

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: P244131

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2789.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

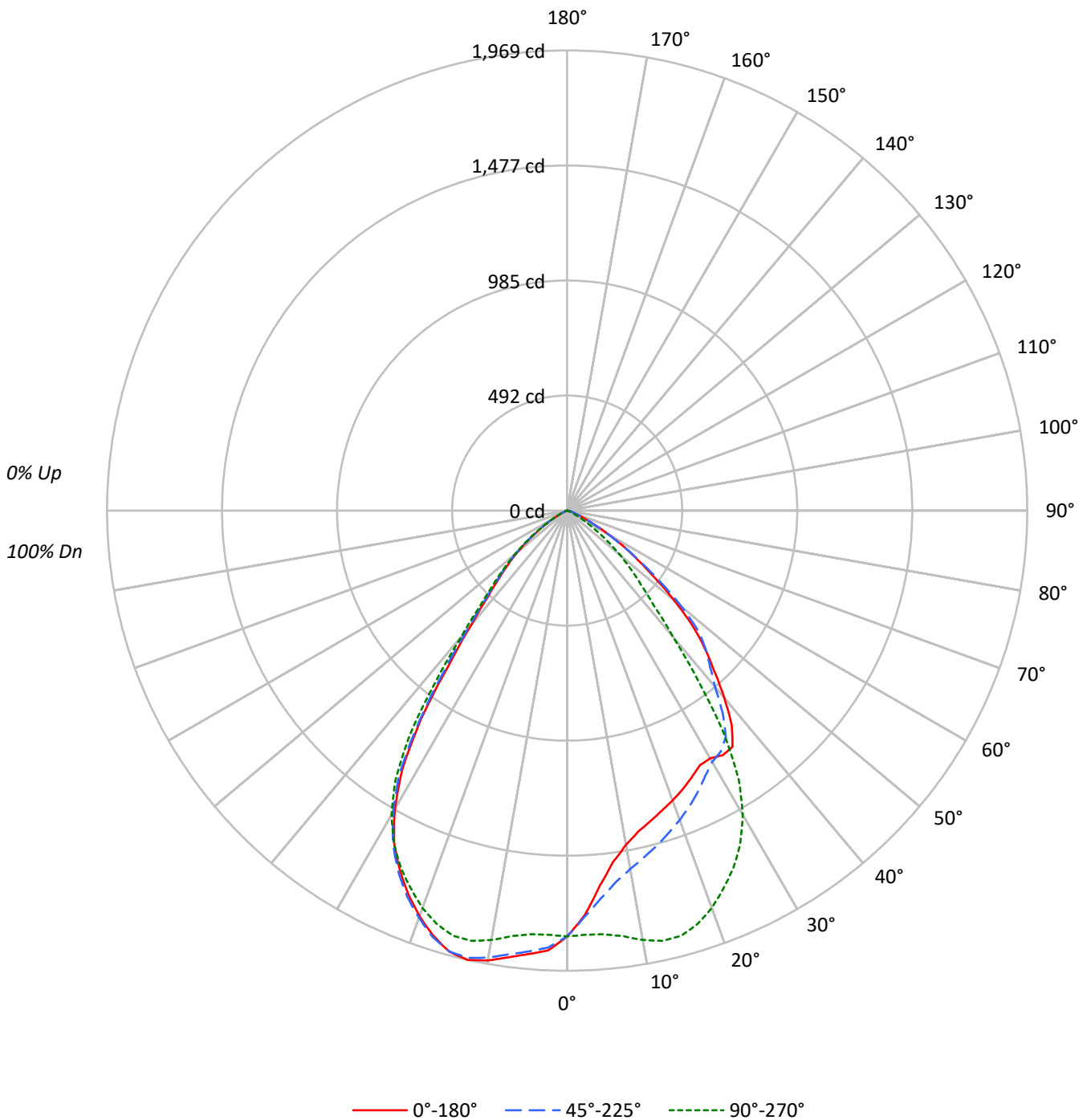
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56184	56184	56184
5°	49848	56324	58961
10°	45449	58416	61202
15°	43921	60123	62367
20°	43293	59383	60607
25°	42870	57334	57691
30°	43568	53506	52516
35°	46442	44277	41070
40°	42086	28347	25670
45°	36326	19393	18059
50°	28659	14147	13322
55°	19892	8699	8182
60°	12668	4397	3929
65°	6319	1744	1328
70°	3498	866	478
75°	2514	631	226
80°	2042	426	89
85°	2194	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	6.1
10°-20°	490.5	17.6
20°-30°	711.9	25.5
30°-40°	701.1	25.1
40°-50°	439.5	15.8
50°-60°	212.1	7.6
60°-70°	51.3	1.8
70°-80°	10.4	0.4
80°-90°	2.4	0.1
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°	1372.2	49.2
0°-40°	2073.3	74.3
0°-60°	2724.9	97.7
0°-90°	2789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1822	1822	1822	1822	1822	
5°	1610	1665	1820	1893	1905	149
15°	1376	1484	1883	1952	1954	389
25°	1260	1326	1685	1708	1696	583
35°	1234	1183	1176	1109	1091	746
45°	833	839	445	426	414	637
55°	370	382	162	160	152	340
65°	87	86	24	21	18	99
75°	21	18	5	2	2	24
85°	6	5	1	0	0	6
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°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1732.0	1721.0	1700.4	1725.3	1725.3	1711.4	1739.2	1722.4	1735.8	1756.9	1738.2
5°	1610.4	1601.3	1584.1	1610.4	1613.8	1600.8	1634.3	1621.9	1641.5	1667.4	1665.0
7.5°	1514.2	1502.7	1486.9	1514.2	1519.4	1510.8	1542.9	1537.2	1563.0	1596.5	1602.3
10°	1451.5	1439.5	1425.6	1450.5	1454.3	1448.6	1481.2	1477.8	1503.2	1541.9	1557.3
12.5°	1406.9	1396.9	1381.6	1407.9	1412.2	1404.1	1434.7	1433.3	1459.6	1500.3	1519.4
15°	1375.8	1363.9	1350.0	1372.5	1378.2	1369.1	1398.3	1395.5	1422.3	1462.5	1484.0
17.5°	1346.6	1335.6	1321.3	1342.3	1348.1	1338.5	1367.2	1362.4	1385.4	1423.7	1445.7
20°	1319.3	1307.4	1294.5	1316.0	1319.3	1308.3	1337.1	1330.8	1351.4	1386.8	1408.4
22.5°	1291.1	1278.7	1265.2	1286.3	1289.7	1278.7	1305.0	1297.8	1317.0	1349.0	1368.7
