

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: P244617

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30850 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

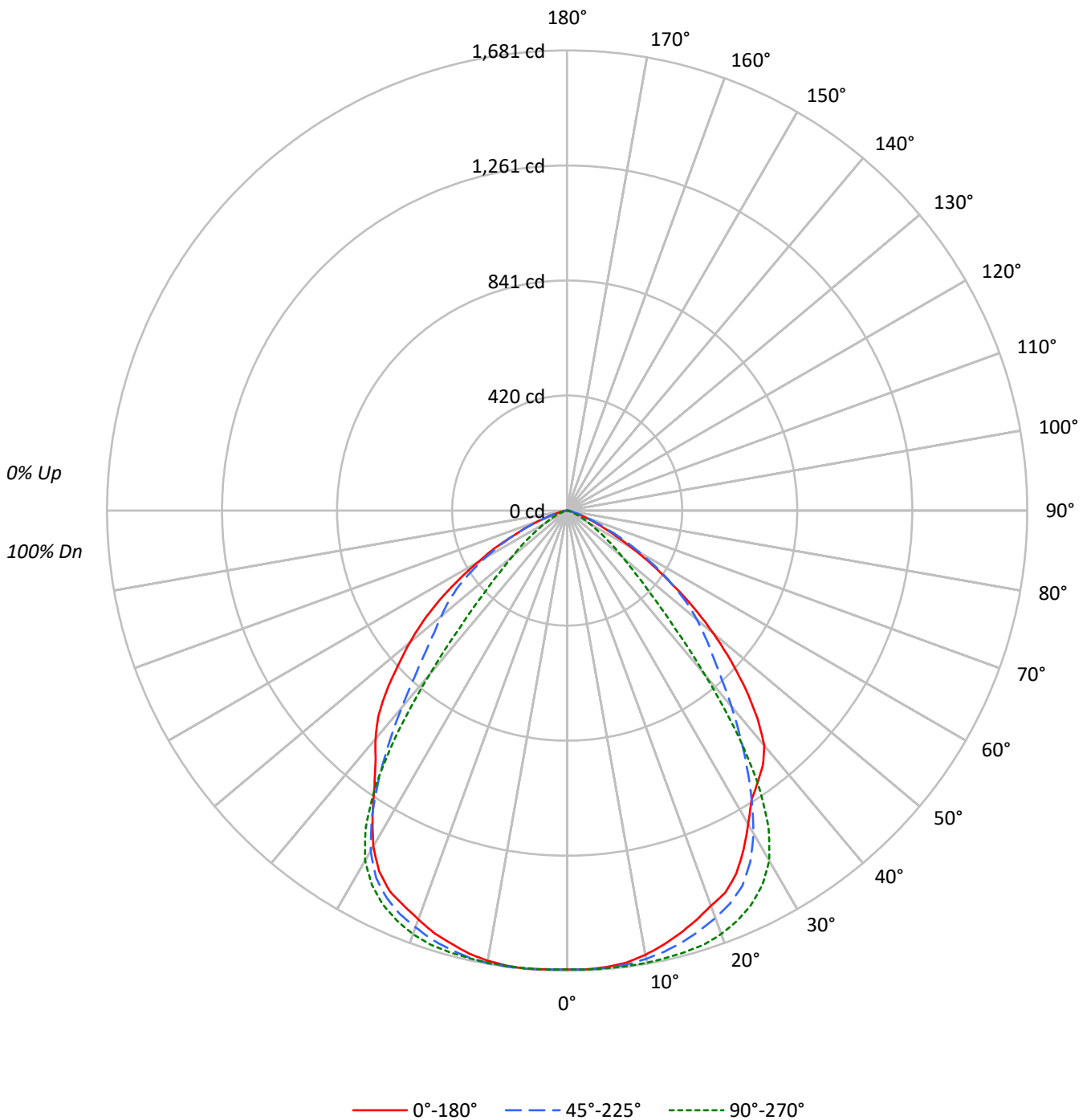
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51688	51688	51688
5°	51802	51944	52000
10°	51587	52517	52291
15°	51015	53281	52279
20°	50401	54030	52144
25°	49747	54095	52196
30°	47065	52573	50426
35°	45659	45693	46167
40°	45092	31438	43824
45°	40181	18874	40727
50°	33408	12559	35999
55°	25058	8661	30520
60°	16978	5773	23029
65°	10244	3743	15819
70°	5680	2029	9737
75°	2573	858	5040
80°	2237	959	3516
85°	2547	1274	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	5.0
10°-20°	464.6	14.6
20°-30°	705.2	22.2
30°-40°	740.6	23.3
40°-50°	555.3	17.5
50°-60°	356.3	11.2
60°-70°	152.4	4.8
70°-80°	36.0	1.1
80°-90°	6.7	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°	1329.7	41.9
0°-40°	2070.3	65.2
0°-60°	2981.9	93.9
0°-90°	3177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1676	1676	1676	1676	1676	
5°	1674	1676	1678	1681	1680	159
15°	1598	1631	1669	1658	1638	451
25°	1462	1513	1590	1561	1534	668
35°	1213	1145	1214	1199	1226	761
45°	921	753	433	732	934	706
55°	466	466	161	486	568	423
65°	140	166	51	213	217	150
75°	22	25	7	43	42	31
85°	7	4	4	7	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2
2.5°	1677.2	1679.0	1678.1	1678.1	1677.2	1678.1	1678.1	1679.9	1679.9	1678.1	1677.2
5°	1673.5	1675.3	1675.3	1673.5	1673.5	1678.1	1675.3	1677.2	1677.2	1676.2	1676.2
7.5°	1665.5	1665.5	1669.0	1666.4	1666.4	1669.0	1668.1	1670.0	1671.8	1672.7	1672.7
10°	1647.5	1649.3	1650.2	1650.2	1651.1	1653.7	1655.6	1659.2	1660.9	1662.8	1663.7
12.5°	1625.0	1627.7	1628.6	1627.7	1630.4	1634.0	1638.5	1643.0	1645.7	1649.3	1652.0
15°	1598.0	1598.0	1599.8	1602.5	1604.3	1609.7	1614.2	1619.6	1626.8	1631.3	1635.8
17.5°	1568.3	1570.1	1572.8	1572.8	1576.4	1585.4	1588.1	1596.2	1604.3	1608.8	1617.8
