

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: P1001111

Luminaire Tested: S124RDR-B795DB30-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-B795DB30-4F0-XX-W2A-A
Description: Define 4 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

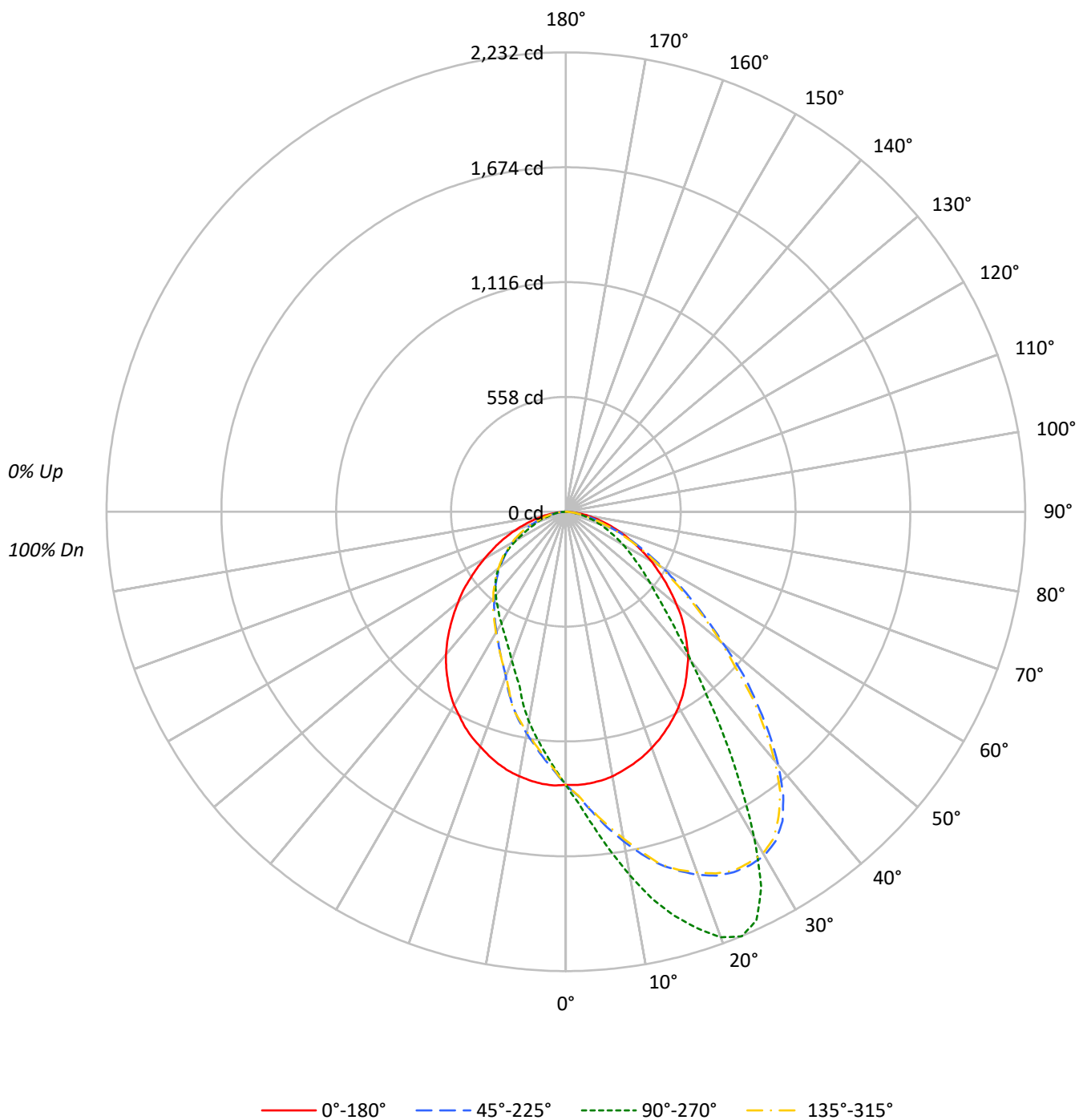
Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	76	70	90	81	75	69	79	73	68		76	71	67		73
4	85	74	66	60	83	73	65	59	71	64	59		68	63	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	56	51		60
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	42	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	38	33	45	38	33		44	38	33		43
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10819	10819	10819	10819
5°	10844	12549	10861	9592
10°	10809	14846	10801	8561
15°	10705	17149	10705	7356
20°	10596	19094	10539	6652
25°	10457	19711	10408	6176
30°	10309	17255	10228	5889
35°	10089	13432	9962	5715
40°	9844	10072	9651	5623
45°	9419	7953	9185	5574
50°	8911	6713	8667	5412
55°	8360	5852	8087	5122
60°	7812	5266	7463	4534
65°	7118	4642	6890	3900
70°	6499	4180	6194	3517
75°	5829	3504	5422	2999
80°	5020	2963	4569	2813
85°	4098	2498	3406	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 16176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.8
10°-20°	388.0	11.6
20°-30°	607.7	18.1
30°-40°	674.9	20.1
40°-50°	598.0	17.8
50°-60°	466.0	13.9
60°-70°	304.9	9.1
70°-80°	149.6	4.5
80°-90°	36.4	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°	1124.2	33.5
0°-40°	1799.1	53.6
0°-60°	2863.1	85.4
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1327	1327	1327	1327	1327	
5°	1325	1533	1327	1172	1325	126
15°	1268	2031	1268	871	1268	358
25°	1162	2191	1157	686	1162	536
35°	1014	1349	1001	574	1014	633
45°	817	690	796	483	817	630
55°	588	412	569	360	588	526
65°	369	241	357	202	369	368
75°	185	111	172	95	185	196
85°	44	27	36	27	44	52
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°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1328.9	1340.7	1347.1	1352.5	1363.2	1367.4	1376.0	1378.1	1386.7	1385.6	1382.4
5°	1324.7	1345.0	1359.9	1376.0	1395.2	1405.9	1417.7	1434.8	1443.3	1455.1	1462.6
7.5°	1317.2	1345.0	1369.6	1394.2	1425.2	1442.3	1457.2	1484.0	1506.4	1525.7	1547.0
10°	1305.4	1340.7	1377.1	1410.2	1453.0	1473.3	1495.7	1535.3	1566.3	1593.0	1627.2
12.5°	1287.2	1336.4	1377.1	1422.0	1476.5	1504.3	1534.2	1581.3	1617.6	1661.4	1704.2
15°	1268.0	1322.5	1376.0	1434.8	1496.8	1528.9	1558.8	1621.9	1677.5	1727.7	1774.8
17.5°	1246.6	1306.5	1365.3	1430.5	1505.3	1544.9	1580.2	1656.1	1717.0	1782.3	1829.3
20°	1221.0	1286.2	1353.5	1426.2	1510.7	1554.5	1594.1	1680.7	1748.0	1818.6	1877.4
22.5°	1193.2	1263.7	1337.5	1416.6	1504.3	1552.4	1598.4	1691.4	1769.4	1834.6	1913.8
25°	1162.2	1237.0	1312.9	1396.3	1494.7	1547.0	1594.1	1686.0	1769.4	1855.0	1931.9
