

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244539

Luminaire Tested: **LD8B30D010 ER8B30840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B30840 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3073.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

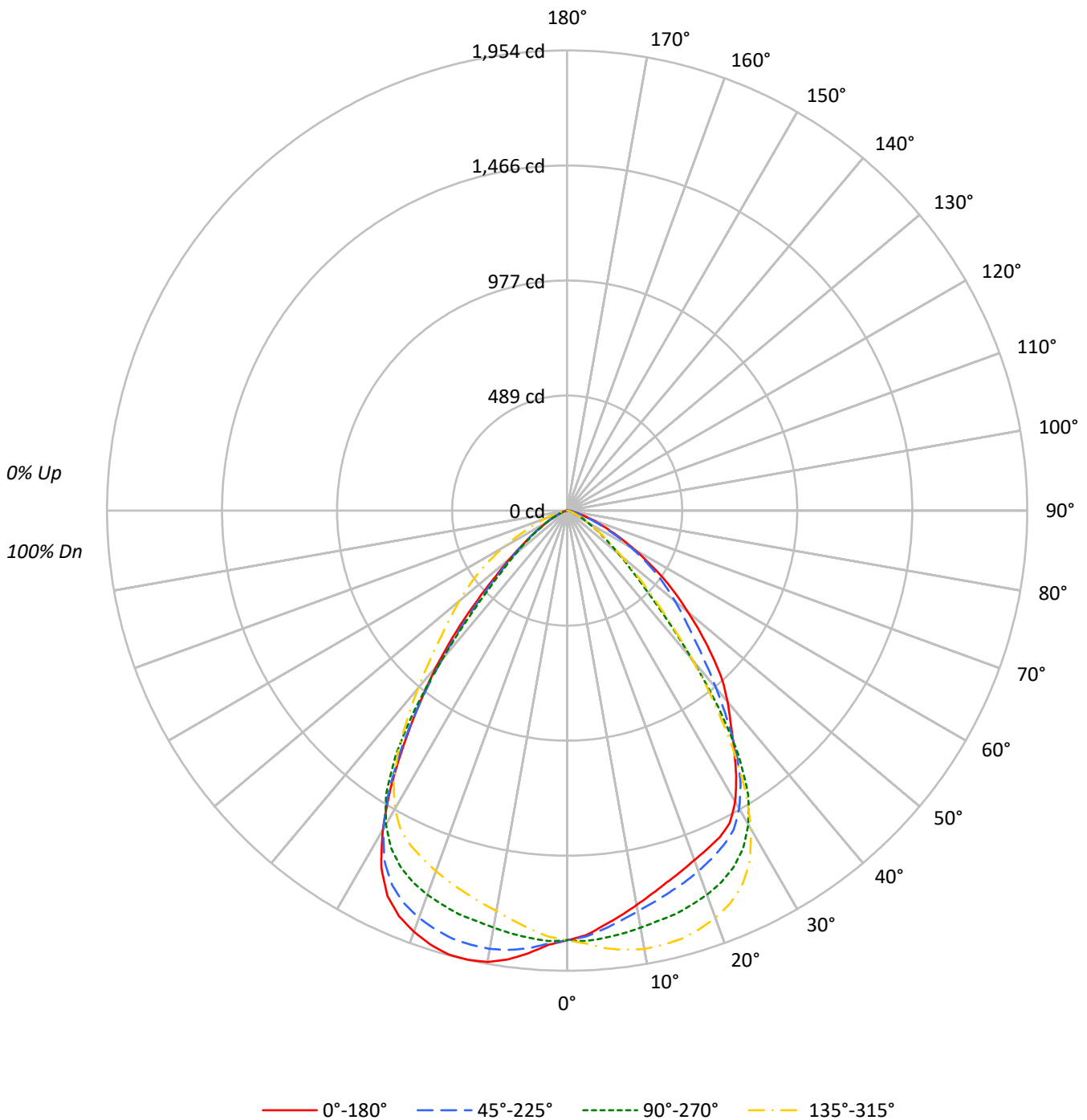
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSW0H

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	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	56255	56255	56255	56255
5°	54761	56389	58401	56389
10°	53246	56315	60946	56315
15°	52183	56649	62278	56649
20°	51829	56974	62438	56974
25°	52101	56858	61434	56858
30°	50811	54777	55760	54777
35°	46476	47786	45339	47786
40°	42669	33242	34711	33242
45°	37914	20278	23462	20278
50°	32094	13548	15044	13548
55°	26580	9242	9768	9242
60°	20272	6155	6204	6155
65°	14367	3831	3510	3831
70°	10359	2570	2326	2570
75°	6577	1275	1060	1275
80°	4582	959	781	959
85°	4104	0	318	0



TEST NUMBER: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	5.7
10°-20°	502.8	16.4
20°-30°	761.4	24.8
30°-40°	763.1	24.8
40°-50°	479.2	15.6
50°-60°	255.4	8.3
60°-70°	105.0	3.4
70°-80°	27.7	0.9
80°-90°	4.7	0.2
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°	1437.9	46.8
0°-40°	2201.0	71.6
0°-60°	2935.6	95.5
0°-90°	3073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1824	1824	1824	1824	1824	
5°	1769	1822	1887	1822	1769	167
15°	1635	1774	1951	1774	1635	462
25°	1531	1671	1806	1671	1531	702
35°	1235	1269	1204	1269	1235	773
45°	869	465	538	465	869	669
55°	494	172	182	172	494	441
65°	197	52	48	52	197	204
75°	55	11	9	11	55	63
85°	12	0	1	0	12	13
90°	0	0	0	0	0	



TEST NUMBER: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1805.6	1803.8	1803.0	1804.8	1805.6	1809.2	1808.3	1810.1	1810.1	1811.0	1812.8
5°	1769.1	1768.2	1769.1	1769.1	1772.7	1776.2	1775.4	1778.0	1779.8	1784.3	1786.0
7.5°	1735.3	1735.3	1734.4	1737.9	1739.7	1745.1	1744.2	1748.6	1751.3	1755.7	1762.0
10°	1700.5	1700.5	1701.4	1704.1	1705.0	1713.0	1713.0	1719.2	1722.8	1727.3	1735.3
12.5°	1666.7	1666.7	1672.0	1670.2	1673.8	1680.0	1682.7	1688.9	1694.3	1703.2	1711.2
15°	1634.6	1634.6	1636.4	1640.8	1643.5	1651.5	1656.0	1663.1	1669.4	1678.3	1689.9
17.5°	1607.0	1606.1	1607.0	1612.3	1617.7	1624.8	1628.4	1637.3	1643.5	1655.1	1665.8
20°	1579.4	1581.2	1581.2	1585.6	1589.2	1598.1	1601.6	1611.5	1618.6	1629.2	1641.7
