	2062.9	2126.8	2168.6	2179.1	2178.0	2167.6	2156.1	2136.2	2134.1	2125.7	2109.0
27.5°	2073.4	2097.4	2092.2	2049.3	2006.4	2002.2	1933.1	1895.4	1852.5	1858.8	1834.7
30°	2016.9	1985.5	1911.1	1802.3	1757.3	1684.0	1606.6	1526.0	1494.6	1460.0	1523.9
32.5°	1878.7	1766.7	1634.8	1493.5	1418.2	1353.3	1270.6	1212.0	1178.5	1150.2	1204.7
35°	1670.4	1495.6	1320.8	1186.9	1125.1	1066.5	989.1	959.8	917.9	922.1	927.3
37.5°	1402.5	1209.9	1078.0	946.2	905.3	881.3	824.7	779.7	765.1	760.9	760.9
40°	1151.3	993.3	876.0	772.4	741.0	721.1	676.1	655.2	639.5	635.3	640.5
42.5°	952.4	817.4	726.4	657.3	635.3	610.2	591.3	565.2	562.0	554.7	564.1
45°	799.6	682.4	614.4	564.1	545.3	535.9	514.9	499.2	493.0	491.9	499.2
47.5°	678.2	587.2	527.5	496.1	481.4	472.0	454.2	448.0	441.7	443.8	440.6
50°	569.4	501.3	462.6	434.4	424.9	415.5	404.0	397.7	394.6	394.6	393.5
52.5°	488.8	432.3	407.1	381.0	376.8	371.6	359.0	354.8	349.6	348.5	352.7
55°	418.7	379.9	354.8	339.1	334.9	324.5	319.2	314.0	310.8	308.8	309.8
57.5°	357.9	328.6	311.9	298.3	291.0	286.8	277.4	276.3	274.2	274.2	273.2
60°	307.7	286.8	266.9	258.5	253.3	248.1	247.0	240.7	237.6	239.7	238.6
62.5°	260.6	243.9	232.4	222.9	219.8	215.6	212.5	210.4	207.2	208.3	208.3
65°	217.7	204.1	195.7	187.3	186.3	182.1	181.1	179.0	179.0	177.9	180.0
67.5°	179.0	169.6	162.2	157.0	153.9	154.9	150.7	147.6	147.6	146.5	149.7
70°	142.3	137.1	129.8	123.5	119.3	119.3	114.1	113.0	113.0	113.0	112.0
72.5°	109.9	100.5	97.3	95.2	95.2	95.2	93.1	93.1	92.1	93.1	92.1
75°	81.6	80.6	78.5	77.5	77.5	76.4	75.4	75.4	75.4	75.4	75.4
77.5°	63.8	63.8	61.8	60.7	60.7	60.7	59.7	59.7	58.6	58.6	58.6
80°	47.1	47.1	45.0	45.0	45.0	44.0	44.0	44.0	45.0	44.0	44.0
82.5°	32.4	32.4	31.4	32.4	31.4	30.4	30.4	30.4	29.3	30.4	30.4
85°	18.8	18.8	17.8	16.7	17.8	17.8	16.7	17.8	16.7	17.8	16.7
87.5°	7.3	6.3	6.3	6.3	5.2	6.3	5.2	5.2	6.3	5.2	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1319.8	1313.5	1309.3	1306.2	1303.1	1312.5	1299.9	1286.3	1276.9	1270.6	1268.5
5°	1458.0	1444.3	1432.8	1423.4	1425.5	1425.5	1403.5	1379.5	1358.5	1347.0	1334.5
7.5°	1618.1	1603.4	1580.4	1575.2	1571.0	1544.8	1522.8	1478.9	1452.7	1426.6	1403.5
10°	1777.2	1758.3	1736.4	1729.0	1718.6	1686.1	1652.6	1596.1	1563.7	1515.5	1485.2
12.5°	1925.8	1902.8	1880.8	1875.6	1859.9	1831.6	1774.0	1715.4	1660.0	1608.7	1555.3
15°	2050.3	2044.1	2010.6	1989.6	1955.1	1916.4	1903.8	1824.3	1754.2	1700.8	1604.5
