

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: P1001117

Luminaire Tested: S124RDR-B795DB50-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001117
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-B795DB50-4F0-XX-W2A-A
Description: Define 4 Regressed Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

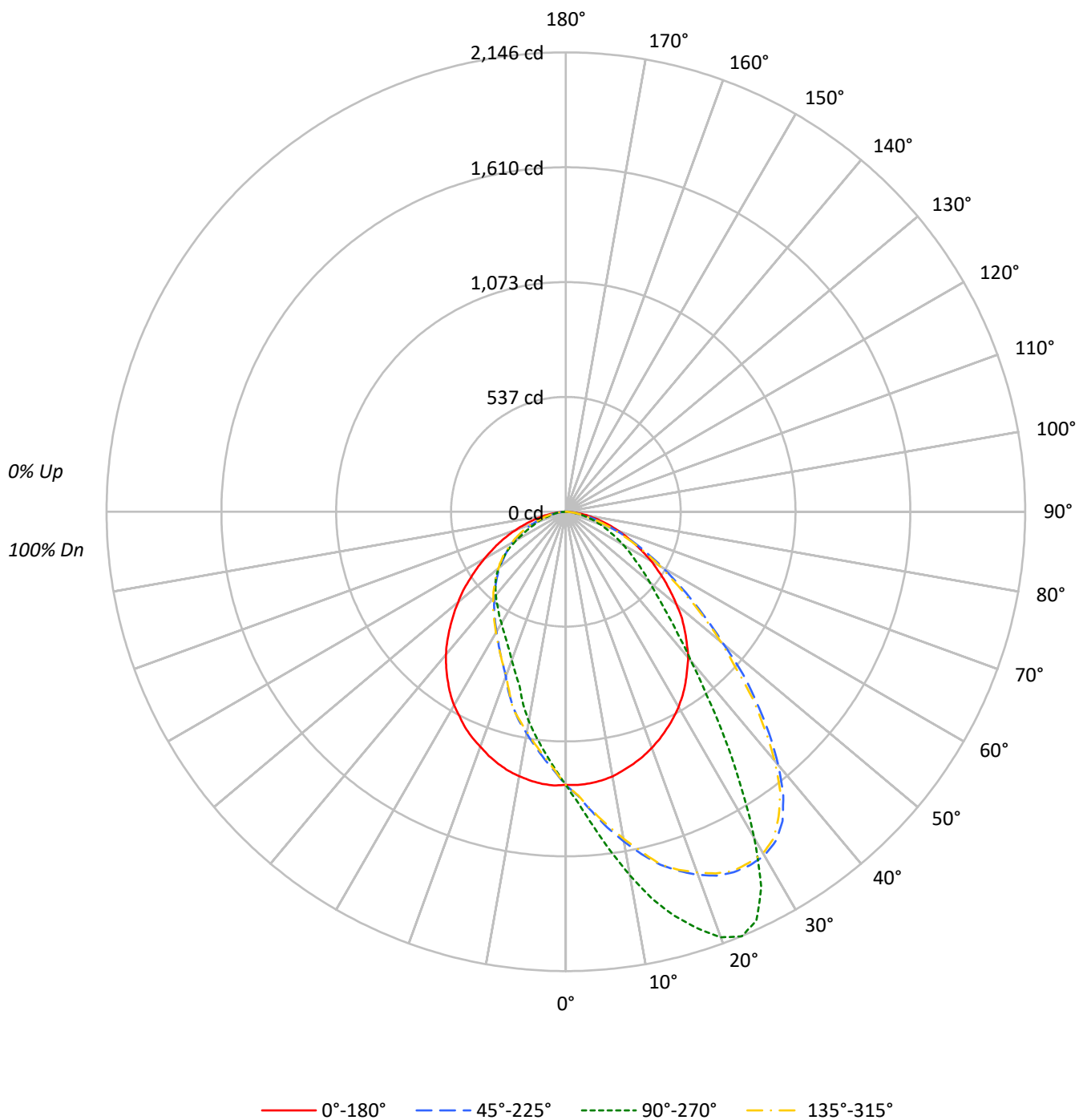
Lumens per Lamp: N/A
Luminaire Lumens: 3225.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	76	70	90	81	75	69	79	73	68		76	71	67		73	69	65	63
4	85	74	66	60	83	73	65	59	71	64	59		68	63	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	56	51		60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	44	40	38
8	64	51	42	37	62	50	42	37	49	42	37		47	41	36		46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33		44	38	33		43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10403	10403	10403	10403
5°	10426	12067	10443	9223
10°	10393	14275	10385	8231
15°	10293	16489	10293	7073
20°	10188	18360	10134	6396
25°	10055	18952	10008	5938
30°	9912	16591	9835	5663
35°	9702	12915	9578	5495
40°	9465	9685	9280	5405
45°	9057	7647	8832	5359
50°	8568	6456	8334	5204
55°	8038	5627	7775	4925
60°	7512	5064	7176	4359
65°	6844	4463	6626	3749
70°	6249	4020	5956	3383
75°	5602	3368	5214	2883
80°	4827	2850	4391	2705
85°	3939	2405	3275	2405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 15555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.8
10°-20°	373.1	11.6
20°-30°	584.4	18.1
30°-40°	648.9	20.1
40°-50°	575.0	17.8
50°-60°	448.1	13.9
60°-70°	293.1	9.1
70°-80°	143.8	4.5
80°-90°	35.0	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°	1081.0	33.5
0°-40°	1729.9	53.6
0°-60°	2753.0	85.4
0°-90°	3225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1276	1276	1276	1276	1276	
5°	1274	1474	1276	1127	1274	121
15°	1219	1953	1219	838	1219	344
25°	1118	2106	1112	660	1118	515
35°	975	1297	962	552	975	609
45°	785	663	766	465	785	606
55°	565	396	547	346	565	506
65°	355	231	343	194	355	354
75°	178	107	166	92	178	189
85°	42	26	35	26	42	50
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°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1277.8	1289.1	1295.3	1300.4	1310.7	1314.8	1323.1	1325.1	1333.3	1332.3	1329.2
5°	1273.7	1293.2	1307.6	1323.1	1341.6	1351.8	1363.2	1379.6	1387.8	1399.1	1406.3
7.5°	1266.5	1293.2	1316.9	1340.5	1370.3	1386.8	1401.2	1426.9	1448.5	1467.0	1487.5
10°	1255.2	1289.1	1324.1	1356.0	1397.1	1416.6	1438.2	1476.2	1506.0	1531.7	1564.6
12.5°	1237.7	1285.0	1324.1	1367.3	1419.7	1446.4	1475.2	1520.4	1555.4	1597.5	1638.7
15°	1219.2	1271.7	1323.1	1379.6	1439.2	1470.1	1498.9	1559.5	1613.0	1661.3	1706.5
17.5°	1198.7	1256.2	1312.8	1375.5	1447.5	1485.5	1519.4	1592.4	1651.0	1713.7	1758.9
20°	1174.0	1236.7	1301.5	1371.4	1452.6	1494.7	1532.8	1616.0	1680.8	1748.7	1805.2
