

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: P998539

Luminaire Tested: S124DR-B795DB27-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P998539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DR-B795DB27-4F0-XX-W2A-A
Description: Define 4 Direct Recessed with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

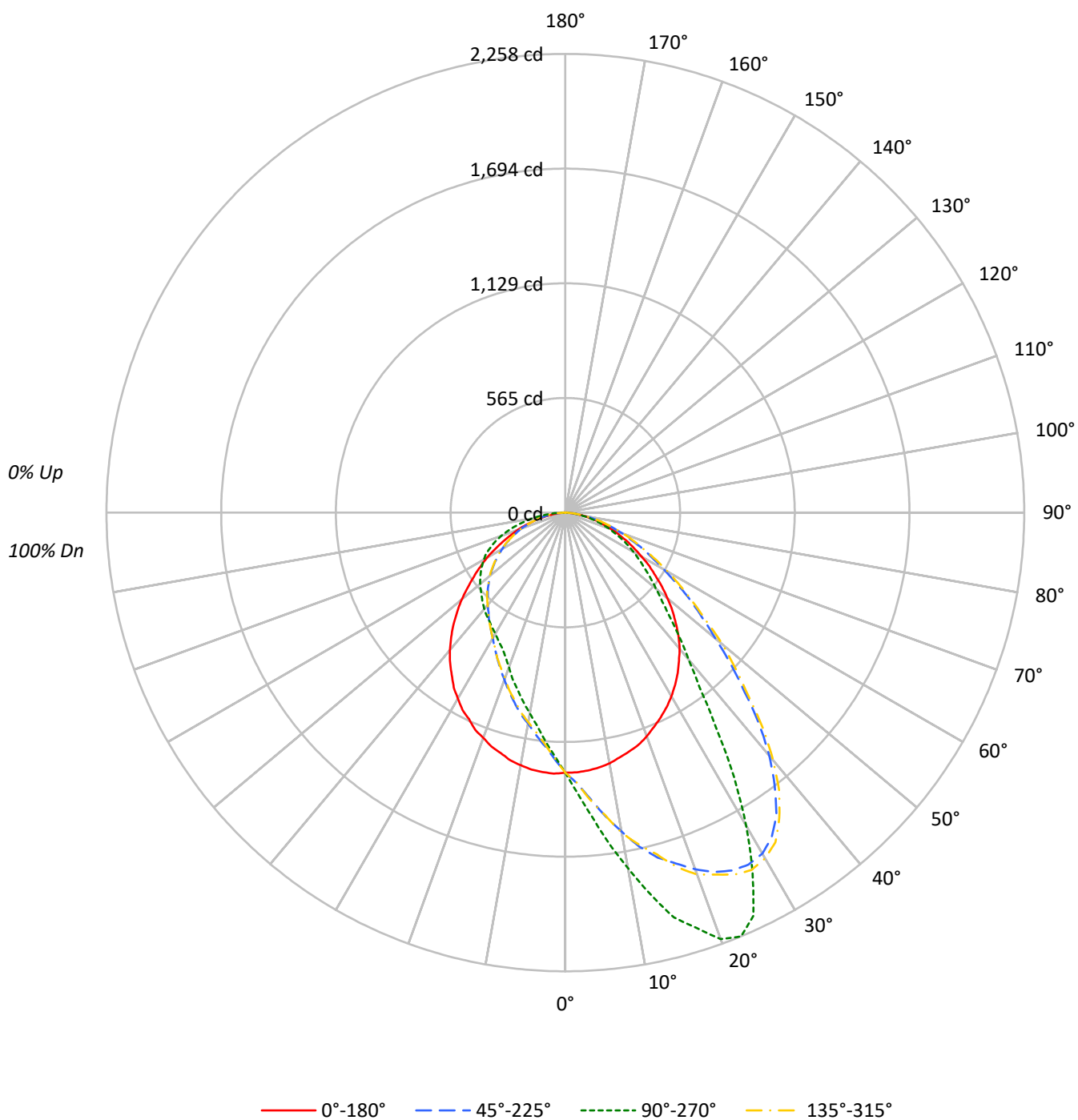
Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	50		60	54	49		58
6	72	59	51	44	70	58	50	44	56	49	44		55	48	43		53
7	67	54	45	39	65	53	45	39	52	44	39		50	44	39		49
8	62	49	41	35	61	49	41	35	47	40	35		46	40	35		45
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10434	10434	10434	10434
5°	10431	12288	10492	9233
10°	10376	14712	10456	8313
15°	10275	17408	10346	7634
20°	10166	19385	10240	7029
25°	9996	19697	10092	6610
30°	9833	16760	9953	6478
35°	9593	12886	9699	6480
40°	9310	10043	9401	6602
45°	8864	8375	8974	6712
50°	8325	7371	8446	6939
55°	7687	6753	7808	7219
60°	7072	6328	7279	7556
65°	6504	5891	6566	7834
70°	5839	5384	5965	8013
75°	5211	4811	5177	7918
80°	4283	4034	4231	7669
85°	3172	2975	2975	7345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 16114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.5
10°-20°	384.4	10.9
20°-30°	610.7	17.3
30°-40°	678.5	19.2
40°-50°	617.1	17.5
50°-60°	504.3	14.3
60°-70°	359.9	10.2
70°-80°	198.1	5.6
80°-90°	53.5	1.5
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°	1119.6	31.7
0°-40°	1798.1	50.9
0°-60°	2919.5	82.7
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1280	1280	1280	1280	1280	
5°	1274	1501	1282	1128	1274	121
15°	1217	2062	1226	904	1217	343
25°	1111	2189	1122	735	1111	512
35°	964	1294	974	651	964	602
45°	769	726	778	582	769	593
55°	541	475	549	508	541	486
65°	337	305	340	406	337	333
75°	165	153	164	251	165	174
85°	34	32	32	78	34	42
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°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1279.6	1292.3	1297.6	1301.9	1315.7	1319.9	1321.0	1327.3	1332.6	1333.7	1333.7
5°	1274.3	1294.5	1310.4	1325.2	1347.5	1357.0	1368.7	1381.4	1398.4	1409.0	1414.3
7.5°	1265.8	1295.5	1319.9	1345.3	1376.1	1395.2	1405.8	1439.7	1463.0	1482.1	1505.4
10°	1253.1	1291.3	1326.3	1363.4	1406.8	1430.2	1453.5	1494.8	1527.7	1564.8	1594.5
12.5°	1234.0	1283.9	1326.3	1378.2	1432.3	1459.8	1487.4	1559.5	1597.7	1630.5	1683.5
15°	1217.1	1266.9	1327.3	1380.3	1447.1	1488.5	1528.8	1575.4	1635.8	1706.9	1757.7
17.5°	1198.0	1260.5	1316.7	1390.9	1465.1	1504.4	1537.2	1609.3	1694.1	1764.1	1810.8
20°	1171.5	1235.1	1309.3	1387.7	1475.7	1506.5	1550.0	1646.4	1722.8	1791.7	1868.0
22.5°	1140.7	1214.9	1293.4	1368.7	1459.8	1524.5	1572.2	1657.0	1749.3	1828.8	1914.6
25°	1111.0	1191.6	1260.5	1363.4	1459.8	1503.3	1557.4	1658.1	1758.8	1855.3	1943.3