22.5°	1555.3	1554.4	1554.4	1560.7	1563.4	1571.3	1574.9	1583.8	1591.8	1600.8	1612.3
25°	1531.3	1529.5	1533.1	1533.9	1535.7	1544.6	1547.3	1553.5	1561.6	1569.6	1581.2
27.5°	1495.6	1493.9	1494.8	1498.3	1501.0	1508.1	1509.9	1516.1	1522.4	1529.5	1539.3
30°	1427.0	1425.3	1424.4	1430.6	1433.3	1438.6	1441.3	1452.0	1453.8	1461.8	1468.9
32.5°	1336.2	1335.3	1337.1	1342.4	1345.1	1352.2	1355.8	1362.0	1366.5	1370.9	1378.0
35°	1234.6	1232.9	1234.6	1240.0	1240.0	1246.2	1248.9	1251.5	1250.7	1251.5	1249.8
37.5°	1140.2	1139.3	1140.2	1142.9	1140.2	1142.9	1140.2	1134.9	1125.1	1114.4	1103.7
40°	1060.0	1060.9	1055.6	1059.2	1049.3	1047.6	1037.8	1024.4	1004.8	983.4	953.2
42.5°	974.5	971.9	968.3	970.1	962.1	955.8	939.8	922.9	897.9	862.3	825.8
45°	869.4	868.5	866.7	865.9	860.5	854.3	840.9	821.3	793.7	757.2	713.5
47.5°	767.0	764.3	764.3	765.2	758.9	758.1	747.4	730.5	706.4	670.8	625.3
50°	669.0	668.1	669.9	673.4	669.0	667.2	660.1	648.5	627.1	596.8	554.1
52.5°	580.8	579.9	581.7	586.1	584.3	586.1	579.0	570.1	555.9	526.4	489.0
55°	494.4	494.4	494.4	499.7	499.7	499.7	496.2	490.8	477.5	456.1	421.4
57.5°	404.4	405.3	410.7	411.5	410.7	412.5	411.5	406.2	397.3	382.2	355.4
60°	328.7	328.7	331.4	334.1	333.1	334.1	334.1	331.4	322.5	310.0	288.6
62.5°	260.1	262.8	261.0	262.8	266.3	262.8	261.0	259.2	253.0	245.0	227.1
65°	196.9	198.7	198.7	199.5	197.7	198.7	195.1	192.4	188.9	180.0	168.4
67.5°	149.7	149.7	149.7	149.7	148.8	147.9	147.0	144.3	138.1	134.5	122.0
70°	114.9	109.6	109.6	109.6	109.6	110.5	107.8	104.2	102.4	96.2	87.3
72.5°	76.6	78.4	76.6	76.6	74.8	75.7	72.2	70.4	68.6	65.0	59.7
75°	55.2	50.8	52.5	53.5	50.8	52.5	49.0	45.4	45.4	42.8	40.1
77.5°	35.6	34.8	35.6	36.5	35.6	34.8	33.0	31.2	31.2	30.3	27.6
80°	25.8	24.9	24.9	24.9	24.1	24.9	23.2	23.2	21.4	20.5	18.7
82.5°	16.9	16.9	16.0	16.9	16.0	16.9	14.3	14.3	14.3	13.3	11.6
85°	11.6	9.8	9.8	10.7	8.9	10.7	9.8	8.9	8.0	8.0	7.1
87.5°	5.4	6.2	5.4	6.2	5.4	5.4	6.2	5.4	5.4	3.6	3.6
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1815.4	1816.3	1816.3	1819.9	1821.7	1822.5	1822.5	1829.7	1827.0	1828.8	1830.6
5°	1789.6	1794.9	1796.7	1796.7	1806.5	1810.1	1813.6	1821.7	1822.5	1827.9	1834.1
7.5°	1764.7	1770.9	1774.5	1782.5	1788.7	1794.9	1805.6	1811.0	1816.3	1823.5	1831.5
10°	1740.6	1747.7	1754.9	1761.1	1770.9	1778.9	1786.0	1798.5	1804.8	1814.6	1825.2