20°	1535.9	1537.7	1540.4	1542.2	1546.7	1553.9	1559.3	1566.5	1575.5	1583.6	1592.6
22.5°	1510.7	1507.1	1508.9	1510.7	1515.2	1521.5	1527.8	1536.8	1545.8	1553.9	1562.9
25°	1462.1	1463.0	1465.7	1467.5	1472.9	1478.3	1485.5	1496.3	1504.4	1513.4	1523.3
27.5°	1396.4	1397.3	1401.8	1401.8	1406.3	1415.3	1419.8	1428.8	1439.6	1448.6	1460.3
30°	1321.8	1323.5	1323.5	1327.1	1329.8	1334.3	1338.8	1347.8	1353.2	1361.3	1377.5
32.5°	1253.4	1255.2	1254.3	1253.4	1250.7	1249.8	1248.9	1250.7	1252.5	1255.2	1261.5
35°	1212.9	1208.4	1204.8	1198.5	1191.3	1182.3	1174.2	1163.4	1153.5	1145.4	1136.4
37.5°	1174.2	1173.3	1167.9	1158.9	1144.5	1128.3	1109.4	1086.0	1062.6	1037.4	1013.1
40°	1120.2	1117.5	1113.0	1100.4	1084.2	1064.4	1039.2	1010.4	972.6	933.9	894.4
42.5°	1028.4	1029.3	1023.9	1014.0	998.7	979.8	953.7	922.3	881.8	835.9	784.6
45°	921.4	921.4	919.5	911.4	900.7	885.4	865.6	839.5	799.9	753.1	698.2
47.5°	809.8	810.7	808.0	806.2	801.7	791.8	777.4	757.6	729.7	684.7	629.8
50°	696.4	696.4	700.9	700.0	700.0	696.4	690.1	678.4	654.1	618.1	566.9
52.5°	583.0	584.8	587.6	591.1	595.6	602.8	595.6	590.2	574.9	547.0	503.0
55°	466.1	467.9	472.4	478.7	484.1	491.3	493.1	493.1	485.0	466.1	432.8
57.5°	366.2	363.5	367.1	372.5	379.7	386.9	392.3	398.6	397.7	385.1	358.1
60°	275.3	276.2	278.9	284.3	289.7	296.0	303.2	308.6	311.3	305.0	287.9
62.5°	200.7	200.7	204.2	209.6	212.3	221.3	225.8	228.5	231.2	230.3	219.5
65°	140.4	142.2	144.0	146.7	149.4	154.7	157.5	162.8	164.7	165.6	157.5
67.5°	99.0	96.3	98.1	99.9	102.6	106.2	111.6	111.6	114.3	114.3	108.9
70°	63.0	63.0	63.9	66.6	68.4	69.3	71.1	72.9	75.6	74.7	74.7
72.5°	42.3	41.4	42.3	43.2	44.1	46.8	46.8	47.7	49.5	50.4	46.8
75°	21.6	22.5	24.3	23.4	26.1	24.3	25.2	27.9	27.0	25.2	25.2
77.5°	18.0	18.0	18.0	17.1	18.9	18.9	18.0	19.8	18.9	18.9	18.0
80°	12.6	13.5	12.6	11.7	12.6	11.7	11.7	11.7	11.7	11.7	10.8
82.5°	9.9	8.1	9.0	8.1	9.0	9.0	8.1	7.2	7.2	8.1	7.2
85°	7.2	5.4	6.3	6.3	5.4	5.4	5.4	5.4	5.4	4.5	4.5