27.5°	1079.2	1154.5	1247.8	1329.4	1438.6	1486.3	1544.7	1654.9	1762.0	1858.5	1952.8
30°	1044.3	1124.8	1202.2	1298.7	1404.7	1466.2	1520.3	1640.1	1749.3	1850.0	1938.0
32.5°	1005.0	1081.4	1164.1	1255.2	1366.5	1429.1	1496.9	1619.9	1736.5	1823.5	1891.3
35°	963.7	1041.1	1113.2	1206.5	1321.0	1383.5	1449.2	1584.9	1700.5	1771.5	1810.8
37.5°	918.1	991.2	1062.3	1154.5	1269.0	1335.8	1402.6	1534.1	1643.2	1702.6	1692.0
40°	874.6	940.4	1006.1	1093.0	1212.8	1283.9	1342.2	1474.7	1570.1	1595.5	1560.6
42.5°	824.8	881.0	944.6	1033.7	1150.3	1217.1	1290.2	1411.1	1482.1	1471.5	1412.1
45°	768.6	818.4	882.1	965.8	1084.5	1153.5	1214.9	1329.4	1381.4	1354.9	1246.7
47.5°	714.5	763.3	815.3	899.0	1014.6	1072.9	1135.4	1238.3	1268.0	1211.8	1103.6
50°	656.2	696.5	750.6	830.1	938.2	999.7	1051.7	1134.4	1145.0	1076.1	963.7
52.5°	600.1	634.0	685.9	764.4	865.1	913.9	964.7	1037.9	1029.4	958.4	850.2
55°	540.7	572.5	620.2	692.3	781.3	828.0	871.5	936.1	918.1	844.9	750.6
57.5°	490.9	513.1	559.8	626.6	699.7	750.6	787.7	838.6	811.0	737.9	649.9
60°	433.6	461.2	500.4	554.5	626.6	660.5	693.3	727.3	708.2	638.2	559.8
62.5°	381.7	402.9	436.8	488.7	544.9	575.7	610.7	631.9	612.8	548.1	482.4
65°	337.1	354.1	380.6	423.0	477.1	502.5	522.7	542.8	526.9	466.5	418.8
67.5°	288.4	303.2	325.5	359.4	405.0	423.0	442.1	455.9	437.8	397.6	350.9
70°	244.9	255.5	276.7	302.1	334.0	350.9	366.8	380.6	364.7	330.8	295.8
72.5°	200.4	208.9	227.9	246.0	274.6	286.2	297.9	308.5	303.2	271.4	242.8
75°	165.4	168.6	181.3	196.1	214.2	226.9	235.4	241.7	237.5	212.0	194.0
77.5°	125.1	129.3	138.9	150.5	166.4	173.9	179.2	185.5	180.2	160.1	147.4
80°	91.2	92.2	97.5	108.1	118.7	119.8	125.1	133.6	130.4	116.6	107.1
82.5°	58.3	61.5	63.6	70.0	77.4	79.5	82.7	84.8	83.8	75.3	72.1
85°	33.9	33.9	36.0	40.3	42.4	45.6	46.6	47.7	49.8	44.5	41.3
87.5°	14.8	15.9	15.9	17.0	19.1	19.1	20.1	21.2	22.3	21.2	18.0
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°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1336.9	1355.9	1364.4	1366.5	1378.2	1370.8	1374.0	1372.9	1381.4	1382.4	1382.4
5°	1434.4	1456.7	1464.1	1474.7	1490.6	1494.8	1491.6	1498.0	1509.7	1501.2	1513.9
7.5°	1537.2	1561.6	1578.6	1601.9	1607.2	1621.0	1629.5	1636.9	1639.0	1640.1	1642.2
10°	1632.6	1663.4	1686.7	1725.9	1734.4	1741.8	1778.9	1764.1	1783.2	1776.8	1778.9
12.5°	1710.0	1770.5	1789.6	1855.3	1861.6	1887.1	1885.0	1908.3	1912.5	1921.0	1912.5
15°	1811.8	1881.8	1912.5	1949.6	1970.8	2000.5	2005.8	2037.6	2050.3	2062.0	2050.3
17.5°	1905.1	1942.2	2020.7	2050.3	2064.1	2080.0	2120.3	2132.0	2151.1	2143.6	2164.8
20°	1951.8	2004.8	2087.5	2138.3	2159.5	2174.4	2208.3	2226.3	2233.8	2233.8	2235.9
22.5°	1993.1	2069.4	2130.9	2189.2	2208.3	2218.9	2239.1	2252.8	2256.0	2258.1	2260.3
25°	2030.2	2099.1	2148.9	2181.8	2189.2	2189.2	2200.9	2192.4	2178.6	2189.2	2195.6