25°	1260.0	1248.5	1235.1	1254.7	1257.6	1245.6	1273.4	1264.3	1281.0	1309.3	1325.6
27.5°	1228.9	1217.9	1203.0	1223.1	1224.6	1213.1	1238.4	1226.0	1239.9	1265.7	1279.6
30°	1223.6	1211.2	1195.8	1212.1	1212.6	1197.8	1221.7	1206.8	1214.5	1233.7	1241.8
32.5°	1240.4	1227.9	1212.1	1225.5	1224.1	1207.8	1230.8	1212.6	1215.0	1225.0	1223.1
35°	1233.7	1218.8	1200.1	1214.5	1214.5	1194.9	1217.9	1196.3	1193.9	1195.4	1183.4
37.5°	1157.5	1146.0	1128.3	1142.2	1140.8	1125.9	1143.7	1125.9	1117.8	1114.5	1092.9
40°	1045.5	1031.6	1018.2	1033.1	1034.5	1018.7	1041.7	1021.6	1019.2	1009.6	984.2
42.5°	932.1	927.3	914.3	926.8	933.5	920.1	939.2	929.7	931.1	928.7	904.8
45°	833.0	824.8	815.3	829.6	833.9	827.2	846.4	840.6	846.4	858.3	838.7
47.5°	726.2	718.1	707.5	722.9	730.5	718.1	734.4	732.4	741.1	761.6	759.7
50°	597.4	591.7	589.8	591.7	596.5	590.7	602.2	602.7	608.4	636.7	638.6
52.5°	473.0	471.5	464.8	471.1	471.1	462.0	473.5	468.2	473.9	493.1	505.5
55°	370.0	368.6	364.3	370.0	363.8	360.5	363.8	358.6	354.3	369.1	382.0
57.5°	288.2	283.4	278.1	280.5	280.0	272.9	276.7	270.5	267.1	272.4	283.9
60°	205.4	203.9	199.1	201.5	203.5	198.2	202.0	199.1	193.4	197.7	198.2
62.5°	136.4	137.4	134.5	135.0	133.6	132.6	135.0	136.4	135.0	133.1	133.6
65°	86.6	86.2	85.7	86.2	87.1	85.2	86.6	87.6	86.2	86.2	85.7
67.5°	57.4	56.0	54.6	55.5	56.5	55.1	56.5	56.0	56.5	56.0	54.6
70°	38.8	38.3	37.8	38.3	38.3	37.3	38.3	37.8	38.3	37.8	36.4
72.5°	28.2	28.2	27.8	28.2	28.2	27.3	27.8	26.8	27.3	26.8	25.9
75°	21.1	21.1	20.6	21.1	20.6	20.1	20.6	20.1	19.1	19.1	18.2
77.5°	15.3	15.3	15.3	15.3	15.3	14.8	14.8	14.4	13.9	13.4	13.4
80°	11.5	11.0	11.0	11.0	11.0	10.5	11.0	10.5	10.1	9.6	9.1
82.5°	8.1	8.6	8.1	8.1	8.1	7.7	8.1	7.7	7.7	7.2	6.2
85°	6.2	6.2	6.2	6.2	6.2	5.7	5.7	5.7	5.3	5.3	4.8
87.5°	3.4	3.4	3.4	3.8	3.4	3.4	3.4	2.9	2.9	2.4	2.4
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°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1763.1	1765.5	1760.2	1768.4	1800.0	1774.6	1785.1	1788.5	1812.4	1816.7	1813.9
5°	1696.1	1706.6	1713.3	1731.5	1766.5	1748.3	1766.9	1778.9	1809.6	1819.6	1822.0
7.5°	1643.4	1665.5	1681.7	1711.4	1752.6	1738.7	1766.9	1786.6	1823.9	1836.8	1843.1