17.5°	2155.0	2125.7	2094.3	2080.7	2067.1	2022.1	1977.1	1895.4	1820.1	1741.6	1679.8
20°	2238.7	2206.3	2184.3	2164.4	2158.1	2106.9	2035.7	1963.5	1880.8	1792.9	1712.3
22.5°	2242.9	2238.7	2224.1	2212.6	2200.0	2166.5	2110.0	2020.0	1932.1	1835.8	1730.1
25°	2156.1	2149.8	2191.6	2181.2	2189.5	2177.0	2146.6	2071.3	1968.7	1855.7	1748.9
27.5°	1894.4	1958.2	2024.2	2047.2	2062.9	2107.9	2122.6	2080.7	1998.0	1877.7	1758.3
30°	1538.5	1623.3	1730.1	1787.6	1831.6	1915.3	2024.2	2037.8	1999.1	1902.8	1756.2
32.5°	1207.8	1285.3	1371.1	1439.1	1497.7	1669.4	1815.9	1921.6	1940.5	1890.2	1761.5
35°	973.4	1006.9	1088.5	1153.4	1232.9	1379.5	1552.2	1722.8	1837.9	1844.2	1745.8
37.5°	802.8	820.6	891.7	928.4	975.5	1104.2	1265.4	1488.3	1667.3	1752.1	1701.8
40°	664.6	705.4	746.2	767.2	800.7	889.6	1044.5	1219.3	1441.2	1598.2	1633.8
42.5°	576.7	594.5	620.7	650.0	670.9	748.3	852.0	1012.1	1212.0	1430.7	1529.1
45°	508.7	514.9	542.2	561.0	583.0	637.4	710.7	844.6	1020.5	1236.1	1403.5
47.5°	452.1	464.7	479.4	490.9	505.5	547.4	610.2	707.5	862.4	1055.0	1235.0
50°	401.9	409.2	428.1	433.3	443.8	473.1	521.2	595.5	723.2	877.1	1063.4
52.5°	354.8	368.4	375.7	383.1	392.5	416.6	448.0	508.7	605.0	749.4	907.4
55°	318.2	322.4	332.8	339.1	346.4	363.2	390.4	435.4	510.8	625.9	775.6
57.5°	282.6	282.6	293.1	298.3	305.6	318.2	342.2	376.8	431.2	517.0	654.1
60°	244.9	246.0	254.3	260.6	262.7	275.3	295.1	322.4	364.2	427.0	539.0
62.5°	211.4	216.7	220.8	222.9	230.3	237.6	254.3	273.2	302.5	357.9	437.5
65°	183.2	184.2	187.3	189.4	192.6	201.0	213.5	226.1	251.2	292.0	356.9
67.5°	150.7	154.9	159.1	159.1	162.2	166.4	179.0	189.4	208.3	232.4	276.3
70°	113.0	115.1	121.4	124.5	128.7	136.1	142.3	148.6	163.3	181.1	214.6
72.5°	94.2	94.2	96.3	97.3	97.3	102.6	112.0	118.3	125.6	138.2	161.2
75°	75.4	75.4	78.5	77.5	79.5	81.6	82.7	86.9	91.1	100.5	114.1
77.5°	59.7	60.7	60.7	61.8	61.8	62.8	63.8	65.9	68.0	73.3	79.5
80°	44.0	45.0	45.0	46.1	46.1	47.1	48.1	49.2	51.3	53.4	56.5
82.5°	30.4	31.4	31.4	32.4	31.4	32.4	33.5	33.5	34.5	36.6	37.7
85°	17.8	17.8	18.8	17.8	17.8	17.8	18.8	18.8	19.9	23.0	23.0
87.5°	5.2	6.3	5.2	6.3	6.3	6.3	6.3	7.3	7.3	8.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P995004

CATALOG NUMBER: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1265.4	1260.1	1254.9	1254.9	1243.4	1232.9	1227.7	1229.8	1223.5	1215.1	1206.8