27.5°	2030.2	2079.0	2101.2	2112.9	2112.9	2084.3	2067.3	2032.3	2002.6	1994.2	2013.2
30°	1996.3	2018.5	1987.8	1959.2	1936.9	1917.8	1851.0	1798.0	1787.4	1780.0	1808.6
32.5°	1917.8	1889.2	1828.8	1746.1	1713.2	1669.8	1617.8	1577.5	1553.1	1544.7	1538.3
35°	1778.9	1704.7	1626.3	1515.0	1491.6	1436.5	1365.5	1335.8	1295.5	1294.5	1308.2
37.5°	1627.3	1512.8	1428.0	1322.0	1289.2	1230.8	1164.1	1133.3	1105.7	1084.5	1110.0
40°	1450.3	1350.6	1221.3	1134.4	1087.7	1057.0	1000.8	966.9	954.1	943.5	959.4
42.5°	1284.9	1175.7	1075.0	985.9	947.8	912.8	875.7	842.8	833.3	832.2	843.9
45°	1120.6	1013.5	920.2	843.9	819.5	798.3	762.3	752.7	736.8	726.2	731.5
47.5°	989.1	878.9	801.5	743.2	722.0	703.9	680.6	664.7	650.9	646.7	653.1
50°	859.8	785.6	706.1	657.3	641.4	624.4	606.4	591.6	585.2	581.0	585.2
52.5°	755.9	676.4	622.3	583.1	567.2	554.5	541.7	535.4	526.9	529.0	533.3
55°	662.6	592.6	547.0	518.4	508.9	503.6	487.7	480.3	477.1	475.0	477.1
57.5°	574.6	523.7	489.8	465.4	452.7	449.5	436.8	436.8	433.6	430.4	431.5
60°	504.6	461.2	428.3	409.2	407.1	401.8	393.3	392.3	384.8	388.0	389.1
62.5°	433.6	398.6	376.4	364.7	357.3	355.2	349.9	348.8	345.6	346.7	344.6
65°	377.4	348.8	326.5	317.0	313.8	312.7	308.5	305.3	303.2	305.3	303.2
67.5°	321.2	302.1	285.2	275.6	271.4	270.3	267.2	265.0	266.1	262.9	265.0
70°	268.2	249.1	238.5	233.2	231.1	227.9	227.9	227.9	227.9	225.8	224.8
72.5°	225.8	206.7	199.3	196.1	194.0	192.9	189.8	190.8	189.8	188.7	192.9
75°	179.2	167.5	160.1	156.9	159.0	155.8	152.7	154.8	151.6	152.7	156.9
77.5°	135.7	130.4	126.2	124.0	121.9	119.8	119.8	117.7	117.7	117.7	117.7
80°	98.6	97.5	90.1	89.1	89.1	86.9	86.9	86.9	86.9	85.9	86.9
82.5°	65.7	64.7	62.5	61.5	59.4	60.4	60.4	58.3	58.3	57.2	58.3
85°	38.2	38.2	36.0	35.0	33.9	35.0	32.9	31.8	32.9	31.8	32.9
87.5°	18.0	15.9	17.0	15.9	13.8	14.8	12.7	13.8	12.7	11.7	13.8
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°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1380.3	1377.1	1372.9	1372.9	1367.6	1367.6	1359.1	1344.3	1331.6	1327.3	1329.4
5°	1498.0	1499.1	1492.7	1487.4	1477.9	1470.4	1456.7	1430.2	1421.7	1404.7	1393.1
7.5°	1632.6	1628.4	1616.7	1608.3	1606.1	1589.2	1559.5	1527.7	1502.2	1485.3	1460.9
10°	1784.2	1767.3	1750.3	1745.0	1732.3	1703.7	1669.8	1634.8	1599.8	1562.7	1521.3
12.5°	1911.5	1878.6	1877.5	1864.8	1840.4	1824.5	1784.2	1734.4	1674.0	1632.6	1586.0
15°	2048.2	2017.5	1992.0	1968.7	1957.1	1910.4	1876.5	1813.9	1741.8	1697.3	1665.5
17.5°	2145.8	2132.0	2088.5	2077.9	2062.0	2007.9	1953.9	1892.4	1829.8	1767.3	1681.4
20°	2224.2	2215.7	2187.1	2172.3	2146.8	2104.4	2038.7	1967.7	1895.6	1806.5	1725.9
22.5°	2258.1	2247.5	2224.2	2211.5	2195.6	2159.5	2103.4	2022.8	1928.4	1848.9	1763.0
25°	2191.4	2210.4	2204.1	2198.8	2192.4	2171.2	2128.8	2057.8	1965.5	1875.4	1768.3
27.5°	2040.8	2073.7	2105.5	2109.7	2120.3	2128.8	2111.8	2061.0	1983.6	1888.1	1770.5