10°	1604.2	1637.7	1665.9	1706.6	1753.1	1744.0	1780.8	1808.6	1850.2	1865.6	1873.2
12.5°	1574.5	1615.2	1653.0	1704.7	1755.0	1750.7	1795.2	1826.8	1870.8	1886.1	1895.2
15°	1541.9	1588.9	1632.9	1690.8	1744.9	1744.0	1791.8	1825.3	1870.3	1883.3	1891.9
17.5°	1503.2	1553.4	1601.8	1664.5	1718.1	1719.1	1767.4	1800.5	1844.5	1855.0	1860.8
20°	1463.9	1513.7	1562.1	1626.7	1679.3	1680.8	1728.2	1758.8	1800.9	1809.6	1811.0
22.5°	1422.3	1468.7	1517.1	1581.2	1631.9	1632.9	1679.8	1708.5	1744.4	1748.8	1752.6
25°	1374.9	1420.4	1465.8	1529.5	1577.9	1580.7	1623.3	1648.7	1681.7	1685.1	1686.5
27.5°	1325.6	1362.9	1406.5	1461.0	1509.9	1508.0	1548.2	1576.9	1606.6	1604.7	1604.2
30°	1275.8	1306.9	1333.7	1386.4	1422.3	1423.7	1461.5	1475.4	1506.5	1502.7	1502.2
32.5°	1240.8	1249.0	1256.2	1283.0	1317.0	1305.0	1330.8	1348.1	1369.6	1368.2	1368.7
35°	1176.7	1161.8	1140.3	1144.1	1164.7	1146.0	1159.9	1159.5	1181.5	1176.2	1182.4
37.5°	1067.1	1024.9	977.1	949.8	953.6	930.1	925.4	936.8	944.5	929.7	934.9
40°	950.3	888.0	813.3	751.1	747.8	718.6	713.3	701.8	716.6	704.2	708.0
42.5°	864.1	781.7	683.6	608.0	591.7	567.3	552.9	551.0	555.3	546.7	544.3
45°	798.0	710.4	597.9	511.3	493.1	466.7	452.4	447.1	447.6	444.7	442.3
47.5°	720.5	632.4	518.5	429.9	409.3	384.4	370.0	366.7	368.6	364.8	361.9
50°	613.2	534.2	430.4	349.5	331.3	313.1	301.6	298.2	297.8	294.9	293.0
52.5°	497.9	432.3	342.3	274.8	258.5	240.8	232.7	228.3	228.8	226.0	223.1
55°	385.4	344.7	265.2	207.8	192.9	179.0	171.4	166.1	164.7	161.8	160.4
57.5°	286.8	259.5	198.7	149.8	141.2	127.8	120.2	113.9	113.0	111.5	111.1
60°	201.1	181.4	139.8	106.8	96.7	88.6	80.9	74.7	71.8	71.3	69.9
62.5°	130.2	118.2	91.9	71.3	63.7	57.9	50.3	46.0	44.0	42.1	42.6
65°	80.9	71.8	57.4	46.0	41.6	37.3	31.6	27.8	25.9	23.9	24.4
67.5°	50.3	45.0	36.4	29.7	26.8	23.5	19.1	16.3	14.8	13.4	12.4
70°	34.0	29.2	24.9	21.1	19.1	16.8	13.9	11.5	10.5	9.6	8.6
72.5°	23.9	21.5	18.2	15.8	14.4	12.4	10.5	9.1	8.1	7.2	6.2
75°	17.2	15.3	13.4	11.5	10.5	9.6	8.1	7.2	6.2	5.3	4.3
77.5°	12.4	11.0	9.6	8.6	8.1	6.7	5.7	5.3	4.8	3.8	2.9
80°	8.6	7.7	6.2	5.7	5.7	4.8	4.3	3.8	3.4	2.4	1.9
82.5°	5.7	5.3	4.8	4.3	3.8	3.4	3.4	2.4	1.9	1.4	1.0
85°	4.3	3.8	3.4	2.9	2.9	2.4	1.9	1.4	1.4	1.0	0.5