87.5°	4.5	2.7	2.7	2.7	3.6	3.6	3.6	2.7	3.6	3.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2
2.5°	1679.0	1678.1	1679.9	1679.0	1679.0	1678.1	1679.0	1678.1	1679.9	1676.2	1677.2
5°	1679.0	1677.2	1678.1	1679.0	1679.9	1678.1	1678.1	1678.1	1679.9	1678.1	1679.0
7.5°	1675.3	1674.4	1677.2	1679.0	1678.1	1677.2	1679.0	1678.1	1679.9	1679.0	1680.7
10°	1668.1	1669.0	1670.9	1673.5	1674.4	1675.3	1677.2	1677.2	1679.9	1676.2	1678.1
12.5°	1657.4	1660.9	1665.5	1667.2	1670.9	1670.9	1672.7	1673.5	1675.3	1674.4	1677.2
15°	1643.9	1648.4	1653.7	1658.3	1662.8	1665.5	1668.1	1669.0	1671.8	1669.0	1670.0
17.5°	1627.7	1633.1	1641.2	1646.5	1653.7	1656.5	1660.0	1661.8	1664.6	1662.8	1663.7
20°	1605.2	1611.5	1620.5	1628.6	1633.1	1639.3	1643.9	1646.5	1648.4	1646.5	1647.5
22.5°	1573.7	1582.7	1594.4	1600.7	1609.7	1615.1	1616.0	1622.3	1626.8	1622.3	1624.1
25°	1536.8	1545.8	1554.8	1568.3	1576.4	1582.7	1589.0	1589.9	1594.4	1593.5	1592.6
27.5°	1475.6	1487.3	1502.6	1513.4	1524.2	1534.1	1541.3	1543.1	1547.6	1545.8	1546.7
30°	1391.9	1404.5	1418.9	1436.0	1451.3	1461.2	1470.2	1476.5	1481.0	1478.3	1477.4
32.5°	1273.2	1285.8	1301.1	1318.1	1336.1	1350.5	1361.3	1369.4	1374.8	1373.0	1368.5
35°	1137.3	1140.9	1150.8	1164.3	1179.6	1194.9	1204.8	1213.8	1220.1	1221.9	1221.9
37.5°	997.8	986.1	978.9	978.9	987.9	994.2	1003.2	1008.6	1018.5	1022.1	1024.8
40°	862.9	835.9	810.7	791.8	779.2	778.3	778.3	781.0	790.0	801.7	812.5
42.5°	742.3	699.1	660.4	625.3	600.1	585.7	579.5	580.4	587.6	598.3	616.3
45°	646.0	592.0	543.5	501.2	467.0	444.5	433.7	432.8	438.2	450.8	470.6
47.5°	571.3	513.8	458.9	410.3	373.4	349.1	336.5	332.9	336.5	348.2	371.6
50°	509.3	449.9	393.2	342.8	303.2	278.0	266.3	261.8	266.3	276.2	299.6
52.5°	451.7	390.5	337.4	288.8	246.5	224.9	212.3	209.6	212.3	224.0	242.9
55°	385.1	332.9	280.7	232.1	195.3	173.7	163.8	161.1	163.8	174.6	194.4
57.5°	319.4	274.4	228.5	184.4	153.0	134.1	125.1	121.5	127.8	135.0	158.4