30°	1838.3	1853.2	1917.8	1936.9	1951.8	2005.8	2037.6	2024.9	1965.5	1879.7	1771.5
32.5°	1578.6	1617.8	1683.5	1729.1	1769.4	1829.8	1912.5	1945.4	1924.2	1854.2	1747.1
35°	1332.6	1379.3	1455.6	1513.9	1554.2	1640.1	1737.6	1808.6	1835.1	1800.2	1704.7
37.5°	1131.2	1187.4	1255.2	1277.5	1324.1	1430.2	1564.8	1663.4	1728.1	1731.2	1657.0
40°	979.6	1008.2	1062.3	1096.2	1141.8	1230.8	1362.3	1492.7	1590.2	1623.1	1583.9
42.5°	851.3	873.6	913.9	955.2	996.6	1064.4	1185.3	1307.2	1438.6	1504.4	1503.3
45°	749.5	772.9	800.4	834.3	863.0	936.1	1031.5	1156.6	1270.1	1371.8	1397.3
47.5°	660.5	680.6	714.5	729.4	748.5	817.4	900.1	1016.7	1134.4	1251.0	1280.7
50°	594.7	611.7	635.0	644.6	665.8	716.7	784.5	878.9	1009.3	1116.3	1171.5
52.5°	535.4	548.1	566.1	573.5	588.4	626.6	688.0	762.3	870.4	980.6	1058.0
55°	484.5	493.0	505.7	514.2	524.8	558.7	604.3	671.1	764.4	859.8	935.1
57.5°	436.8	443.1	455.9	460.1	468.6	495.1	526.9	583.1	669.0	753.8	826.9
60°	392.3	396.5	403.9	413.5	419.8	437.8	467.5	514.2	583.1	660.5	719.8
62.5°	349.9	356.2	358.3	362.6	367.9	384.8	408.2	442.1	502.5	566.1	628.7
65°	306.4	311.7	315.9	317.0	322.3	335.0	356.2	385.9	425.1	480.3	538.6
67.5°	266.1	269.3	271.4	275.6	280.9	287.3	304.3	326.5	362.6	407.1	453.7
70°	229.0	229.0	232.2	233.2	239.6	247.0	254.4	275.6	307.4	343.5	375.3
72.5°	188.7	194.0	192.9	198.2	197.2	202.5	212.0	225.8	249.1	277.8	308.5
75°	153.7	156.9	156.9	156.9	159.0	163.3	168.6	181.3	199.3	222.6	240.7
77.5°	119.8	121.9	121.9	121.9	123.0	127.2	132.5	141.0	153.7	167.5	178.1
80°	85.9	88.0	88.0	90.1	90.1	91.2	96.5	100.7	107.1	117.7	128.3
82.5°	58.3	59.4	61.5	61.5	60.4	62.5	63.6	67.9	74.2	76.3	83.8
85°	31.8	32.9	33.9	33.9	35.0	37.1	36.0	40.3	40.3	44.5	46.6
87.5°	12.7	14.8	14.8	13.8	14.8	14.8	14.8	17.0	18.0	19.1	18.0
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: P998539

CATALOG NUMBER: S124DR-B795DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1319.9	1315.7	1312.5	1312.5	1302.9	1293.4	1288.1	1286.0	1283.9	1275.4	1263.7
5°	1374.0	1360.2	1350.6	1341.1	1325.2	1308.2	1291.3	1281.7	1268.0	1248.9	1235.1
7.5°	1434.4	1401.5	1390.9	1379.3	1347.5	1318.8	1295.5	1275.4	1253.1	1228.7	1204.3
10°	1485.3	1450.3	1427.0	1406.8	1365.5	1327.3	1292.3	1262.7	1234.0	1202.2	1172.5
12.5°	1534.1	1484.2	1459.8	1430.2	1386.7	1331.6	1286.0	1248.9	1206.5	1173.6	1137.6
15°	1601.9	1518.1	1477.9	1458.8	1400.5	1335.8	1280.7	1225.5	1190.6	1140.7	1108.9
17.5°	1612.5	1544.7	1518.1	1469.4	1399.4	1326.3	1262.7	1207.5	1154.5	1110.0	1068.6
20°	1649.6	1560.6	1518.1	1487.4	1395.2	1321.0	1251.0	1180.0	1129.1	1081.4	1034.7
22.5°	1672.9	1572.2	1527.7	1478.9	1390.9	1301.9	1219.2	1157.7	1095.1	1046.4	1009.3
25°	1666.6	1565.9	1516.0	1470.4	1363.4	1274.3	1200.1	1121.6	1063.3	1010.3	961.6