12.5°	1717.5	1727.3	1733.5	1744.2	1754.9	1762.0	1772.7	1784.3	1794.1	1803.8	1816.3
15°	1697.0	1708.6	1715.7	1727.3	1738.8	1748.6	1760.2	1774.5	1781.6	1793.2	1804.8
17.5°	1674.7	1687.2	1696.1	1706.8	1721.0	1731.7	1741.5	1755.7	1764.7	1777.1	1790.5
20°	1651.5	1664.0	1674.7	1685.4	1699.6	1710.3	1721.9	1736.2	1746.0	1758.4	1769.1
22.5°	1623.9	1635.5	1647.1	1659.5	1673.8	1682.7	1696.1	1708.6	1719.2	1730.8	1741.5
25°	1588.3	1602.6	1611.5	1623.0	1634.6	1644.4	1658.7	1671.1	1680.0	1690.7	1700.5
27.5°	1546.4	1557.1	1564.2	1574.0	1585.6	1594.5	1605.2	1617.7	1626.6	1636.4	1643.5
30°	1475.1	1485.0	1491.2	1498.3	1509.9	1517.9	1526.8	1538.4	1544.6	1551.8	1558.0
32.5°	1381.6	1389.6	1393.2	1398.5	1406.6	1414.6	1421.7	1431.5	1434.2	1438.6	1438.6
35°	1246.2	1248.0	1247.1	1248.9	1252.5	1256.9	1263.1	1269.4	1272.9	1272.9	1270.3
37.5°	1087.7	1077.0	1065.4	1056.5	1053.8	1052.0	1055.6	1058.2	1061.8	1063.6	1059.2
40°	922.9	898.8	873.0	849.8	833.8	826.7	824.0	825.8	825.8	832.0	832.0
42.5°	781.2	743.8	705.5	670.8	647.6	629.8	621.8	621.8	622.7	627.1	629.8
45°	663.7	616.4	571.9	533.6	501.5	478.3	467.7	465.0	464.1	465.9	472.1
47.5°	573.7	524.7	478.3	431.2	397.3	374.1	364.3	360.8	357.2	360.8	361.7
50°	503.3	452.5	403.5	356.3	320.7	300.2	287.7	282.4	281.5	281.5	283.3
52.5°	439.1	392.0	343.0	294.9	257.4	237.9	226.3	223.6	220.0	223.6	223.6
55°	378.6	331.4	283.3	237.9	206.6	186.2	175.5	171.9	170.1	172.8	172.8
57.5°	312.7	272.6	228.1	187.1	155.9	141.6	133.6	129.2	128.3	130.1	128.3
60°	256.6	222.7	184.4	147.0	122.9	107.8	101.6	99.8	98.0	99.8	99.8
62.5°	203.1	174.6	143.4	114.9	94.4	83.7	76.6	76.6	75.7	75.7	76.6
65°	150.5	128.3	106.0	81.9	65.9	57.9	52.5	52.5	51.7	52.5	51.7
67.5°	109.6	94.4	76.6	59.7	47.2	42.8	39.2	36.5	38.3	36.5	35.6
70°	80.2	67.7	55.2	45.4	36.5	32.1	29.4	28.5	26.7	26.7	26.7
72.5°	53.5	45.4	37.4	29.4	24.1	19.6	18.7	16.9	15.1	16.0	17.8
75°	35.6	30.3	26.7	21.4	16.0	16.0	10.7	10.7	8.9	10.7	8.0
77.5°	24.9	20.5	16.0	13.3	10.7	9.8	7.1	7.1	6.2	6.2	6.2
80°	17.8	15.1	11.6	9.8	7.1	7.1	6.2	5.4	4.4	4.4	5.4
82.5°	10.7	8.0	8.0	7.1	4.4	3.6	2.7	3.6	1.8	1.8	1.8
85°	6.2	5.4	4.4	2.7	1.8	1.8	0.9	0.0	0.9	0.9	0.0
87.5°	3.6	1.8	1.8	0.9	0.0	0.9	0.9	0.0	0.0	0.0	1.8
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1835.0	1834.1	1835.9	1835.9	1841.3	1840.4	1843.0	1843.0	1841.3	1842.2	1845.7