60°	258.2	222.2	183.5	144.9	118.8	101.7	94.5	93.6	95.4	104.4	120.6
62.5°	202.5	172.8	142.2	110.7	89.1	81.9	72.9	72.0	73.8	79.2	91.8
65°	145.8	126.9	103.5	81.0	63.9	54.0	50.4	51.3	53.1	56.7	68.4
67.5°	101.7	88.2	72.0	56.7	44.1	39.6	36.0	35.1	36.0	42.3	48.6
70°	68.4	60.3	48.6	43.2	30.6	24.3	25.2	22.5	26.1	26.1	31.5
72.5°	45.0	39.6	32.4	25.2	21.6	17.1	17.1	16.2	18.0	18.9	23.4
75°	23.4	18.0	18.0	12.6	9.0	4.5	8.1	7.2	6.3	7.2	9.0
77.5°	16.2	13.5	12.6	9.9	9.0	7.2	7.2	7.2	7.2	8.1	9.0
80°	9.9	9.9	7.2	6.3	5.4	4.5	5.4	5.4	5.4	5.4	6.3
82.5°	6.3	5.4	5.4	4.5	4.5	3.6	3.6	3.6	3.6	3.6	5.4
85°	5.4	3.6	3.6	2.7	3.6	6.3	2.7	3.6	3.6	3.6	2.7
87.5°	1.8	2.7	2.7	2.7	1.8	0.9	1.8	2.7	2.7	4.5	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2
2.5°	1679.0	1679.9	1679.9	1679.0	1679.0	1677.2	1680.7	1678.1	1679.0	1682.5	1679.9
5°	1680.7	1681.6	1681.6	1680.7	1680.7	1680.7	1681.6	1681.6	1680.7	1679.9	1681.6
7.5°	1684.3	1683.4	1683.4	1681.6	1681.6	1679.9	1681.6	1679.0	1680.7	1679.0	1681.6
10°	1679.9	1680.7	1679.9	1679.0	1679.0	1678.1	1678.1	1675.3	1676.2	1673.5	1675.3
12.5°	1677.2	1676.2	1676.2	1674.4	1672.7	1670.9	1670.0	1667.2	1667.2	1660.9	1663.7
15°	1670.0	1670.9	1668.1	1664.6	1662.8	1658.3	1656.5	1652.8	1649.3	1644.8	1645.7
17.5°	1663.7	1660.9	1657.4	1653.7	1646.5	1643.0	1639.3	1634.0	1632.2	1626.8	1625.0
20°	1644.8	1643.0	1638.5	1632.2	1627.7	1619.6	1616.0	1610.6	1606.1	1600.7	1598.0
22.5°	1620.5	1618.7	1613.3	1607.0	1599.8	1596.2	1592.6	1582.7	1578.2	1572.8	1571.9
25°	1589.9	1587.2	1581.8	1574.6	1571.0	1561.1	1557.5	1550.3	1548.5	1543.1	1542.2
27.5°	1543.1	1539.5	1533.2	1524.2	1517.9	1511.6	1508.0	1502.6	1500.8	1495.4	1494.5
30°	1472.9	1468.4	1455.8	1452.2	1441.4	1435.1	1435.1	1427.9	1428.8	1425.2	1425.2
32.5°	1362.2	1355.0	1345.1	1337.9	1330.7	1327.1	1327.1	1324.4	1326.2	1326.2	1328.0
35°	1215.6	1205.7	1200.3	1195.8	1195.8	1199.4	1210.2	1212.9	1218.3	1222.8	1226.4
37.5°	1027.5	1026.6	1032.9	1038.3	1051.8	1067.1	1086.0	1102.2	1117.5	1128.3	1139.1