27.5°	1130.1	1207.1	1286.2	1373.8	1474.3	1525.7	1579.1	1667.9	1765.1	1858.2	1936.2
30°	1094.8	1169.6	1253.0	1336.4	1443.3	1494.7	1549.2	1645.4	1751.3	1844.3	1928.7
32.5°	1056.3	1133.3	1212.4	1299.0	1403.8	1459.4	1509.6	1618.7	1726.7	1818.6	1897.7
35°	1013.5	1086.2	1161.1	1249.8	1353.5	1403.8	1463.7	1577.0	1686.0	1783.3	1834.6
37.5°	967.6	1037.1	1106.6	1194.2	1293.7	1354.6	1413.4	1527.8	1643.3	1708.5	1735.2
40°	924.8	985.7	1046.7	1131.1	1231.6	1294.7	1354.6	1473.3	1574.8	1625.1	1604.8
42.5°	870.3	933.4	987.9	1065.9	1167.5	1226.3	1287.2	1410.2	1492.5	1512.8	1462.6
45°	816.8	869.2	921.6	997.5	1104.4	1154.7	1219.9	1334.3	1402.7	1384.5	1310.8
47.5°	764.4	807.2	856.4	930.2	1026.4	1086.2	1147.2	1246.6	1294.7	1269.1	1166.4
50°	702.4	745.2	796.5	860.7	953.7	1011.4	1059.5	1151.5	1187.8	1124.7	1000.7
52.5°	643.6	681.0	724.9	784.7	873.5	925.9	978.3	1057.4	1069.1	996.4	866.0
55°	588.0	618.0	663.9	712.0	793.3	848.9	885.2	952.6	949.4	858.5	746.3
57.5°	530.3	558.1	589.1	639.3	716.3	758.0	797.6	856.4	825.4	748.4	637.2
60°	479.0	495.0	526.0	574.1	639.3	675.7	706.7	738.8	712.0	628.7	543.1
62.5°	422.3	440.5	462.9	501.4	559.2	593.4	615.8	629.7	601.9	537.8	459.7
65°	368.9	384.9	408.4	442.6	486.5	512.1	523.9	533.5	518.5	445.8	383.8
67.5°	320.7	331.4	352.8	375.3	422.3	428.7	444.8	449.0	419.1	363.5	314.3
70°	272.6	283.3	292.9	319.7	341.1	352.8	356.0	356.0	326.1	289.7	249.1
72.5°	227.7	234.1	243.8	261.9	273.7	282.3	286.5	281.2	253.4	223.5	193.5
75°	185.0	188.2	196.7	208.5	218.1	214.9	213.8	207.4	187.1	165.7	148.6
77.5°	142.2	144.3	154.0	157.2	157.2	160.4	156.1	149.7	132.6	116.5	109.1
80°	106.9	110.1	111.2	113.3	111.2	111.2	108.0	97.3	88.7	81.3	75.9
82.5°	73.8	75.9	77.0	73.8	75.9	72.7	67.4	59.9	54.5	53.5	51.3
85°	43.8	44.9	43.8	43.8	40.6	39.6	35.3	34.2	32.1	32.1	31.0
87.5°	21.4	20.3	18.2	16.0	16.0	15.0	16.0	13.9	16.0	15.0	13.9
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°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1391.0	1402.7	1403.8	1414.5	1411.3	1405.9	1415.5	1409.1	1422.0	1417.7	1423.0
5°	1472.2	1488.2	1502.1	1510.7	1525.7	1522.5	1538.5	1533.1	1544.9	1533.1	1548.1
7.5°	1567.4	1594.1	1608.0	1630.4	1636.9	1637.9	1657.2	1661.4	1668.9	1661.4	1670.0
10°	1660.4	1692.4	1724.5	1742.7	1754.5	1770.5	1787.6	1795.1	1800.4	1792.9	1798.3
12.5°	1744.8	1795.1	1830.4	1866.7	1875.3	1889.2	1907.3	1905.2	1926.6	1922.3	1931.9
15°	1822.9	1878.5	1921.2	1950.1	1973.6	1985.4	2019.6	2021.7	2020.7	2031.4	2025.0
17.5°	1892.4	1939.4	2000.4	2037.8	2066.6	2066.6	2085.9	2125.4	2122.2	2121.2	2127.6
20°	1949.0	2002.5	2059.2	2122.2	2145.8	2150.0	2176.8	2197.1	2200.3	2200.3	2200.3
22.5°	1991.8	2054.9	2115.8	2160.7	2178.9	2193.9	2217.4	2230.2	2234.5	2232.4	2234.5
25°	2013.2	2073.1	2135.1	2175.7	2186.4	2194.9	2197.1	2204.6	2203.5	2190.7	2198.2