5°	1841.3	1844.0	1849.3	1853.7	1861.7	1865.3	1869.8	1874.2	1875.1	1877.8	1880.5
7.5°	1841.3	1850.2	1856.4	1864.4	1875.1	1881.4	1891.1	1899.2	1902.7	1907.2	1912.5
10°	1837.7	1846.6	1858.2	1867.1	1880.5	1890.3	1900.1	1912.5	1917.9	1925.0	1932.1
12.5°	1830.6	1840.4	1852.8	1864.4	1879.6	1888.5	1900.9	1912.5	1920.6	1930.3	1938.4
15°	1819.9	1831.5	1843.0	1854.6	1870.7	1881.4	1892.9	1906.3	1914.3	1925.0	1932.1
17.5°	1803.0	1815.4	1826.1	1836.8	1852.0	1864.4	1875.1	1887.6	1895.6	1904.5	1914.3
20°	1782.5	1794.1	1805.6	1814.6	1829.7	1840.4	1852.0	1863.5	1869.8	1871.6	1886.7
22.5°	1756.7	1764.7	1773.6	1787.8	1796.7	1806.5	1817.2	1827.9	1834.1	1844.0	1849.3
25°	1713.9	1721.9	1731.7	1737.9	1748.6	1756.7	1767.3	1778.9	1782.5	1789.6	1794.9
27.5°	1654.2	1658.7	1663.1	1668.4	1674.7	1679.1	1685.4	1690.7	1694.3	1697.8	1701.4
30°	1559.8	1559.8	1559.8	1556.2	1558.9	1561.6	1562.4	1561.6	1561.6	1560.7	1560.7
32.5°	1435.1	1427.9	1419.9	1412.8	1410.1	1406.6	1404.8	1402.1	1397.7	1395.0	1395.9
35°	1266.7	1250.7	1240.9	1232.0	1224.9	1219.5	1216.8	1214.2	1213.3	1209.7	1206.1
37.5°	1056.5	1044.9	1037.8	1032.4	1026.2	1020.8	1021.7	1022.6	1025.3	1023.5	1024.4
40°	833.8	831.1	833.8	827.5	825.8	827.5	832.0	838.3	841.8	845.4	851.6
42.5°	634.2	638.7	645.0	645.0	647.6	651.2	656.5	666.3	671.6	677.9	685.0
45°	477.5	482.8	490.8	493.5	495.3	499.7	506.0	514.0	517.5	522.9	529.1
47.5°	367.9	371.5	375.9	380.4	384.8	386.6	392.8	392.8	397.3	400.9	402.6
50°	286.8	290.4	293.9	296.6	298.4	301.1	302.9	305.5	306.4	308.2	309.1
52.5°	224.5	228.9	228.9	230.7	233.4	236.1	235.2	236.1	236.9	236.9	239.6
55°	175.5	175.5	178.2	178.2	180.0	179.0	180.0	180.0	180.0	180.0	180.8
57.5°	130.9	131.9	134.5	132.7	131.9	133.6	131.9	133.6	132.7	134.5	131.9
60°	100.6	100.6	101.6	101.6	102.4	102.4	102.4	101.6	101.6	100.6	100.6
62.5°	75.7	76.6	77.5	76.6	76.6	76.6	75.7	75.7	74.8	73.9	73.9
65°	50.8	49.9	51.7	49.9	50.8	50.8	49.9	50.8	48.1	49.0	48.1
67.5°	36.5	35.6	34.8	35.6	34.8	33.8	33.8	34.8	35.6	33.0	33.0
70°	24.1	24.9	24.1	24.9	25.8	25.8	24.9	24.1	24.9	23.2	24.1
72.5°	15.1	15.1	15.1	15.1	15.1	16.0	16.0	16.0	14.3	14.3	13.3
75°	7.1	9.8	8.0	7.1	9.8	9.8	8.9	8.9	8.0	8.0	8.0
77.5°	7.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.4	5.4	4.4
80°	3.6	3.6	3.6	2.7	3.6	3.6	4.4	3.6	3.6	2.7	4.4