22.5°	1147.3	1215.1	1286.1	1362.1	1446.4	1492.7	1536.9	1626.3	1701.4	1764.1	1840.2
25°	1117.5	1189.4	1262.4	1342.6	1437.2	1487.5	1532.8	1621.2	1701.4	1783.6	1857.6
27.5°	1086.6	1160.6	1236.7	1321.0	1417.6	1467.0	1518.4	1603.7	1697.3	1786.7	1861.7
30°	1052.7	1124.7	1204.8	1285.0	1387.8	1437.2	1489.6	1582.1	1683.9	1773.3	1854.5
32.5°	1015.7	1089.7	1165.8	1249.0	1349.8	1403.2	1451.6	1556.4	1660.3	1748.7	1824.7
35°	974.6	1044.5	1116.4	1201.8	1301.5	1349.8	1407.4	1516.3	1621.2	1714.7	1764.1
37.5°	930.4	997.2	1064.0	1148.3	1243.9	1302.5	1359.0	1469.0	1580.1	1642.8	1668.5
40°	889.2	947.8	1006.4	1087.6	1184.3	1244.9	1302.5	1416.6	1514.3	1562.6	1543.1
42.5°	836.8	897.5	949.9	1024.9	1122.6	1179.1	1237.7	1356.0	1435.1	1454.6	1406.3
45°	785.4	835.8	886.2	959.1	1061.9	1110.3	1173.0	1283.0	1348.8	1331.3	1260.4
47.5°	735.0	776.2	823.4	894.4	986.9	1044.5	1103.1	1198.7	1244.9	1220.3	1121.6
50°	675.4	716.5	765.9	827.6	917.0	972.5	1018.8	1107.2	1142.1	1081.5	962.2
52.5°	618.9	654.8	697.0	754.6	839.9	890.3	940.6	1016.7	1028.0	958.1	832.7
55°	565.4	594.2	638.4	684.7	762.8	816.2	851.2	916.0	912.9	825.5	717.6
57.5°	509.9	536.6	566.4	614.8	688.8	728.9	766.9	823.4	793.6	719.6	612.7
60°	460.6	476.0	505.8	552.0	614.8	649.7	679.5	710.4	684.7	604.5	522.2
62.5°	406.1	423.5	445.1	482.1	537.7	570.6	592.1	605.5	578.8	517.1	442.0
65°	354.7	370.1	392.7	425.6	467.7	492.4	503.7	513.0	498.6	428.7	369.1
67.5°	308.4	318.7	339.2	360.8	406.1	412.2	427.7	431.8	403.0	349.5	302.2
70°	262.1	272.4	281.7	307.4	327.9	339.2	342.3	342.3	313.5	278.6	239.5
72.5°	219.0	225.1	234.4	251.9	263.2	271.4	275.5	270.4	243.6	214.9	186.1
75°	177.8	180.9	189.2	200.5	209.7	206.6	205.6	199.4	179.9	159.3	142.9
77.5°	136.7	138.8	148.0	151.1	151.1	154.2	150.1	143.9	127.5	112.1	104.9
80°	102.8	105.9	106.9	109.0	106.9	106.9	103.8	93.5	85.3	78.1	73.0
82.5°	70.9	73.0	74.0	70.9	73.0	69.9	64.8	57.6	52.4	51.4	49.3
85°	42.1	43.2	42.1	42.1	39.1	38.0	33.9	32.9	30.8	30.8	29.8
87.5°	20.6	19.5	17.5	15.4	15.4	14.4	15.4	13.4	15.4	14.4	13.4
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°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1337.5	1348.8	1349.8	1360.1	1357.0	1351.8	1361.1	1354.9	1367.3	1363.2	1368.3
5°	1415.6	1431.0	1444.4	1452.6	1467.0	1463.9	1479.3	1474.2	1485.5	1474.2	1488.6
7.5°	1507.1	1532.8	1546.1	1567.7	1573.9	1574.9	1593.4	1597.5	1604.7	1597.5	1605.8
10°	1596.5	1627.4	1658.2	1675.7	1687.0	1702.4	1718.8	1726.0	1731.2	1724.0	1729.1
12.5°	1677.7	1726.0	1760.0	1794.9	1803.1	1816.5	1834.0	1831.9	1852.5	1848.4	1857.6
15°	1752.8	1806.2	1847.3	1875.1	1897.7	1909.0	1941.9	1944.0	1943.0	1953.2	1947.1
17.5°	1819.6	1864.8	1923.4	1959.4	1987.2	1987.2	2005.7	2043.7	2040.6	2039.6	2045.8
20°	1874.1	1925.5	1980.0	2040.6	2063.2	2067.3	2093.0	2112.6	2115.7	2115.7	2115.7