27.5°	2017.5	2075.2	2115.8	2126.5	2121.2	2115.8	2081.6	2084.8	2075.2	2056.0	2063.4
30°	1998.2	2029.2	2028.2	1995.0	1985.4	1962.9	1931.9	1886.0	1848.5	1832.5	1837.9
32.5°	1928.7	1928.7	1890.2	1815.4	1782.3	1741.6	1686.0	1644.3	1595.2	1584.5	1604.8
35°	1832.5	1778.0	1707.4	1609.1	1558.8	1528.9	1432.6	1402.7	1361.0	1349.3	1358.9
37.5°	1682.8	1591.9	1489.3	1397.4	1354.6	1301.1	1216.7	1173.9	1144.0	1123.7	1133.3
40°	1515.0	1404.8	1297.9	1184.6	1137.6	1093.7	1030.7	992.2	944.1	946.2	949.4
42.5°	1354.6	1225.2	1105.5	1000.7	955.8	919.5	875.6	828.6	811.5	806.1	800.8
45°	1184.6	1046.7	934.4	856.4	815.8	781.5	740.9	714.2	693.9	689.6	694.9
47.5°	1024.2	907.7	800.8	728.1	694.9	677.8	645.8	621.2	608.3	597.6	604.1
50°	878.8	769.8	684.2	623.3	599.8	588.0	558.1	545.3	532.4	529.2	528.2
52.5°	759.1	666.1	592.3	543.1	524.9	518.5	496.1	477.9	467.2	470.4	472.6
55°	650.0	570.9	513.2	473.6	458.7	451.2	435.1	422.3	414.8	411.6	413.8
57.5°	553.8	485.4	443.7	411.6	399.9	396.7	379.5	375.3	369.9	366.7	366.7
60°	466.1	418.0	379.5	361.4	348.5	345.3	332.5	327.2	326.1	322.9	320.7
62.5°	392.4	352.8	326.1	306.8	301.5	300.4	291.9	285.5	282.3	280.1	280.1
65°	328.2	299.4	276.9	263.0	258.7	256.6	247.0	244.8	242.7	240.6	239.5
67.5°	273.7	248.0	232.0	222.4	217.0	218.1	212.8	208.5	208.5	207.4	206.3
70°	221.3	205.3	191.4	186.0	183.9	181.8	179.6	176.4	175.3	175.3	175.3
72.5°	174.3	163.6	156.1	152.9	150.7	148.6	146.5	146.5	146.5	145.4	145.4
75°	133.6	129.4	124.0	120.8	120.8	123.0	119.7	116.5	113.3	111.2	112.3
77.5°	100.5	98.4	95.2	89.8	90.9	88.7	88.7	86.6	87.7	87.7	85.5
80°	73.8	70.6	69.5	66.3	67.4	66.3	65.2	65.2	63.1	63.1	63.1
82.5°	51.3	48.1	48.1	47.0	46.0	46.0	44.9	44.9	46.0	43.8	43.8
85°	31.0	29.9	29.9	27.8	27.8	27.8	27.8	28.9	27.8	26.7	26.7
87.5°	13.9	15.0	13.9	12.8	12.8	12.8	11.8	11.8	10.7	11.8	11.8
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°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1426.2	1418.7	1417.7	1417.7	1405.9	1412.3	1399.5	1385.6	1379.2	1379.2	1367.4
5°	1544.9	1537.4	1529.9	1518.2	1518.2	1511.8	1491.4	1471.1	1456.2	1443.3	1429.4
7.5°	1666.8	1659.3	1637.9	1626.2	1632.6	1619.7	1593.0	1558.8	1533.1	1512.8	1484.0
10°	1799.4	1779.0	1768.4	1761.9	1739.5	1725.6	1694.6	1644.3	1612.3	1585.5	1548.1
12.5°	1907.3	1913.8	1873.1	1876.3	1853.9	1834.6	1786.5	1738.4	1690.3	1652.9	1597.3
15°	2023.9	2004.6	1980.0	1960.8	1953.3	1929.8	1889.2	1825.0	1772.6	1713.8	1650.8
17.5°	2115.8	2100.9	2077.3	2059.2	2043.1	1986.5	1952.2	1895.6	1824.0	1766.2	1689.2
20°	2193.9	2180.0	2146.8	2135.1	2106.2	2065.6	2016.4	1928.7	1864.6	1801.5	1726.7
22.5°	2227.0	2213.1	2184.3	2169.3	2151.1	2111.6	2064.5	1981.1	1902.0	1822.9	1743.8
25°	2199.2	2199.2	2185.3	2180.0	2163.9	2128.7	2080.5	2010.0	1925.5	1840.0	1745.9