82.5°	1.8	1.8	1.8	0.0	0.9	1.8	1.8	0.9	1.8	1.8	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1844.8	1844.0	1844.8	1845.7	1844.8	1844.0	1844.8	1845.7	1842.2	1841.3	1843.0
5°	1884.0	1884.0	1885.8	1886.7	1885.8	1884.0	1884.0	1880.5	1877.8	1875.1	1874.2
7.5°	1917.9	1919.7	1921.4	1922.3	1921.4	1919.7	1917.9	1912.5	1907.2	1902.7	1899.2
10°	1938.4	1941.0	1944.6	1946.4	1944.6	1941.0	1938.4	1932.1	1925.0	1917.9	1912.5
12.5°	1947.3	1950.0	1954.4	1953.5	1954.4	1950.0	1947.3	1938.4	1930.3	1920.6	1912.5
15°	1941.0	1944.6	1949.0	1950.8	1949.0	1944.6	1941.0	1932.1	1925.0	1914.3	1906.3
17.5°	1921.4	1926.8	1929.5	1932.1	1929.5	1926.8	1921.4	1914.3	1904.5	1895.6	1887.6
20°	1894.7	1898.3	1901.9	1902.7	1901.9	1898.3	1894.7	1886.7	1871.6	1869.8	1863.5
22.5°	1856.4	1859.1	1867.1	1864.4	1867.1	1859.1	1856.4	1849.3	1844.0	1834.1	1827.9
25°	1801.2	1803.8	1804.8	1805.6	1804.8	1803.8	1801.2	1794.9	1789.6	1782.5	1778.9
27.5°	1705.9	1705.9	1707.6	1708.6	1707.6	1705.9	1705.9	1701.4	1697.8	1694.3	1690.7
30°	1561.6	1561.6	1561.6	1566.0	1561.6	1561.6	1561.6	1560.7	1560.7	1561.6	1561.6
32.5°	1395.0	1393.2	1391.4	1393.2	1391.4	1393.2	1395.0	1395.9	1395.0	1397.7	1402.1
35°	1206.1	1205.2	1207.9	1204.4	1207.9	1205.2	1206.1	1206.1	1209.7	1213.3	1214.2
37.5°	1025.3	1023.5	1027.1	1023.5	1027.1	1023.5	1025.3	1024.4	1023.5	1025.3	1022.6
40°	853.4	855.2	855.2	862.3	855.2	855.2	853.4	851.6	845.4	841.8	838.3
42.5°	688.6	693.9	692.1	697.5	692.1	693.9	688.6	685.0	677.9	671.6	666.3
45°	532.7	536.3	536.3	538.0	536.3	536.3	532.7	529.1	522.9	517.5	514.0
47.5°	408.9	408.9	408.9	409.8	408.9	408.9	408.9	402.6	400.9	397.3	392.8
50°	310.9	311.8	312.7	313.6	312.7	311.8	310.9	309.1	308.2	306.4	305.5
52.5°	238.7	239.6	237.9	239.6	237.9	239.6	238.7	239.6	236.9	236.9	236.1
55°	180.8	180.0	180.8	181.7	180.8	180.0	180.8	180.8	180.0	180.0	180.0
57.5°	132.7	130.9	130.9	130.9	130.9	130.9	132.7	131.9	134.5	132.7	133.6
60°	98.9	99.8	99.8	100.6	99.8	99.8	98.9	100.6	100.6	101.6	101.6
62.5°	73.0	75.7	73.9	75.7	73.9	75.7	73.0	73.9	73.9	74.8	75.7
65°	47.2	47.2	47.2	48.1	47.2	47.2	47.2	48.1	49.0	48.1	50.8
67.5°	32.1	33.0	34.8	33.8	34.8	33.0	32.1	33.0	33.0	35.6	34.8
70°	25.8	23.2	23.2	25.8	23.2	23.2	25.8	24.1	23.2	24.9	24.1
72.5°	15.1	13.3	15.1	15.1	15.1	13.3	15.1	13.3	14.3	14.3	16.0
75°	8.0	7.1	6.2	8.9	6.2	7.1	8.0	8.0	8.0	8.0	8.9
77.5°	5.4	4.4	6.2	6.2	6.2	4.4	5.4	4.4	5.4	4.4	5.4