22.5°	1915.2	1975.9	2034.4	2077.6	2095.1	2109.5	2132.1	2144.4	2148.6	2146.5	2148.6
25°	1935.8	1993.3	2053.0	2092.0	2102.3	2110.5	2112.6	2119.8	2118.7	2106.4	2113.6
27.5°	1939.9	1995.4	2034.4	2044.7	2039.6	2034.4	2001.6	2004.6	1995.4	1976.9	1984.1
30°	1921.4	1951.2	1950.2	1918.3	1909.0	1887.4	1857.6	1813.4	1777.4	1762.0	1767.2
32.5°	1854.5	1854.5	1817.5	1745.6	1713.7	1674.6	1621.2	1581.1	1533.8	1523.5	1543.1
35°	1762.0	1709.6	1641.7	1547.2	1498.9	1470.1	1377.5	1348.8	1308.7	1297.4	1306.6
37.5°	1618.1	1530.7	1432.0	1343.6	1302.5	1251.1	1169.9	1128.8	1100.0	1080.4	1089.7
40°	1456.7	1350.8	1248.0	1139.0	1093.8	1051.7	991.0	954.0	907.7	909.8	912.9
42.5°	1302.5	1178.1	1063.0	962.2	919.0	884.1	841.9	796.7	780.3	775.1	770.0
45°	1139.0	1006.4	898.5	823.4	784.4	751.5	712.4	686.7	667.2	663.1	668.2
47.5°	984.8	872.8	770.0	700.1	668.2	651.8	620.9	597.3	584.9	574.7	580.8
50°	845.0	740.2	657.9	599.3	576.7	565.4	536.6	524.3	512.0	508.9	507.8
52.5°	729.9	640.5	569.5	522.2	504.8	498.6	477.0	459.5	449.2	452.3	454.4
55°	625.0	549.0	493.4	455.4	441.0	433.8	418.4	406.1	398.9	395.8	397.8
57.5°	532.5	466.7	426.6	395.8	384.5	381.4	364.9	360.8	355.7	352.6	352.6
60°	448.2	402.0	364.9	347.5	335.1	332.1	319.7	314.6	313.5	310.5	308.4
62.5°	377.3	339.2	313.5	295.0	289.9	288.9	280.6	274.5	271.4	269.3	269.3
65°	315.6	287.8	266.3	252.9	248.8	246.7	237.5	235.4	233.4	231.3	230.3
67.5°	263.2	238.5	223.1	213.8	208.7	209.7	204.6	200.5	200.5	199.4	198.4
70°	212.8	197.4	184.0	178.9	176.8	174.8	172.7	169.6	168.6	168.6	168.6
72.5°	167.6	157.3	150.1	147.0	145.0	142.9	140.8	140.8	140.8	139.8	139.8
75°	128.5	124.4	119.3	116.2	116.2	118.2	115.1	112.1	109.0	106.9	107.9
77.5°	96.6	94.6	91.5	86.4	87.4	85.3	85.3	83.3	84.3	84.3	82.2
80°	70.9	67.8	66.8	63.7	64.8	63.7	62.7	62.7	60.7	60.7	60.7
82.5°	49.3	46.3	46.3	45.2	44.2	44.2	43.2	43.2	44.2	42.1	42.1
85°	29.8	28.8	28.8	26.7	26.7	26.7	26.7	27.8	26.7	25.7	25.7
87.5°	13.4	14.4	13.4	12.3	12.3	12.3	11.3	11.3	10.3	11.3	11.3
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°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1371.4	1364.2	1363.2	1363.2	1351.8	1358.0	1345.7	1332.3	1326.1	1326.1	1314.8
5°	1485.5	1478.3	1471.1	1459.8	1459.8	1453.6	1434.1	1414.6	1400.2	1387.8	1374.5
7.5°	1602.7	1595.5	1574.9	1563.6	1569.8	1557.4	1531.7	1498.9	1474.2	1454.6	1426.9
10°	1730.2	1710.6	1700.3	1694.2	1672.6	1659.2	1629.4	1581.1	1550.3	1524.6	1488.6
12.5°	1834.0	1840.2	1801.1	1804.2	1782.6	1764.1	1717.8	1671.6	1625.3	1589.3	1535.9
15°	1946.0	1927.5	1903.9	1885.4	1878.2	1855.6	1816.5	1754.8	1704.5	1647.9	1587.3
17.5°	2034.4	2020.1	1997.4	1980.0	1964.5	1910.1	1877.2	1822.7	1753.8	1698.3	1624.3
20°	2109.5	2096.1	2064.3	2053.0	2025.2	1986.1	1938.8	1854.5	1792.9	1732.2	1660.3
22.5°	2141.4	2128.0	2100.2	2085.8	2068.4	2030.3	1985.1	1904.9	1828.8	1752.8	1676.7