27.5°	2064.5	2091.2	2100.9	2106.2	2106.2	2107.3	2074.1	2005.7	1923.4	1840.0	1741.6
30°	1869.9	1914.8	1954.4	1966.1	1986.5	2008.9	2022.8	1989.7	1915.9	1828.2	1729.9
32.5°	1625.1	1682.8	1756.6	1774.8	1802.6	1869.9	1907.3	1921.2	1880.6	1803.6	1698.9
35°	1381.3	1454.0	1498.9	1554.5	1580.2	1679.6	1763.0	1813.3	1803.6	1757.7	1662.5
37.5°	1168.6	1210.3	1264.8	1323.6	1374.9	1470.1	1573.8	1671.1	1710.6	1688.2	1616.5
40°	964.4	1013.5	1078.8	1126.9	1162.2	1257.3	1385.6	1491.4	1578.0	1591.9	1548.1
42.5°	820.0	869.2	908.8	961.2	989.0	1080.9	1194.2	1326.8	1429.4	1484.0	1464.7
45°	708.8	738.8	770.8	800.8	835.0	916.3	1021.0	1166.4	1281.9	1358.9	1366.4
47.5°	611.5	638.3	666.1	693.9	713.1	776.2	872.4	991.1	1117.3	1223.1	1264.8
50°	543.1	556.0	576.3	592.3	614.8	669.3	746.3	848.9	982.5	1096.9	1151.5
52.5°	475.8	491.8	507.8	521.7	536.7	575.2	645.8	734.5	850.0	967.6	1034.9
55°	419.1	431.9	446.9	456.5	465.1	499.3	552.7	621.2	720.6	831.8	915.2
57.5°	373.1	378.5	391.3	396.7	406.3	434.1	472.6	533.5	613.7	721.7	790.1
60°	322.9	333.6	343.2	347.5	355.0	374.2	400.9	457.6	527.1	606.2	684.2
62.5°	282.3	286.5	294.0	299.4	304.7	325.0	347.5	390.2	442.6	508.9	580.5
65°	244.8	247.0	251.2	258.7	261.9	276.9	289.7	320.7	369.9	420.2	491.8
67.5°	206.3	208.5	213.8	218.1	221.3	230.9	244.8	267.3	294.0	349.6	389.2
70°	176.4	176.4	179.6	181.8	185.0	189.2	196.7	213.8	238.4	273.7	310.1
72.5°	147.5	147.5	147.5	150.7	150.7	154.0	158.2	170.0	187.1	214.9	238.4
75°	114.4	115.5	117.6	117.6	118.7	123.0	126.2	129.4	137.9	156.1	177.5
77.5°	86.6	88.7	89.8	87.7	89.8	89.8	94.1	98.4	102.6	108.0	124.0
80°	64.1	65.2	63.1	64.1	64.1	66.3	68.4	67.4	69.5	75.9	80.2
82.5°	42.8	43.8	43.8	43.8	43.8	47.0	47.0	46.0	47.0	48.1	49.2
85°	26.7	25.7	25.7	26.7	25.7	25.7	26.7	27.8	26.7	27.8	28.9
87.5°	11.8	11.8	11.8	11.8	10.7	10.7	11.8	10.7	11.8	10.7	9.6
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: P1001111

CATALOG NUMBER: S124RDR-B795DB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1361.0	1355.7	1352.5	1351.4	1341.8	1336.4	1333.2	1331.1	1327.9	1319.3	1311.8
5°	1412.3	1397.4	1389.9	1381.3	1366.4	1349.3	1335.4	1326.8	1316.1	1299.0	1283.0
7.5°	1460.4	1438.0	1423.0	1411.3	1385.6	1357.8	1335.4	1317.2	1296.9	1273.3	1250.9
10°	1510.7	1474.3	1455.1	1436.9	1399.5	1363.2	1331.1	1304.4	1275.5	1244.5	1219.9
12.5°	1550.3	1502.1	1480.8	1455.1	1409.1	1366.4	1325.7	1289.4	1252.0	1218.8	1183.5
15°	1596.2	1536.4	1511.8	1478.6	1415.5	1359.9	1307.6	1268.0	1229.5	1180.3	1142.9
17.5°	1623.0	1553.5	1518.2	1489.3	1420.9	1353.5	1292.6	1243.4	1198.5	1149.3	1109.8
20°	1649.7	1570.6	1531.0	1490.4	1409.1	1337.5	1273.3	1214.5	1167.5	1114.0	1073.4
22.5°	1658.2	1566.3	1524.6	1487.2	1401.6	1321.5	1247.7	1187.8	1133.3	1079.8	1033.9
25°	1658.2	1565.2	1516.0	1467.9	1378.1	1295.8	1222.0	1156.8	1095.9	1042.4	996.4