80°	2.7	3.6	2.7	4.4	2.7	3.6	2.7	4.4	2.7	3.6	3.6
82.5°	0.9	1.8	1.8	1.8	1.8	1.8	0.9	0.9	1.8	1.8	0.9
85°	0.0	1.8	0.9	0.9	0.9	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1843.0	1840.4	1841.3	1835.9	1835.9	1834.1	1835.0	1830.6	1828.8	1827.0	1829.7
5°	1869.8	1865.3	1861.7	1853.7	1849.3	1844.0	1841.3	1834.1	1827.9	1822.5	1821.7
7.5°	1891.1	1881.4	1875.1	1864.4	1856.4	1850.2	1841.3	1831.5	1823.5	1816.3	1811.0
10°	1900.1	1890.3	1880.5	1867.1	1858.2	1846.6	1837.7	1825.2	1814.6	1804.8	1798.5
12.5°	1900.9	1888.5	1879.6	1864.4	1852.8	1840.4	1830.6	1816.3	1803.8	1794.1	1784.3
15°	1892.9	1881.4	1870.7	1854.6	1843.0	1831.5	1819.9	1804.8	1793.2	1781.6	1774.5
17.5°	1875.1	1864.4	1852.0	1836.8	1826.1	1815.4	1803.0	1790.5	1777.1	1764.7	1755.7
20°	1852.0	1840.4	1829.7	1814.6	1805.6	1794.1	1782.5	1769.1	1758.4	1746.0	1736.2
22.5°	1817.2	1806.5	1796.7	1787.8	1773.6	1764.7	1756.7	1741.5	1730.8	1719.2	1708.6
25°	1767.3	1756.7	1748.6	1737.9	1731.7	1721.9	1713.9	1700.5	1690.7	1680.0	1671.1
27.5°	1685.4	1679.1	1674.7	1668.4	1663.1	1658.7	1654.2	1643.5	1636.4	1626.6	1617.7
30°	1562.4	1561.6	1558.9	1556.2	1559.8	1559.8	1559.8	1558.0	1551.8	1544.6	1538.4
32.5°	1404.8	1406.6	1410.1	1412.8	1419.9	1427.9	1435.1	1438.6	1438.6	1434.2	1431.5
35°	1216.8	1219.5	1224.9	1232.0	1240.9	1250.7	1266.7	1270.3	1272.9	1272.9	1269.4
37.5°	1021.7	1020.8	1026.2	1032.4	1037.8	1044.9	1056.5	1059.2	1063.6	1061.8	1058.2
40°	832.0	827.5	825.8	827.5	833.8	831.1	833.8	832.0	832.0	825.8	825.8
42.5°	656.5	651.2	647.6	645.0	645.0	638.7	634.2	629.8	627.1	622.7	621.8
45°	506.0	499.7	495.3	493.5	490.8	482.8	477.5	472.1	465.9	464.1	465.0
47.5°	392.8	386.6	384.8	380.4	375.9	371.5	367.9	361.7	360.8	357.2	360.8
50°	302.9	301.1	298.4	296.6	293.9	290.4	286.8	283.3	281.5	281.5	282.4
52.5°	235.2	236.1	233.4	230.7	228.9	228.9	224.5	223.6	223.6	220.0	223.6
55°	180.0	179.0	180.0	178.2	178.2	175.5	175.5	172.8	172.8	170.1	171.9
57.5°	131.9	133.6	131.9	132.7	134.5	131.9	130.9	128.3	130.1	128.3	129.2
60°	102.4	102.4	102.4	101.6	101.6	100.6	100.6	99.8	99.8	98.0	99.8
62.5°	75.7	76.6	76.6	76.6	77.5	76.6	75.7	76.6	75.7	75.7	76.6
65°	49.9	50.8	50.8	49.9	51.7	49.9	50.8	51.7	52.5	51.7	52.5
67.5°	33.8	33.8	34.8	35.6	34.8	35.6	36.5	35.6	36.5	38.3	36.5
70°	24.9	25.8	25.8	24.9	24.1	24.9	24.1	26.7	26.7	26.7	28.5
72.5°	16.0	16.0	15.1	15.1	15.1	15.1	15.1	17.8	16.0	15.1	16.9