5°	1320.8	1299.9	1295.7	1284.2	1268.5	1246.5	1235.0	1224.6	1212.0	1195.3	1179.6
7.5°	1372.1	1344.9	1330.3	1318.8	1288.4	1258.0	1232.9	1216.2	1194.2	1169.1	1150.2
10°	1439.1	1388.9	1373.2	1347.0	1304.1	1261.2	1231.9	1204.7	1174.3	1145.0	1119.9
12.5°	1492.5	1434.9	1405.6	1379.5	1324.0	1269.6	1220.4	1186.9	1150.2	1117.8	1085.4
15°	1553.2	1488.3	1437.0	1405.6	1335.5	1269.6	1214.1	1167.0	1126.2	1086.4	1058.1
17.5°	1582.5	1500.9	1477.8	1432.8	1331.3	1265.4	1197.3	1147.1	1097.9	1051.9	1018.4
20°	1628.6	1533.3	1475.7	1445.4	1355.4	1258.0	1178.5	1120.9	1069.7	1020.5	984.9
22.5°	1631.7	1528.1	1490.4	1432.8	1321.9	1236.1	1161.8	1091.6	1032.0	985.9	949.3
25°	1624.4	1518.7	1466.3	1420.3	1328.2	1223.5	1128.3	1059.2	1000.6	947.2	904.3
27.5°	1621.2	1491.4	1442.3	1396.2	1292.6	1186.9	1108.4	1029.9	962.9	915.8	871.8
30°	1617.0	1462.1	1402.5	1349.1	1253.9	1158.6	1064.4	996.4	932.5	872.9	828.9
32.5°	1589.8	1422.4	1361.7	1305.1	1202.6	1107.3	1033.0	960.8	891.7	836.3	796.5
35°	1581.5	1385.7	1306.2	1245.5	1145.0	1060.2	981.7	922.1	857.2	801.7	754.6
37.5°	1557.4	1348.1	1262.2	1184.8	1080.1	999.5	942.0	882.3	819.5	759.9	722.2
40°	1515.5	1304.1	1206.8	1127.2	1019.4	937.8	884.4	840.4	778.7	725.3	679.3
42.5°	1453.8	1259.1	1154.4	1070.7	951.4	875.0	831.0	789.2	736.8	681.4	643.7
45°	1382.6	1199.4	1102.1	1009.0	887.5	813.2	767.2	742.1	693.9	646.8	602.9
47.5°	1285.3	1137.7	1041.4	945.1	821.6	749.4	712.8	687.6	654.1	602.9	567.3
50°	1162.8	1058.1	967.1	881.3	756.7	687.6	651.0	632.2	603.9	567.3	532.7
52.5°	1026.7	966.0	890.7	811.1	690.8	625.9	592.4	577.7	556.8	522.3	493.0
55°	889.6	863.5	812.2	733.7	621.7	568.3	539.0	520.2	504.5	479.4	454.2
57.5°	767.2	754.6	719.0	658.3	564.1	508.7	483.5	471.0	458.4	439.6	414.5
60°	640.5	654.1	617.5	587.2	501.3	453.2	431.2	417.6	411.3	394.6	378.9
62.5°	530.6	543.2	522.3	499.2	438.5	395.6	382.0	369.5	365.3	350.6	334.9
65°	431.2	446.9	431.2	418.7	382.0	346.4	329.7	323.4	319.2	309.8	297.2
67.5°	343.3	359.0	351.7	336.0	324.5	295.1	285.7	279.4	277.4	270.0	259.6
70°	258.5	280.5	282.6	273.2	262.7	249.1	242.8	240.7	235.5	229.2	222.9
72.5°	186.3	211.4	212.5	212.5	206.2	206.2	199.9	196.8	196.8	190.5	183.2
75°	137.1	153.9	155.9	158.0	161.2	164.3	160.1	160.1	159.1	152.8	149.7
77.5°	91.1	105.7	110.9	118.3	122.5	122.5	124.5	126.6	124.5	121.4	119.3
80°	58.6	69.1	75.4	79.5	85.8	89.0	92.1	93.1	91.1	90.0	86.9