27.5°	1641.1	1543.8	1492.5	1448.7	1355.7	1266.9	1191.0	1119.4	1060.6	1007.1	954.7
30°	1619.7	1512.8	1461.5	1409.1	1319.3	1234.9	1152.5	1086.2	1024.2	963.3	916.3
32.5°	1593.0	1479.7	1423.0	1369.6	1274.4	1186.7	1110.8	1045.6	986.8	923.7	871.3
35°	1554.5	1430.5	1367.4	1320.4	1228.4	1137.6	1064.9	1000.7	944.1	878.8	822.2
37.5°	1505.3	1385.6	1321.5	1263.7	1168.6	1085.2	1016.8	954.7	899.1	839.3	776.2
40°	1447.6	1322.5	1266.9	1206.0	1105.5	1026.4	962.2	906.6	851.0	794.4	733.4
42.5°	1382.4	1258.4	1196.4	1137.6	1041.3	963.3	903.4	853.2	801.9	749.5	684.2
45°	1304.4	1187.8	1127.9	1072.3	979.3	899.1	844.6	796.5	752.7	699.2	641.5
47.5°	1216.7	1115.1	1054.2	994.3	903.4	833.9	780.5	739.8	702.4	649.0	596.6
50°	1131.1	1030.7	981.5	920.5	837.1	771.9	717.4	683.2	654.3	601.9	554.9
52.5°	1023.2	947.3	900.2	847.8	767.6	701.4	658.6	628.7	594.4	553.8	512.1
55°	928.0	857.4	820.0	770.8	691.7	632.9	596.6	568.8	542.1	505.7	472.6
57.5°	820.0	776.2	738.8	696.0	618.0	567.7	535.6	512.1	487.5	457.6	430.9
60°	706.7	686.4	650.0	615.8	549.5	505.7	479.0	457.6	434.1	409.5	387.0
62.5°	606.2	594.4	573.1	546.3	484.3	446.9	420.2	404.1	387.0	364.6	343.2
65°	511.0	505.7	485.4	466.1	423.4	390.2	366.7	357.1	337.8	320.7	301.5
67.5°	426.6	420.2	408.4	399.9	363.5	332.5	320.7	307.9	291.9	279.0	263.0
70°	341.1	340.0	332.5	321.8	302.6	280.1	268.4	259.8	243.8	234.1	222.4
72.5°	265.1	270.5	264.1	259.8	247.0	230.9	220.2	214.9	202.1	194.6	186.0
75°	197.8	202.1	205.3	197.8	194.6	187.1	177.5	172.1	165.7	155.0	151.8
77.5°	134.7	144.3	144.3	146.5	147.5	143.3	135.8	131.5	124.0	121.9	117.6
80°	88.7	97.3	98.4	100.5	103.7	103.7	98.4	97.3	89.8	88.7	85.5
82.5°	51.3	58.8	63.1	66.3	65.2	69.5	65.2	64.1	59.9	59.9	57.7
85°	27.8	28.9	31.0	33.1	35.3	37.4	37.4	36.4	35.3	34.2	32.1
87.5°	10.7	10.7	11.8	10.7	11.8	13.9	15.0	15.0	13.9	12.8	10.7
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: P1001111

CATALOG NUMBER: S124RDR-B795DB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1305.4	1303.3	1301.1	1292.6	1285.1	1272.3	1261.6	1257.3	1256.2	1257.3	1254.1
5°	1268.0	1266.9	1259.4	1244.5	1230.6	1215.6	1204.9	1194.2	1187.8	1187.8	1180.3
7.5°	1232.7	1225.2	1218.8	1199.6	1183.5	1163.2	1147.2	1137.6	1132.2	1120.5	1120.5
10°	1195.3	1184.6	1176.1	1157.9	1134.4	1114.0	1093.7	1082.0	1072.3	1063.8	1060.6
12.5°	1157.9	1149.3	1133.3	1114.0	1090.5	1064.9	1043.5	1034.9	1012.5	994.3	995.4
15°	1122.6	1103.4	1095.9	1068.1	1040.3	1015.7	984.7	960.1	941.9	930.2	915.2
17.5°	1083.0	1063.8	1049.9	1026.4	990.0	951.5	921.6	888.5	870.3	850.0	840.3
20°	1039.2	1023.2	1012.5	975.1	931.2	885.2	852.1	831.8	811.5	796.5	788.0
22.5°	1001.8	981.5	968.6	918.4	870.3	824.3	798.6	781.5	764.4	751.6	747.3
25°	953.7	941.9	910.9	867.1	808.3	777.3	754.8	732.4	722.7	714.2	704.6