75°	8.9	9.8	9.8	7.1	8.0	9.8	7.1	8.0	10.7	8.9	10.7
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	7.1	6.2	6.2	6.2	7.1
80°	4.4	3.6	3.6	2.7	3.6	3.6	3.6	5.4	4.4	4.4	5.4
82.5°	1.8	1.8	0.9	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1822.5	1822.5	1821.7	1819.9	1816.3	1816.3	1815.4	1812.8	1811.0	1810.1	1810.1
5°	1813.6	1810.1	1806.5	1796.7	1796.7	1794.9	1789.6	1786.0	1784.3	1779.8	1778.0
7.5°	1805.6	1794.9	1788.7	1782.5	1774.5	1770.9	1764.7	1762.0	1755.7	1751.3	1748.6
10°	1786.0	1778.9	1770.9	1761.1	1754.9	1747.7	1740.6	1735.3	1727.3	1722.8	1719.2
12.5°	1772.7	1762.0	1754.9	1744.2	1733.5	1727.3	1717.5	1711.2	1703.2	1694.3	1688.9
15°	1760.2	1748.6	1738.8	1727.3	1715.7	1708.6	1697.0	1689.9	1678.3	1669.4	1663.1
17.5°	1741.5	1731.7	1721.0	1706.8	1696.1	1687.2	1674.7	1665.8	1655.1	1643.5	1637.3
20°	1721.9	1710.3	1699.6	1685.4	1674.7	1664.0	1651.5	1641.7	1629.2	1618.6	1611.5
22.5°	1696.1	1682.7	1673.8	1659.5	1647.1	1635.5	1623.9	1612.3	1600.8	1591.8	1583.8
25°	1658.7	1644.4	1634.6	1623.0	1611.5	1602.6	1588.3	1581.2	1569.6	1561.6	1553.5
27.5°	1605.2	1594.5	1585.6	1574.0	1564.2	1557.1	1546.4	1539.3	1529.5	1522.4	1516.1
30°	1526.8	1517.9	1509.9	1498.3	1491.2	1485.0	1475.1	1468.9	1461.8	1453.8	1452.0
32.5°	1421.7	1414.6	1406.6	1398.5	1393.2	1389.6	1381.6	1378.0	1370.9	1366.5	1362.0
35°	1263.1	1256.9	1252.5	1248.9	1247.1	1248.0	1246.2	1249.8	1251.5	1250.7	1251.5
37.5°	1055.6	1052.0	1053.8	1056.5	1065.4	1077.0	1087.7	1103.7	1114.4	1125.1	1134.9
40°	824.0	826.7	833.8	849.8	873.0	898.8	922.9	953.2	983.4	1004.8	1024.4
42.5°	621.8	629.8	647.6	670.8	705.5	743.8	781.2	825.8	862.3	897.9	922.9
45°	467.7	478.3	501.5	533.6	571.9	616.4	663.7	713.5	757.2	793.7	821.3
47.5°	364.3	374.1	397.3	431.2	478.3	524.7	573.7	625.3	670.8	706.4	730.5
50°	287.7	300.2	320.7	356.3	403.5	452.5	503.3	554.1	596.8	627.1	648.5
52.5°	226.3	237.9	257.4	294.9	343.0	392.0	439.1	489.0	526.4	555.9	570.1
55°	175.5	186.2	206.6	237.9	283.3	331.4	378.6	421.4	456.1	477.5	490.8
57.5°	133.6	141.6	155.9	187.1	228.1	272.6	312.7	355.4	382.2	397.3	406.2
60°	101.6	107.8	122.9	147.0	184.4	222.7	256.6	288.6	310.0	322.5	331.4
62.5°	76.6	83.7	94.4	114.9	143.4	174.6	203.1	227.1	245.0	253.0	259.2
65°	52.5	57.9	65.9	81.9	106.0	128.3	150.5	168.4	180.0	188.9	192.4
67.5°	39.2	42.8	47.2	59.7	76.6	94.4	109.6	122.0	134.5	138.1	144.3