27.5°	1663.4	1550.0	1496.9	1446.1	1345.3	1252.0	1158.8	1095.1	1030.5	969.0	932.9
30°	1654.9	1529.8	1468.3	1413.2	1308.2	1210.7	1131.2	1057.0	992.3	936.1	888.4
32.5°	1626.3	1495.9	1436.5	1377.1	1268.0	1170.4	1089.8	1020.9	956.3	898.0	852.4
35°	1588.1	1455.6	1390.9	1328.4	1219.2	1120.6	1046.4	974.3	913.9	857.7	814.2
37.5°	1550.0	1409.0	1348.5	1276.4	1175.7	1072.9	996.6	931.9	875.7	817.4	769.7
40°	1494.8	1353.8	1287.0	1225.5	1107.9	1011.4	941.4	883.1	828.0	772.9	732.6
42.5°	1419.6	1293.4	1224.5	1156.6	1046.4	951.0	883.1	831.2	779.2	733.6	689.1
45°	1343.2	1220.2	1158.8	1098.3	978.5	888.4	825.9	778.2	734.7	684.9	648.8
47.5°	1251.0	1147.1	1085.6	1026.2	912.8	822.7	765.4	720.9	680.6	639.3	605.4
50°	1156.6	1066.5	1010.3	948.8	840.7	759.1	702.9	665.8	632.9	593.7	566.1
52.5°	1054.9	976.4	928.7	869.3	773.9	698.6	641.4	604.3	576.7	548.1	523.7
55°	946.7	889.5	838.6	790.9	700.8	632.9	582.0	549.2	530.1	503.6	482.4
57.5°	849.2	794.1	763.3	709.2	630.8	564.0	523.7	496.2	473.9	458.0	441.0
60°	747.4	702.9	669.0	629.7	560.8	504.6	462.2	446.3	423.0	411.3	403.9
62.5°	649.9	618.1	586.3	556.6	495.1	442.1	410.3	390.1	376.4	364.7	358.3
65°	557.6	528.0	505.7	479.2	428.3	385.9	356.2	340.3	326.5	323.3	315.9
67.5°	467.5	454.8	430.4	409.2	365.8	332.9	310.6	290.5	283.1	279.9	273.5
70°	391.2	376.4	357.3	339.3	306.4	277.8	257.6	250.2	239.6	238.5	231.1
72.5°	322.3	304.3	290.5	276.7	252.3	226.9	216.3	205.7	200.4	196.1	192.9
75°	255.5	242.8	233.2	221.6	200.4	183.4	168.6	164.3	161.1	160.1	158.0
77.5°	190.8	182.3	178.1	166.4	151.6	136.8	130.4	124.0	124.0	121.9	123.0
80°	135.7	130.4	125.1	118.7	106.0	99.7	94.4	90.1	88.0	86.9	88.0
82.5°	85.9	82.7	81.6	77.4	68.9	65.7	61.5	58.3	58.3	58.3	58.3
85°	47.7	47.7	47.7	41.3	38.2	35.0	32.9	31.8	31.8	31.8	32.9
87.5°	20.1	20.1	17.0	17.0	15.9	13.8	12.7	12.7	13.8	13.8	14.8
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: P998539

CATALOG NUMBER: S124DR-B795DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1260.5	1256.3	1258.4	1247.8	1238.3	1224.5	1212.8	1210.7	1208.6	1214.9	1210.7
5°	1224.5	1219.2	1213.9	1201.2	1182.1	1170.4	1153.5	1152.4	1146.0	1136.5	1138.6
7.5°	1185.3	1182.1	1174.7	1154.5	1137.6	1117.4	1103.6	1092.0	1086.7	1078.2	1075.0
10°	1153.5	1141.8	1135.4	1113.2	1093.0	1071.8	1053.8	1045.3	1035.8	1028.4	1023.1
12.5°	1110.0	1106.8	1088.8	1070.8	1053.8	1029.4	1015.6	991.2	978.5	984.9	982.8
15°	1081.4	1066.5	1062.3	1036.8	1008.2	992.3	966.9	951.0	945.7	936.1	924.5
17.5°	1043.2	1033.7	1018.8	995.5	962.6	940.4	922.3	907.5	901.1	888.4	878.9
20°	1007.2	991.2	979.6	958.4	926.6	898.0	875.7	866.2	850.2	839.6	834.3
22.5°	974.3	962.6	945.7	913.9	886.3	858.7	832.2	818.4	803.6	797.2	788.8
25°	934.0	914.9	903.3	868.3	838.6	816.3	791.9	773.9	765.4	754.8	752.7
27.5°	894.8	876.8	863.0	832.2	796.2	767.6	752.7	740.0	725.1	725.1	719.8