25°	2114.6	2114.6	2101.3	2096.1	2080.7	2046.8	2000.5	1932.7	1851.5	1769.2	1678.8
27.5°	1985.1	2010.8	2020.1	2025.2	2025.2	2026.2	1994.4	1928.6	1849.4	1769.2	1674.6
30°	1798.0	1841.2	1879.2	1890.5	1910.1	1931.6	1945.0	1913.1	1842.2	1757.9	1663.3
32.5°	1562.6	1618.1	1689.0	1706.5	1733.2	1798.0	1834.0	1847.3	1808.3	1734.3	1633.5
35°	1328.2	1398.1	1441.3	1494.7	1519.4	1615.0	1695.2	1743.5	1734.3	1690.1	1598.6
37.5°	1123.6	1163.7	1216.1	1272.7	1322.0	1413.5	1513.2	1606.8	1644.8	1623.2	1554.4
40°	927.3	974.6	1037.3	1083.5	1117.5	1209.0	1332.3	1434.1	1517.4	1530.7	1488.6
42.5°	788.5	835.8	873.8	924.2	950.9	1039.3	1148.3	1275.8	1374.5	1426.9	1408.4
45°	681.6	710.4	741.2	770.0	802.9	881.0	981.8	1121.6	1232.6	1306.6	1313.8
47.5°	588.0	613.7	640.5	667.2	685.7	746.3	838.9	953.0	1074.3	1176.1	1216.1
50°	522.2	534.6	554.1	569.5	591.1	643.5	717.6	816.2	944.7	1054.7	1107.2
52.5°	457.5	472.9	488.3	501.7	516.1	553.1	620.9	706.2	817.3	930.4	995.1
55°	403.0	415.3	429.7	439.0	447.2	480.1	531.5	597.3	692.9	799.8	880.0
57.5°	358.8	363.9	376.3	381.4	390.6	417.4	454.4	513.0	590.1	693.9	759.7
60°	310.5	320.7	330.0	334.1	341.3	359.8	385.5	440.0	506.8	582.9	657.9
62.5°	271.4	275.5	282.7	287.8	293.0	312.5	334.1	375.2	425.6	489.3	558.2
65°	235.4	237.5	241.6	248.8	251.9	266.3	278.6	308.4	355.7	404.0	472.9
67.5°	198.4	200.5	205.6	209.7	212.8	222.1	235.4	257.0	282.7	336.2	374.2
70°	169.6	169.6	172.7	174.8	177.8	182.0	189.2	205.6	229.2	263.2	298.1
72.5°	141.9	141.9	141.9	145.0	145.0	148.0	152.1	163.5	179.9	206.6	229.2
75°	110.0	111.0	113.1	113.1	114.1	118.2	121.3	124.4	132.6	150.1	170.7
77.5°	83.3	85.3	86.4	84.3	86.4	86.4	90.5	94.6	98.7	103.8	119.3
80°	61.7	62.7	60.7	61.7	61.7	63.7	65.8	64.8	66.8	73.0	77.1
82.5°	41.1	42.1	42.1	42.1	42.1	45.2	45.2	44.2	45.2	46.3	47.3
85°	25.7	24.7	24.7	25.7	24.7	24.7	25.7	26.7	25.7	26.7	27.8
87.5°	11.3	11.3	11.3	11.3	10.3	10.3	11.3	10.3	11.3	10.3	9.3
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: P1001117

CATALOG NUMBER: S124RDR-B795DB50-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1308.7	1303.5	1300.4	1299.4	1290.2	1285.0	1281.9	1279.9	1276.8	1268.6	1261.4
5°	1358.0	1343.6	1336.4	1328.2	1313.8	1297.4	1284.0	1275.8	1265.5	1249.0	1233.6
7.5°	1404.3	1382.7	1368.3	1357.0	1332.3	1305.6	1284.0	1266.5	1247.0	1224.4	1202.8
10°	1452.6	1417.6	1399.1	1381.7	1345.7	1310.7	1279.9	1254.2	1226.4	1196.6	1173.0
12.5°	1490.6	1444.4	1423.8	1399.1	1354.9	1313.8	1274.7	1239.8	1203.8	1171.9	1138.0
15°	1534.8	1477.3	1453.6	1421.7	1361.1	1307.6	1257.3	1219.2	1182.2	1134.9	1099.0
17.5°	1560.5	1493.7	1459.8	1432.0	1366.2	1301.5	1242.9	1195.6	1152.4	1105.1	1067.1
20°	1586.2	1510.2	1472.1	1433.1	1354.9	1286.1	1224.4	1167.8	1122.6	1071.2	1032.1
22.5°	1594.5	1506.0	1466.0	1430.0	1347.7	1270.6	1199.7	1142.1	1089.7	1038.3	994.1