82.5°	38.7	41.9	45.0	50.2	57.6	62.8	62.8	61.8	63.8	62.8	61.8
85°	22.0	24.1	25.1	26.2	30.4	35.6	36.6	37.7	39.8	37.7	35.6
87.5°	8.4	9.4	9.4	9.4	11.5	12.6	15.7	19.9	18.8	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P995004

CATALOG NUMBER: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1206.8	1201.5	1199.4	1194.2	1181.6	1173.3	1163.9	1157.6	1158.6	1153.4	1156.5
5°	1169.1	1168.0	1160.7	1150.2	1132.5	1123.0	1106.3	1097.9	1093.7	1094.8	1088.5
7.5°	1137.7	1128.3	1123.0	1106.3	1089.5	1069.7	1056.0	1048.7	1042.4	1036.2	1032.0
10°	1102.1	1093.7	1085.4	1067.6	1044.5	1025.7	1006.9	999.5	990.1	985.9	982.8
12.5°	1064.4	1059.2	1048.7	1027.8	1001.6	983.8	961.9	957.7	945.1	936.7	934.6
15°	1029.9	1026.7	1007.9	983.8	957.7	939.9	921.0	908.5	887.5	891.7	884.4
17.5°	993.3	979.6	968.1	935.7	923.1	895.9	873.9	867.7	853.0	843.6	834.2
20°	952.4	944.1	929.4	908.5	878.1	846.7	830.0	819.5	811.1	796.5	792.3
22.5°	913.7	903.2	890.7	863.5	837.3	811.1	788.1	778.7	768.2	757.8	751.5
25°	883.4	867.7	854.0	820.6	794.4	772.4	757.8	742.1	727.4	721.1	719.0
27.5°	836.3	826.8	813.2	781.8	757.8	733.7	720.1	709.6	693.9	686.6	680.3
30°	805.9	787.1	771.4	746.2	722.2	696.0	683.4	670.9	661.5	652.0	644.7
32.5°	765.1	750.4	737.9	712.8	688.7	664.6	651.0	632.2	626.9	619.6	611.2
35°	725.3	715.9	702.3	675.1	648.9	632.2	617.5	599.7	593.4	588.2	580.9
37.5°	687.6	674.0	664.6	638.4	615.4	595.5	584.0	569.4	565.2	558.9	553.7
40°	655.2	641.6	632.2	606.0	581.9	561.0	553.7	539.0	532.7	525.4	522.3
42.5°	618.6	607.0	594.5	575.6	550.5	529.6	514.9	506.6	498.2	495.1	488.8
45°	579.8	569.4	559.9	539.0	512.8	498.2	485.6	474.1	467.8	462.6	458.4
47.5°	546.3	536.9	524.4	501.3	480.4	466.8	454.2	442.7	436.4	430.2	424.9
50°	507.6	502.4	488.8	466.8	446.9	431.2	419.7	409.2	405.0	397.7	389.3
52.5°	473.1	463.7	452.1	434.4	416.6	397.7	382.0	375.7	368.4	364.2	356.9
55°	432.3	426.0	413.4	397.7	378.9	363.2	351.7	343.3	333.9	329.7	320.3
57.5°	397.7	386.2	379.9	360.0	342.2	326.5	318.2	309.8	299.3	293.1	288.9
60°	360.0	349.6	340.2	323.4	310.8	294.1	281.5	274.2	266.9	258.5	254.3
62.5°	323.4	315.0	303.5	289.9	274.2	260.6	251.2	240.7	236.5	228.2	225.0
65°	283.6	277.4	267.9	252.2	239.7	228.2	218.7	210.4	206.2	203.0	201.0
67.5°	248.1	239.7	233.4	219.8	206.2	196.8	191.5	186.3	181.1	177.9	174.8