30°	855.5	842.8	821.6	791.9	758.0	730.5	713.5	701.8	696.5	692.3	691.2
32.5°	816.3	799.4	786.6	746.4	720.9	695.5	682.7	673.2	666.8	665.8	666.8
35°	776.0	757.0	744.2	708.2	682.7	659.4	654.1	645.6	642.5	641.4	646.7
37.5°	733.6	718.8	702.9	673.2	644.6	630.8	620.2	617.0	616.0	622.3	624.4
40°	694.4	681.7	666.8	635.0	613.8	599.0	593.7	590.5	594.7	601.1	604.3
42.5°	657.3	639.3	627.6	599.0	579.9	571.4	565.1	565.1	569.3	576.7	582.0
45°	618.1	604.3	592.6	567.2	550.2	540.7	539.6	540.7	546.0	551.3	557.6
47.5°	579.9	566.1	553.4	532.2	517.4	512.1	511.0	512.1	520.5	528.0	535.4
50°	544.9	530.1	518.4	498.3	486.6	480.3	481.3	486.6	493.0	503.6	513.1
52.5°	503.6	493.0	482.4	464.4	453.7	449.5	452.7	456.9	468.6	476.0	487.7
55°	463.3	453.7	445.3	431.5	423.0	419.8	421.9	428.3	437.8	450.6	464.4
57.5°	426.2	415.6	407.1	397.6	388.0	389.1	390.1	398.6	410.3	421.9	437.8
60°	384.8	378.5	371.1	359.4	355.2	355.2	358.3	367.9	378.5	397.6	411.3
62.5°	347.7	339.3	334.0	326.5	320.2	321.2	328.6	337.1	349.9	365.8	383.8
65°	309.6	300.0	295.8	289.4	287.3	288.4	293.7	306.4	320.2	334.0	350.9
67.5°	267.2	264.0	259.7	253.4	255.5	256.6	261.9	272.5	287.3	301.1	320.2
70°	231.1	224.8	223.7	218.4	218.4	221.6	232.2	239.6	253.4	268.2	288.4
72.5°	192.9	187.6	187.6	183.4	186.6	189.8	195.1	205.7	218.4	233.2	250.2
75°	153.7	151.6	153.7	151.6	151.6	156.9	163.3	171.7	185.5	201.4	215.2
77.5°	118.7	118.7	117.7	120.9	120.9	124.0	132.5	141.0	151.6	164.3	179.2
80°	86.9	86.9	86.9	90.1	93.3	93.3	98.6	109.2	118.7	127.2	141.0
82.5°	59.4	59.4	59.4	61.5	65.7	65.7	72.1	78.5	89.1	96.5	102.8
85°	36.0	36.0	35.0	37.1	38.2	41.3	46.6	50.9	56.2	62.5	68.9
87.5°	15.9	15.9	17.0	18.0	19.1	21.2	23.3	25.4	30.7	32.9	36.0
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: P998539

CATALOG NUMBER: S124DR-B795DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1207.5	1206.5	1201.2	1203.3	1196.9	1199.0	1202.2	1203.3	1207.5	1204.3	1203.3
5°	1133.3	1131.2	1128.0	1124.8	1123.8	1128.0	1120.6	1122.7	1124.8	1128.0	1132.3
7.5°	1072.9	1071.8	1068.6	1063.3	1061.2	1059.1	1060.2	1067.6	1066.5	1065.5	1072.9
10°	1017.8	1018.8	1012.5	1011.4	1005.0	1004.0	1005.0	1007.2	1010.3	1014.6	1015.6
12.5°	960.5	974.3	962.6	958.4	948.8	954.1	956.3	946.7	952.0	955.2	971.1
15°	924.5	918.1	910.7	910.7	906.4	904.3	899.0	906.4	910.7	917.0	914.9
17.5°	874.6	864.0	859.8	855.5	856.6	860.8	849.2	866.2	866.2	869.3	864.0
20°	831.2	822.7	817.4	815.3	812.1	810.0	808.9	813.1	819.5	821.6	826.9
22.5°	785.6	785.6	777.1	773.9	771.8	768.6	773.9	770.7	775.0	779.2	787.7
25°	747.4	747.4	744.2	740.0	736.8	734.7	737.9	736.8	740.0	745.3	747.4
27.5°	716.7	713.5	712.4	711.4	710.3	711.4	710.3	713.5	716.7	717.7	715.6
30°	690.2	687.0	688.0	688.0	689.1	688.0	687.0	690.2	691.2	689.1	690.2