87.5°	2.4	2.4	1.9	1.4	1.4	1.0	1.0	0.5	0.5	0.5	0.5
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°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1838.3	1839.7	1847.8	1841.6	1857.4	1868.9	1863.2	1876.1	1871.8	1870.8	1885.7
5°	1850.7	1854.1	1865.1	1859.3	1876.6	1889.0	1883.3	1897.6	1893.3	1892.4	1907.7
7.5°	1874.7	1878.0	1887.6	1882.8	1901.0	1912.0	1904.8	1920.6	1914.9	1914.4	1929.2
10°	1904.8	1909.6	1917.7	1913.0	1929.7	1939.3	1932.1	1947.4	1942.2	1939.8	1956.0
12.5°	1927.3	1930.7	1938.8	1935.0	1951.3	1958.4	1952.2	1967.0	1960.3	1958.4	1972.8
15°	1922.0	1925.4	1932.1	1928.8	1944.1	1950.8	1942.6	1958.9	1952.2	1948.4	1961.3
17.5°	1888.5	1890.5	1895.2	1891.9	1908.2	1912.5	1903.4	1919.7	1913.4	1906.7	1919.2
20°	1839.2	1838.3	1841.1	1839.7	1853.1	1855.5	1849.8	1861.7	1854.5	1850.7	1857.9
22.5°	1778.0	1777.0	1778.9	1775.1	1788.5	1789.9	1781.3	1795.7	1788.5	1781.3	1793.3
25°	1710.0	1704.7	1703.8	1705.2	1714.3	1715.7	1706.6	1717.2	1708.1	1702.3	1713.8
27.5°	1626.2	1619.5	1618.1	1619.5	1628.6	1621.9	1614.2	1621.9	1612.8	1607.5	1614.7
30°	1522.8	1513.2	1508.9	1506.0	1515.6	1513.2	1495.5	1504.1	1489.8	1482.1	1487.4
32.5°	1383.5	1378.2	1366.7	1360.0	1369.1	1350.9	1339.9	1339.9	1334.2	1321.3	1324.1
35°	1190.1	1182.0	1171.4	1165.7	1167.1	1142.7	1124.5	1128.3	1109.2	1105.8	1107.3
37.5°	945.5	932.1	928.2	916.3	919.1	897.6	872.7	873.2	863.1	852.6	849.2
40°	710.4	708.0	704.2	694.1	698.0	674.5	664.9	665.4	658.7	651.1	654.9
42.5°	549.1	541.4	539.0	535.7	536.6	532.8	520.4	521.8	516.1	514.1	512.2
45°	446.2	438.0	432.3	435.2	435.2	430.8	426.1	428.9	426.1	422.2	424.1
47.5°	367.7	360.0	357.1	356.6	360.0	357.1	352.3	353.3	352.8	351.4	350.4
50°	293.5	291.5	289.1	287.7	289.1	288.2	283.9	286.3	287.7	282.9	284.4
52.5°	223.6	223.6	223.1	219.7	222.6	219.7	219.3	220.2	218.8	216.9	216.4
55°	163.7	162.3	159.9	159.4	160.4	159.4	158.5	158.9	159.9	155.1	155.1
57.5°	112.0	111.1	109.6	109.6	111.5	109.1	107.7	109.6	107.7	105.8	105.8
60°	71.8	71.3	69.9	69.9	69.9	69.4	68.0	68.5	69.4	66.5	67.0
62.5°	43.1	41.6	41.2	40.7	41.2	40.7	40.7	40.2	39.7	39.7	38.3
65°	23.5	22.5	21.5	22.0	22.0	21.5	21.5	21.5	20.6	20.1	19.6