70°	211.4	205.1	198.9	186.3	176.9	168.5	164.3	160.1	157.0	153.9	150.7
72.5°	173.7	170.6	164.3	155.9	148.6	142.3	139.2	134.0	130.8	125.6	123.5
75°	143.4	138.2	135.0	127.7	121.4	116.2	112.0	105.7	101.5	99.4	98.4
77.5°	113.0	110.9	106.8	100.5	97.3	92.1	85.8	83.7	81.6	81.6	80.6
80°	84.8	81.6	78.5	73.3	70.1	65.9	65.9	65.9	64.9	65.9	64.9
82.5°	57.6	55.5	53.4	50.2	49.2	49.2	50.2	50.2	50.2	50.2	50.2
85°	33.5	33.5	33.5	34.5	33.5	33.5	34.5	35.6	34.5	34.5	33.5
87.5°	15.7	15.7	16.7	16.7	17.8	17.8	17.8	17.8	17.8	17.8	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P995004

CATALOG NUMBER: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1155.5	1156.5	1153.4	1147.1	1146.1	1148.2	1154.4	1152.3	1147.1	1156.5	1148.2
5°	1091.6	1086.4	1084.3	1086.4	1080.1	1077.0	1083.3	1080.1	1083.3	1084.3	1087.4
7.5°	1029.9	1030.9	1024.6	1025.7	1017.3	1019.4	1019.4	1019.4	1022.6	1024.6	1028.8
10°	976.5	978.6	971.3	972.3	966.0	961.9	965.0	971.3	971.3	971.3	973.4
12.5°	933.6	924.2	918.9	917.9	910.6	908.5	914.8	916.8	922.1	922.1	925.2
15°	880.2	878.1	873.9	873.9	856.1	860.3	862.4	869.7	880.2	871.8	873.9
17.5°	832.1	826.8	821.6	819.5	817.4	811.1	819.5	818.5	824.7	825.8	828.9
20°	789.2	785.0	774.5	775.6	777.6	768.2	773.5	773.5	779.7	786.0	793.3
22.5°	747.3	743.1	737.9	740.0	733.7	731.6	731.6	736.8	744.2	749.4	748.3
25°	714.8	707.5	704.4	701.2	698.1	700.2	697.1	702.3	707.5	710.7	707.5
27.5°	678.2	675.1	668.8	665.7	660.4	662.5	664.6	668.8	671.9	671.9	675.1
30°	642.6	638.4	636.4	633.2	633.2	629.0	630.1	634.3	637.4	640.5	644.7
32.5°	608.1	605.0	601.8	601.8	599.7	598.7	597.6	603.9	603.9	610.2	610.2
35°	579.8	574.6	574.6	569.4	571.5	570.4	568.3	572.5	573.6	577.7	576.7
37.5°	548.4	548.4	546.3	541.1	536.9	538.0	543.2	543.2	546.3	545.3	548.4
40°	517.0	514.9	514.9	511.8	510.8	509.7	510.8	511.8	517.0	516.0	517.0
42.5°	485.6	486.7	481.4	481.4	481.4	478.3	479.4	480.4	482.5	484.6	487.7
45°	455.3	453.2	452.1	450.1	448.0	449.0	448.0	452.1	451.1	453.2	456.3
47.5°	422.8	419.7	418.7	414.5	414.5	416.6	415.5	418.7	419.7	422.8	420.7
50°	391.4	387.3	384.1	385.2	378.9	381.0	381.0	384.1	387.3	388.3	390.4
52.5°	354.8	353.8	352.7	347.5	346.4	345.4	346.4	347.5	351.7	354.8	355.9
55°	319.2	318.2	311.9	309.8	306.7	306.7	308.8	309.8	317.1	318.2	322.4
57.5°	286.8	283.6	276.3	275.3	275.3	275.3	272.1	276.3	278.4	283.6	283.6
60°	251.2	251.2	244.9	244.9	246.0	244.9	244.9	246.0	246.0	250.1	252.2