27.5°	914.1	885.2	863.9	806.1	769.8	734.5	712.0	694.9	683.2	674.6	667.1
30°	864.9	838.2	808.3	760.2	727.0	693.9	673.6	659.7	646.8	641.5	635.1
32.5°	813.6	789.0	760.2	721.7	681.0	655.4	639.3	624.4	615.8	610.5	603.0
35°	767.6	736.6	717.4	681.0	647.9	619.0	604.1	591.2	581.6	579.5	578.4
37.5°	718.5	694.9	676.8	639.3	611.5	587.0	573.1	559.2	553.8	552.7	548.5
40°	675.7	655.4	638.3	603.0	573.1	550.6	539.9	531.4	526.0	526.0	524.9
42.5°	638.3	616.9	599.8	567.7	541.0	520.7	508.9	500.4	498.2	499.3	498.2
45°	596.6	578.4	561.3	528.2	505.7	490.7	477.9	473.6	470.4	471.5	472.6
47.5°	557.0	542.1	524.9	498.2	472.6	456.5	449.0	444.8	444.8	444.8	446.9
50°	521.7	504.6	489.7	461.9	438.3	425.5	419.1	413.8	414.8	415.9	417.0
52.5°	480.0	465.1	454.4	426.6	409.5	393.4	386.0	387.0	386.0	386.0	388.1
55°	443.7	428.7	418.0	392.4	375.3	364.6	358.2	355.0	356.0	353.9	358.2
57.5°	403.1	390.2	382.8	358.2	343.2	333.6	328.2	322.9	325.0	323.9	322.9
60°	367.8	352.8	341.1	323.9	311.1	299.4	296.2	290.8	292.9	290.8	289.7
62.5°	327.2	315.4	306.8	289.7	279.0	269.4	261.9	258.7	257.7	254.5	251.2
65°	286.5	280.1	271.6	254.5	243.8	236.3	232.0	228.8	227.7	219.2	209.6
67.5°	249.1	244.8	236.3	223.5	213.8	206.3	199.9	194.6	188.2	181.8	176.4
70°	213.8	207.4	202.1	190.3	181.8	174.3	167.9	161.4	158.2	151.8	149.7
72.5°	179.6	173.2	167.9	157.2	149.7	142.2	140.1	132.6	129.4	128.3	128.3
75°	144.3	139.0	135.8	126.2	119.7	114.4	111.2	109.1	106.9	104.8	101.6
77.5°	110.1	106.9	104.8	98.4	93.0	89.8	88.7	81.3	79.1	77.0	74.8
80°	80.2	79.1	77.0	71.6	69.5	62.0	62.0	59.9	58.8	58.8	58.8
82.5°	54.5	52.4	51.3	46.0	44.9	43.8	42.8	41.7	42.8	41.7	42.8
85°	28.9	27.8	26.7	26.7	26.7	26.7	26.7	26.7	26.7	25.7	26.7
87.5°	10.7	10.7	10.7	10.7	9.6	10.7	10.7	9.6	10.7	10.7	10.7
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: P1001111

CATALOG NUMBER: S124RDR-B795DB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1254.1	1258.4	1253.0	1256.2	1248.8	1247.7	1248.8	1248.8	1249.8	1250.9	1252.0
5°	1183.5	1182.5	1176.1	1171.8	1168.6	1171.8	1173.9	1176.1	1173.9	1176.1	1177.1
7.5°	1117.3	1114.0	1110.8	1103.4	1105.5	1103.4	1109.8	1106.6	1106.6	1111.9	1116.2
10°	1058.4	1052.0	1049.9	1041.3	1034.9	1033.9	1041.3	1044.5	1047.8	1049.9	1058.4
12.5°	982.5	972.9	965.4	968.6	950.5	957.9	960.1	955.8	968.6	983.6	975.1
15°	901.3	902.4	887.4	882.0	867.1	871.3	872.4	883.1	893.8	892.7	905.6
17.5°	841.4	835.0	822.2	821.1	814.7	817.9	816.8	825.4	822.2	827.5	838.2
20°	785.8	781.5	770.8	766.6	768.7	766.6	767.6	768.7	771.9	783.7	781.5
22.5°	742.0	736.6	736.6	731.3	724.9	722.7	728.1	731.3	735.6	737.7	743.1
25°	703.5	699.2	693.9	690.7	685.3	686.4	689.6	693.9	697.1	701.4	705.6
27.5°	663.9	663.9	658.6	657.5	655.4	654.3	658.6	660.7	660.7	663.9	668.2
30°	632.9	632.9	627.6	626.5	625.4	625.4	628.7	629.7	630.8	634.0	636.1