32.5°	665.8	665.8	667.9	669.0	669.0	670.0	671.1	669.0	670.0	666.8	667.9
35°	645.6	647.8	649.9	650.9	652.0	650.9	653.1	652.0	649.9	647.8	646.7
37.5°	625.5	627.6	631.9	632.9	636.1	637.2	635.0	635.0	634.0	629.7	627.6
40°	604.3	606.4	611.7	614.9	617.0	620.2	618.1	618.1	613.8	609.6	606.4
42.5°	584.1	588.4	593.7	596.9	601.1	601.1	601.1	599.0	593.7	589.4	586.3
45°	564.0	565.1	572.5	577.8	582.0	582.0	582.0	578.8	575.7	567.2	562.9
47.5°	541.7	544.9	553.4	558.7	562.9	564.0	564.0	560.8	554.5	547.0	541.7
50°	517.4	522.7	532.2	539.6	544.9	547.0	543.9	541.7	534.3	525.8	519.5
52.5°	494.0	500.4	512.1	518.4	525.8	526.9	525.8	522.7	514.2	502.5	497.2
55°	470.7	476.0	488.7	499.3	505.7	507.8	505.7	500.4	489.8	478.1	472.8
57.5°	445.3	452.7	466.5	477.1	484.5	485.6	483.4	478.1	469.7	454.8	447.4
60°	418.8	428.3	442.1	452.7	462.2	463.3	461.2	453.7	443.1	428.3	421.9
62.5°	392.3	399.7	415.6	427.2	434.7	440.0	435.7	428.3	417.7	402.9	393.3
65°	361.5	372.1	385.9	396.5	405.0	406.0	403.9	397.6	385.9	370.0	362.6
67.5°	331.8	339.3	353.0	366.8	370.0	373.2	370.0	363.6	354.1	340.3	329.7
70°	295.8	302.1	319.1	328.6	332.9	336.1	334.0	327.6	319.1	306.4	297.9
72.5°	259.7	265.0	280.9	288.4	296.8	295.8	294.7	290.5	278.8	270.3	265.0
75°	221.6	227.9	238.5	248.1	251.3	251.3	251.3	248.1	240.7	226.9	221.6
77.5°	186.6	189.8	198.2	203.6	206.7	207.8	206.7	201.4	197.2	187.6	184.5
80°	143.1	151.6	158.0	159.0	163.3	163.3	163.3	161.1	156.9	147.4	146.3
82.5°	108.1	110.3	116.6	119.8	121.9	120.9	120.9	116.6	115.6	110.3	108.1
85°	73.2	76.3	75.3	79.5	80.6	78.5	78.5	80.6	75.3	76.3	73.2
87.5°	40.3	40.3	42.4	41.3	45.6	45.6	43.5	44.5	42.4	41.3	40.3
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: P998539

CATALOG NUMBER: S124DR-B795DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
2.5°	1203.3	1209.6	1203.3	1207.5	1209.6	1214.9	1217.1	1226.6	1229.8	1237.2	1237.2
5°	1131.2	1134.4	1135.4	1139.7	1143.9	1154.5	1161.9	1175.7	1191.6	1193.7	1203.3
7.5°	1072.9	1078.2	1086.7	1083.5	1090.9	1106.8	1116.3	1133.3	1149.2	1157.7	1169.4
10°	1020.9	1027.3	1030.5	1033.7	1047.4	1061.2	1076.1	1087.7	1108.9	1121.6	1131.2
12.5°	978.5	973.2	979.6	991.2	1007.2	1015.6	1035.8	1053.8	1069.7	1083.5	1092.0
15°	923.4	927.6	934.0	954.1	958.4	979.6	987.0	1007.2	1036.8	1049.6	1060.2
17.5°	870.4	884.2	896.9	904.3	917.0	934.0	955.2	977.5	996.6	1011.4	1024.1
20°	828.0	841.8	849.2	854.5	867.2	890.5	910.7	938.2	962.6	974.3	991.2
22.5°	794.1	794.1	804.7	820.6	828.0	850.2	867.2	896.9	923.4	938.2	954.1
25°	751.7	758.0	766.5	780.3	790.9	808.9	833.3	858.7	887.4	900.1	920.2
27.5°	716.7	724.1	735.8	738.9	749.5	765.4	790.9	818.4	848.1	861.9	878.9
30°	690.2	694.4	698.6	705.0	714.5	728.3	749.5	773.9	810.0	820.6	841.8
32.5°	666.8	669.0	671.1	676.4	681.7	695.5	712.4	738.9	768.6	784.5	803.6
35°	645.6	643.5	644.6	647.8	653.1	658.4	676.4	698.6	726.2	745.3	760.1