25°	1594.5	1505.0	1457.7	1411.5	1325.1	1246.0	1175.0	1112.3	1053.7	1002.3	958.1
27.5°	1578.0	1484.5	1435.1	1393.0	1303.5	1218.2	1145.2	1076.3	1019.8	968.4	918.0
30°	1557.4	1454.6	1405.3	1354.9	1268.6	1187.4	1108.2	1044.5	984.8	926.2	881.0
32.5°	1531.7	1422.8	1368.3	1316.9	1225.4	1141.1	1068.1	1005.4	948.9	888.2	837.8
35°	1494.7	1375.5	1314.8	1269.6	1181.2	1093.8	1023.9	962.2	907.7	845.0	790.5
37.5°	1447.5	1332.3	1270.6	1215.1	1123.6	1043.4	977.6	918.0	864.6	807.0	746.3
40°	1391.9	1271.7	1218.2	1159.6	1063.0	986.9	925.2	871.8	818.3	763.8	705.2
42.5°	1329.2	1210.0	1150.4	1093.8	1001.3	926.2	868.7	820.4	771.0	720.6	657.9
45°	1254.2	1142.1	1084.6	1031.1	941.7	864.6	812.1	765.9	723.7	672.3	616.8
47.5°	1169.9	1072.2	1013.6	956.1	868.7	801.9	750.5	711.4	675.4	624.0	573.6
50°	1087.6	991.0	943.7	885.1	804.9	742.2	689.8	656.9	629.1	578.8	533.5
52.5°	983.8	910.8	865.6	815.2	738.1	674.4	633.3	604.5	571.6	532.5	492.4
55°	892.3	824.5	788.5	741.2	665.1	608.6	573.6	546.9	521.2	486.3	454.4
57.5°	788.5	746.3	710.4	669.2	594.2	545.9	515.0	492.4	468.8	440.0	414.3
60°	679.5	660.0	625.0	592.1	528.4	486.3	460.6	440.0	417.4	393.7	372.1
62.5°	582.9	571.6	551.0	525.3	465.7	429.7	404.0	388.6	372.1	350.6	330.0
65°	491.4	486.3	466.7	448.2	407.1	375.2	352.6	343.4	324.9	308.4	289.9
67.5°	410.2	404.0	392.7	384.5	349.5	319.7	308.4	296.1	280.6	268.3	252.9
70°	327.9	326.9	319.7	309.4	290.9	269.3	258.0	249.8	234.4	225.1	213.8
72.5°	254.9	260.1	253.9	249.8	237.5	222.1	211.8	206.6	194.3	187.1	178.9
75°	190.2	194.3	197.4	190.2	187.1	179.9	170.7	165.5	159.3	149.1	146.0
77.5°	129.5	138.8	138.8	140.8	141.9	137.8	130.6	126.4	119.3	117.2	113.1
80°	85.3	93.5	94.6	96.6	99.7	99.7	94.6	93.5	86.4	85.3	82.2
82.5°	49.3	56.5	60.7	63.7	62.7	66.8	62.7	61.7	57.6	57.6	55.5
85°	26.7	27.8	29.8	31.9	33.9	36.0	36.0	35.0	33.9	32.9	30.8
87.5°	10.3	10.3	11.3	10.3	11.3	13.4	14.4	14.4	13.4	12.3	10.3
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: P1001117

CATALOG NUMBER: S124RDR-B795DB50-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1255.2	1253.2	1251.1	1242.9	1235.7	1223.3	1213.1	1209.0	1207.9	1209.0	1205.9
5°	1219.2	1218.2	1211.0	1196.6	1183.2	1168.9	1158.6	1148.3	1142.1	1142.1	1134.9
7.5°	1185.3	1178.1	1171.9	1153.4	1138.0	1118.5	1103.1	1093.8	1088.7	1077.4	1077.4
10°	1149.3	1139.0	1130.8	1113.3	1090.7	1071.2	1051.7	1040.4	1031.1	1022.9	1019.8
12.5°	1113.3	1105.1	1089.7	1071.2	1048.6	1023.9	1003.3	995.1	973.5	956.1	957.1
15°	1079.4	1060.9	1053.7	1027.0	1000.3	976.6	946.8	923.2	905.7	894.4	880.0
17.5°	1041.4	1022.9	1009.5	986.9	951.9	914.9	886.2	854.3	836.8	817.3	808.0
20°	999.2	983.8	973.5	937.6	895.4	851.2	819.3	799.8	780.3	765.9	757.6
22.5°	963.3	943.7	931.4	883.1	836.8	792.6	767.9	751.5	735.0	722.7	718.6
25°	917.0	905.7	875.9	833.7	777.2	747.4	725.8	704.2	694.9	686.7	677.5