70°	29.4	32.1	36.5	45.4	55.2	67.7	80.2	87.3	96.2	102.4	104.2
72.5°	18.7	19.6	24.1	29.4	37.4	45.4	53.5	59.7	65.0	68.6	70.4
75°	10.7	16.0	16.0	21.4	26.7	30.3	35.6	40.1	42.8	45.4	45.4
77.5°	7.1	9.8	10.7	13.3	16.0	20.5	24.9	27.6	30.3	31.2	31.2
80°	6.2	7.1	7.1	9.8	11.6	15.1	17.8	18.7	20.5	21.4	23.2
82.5°	2.7	3.6	4.4	7.1	8.0	8.0	10.7	11.6	13.3	14.3	14.3
85°	0.9	1.8	1.8	2.7	4.4	5.4	6.2	7.1	8.0	8.0	8.9
87.5°	0.9	0.9	0.0	0.9	1.8	1.8	3.6	3.6	3.6	5.4	5.4
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: P244539

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1808.3	1809.2	1805.6	1804.8	1803.0	1803.8	1805.6
5°	1775.4	1776.2	1772.7	1769.1	1769.1	1768.2	1769.1
7.5°	1744.2	1745.1	1739.7	1737.9	1734.4	1735.3	1735.3
10°	1713.0	1713.0	1705.0	1704.1	1701.4	1700.5	1700.5
12.5°	1682.7	1680.0	1673.8	1670.2	1672.0	1666.7	1666.7
15°	1656.0	1651.5	1643.5	1640.8	1636.4	1634.6	1634.6
17.5°	1628.4	1624.8	1617.7	1612.3	1607.0	1606.1	1607.0
20°	1601.6	1598.1	1589.2	1585.6	1581.2	1581.2	1579.4
22.5°	1574.9	1571.3	1563.4	1560.7	1554.4	1554.4	1555.3
25°	1547.3	1544.6	1535.7	1533.9	1533.1	1529.5	1531.3
27.5°	1509.9	1508.1	1501.0	1498.3	1494.8	1493.9	1495.6
30°	1441.3	1438.6	1433.3	1430.6	1424.4	1425.3	1427.0
32.5°	1355.8	1352.2	1345.1	1342.4	1337.1	1335.3	1336.2
35°	1248.9	1246.2	1240.0	1240.0	1234.6	1232.9	1234.6
37.5°	1140.2	1142.9	1140.2	1142.9	1140.2	1139.3	1140.2
40°	1037.8	1047.6	1049.3	1059.2	1055.6	1060.9	1060.0
42.5°	939.8	955.8	962.1	970.1	968.3	971.9	974.5
45°	840.9	854.3	860.5	865.9	866.7	868.5	869.4
47.5°	747.4	758.1	758.9	765.2	764.3	764.3	767.0
50°	660.1	667.2	669.0	673.4	669.9	668.1	669.0
52.5°	579.0	586.1	584.3	586.1	581.7	579.9	580.8
55°	496.2	499.7	499.7	499.7	494.4	494.4	494.4
57.5°	411.5	412.5	410.7	411.5	410.7	405.3	404.4
60°	334.1	334.1	333.1	334.1	331.4	328.7	328.7
62.5°	261.0	262.8	266.3	262.8	261.0	262.8	260.1
65°	195.1	198.7	197.7	199.5	198.7	198.7	196.9
67.5°	147.0	147.9	148.8	149.7	149.7	149.7	149.7
70°	107.8	110.5	109.6	109.6	109.6	109.6	114.9
72.5°	72.2	75.7	74.8	76.6	76.6	78.4	76.6
75°	49.0	52.5	50.8	53.5	52.5	50.8	55.2
77.5°	33.0	34.8	35.6	36.5	35.6	34.8	35.6
80°	23.2	24.9	24.1	24.9	24.9	24.9	25.8
82.5°	14.3	16.9	16.0	16.9	16.0	16.9	16.9
85°	9.8	10.7	8.9	10.7	9.8	9.8	11.6
87.5°	6.2	5.4	5.4	6.2	5.4	6.2	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)