62.5°	222.9	221.9	221.9	219.8	218.7	219.8	218.7	218.7	219.8	222.9	226.1
65°	197.8	196.8	195.7	194.7	192.6	192.6	193.6	195.7	195.7	197.8	198.9
67.5°	173.7	173.7	171.6	171.6	170.6	169.6	170.6	169.6	173.7	173.7	174.8
70°	149.7	148.6	145.5	144.4	141.3	142.3	142.3	145.5	146.5	148.6	150.7
72.5°	120.4	120.4	118.3	116.2	117.2	115.1	115.1	116.2	116.2	119.3	120.4
75°	99.4	97.3	96.3	97.3	96.3	98.4	96.3	96.3	98.4	98.4	98.4
77.5°	81.6	81.6	80.6	80.6	81.6	80.6	81.6	81.6	81.6	80.6	81.6
80°	67.0	65.9	65.9	65.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
82.5°	50.2	50.2	49.2	50.2	50.2	49.2	50.2	49.2	49.2	50.2	50.2
85°	33.5	35.6	33.5	33.5	34.5	34.5	35.6	34.5	35.6	33.5	34.5
87.5°	17.8	18.8	18.8	17.8	17.8	18.8	18.8	18.8	19.9	17.8	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P995004

CATALOG NUMBER: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5	1222.5
2.5°	1156.5	1160.7	1156.5	1148.2	1156.5	1161.8	1167.0	1175.4	1179.6	1179.6	1185.8
5°	1090.6	1099.0	1095.8	1093.7	1102.1	1107.3	1115.7	1126.2	1137.7	1145.0	1153.4
7.5°	1032.0	1037.2	1042.4	1042.4	1050.8	1062.3	1074.9	1087.4	1102.1	1112.6	1118.8
10°	980.7	984.9	988.0	992.2	1004.8	1017.3	1034.1	1049.8	1062.3	1073.8	1084.3
12.5°	931.5	937.8	945.1	948.2	957.7	973.4	989.1	1007.9	1027.8	1039.3	1049.8
15°	884.4	887.5	895.9	905.3	913.7	930.5	950.3	970.2	987.0	1004.8	1014.2
17.5°	836.3	837.3	859.3	854.0	881.3	897.0	907.4	926.3	953.5	968.1	982.8
20°	789.2	799.6	809.0	814.3	828.9	846.7	877.1	891.7	913.7	927.3	939.9
22.5°	752.5	768.2	768.2	780.8	788.1	804.9	826.8	855.1	879.2	888.6	906.4
25°	720.1	727.4	740.0	744.2	757.8	772.4	787.1	817.4	843.6	856.1	868.7
27.5°	678.2	687.6	704.4	704.4	722.2	737.9	755.7	775.6	801.7	819.5	833.1
30°	645.8	655.2	662.5	674.0	681.4	696.0	727.4	742.1	765.1	780.8	797.5
32.5°	615.4	622.7	629.0	641.6	650.0	666.7	683.4	709.6	729.5	744.2	761.9
35°	581.9	589.3	597.6	607.0	619.6	635.3	651.0	673.0	692.9	706.5	721.1
37.5°	550.5	555.8	568.3	574.6	585.1	599.7	619.6	642.6	660.4	670.9	685.5
40°	520.2	524.4	533.8	545.3	552.6	564.1	585.1	605.0	626.9	639.5	651.0
42.5°	487.7	493.0	501.3	512.8	524.4	536.9	548.4	571.5	591.3	601.8	614.4
45°	459.5	462.6	468.9	480.4	491.9	501.3	519.1	540.1	558.9	567.3	580.9
47.5°	426.0	429.1	438.5	443.8	456.3	468.9	486.7	507.6	524.4	532.7	545.3