27.5°	879.0	851.2	830.6	775.1	740.2	706.2	684.7	668.2	656.9	648.7	641.5
30°	831.7	806.0	777.2	730.9	699.1	667.2	647.7	634.3	622.0	616.8	610.6
32.5°	782.3	758.7	730.9	693.9	654.8	630.2	614.8	600.4	592.1	587.0	579.8
35°	738.1	708.3	689.8	654.8	623.0	595.2	580.8	568.5	559.2	557.2	556.2
37.5°	690.8	668.2	650.7	614.8	588.0	564.4	551.0	537.7	532.5	531.5	527.4
40°	649.7	630.2	613.7	579.8	551.0	529.4	519.1	510.9	505.8	505.8	504.8
42.5°	613.7	593.2	576.7	545.9	520.2	500.6	489.3	481.1	479.1	480.1	479.1
45°	573.6	556.2	539.7	507.8	486.3	471.9	459.5	455.4	452.3	453.4	454.4
47.5°	535.6	521.2	504.8	479.1	454.4	439.0	431.8	427.7	427.7	427.7	429.7
50°	501.7	485.2	470.8	444.1	421.5	409.2	403.0	397.8	398.9	399.9	400.9
52.5°	461.6	447.2	436.9	410.2	393.7	378.3	371.1	372.1	371.1	371.1	373.2
55°	426.6	412.2	402.0	377.3	360.8	350.6	344.4	341.3	342.3	340.3	344.4
57.5°	387.6	375.2	368.0	344.4	330.0	320.7	315.6	310.5	312.5	311.5	310.5
60°	353.6	339.2	327.9	311.5	299.2	287.8	284.8	279.6	281.7	279.6	278.6
62.5°	314.6	303.3	295.0	278.6	268.3	259.1	251.9	248.8	247.8	244.7	241.6
65°	275.5	269.3	261.1	244.7	234.4	227.2	223.1	220.0	219.0	210.7	201.5
67.5°	239.5	235.4	227.2	214.9	205.6	198.4	192.2	187.1	180.9	174.8	169.6
70°	205.6	199.4	194.3	183.0	174.8	167.6	161.4	155.2	152.1	146.0	143.9
72.5°	172.7	166.5	161.4	151.1	143.9	136.7	134.7	127.5	124.4	123.4	123.4
75°	138.8	133.6	130.6	121.3	115.1	110.0	106.9	104.9	102.8	100.7	97.7
77.5°	105.9	102.8	100.7	94.6	89.4	86.4	85.3	78.1	76.1	74.0	72.0
80°	77.1	76.1	74.0	68.9	66.8	59.6	59.6	57.6	56.5	56.5	56.5
82.5°	52.4	50.4	49.3	44.2	43.2	42.1	41.1	40.1	41.1	40.1	41.1
85°	27.8	26.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	24.7	25.7
87.5°	10.3	10.3	10.3	10.3	9.3	10.3	10.3	9.3	10.3	10.3	10.3
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: P1001117

CATALOG NUMBER: S124RDR-B795DB50-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1205.9	1210.0	1204.8	1207.9	1200.7	1199.7	1200.7	1200.7	1201.8	1202.8	1203.8
5°	1138.0	1137.0	1130.8	1126.7	1123.6	1126.7	1128.8	1130.8	1128.8	1130.8	1131.8
7.5°	1074.3	1071.2	1068.1	1060.9	1063.0	1060.9	1067.1	1064.0	1064.0	1069.1	1073.3
10°	1017.7	1011.6	1009.5	1001.3	995.1	994.1	1001.3	1004.4	1007.5	1009.5	1017.7
12.5°	944.7	935.5	928.3	931.4	913.9	921.1	923.2	919.0	931.4	945.8	937.6
15°	866.6	867.6	853.3	848.1	833.7	837.8	838.9	849.1	859.4	858.4	870.7
17.5°	809.1	802.9	790.5	789.5	783.4	786.4	785.4	793.6	790.5	795.7	806.0
20°	755.6	751.5	741.2	737.1	739.1	737.1	738.1	739.1	742.2	753.5	751.5
22.5°	713.4	708.3	708.3	703.2	697.0	694.9	700.1	703.2	707.3	709.3	714.5
25°	676.4	672.3	667.2	664.1	659.0	660.0	663.1	667.2	670.3	674.4	678.5
27.5°	638.4	638.4	633.3	632.2	630.2	629.1	633.3	635.3	635.3	638.4	642.5