67.5°	12.0	11.0	11.0	10.5	10.5	10.5	10.5	10.1	10.1	10.1	9.6
70°	7.7	7.2	6.7	6.7	6.7	6.2	6.2	6.2	6.2	6.2	5.7
72.5°	5.3	4.8	4.3	4.3	4.3	3.8	3.8	3.8	3.8	3.4	3.4
75°	3.8	3.4	2.9	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	1.9	1.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.0
80°	1.4	1.4	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
82.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	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: P244131

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1880.4	1876.6	1879.0	1896.7	1889.0	1886.6	1866.5	1884.2
5°	1902.9	1900.0	1900.0	1920.1	1911.0	1909.1	1889.5	1904.8
7.5°	1924.0	1921.1	1921.6	1942.2	1935.0	1932.1	1912.5	1927.8
10°	1951.3	1949.3	1949.8	1969.4	1961.8	1958.9	1938.8	1954.6
12.5°	1967.5	1964.7	1964.7	1985.7	1977.1	1972.8	1953.6	1969.0
15°	1955.1	1950.8	1950.8	1971.8	1962.3	1956.0	1939.3	1953.6
17.5°	1912.5	1908.2	1908.2	1926.4	1919.2	1910.1	1892.8	1906.3
20°	1853.1	1847.8	1846.4	1867.5	1857.4	1849.3	1834.0	1846.9
22.5°	1786.1	1783.7	1779.4	1800.5	1791.4	1782.7	1766.5	1776.5
25°	1705.7	1701.8	1697.5	1718.1	1709.0	1700.4	1687.5	1695.6
27.5°	1605.6	1606.1	1603.7	1620.0	1610.9	1606.1	1590.3	1603.7
30°	1484.5	1479.2	1477.3	1496.5	1487.9	1481.6	1462.0	1474.9
32.5°	1326.5	1318.9	1308.8	1330.4	1315.5	1310.2	1293.5	1312.2
35°	1096.7	1094.3	1085.3	1103.4	1095.3	1085.7	1075.2	1091.0
37.5°	847.8	849.7	848.8	853.6	848.8	842.5	831.1	825.3
40°	647.2	642.4	638.6	647.2	637.2	637.2	630.5	637.7
42.5°	507.4	505.5	510.3	512.2	506.5	505.5	504.6	504.1
45°	418.9	418.9	419.8	421.7	419.8	418.9	416.0	414.1
47.5°	345.2	347.1	345.2	351.4	348.0	347.1	341.3	343.7
50°	279.6	277.2	279.6	281.5	282.0	279.1	276.2	277.7
52.5°	216.9	213.0	212.1	214.9	213.0	213.0	211.1	210.6
55°	152.7	154.1	151.8	154.1	153.2	151.8	150.3	152.2
57.5°	103.4	103.9	102.9	104.4	102.0	102.4	102.0	101.5
60°	67.0	65.1	65.1	66.5	64.1	64.1	63.7	63.7
62.5°	38.3	37.8	37.8	37.3	36.9	36.9	36.9	35.9
65°	19.6	19.1	18.7	18.7	18.7	18.7	18.2	18.2
67.5°	9.6	9.1	9.1	9.6	9.1	9.1	9.1	9.1
70°	5.7	5.7	5.3	5.7	5.3	5.3	5.3	5.3
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)