32.5°	603.0	601.9	599.8	600.9	599.8	600.9	600.9	601.9	604.1	605.1	609.4
35°	575.2	576.3	574.1	574.1	573.1	574.1	576.3	577.3	578.4	580.5	580.5
37.5°	548.5	550.6	549.5	552.7	552.7	552.7	552.7	554.9	554.9	554.9	553.8
40°	524.9	524.9	523.9	526.0	528.2	528.2	529.2	529.2	530.3	530.3	529.2
42.5°	498.2	500.4	503.6	504.6	506.8	505.7	508.9	507.8	508.9	506.8	504.6
45°	473.6	473.6	477.9	482.2	483.3	483.3	483.3	485.4	483.3	480.0	479.0
47.5°	446.9	449.0	451.2	456.5	457.6	457.6	457.6	457.6	455.5	455.5	455.5
50°	420.2	421.2	422.3	424.4	427.7	426.6	426.6	426.6	430.9	426.6	427.7
52.5°	388.1	389.2	390.2	394.5	393.4	393.4	394.5	394.5	397.7	396.7	394.5
55°	356.0	356.0	358.2	358.2	358.2	360.3	361.4	363.5	362.4	363.5	364.6
57.5°	323.9	321.8	320.7	320.7	323.9	322.9	323.9	323.9	328.2	330.4	331.4
60°	286.5	286.5	285.5	279.0	279.0	278.0	281.2	283.3	285.5	295.1	294.0
62.5°	248.0	243.8	239.5	240.6	234.1	237.3	235.2	237.3	243.8	251.2	252.3
65°	209.6	206.3	202.1	201.0	198.9	202.1	201.0	202.1	205.3	209.6	214.9
67.5°	175.3	174.3	172.1	171.1	171.1	171.1	173.2	173.2	174.3	177.5	180.7
70°	149.7	148.6	149.7	147.5	148.6	147.5	148.6	149.7	150.7	151.8	155.0
72.5°	126.2	126.2	126.2	124.0	126.2	125.1	125.1	126.2	127.2	128.3	130.4
75°	100.5	98.4	96.2	94.1	93.0	95.2	96.2	95.2	98.4	102.6	102.6
77.5°	75.9	74.8	74.8	74.8	75.9	74.8	77.0	75.9	77.0	77.0	79.1
80°	58.8	57.7	58.8	58.8	57.7	59.9	58.8	58.8	59.9	60.9	59.9
82.5°	42.8	43.8	42.8	42.8	42.8	44.9	42.8	42.8	42.8	43.8	43.8
85°	26.7	26.7	26.7	26.7	27.8	26.7	27.8	26.7	28.9	27.8	27.8
87.5°	9.6	10.7	11.8	11.8	11.8	11.8	10.7	11.8	12.8	11.8	12.8
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: P1001111

CATALOG NUMBER: S124RDR-B795DB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1256.2	1261.6	1259.4	1252.0	1255.2	1261.6	1268.0	1276.6	1281.9	1286.2	1288.3
5°	1182.5	1192.1	1190.0	1190.0	1194.2	1204.9	1215.6	1233.8	1240.2	1247.7	1258.4
7.5°	1117.3	1124.7	1131.1	1133.3	1139.7	1153.6	1167.5	1187.8	1203.9	1212.4	1218.8
10°	1059.5	1064.9	1074.5	1079.8	1086.2	1103.4	1123.7	1145.0	1161.1	1176.1	1184.6
12.5°	985.7	1007.1	1020.0	1028.5	1037.1	1062.7	1078.8	1102.3	1121.5	1135.4	1148.3
15°	903.4	929.1	936.6	969.7	991.1	1011.4	1036.0	1063.8	1082.0	1098.0	1115.1
17.5°	833.9	852.1	860.7	895.9	914.1	946.2	981.5	1016.8	1044.5	1056.3	1073.4
20°	790.1	799.7	816.8	828.6	847.8	885.2	923.7	966.5	1008.2	1020.0	1037.1
22.5°	745.2	758.0	769.8	785.8	800.8	826.4	864.9	912.0	956.9	978.3	998.6
25°	704.6	717.4	724.9	742.0	755.9	781.5	808.3	856.4	909.8	928.0	960.1
27.5°	672.5	680.0	692.8	700.3	716.3	739.8	764.4	800.8	853.2	884.2	915.2
30°	640.4	645.8	656.5	667.1	678.9	694.9	722.7	758.0	806.1	832.9	863.9
32.5°	608.3	616.9	623.3	630.8	643.6	662.9	682.1	716.3	754.8	784.7	815.8
35°	581.6	584.8	593.4	601.9	610.5	627.6	647.9	681.0	715.3	738.8	766.6