50°	391.4	394.6	400.9	412.4	420.7	434.4	450.1	467.8	488.8	500.3	507.6
52.5°	357.9	364.2	369.5	378.9	389.3	403.0	417.6	434.4	452.1	463.7	472.0
55°	324.5	329.7	336.0	341.2	353.8	366.3	383.1	398.8	414.5	424.9	434.4
57.5°	286.8	294.1	300.4	310.8	320.3	330.7	349.6	362.1	381.0	388.3	396.7
60°	254.3	261.7	266.9	275.3	283.6	297.2	309.8	325.5	341.2	350.6	361.1
62.5°	227.1	230.3	233.4	241.8	250.1	262.7	275.3	291.0	307.7	312.9	321.3
65°	199.9	203.0	208.3	215.6	221.9	229.2	242.8	255.4	271.1	279.4	282.6
67.5°	176.9	180.0	181.1	186.3	191.5	199.9	207.2	219.8	234.4	239.7	246.0
70°	150.7	155.9	157.0	161.2	163.3	168.5	176.9	186.3	197.8	207.2	212.5
72.5°	120.4	127.7	129.8	136.1	139.2	144.4	150.7	158.0	165.4	169.6	173.7
75°	98.4	100.5	101.5	106.8	112.0	119.3	122.5	126.6	132.9	138.2	142.3
77.5°	81.6	82.7	83.7	83.7	84.8	89.0	95.2	100.5	104.7	106.8	109.9
80°	65.9	64.9	64.9	65.9	65.9	65.9	68.0	75.4	77.5	82.7	81.6
82.5°	51.3	49.2	50.2	49.2	49.2	49.2	49.2	50.2	50.2	53.4	55.5
85°	33.5	34.5	33.5	33.5	32.4	33.5	32.4	32.4	31.4	31.4	30.4
87.5°	17.8	18.8	17.8	17.8	16.7	17.8	16.7	16.7	15.7	15.7	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P995004

CATALOG NUMBER: S123RDR-B775DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1222.5	1222.5	1222.5	1222.5
2.5°	1191.1	1198.4	1213.0	1225.6
5°	1165.9	1177.5	1199.4	1221.4
7.5°	1135.6	1153.4	1181.6	1212.0
10°	1106.3	1129.3	1163.9	1199.4
12.5°	1077.0	1101.1	1137.7	1183.7
15°	1042.4	1067.6	1111.5	1167.0
17.5°	1012.1	1045.6	1085.4	1140.8
20°	979.6	1004.8	1056.0	1114.7
22.5°	938.8	980.7	1028.8	1090.6
25°	906.4	943.0	991.2	1061.3
27.5°	866.6	909.5	968.1	1029.9
30°	834.2	869.7	924.2	998.5
32.5°	796.5	838.3	894.9	968.1
35°	763.0	798.6	852.0	926.3
37.5°	723.2	761.9	821.6	887.5
40°	688.7	726.4	782.9	844.6
42.5°	646.8	686.6	743.1	795.4
45°	613.3	650.0	695.0	743.1
47.5°	572.5	611.2	655.2	688.7
50°	535.9	571.5	606.0	634.3
52.5°	496.1	528.5	559.9	580.9
55°	459.5	484.6	509.7	524.4
57.5°	416.6	440.6	461.6	469.9
60°	378.9	398.8	412.4	421.8
62.5°	339.1	353.8	364.2	369.5
65°	300.4	310.8	316.1	321.3
67.5°	260.6	270.0	273.2	279.4
70°	218.7	229.2	231.3	234.4
72.5°	187.3	187.3	191.5	195.7
75°	149.7	151.8	153.9	153.9
77.5°	117.2	117.2	119.3	120.4
80°	85.8	86.9	86.9	85.8
82.5°	58.6	60.7	58.6	57.6
85°	32.4	36.6	34.5	34.5
87.5°	13.6	13.6	15.7	13.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)