30°	608.6	608.6	603.4	602.4	601.4	601.4	604.5	605.5	606.5	609.6	611.7
32.5°	579.8	578.8	576.7	577.7	576.7	577.7	577.7	578.8	580.8	581.9	586.0
35°	553.1	554.1	552.0	552.0	551.0	552.0	554.1	555.1	556.2	558.2	558.2
37.5°	527.4	529.4	528.4	531.5	531.5	531.5	531.5	533.5	533.5	533.5	532.5
40°	504.8	504.8	503.7	505.8	507.8	507.8	508.9	508.9	509.9	509.9	508.9
42.5°	479.1	481.1	484.2	485.2	487.3	486.3	489.3	488.3	489.3	487.3	485.2
45°	455.4	455.4	459.5	463.6	464.7	464.7	464.7	466.7	464.7	461.6	460.6
47.5°	429.7	431.8	433.8	439.0	440.0	440.0	440.0	440.0	437.9	437.9	437.9
50°	404.0	405.0	406.1	408.1	411.2	410.2	410.2	410.2	414.3	410.2	411.2
52.5°	373.2	374.2	375.2	379.3	378.3	378.3	379.3	379.3	382.4	381.4	379.3
55°	342.3	342.3	344.4	344.4	344.4	346.4	347.5	349.5	348.5	349.5	350.6
57.5°	311.5	309.4	308.4	308.4	311.5	310.5	311.5	311.5	315.6	317.7	318.7
60°	275.5	275.5	274.5	268.3	268.3	267.3	270.4	272.4	274.5	283.7	282.7
62.5°	238.5	234.4	230.3	231.3	225.1	228.2	226.2	228.2	234.4	241.6	242.6
65°	201.5	198.4	194.3	193.3	191.2	194.3	193.3	194.3	197.4	201.5	206.6
67.5°	168.6	167.6	165.5	164.5	164.5	164.5	166.5	166.5	167.6	170.7	173.7
70°	143.9	142.9	143.9	141.9	142.9	141.9	142.9	143.9	145.0	146.0	149.1
72.5°	121.3	121.3	121.3	119.3	121.3	120.3	120.3	121.3	122.3	123.4	125.4
75°	96.6	94.6	92.5	90.5	89.4	91.5	92.5	91.5	94.6	98.7	98.7
77.5°	73.0	72.0	72.0	72.0	73.0	72.0	74.0	73.0	74.0	74.0	76.1
80°	56.5	55.5	56.5	56.5	55.5	57.6	56.5	56.5	57.6	58.6	57.6
82.5°	41.1	42.1	41.1	41.1	41.1	43.2	41.1	41.1	41.1	42.1	42.1
85°	25.7	25.7	25.7	25.7	26.7	25.7	26.7	25.7	27.8	26.7	26.7
87.5°	9.3	10.3	11.3	11.3	11.3	11.3	10.3	11.3	12.3	11.3	12.3
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: P1001117

CATALOG NUMBER: S124RDR-B795DB50-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8	1275.8
2.5°	1207.9	1213.1	1211.0	1203.8	1206.9	1213.1	1219.2	1227.5	1232.6	1236.7	1238.8
5°	1137.0	1146.2	1144.2	1144.2	1148.3	1158.6	1168.9	1186.3	1192.5	1199.7	1210.0
7.5°	1074.3	1081.5	1087.6	1089.7	1095.9	1109.2	1122.6	1142.1	1157.5	1165.8	1171.9
10°	1018.8	1023.9	1033.2	1038.3	1044.5	1060.9	1080.4	1101.0	1116.4	1130.8	1139.0
12.5°	947.8	968.4	980.7	989.0	997.2	1021.9	1037.3	1059.9	1078.4	1091.8	1104.1
15°	868.7	893.3	900.5	932.4	953.0	972.5	996.2	1022.9	1040.4	1055.8	1072.2
17.5°	801.9	819.3	827.6	861.5	879.0	909.8	943.7	977.6	1004.4	1015.7	1032.1
20°	759.7	769.0	785.4	796.7	815.2	851.2	888.2	929.3	969.4	980.7	997.2
22.5°	716.5	728.9	740.2	755.6	770.0	794.7	831.7	876.9	920.1	940.6	960.2
25°	677.5	689.8	697.0	713.4	726.8	751.5	777.2	823.4	874.8	892.3	923.2
27.5°	646.6	653.8	666.2	673.4	688.8	711.4	735.0	770.0	820.4	850.2	880.0
30°	615.8	620.9	631.2	641.5	652.8	668.2	694.9	728.9	775.1	800.8	830.6
32.5°	584.9	593.2	599.3	606.5	618.9	637.4	655.9	688.8	725.8	754.6	784.4