37.5°	552.7	558.1	564.5	567.7	581.6	592.3	613.7	639.3	680.0	694.9	722.7
40°	530.3	529.2	535.6	541.0	547.4	564.5	577.3	605.1	637.2	660.7	677.8
42.5°	502.5	502.5	504.6	511.0	519.6	530.3	545.3	568.8	601.9	619.0	639.3
45°	480.0	476.8	477.9	482.2	487.5	498.2	513.2	533.5	566.6	580.5	601.9
47.5°	453.3	450.1	450.1	454.4	458.7	466.1	477.9	501.4	528.2	546.3	562.4
50°	423.4	424.4	423.4	426.6	428.7	436.2	449.0	468.3	492.9	507.8	526.0
52.5°	395.6	393.4	392.4	394.5	398.8	404.1	418.0	435.1	458.7	473.6	489.7
55°	361.4	363.5	363.5	363.5	369.9	372.1	382.8	399.9	423.4	435.1	450.1
57.5°	330.4	329.3	331.4	330.4	335.7	343.2	351.7	364.6	388.1	399.9	413.8
60°	296.2	297.2	298.3	298.3	302.6	310.1	319.7	331.4	350.7	362.4	375.3
62.5°	254.5	259.8	265.1	267.3	273.7	279.0	285.5	298.3	315.4	323.9	335.7
65°	214.9	222.4	229.9	235.2	239.5	244.8	253.4	265.1	279.0	287.6	299.4
67.5°	180.7	186.0	195.7	201.0	209.6	216.0	221.3	230.9	248.0	251.2	260.9
70°	156.1	158.2	162.5	166.8	176.4	181.8	188.2	197.8	210.6	218.1	223.5
72.5°	131.5	132.6	134.7	139.0	143.3	149.7	157.2	165.7	177.5	180.7	188.2
75°	104.8	111.2	111.2	114.4	117.6	120.8	127.2	135.8	143.3	148.6	152.9
77.5°	78.0	81.3	83.4	88.7	93.0	96.2	100.5	106.9	111.2	115.5	118.7
80°	60.9	62.0	63.1	63.1	65.2	69.5	73.8	78.0	83.4	85.5	88.7
82.5°	44.9	44.9	44.9	47.0	48.1	49.2	49.2	51.3	56.7	58.8	62.0
85°	28.9	28.9	28.9	28.9	29.9	31.0	32.1	33.1	33.1	33.1	35.3
87.5°	11.8	13.9	12.8	13.9	13.9	13.9	13.9	15.0	15.0	16.0	16.0
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: P1001111

CATALOG NUMBER: S124RDR-B795DB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1326.8	1326.8	1326.8	1326.8
2.5°	1296.9	1303.3	1314.0	1328.9
5°	1266.9	1285.1	1302.2	1324.7
7.5°	1240.2	1261.6	1285.1	1317.2
10°	1209.2	1235.9	1265.9	1305.4
12.5°	1172.8	1210.3	1244.5	1287.2
15°	1146.1	1173.9	1217.7	1268.0
17.5°	1108.7	1146.1	1190.0	1246.6
20°	1073.4	1113.0	1162.2	1221.0
22.5°	1036.0	1080.9	1130.1	1193.2
25°	997.5	1045.6	1094.8	1162.2
27.5°	962.2	1006.1	1061.7	1130.1
30°	919.5	969.7	1023.2	1094.8
32.5°	877.8	930.2	984.7	1056.3
35°	832.9	885.2	945.1	1013.5
37.5°	789.0	846.8	901.3	967.6
40°	740.9	800.8	857.4	924.8
42.5°	693.9	755.9	812.5	870.3
45°	650.0	711.0	762.3	816.8
47.5°	608.3	662.9	715.3	764.4
50°	567.7	613.7	661.8	702.4
52.5°	524.9	568.8	607.3	643.6
55°	486.5	520.7	554.9	588.0
57.5°	440.5	474.7	504.6	530.3
60°	402.0	423.4	452.2	479.0
62.5°	358.2	382.8	405.2	422.3
65°	315.4	336.8	353.9	368.9
67.5°	279.0	291.9	304.7	320.7
70°	235.2	245.9	260.9	272.6
72.5°	197.8	206.3	213.8	227.7
75°	160.4	167.9	172.1	185.0
77.5°	124.0	131.5	134.7	142.2
80°	95.2	96.2	100.5	106.9
82.5°	65.2	67.4	68.4	73.8
85°	37.4	42.8	41.7	43.8
87.5°	16.0	17.1	19.2	21.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)