37.5°	625.5	621.3	620.2	620.2	622.3	628.7	642.5	661.5	691.2	707.1	722.0
40°	603.2	599.0	596.9	595.8	594.7	599.0	609.6	628.7	652.0	666.8	683.8
42.5°	582.0	577.8	572.5	571.4	569.3	571.4	578.8	596.9	617.0	631.9	645.6
45°	560.8	553.4	547.0	542.8	543.9	540.7	546.0	559.8	583.1	592.6	606.4
47.5°	537.5	529.0	520.5	516.3	512.1	514.2	516.3	528.0	548.1	557.6	571.4
50°	515.2	503.6	494.0	488.7	485.6	483.4	485.6	497.2	512.1	520.5	532.2
52.5°	489.8	478.1	468.6	460.1	455.9	452.7	453.7	464.4	478.1	486.6	498.3
55°	466.5	451.6	438.9	428.3	425.1	424.1	423.0	430.4	442.1	450.6	460.1
57.5°	440.0	425.1	411.3	398.6	392.3	391.2	391.2	393.3	408.2	414.5	419.8
60°	413.5	397.6	382.7	371.1	361.5	358.3	357.3	361.5	368.9	375.3	382.7
62.5°	383.8	367.9	349.9	339.3	329.7	321.2	324.4	325.5	336.1	339.3	345.6
65°	355.2	337.1	322.3	305.3	294.7	289.4	287.3	289.4	297.9	299.0	303.2
67.5°	322.3	305.3	287.3	275.6	266.1	256.6	254.4	254.4	258.7	261.9	267.2
70°	290.5	273.5	253.4	240.7	231.1	222.6	219.5	218.4	221.6	223.7	229.0
72.5°	253.4	236.4	221.6	207.8	196.1	189.8	186.6	184.5	187.6	189.8	190.8
75°	214.2	200.4	185.5	171.7	164.3	158.0	153.7	150.5	152.7	152.7	152.7
77.5°	177.0	163.3	151.6	142.1	132.5	125.1	121.9	118.7	119.8	119.8	121.9
80°	137.8	128.3	118.7	110.3	101.8	95.4	93.3	90.1	88.0	86.9	86.9
82.5°	101.8	94.4	85.9	78.5	74.2	67.9	65.7	61.5	61.5	60.4	60.4
85°	67.9	63.6	55.1	49.8	46.6	43.5	41.3	39.2	36.0	36.0	35.0
87.5°	36.0	33.9	31.8	25.4	25.4	22.3	21.2	20.1	17.0	18.0	18.0
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: P998539

CATALOG NUMBER: S124DR-B795DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1279.6	1279.6	1279.6	1279.6
2.5°	1244.6	1255.2	1264.8	1279.6
5°	1217.1	1231.9	1252.0	1274.3
7.5°	1185.3	1208.6	1235.1	1265.8
10°	1155.6	1182.1	1216.0	1253.1
12.5°	1124.8	1156.6	1193.7	1234.0
15°	1089.8	1121.6	1163.0	1217.1
17.5°	1058.0	1096.2	1140.7	1198.0
20°	1020.9	1057.0	1105.7	1171.5
22.5°	988.1	1029.4	1083.5	1140.7
25°	952.0	988.1	1042.1	1111.0
27.5°	916.0	960.5	1012.5	1079.2
30°	881.0	918.1	974.3	1044.3
32.5°	842.8	887.4	939.3	1005.0
35°	801.5	843.9	892.7	963.7
37.5°	764.4	805.7	855.5	918.1
40°	723.0	766.5	812.1	874.6
42.5°	682.7	722.0	767.6	824.8
45°	643.5	677.4	718.8	768.6
47.5°	603.2	631.9	670.0	714.5
50°	559.8	590.5	619.1	656.2
52.5°	519.5	546.0	569.3	600.1
55°	480.3	498.3	517.4	540.7
57.5°	438.9	452.7	466.5	490.9
60°	397.6	410.3	417.7	433.6
62.5°	357.3	362.6	372.1	381.7
65°	312.7	320.2	325.5	337.1
67.5°	272.5	275.6	280.9	288.4
70°	230.1	237.5	239.6	244.9
72.5°	194.0	197.2	199.3	200.4
75°	153.7	156.9	159.0	165.4
77.5°	120.9	119.8	124.0	125.1
80°	89.1	85.9	86.9	91.2
82.5°	58.3	59.4	58.3	58.3
85°	36.0	35.0	32.9	33.9
87.5°	15.9	15.9	14.8	14.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)