35°	559.2	562.3	570.6	578.8	587.0	603.4	623.0	654.8	687.7	710.4	737.1
37.5°	531.5	536.6	542.8	545.9	559.2	569.5	590.1	614.8	653.8	668.2	694.9
40°	509.9	508.9	515.0	520.2	526.3	542.8	555.1	581.9	612.7	635.3	651.8
42.5°	483.2	483.2	485.2	491.4	499.6	509.9	524.3	546.9	578.8	595.2	614.8
45°	461.6	458.5	459.5	463.6	468.8	479.1	493.4	513.0	544.8	558.2	578.8
47.5°	435.9	432.8	432.8	436.9	441.0	448.2	459.5	482.1	507.8	525.3	540.7
50°	407.1	408.1	407.1	410.2	412.2	419.4	431.8	450.3	473.9	488.3	505.8
52.5°	380.4	378.3	377.3	379.3	383.5	388.6	402.0	418.4	441.0	455.4	470.8
55°	347.5	349.5	349.5	349.5	355.7	357.8	368.0	384.5	407.1	418.4	432.8
57.5°	317.7	316.6	318.7	317.7	322.8	330.0	338.2	350.6	373.2	384.5	397.8
60°	284.8	285.8	286.8	286.8	290.9	298.1	307.4	318.7	337.2	348.5	360.8
62.5°	244.7	249.8	254.9	257.0	263.2	268.3	274.5	286.8	303.3	311.5	322.8
65°	206.6	213.8	221.0	226.2	230.3	235.4	243.6	254.9	268.3	276.5	287.8
67.5°	173.7	178.9	188.1	193.3	201.5	207.7	212.8	222.1	238.5	241.6	250.8
70°	150.1	152.1	156.3	160.4	169.6	174.8	180.9	190.2	202.5	209.7	214.9
72.5°	126.4	127.5	129.5	133.6	137.8	143.9	151.1	159.3	170.7	173.7	180.9
75°	100.7	106.9	106.9	110.0	113.1	116.2	122.3	130.6	137.8	142.9	147.0
77.5°	75.0	78.1	80.2	85.3	89.4	92.5	96.6	102.8	106.9	111.0	114.1
80°	58.6	59.6	60.7	60.7	62.7	66.8	70.9	75.0	80.2	82.2	85.3
82.5°	43.2	43.2	43.2	45.2	46.3	47.3	47.3	49.3	54.5	56.5	59.6
85°	27.8	27.8	27.8	27.8	28.8	29.8	30.8	31.9	31.9	31.9	33.9
87.5°	11.3	13.4	12.3	13.4	13.4	13.4	13.4	14.4	14.4	15.4	15.4
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: P1001117

CATALOG NUMBER: S124RDR-B795DB50-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1275.8	1275.8	1275.8	1275.8
2.5°	1247.0	1253.2	1263.4	1277.8
5°	1218.2	1235.7	1252.1	1273.7
7.5°	1192.5	1213.1	1235.7	1266.5
10°	1162.7	1188.4	1217.2	1255.2
12.5°	1127.7	1163.7	1196.6	1237.7
15°	1102.0	1128.8	1170.9	1219.2
17.5°	1066.1	1102.0	1144.2	1198.7
20°	1032.1	1070.2	1117.5	1174.0
22.5°	996.2	1039.3	1086.6	1147.3
25°	959.1	1005.4	1052.7	1117.5
27.5°	925.2	967.4	1020.8	1086.6
30°	884.1	932.4	983.8	1052.7
32.5°	844.0	894.4	946.8	1015.7
35°	800.8	851.2	908.8	974.6
37.5°	758.7	814.2	866.6	930.4
40°	712.4	770.0	824.5	889.2
42.5°	667.2	726.8	781.3	836.8
45°	625.0	683.6	733.0	785.4
47.5°	584.9	637.4	687.7	735.0
50°	545.9	590.1	636.3	675.4
52.5°	504.8	546.9	583.9	618.9
55°	467.7	500.6	533.5	565.4
57.5°	423.5	456.4	485.2	509.9
60°	386.5	407.1	434.9	460.6
62.5°	344.4	368.0	389.6	406.1
65°	303.3	323.8	340.3	354.7
67.5°	268.3	280.6	293.0	308.4
70°	226.2	236.4	250.8	262.1
72.5°	190.2	198.4	205.6	219.0
75°	154.2	161.4	165.5	177.8
77.5°	119.3	126.4	129.5	136.7
80°	91.5	92.5	96.6	102.8
82.5°	62.7	64.8	65.8	70.9
85°	36.0	41.1	40.1	42.1
87.5°	15.4	16.4	18.5	20.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)