40°	824.2	846.7	864.7	889.9	910.5	940.2	974.4	1002.3	1028.4	1047.3	1067.1
42.5°	643.3	672.1	709.9	746.8	783.7	824.2	869.2	907.9	942.0	968.1	988.8
45°	501.2	540.7	586.6	633.4	681.1	731.5	778.3	817.9	853.9	880.9	901.6
47.5°	404.0	447.2	499.4	550.7	604.6	657.7	709.9	744.1	773.8	795.4	814.3
50°	333.8	379.7	434.6	493.1	547.0	600.1	645.1	678.4	702.7	721.6	733.3
52.5°	278.9	327.5	386.0	444.5	498.5	547.0	587.6	612.7	632.5	646.0	656.8
55°	230.3	277.1	332.0	386.9	440.0	485.9	519.2	538.1	553.3	561.4	567.7
57.5°	188.1	231.2	281.6	332.0	377.9	415.7	441.8	460.7	467.9	474.2	473.3
60°	147.6	188.1	233.9	277.1	316.7	347.3	366.2	377.0	382.4	385.1	383.3
62.5°	116.1	153.0	188.1	225.8	254.6	280.7	298.7	298.7	301.4	302.3	305.0
65°	86.4	114.3	144.9	172.8	196.1	213.2	223.1	225.8	229.4	228.5	226.7
67.5°	63.9	84.6	107.1	127.8	144.0	154.7	161.9	168.3	167.4	165.6	164.7
70°	44.1	57.6	77.4	90.0	101.7	112.5	114.3	115.2	116.1	117.0	115.2
72.5°	30.6	40.5	51.3	62.1	69.3	73.8	78.3	79.2	79.2	79.2	78.3
75°	15.3	20.7	30.6	35.1	41.4	43.2	46.8	46.8	49.5	45.9	45.0
77.5°	13.5	16.2	21.6	25.2	27.9	30.6	31.5	34.2	33.3	31.5	32.4
80°	8.1	9.9	13.5	15.3	18.9	19.8	20.7	21.6	20.7	21.6	21.6
82.5°	6.3	7.2	9.0	9.0	11.7	11.7	12.6	12.6	13.5	13.5	13.5
85°	3.6	6.3	5.4	10.8	7.2	7.2	9.0	10.8	9.0	9.0	10.8
87.5°	3.6	3.6	2.7	3.6	3.6	3.6	4.5	5.4	5.4	6.3	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: P244617

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1676.2	1676.2	1676.2	1676.2
2.5°	1679.0	1680.7	1678.1	1677.2
5°	1681.6	1681.6	1679.9	1679.9
7.5°	1681.6	1681.6	1679.0	1677.2
10°	1674.4	1674.4	1671.8	1670.0
12.5°	1660.9	1660.9	1660.0	1657.4
15°	1643.9	1643.9	1640.3	1637.6
17.5°	1620.5	1622.3	1617.8	1617.8
20°	1595.3	1594.4	1590.8	1589.0
22.5°	1569.2	1567.4	1566.5	1561.1
25°	1541.3	1539.5	1536.8	1534.1
27.5°	1493.6	1492.7	1490.0	1486.4
30°	1420.7	1419.8	1416.2	1416.2
32.5°	1326.2	1325.3	1321.8	1322.7
35°	1228.2	1231.8	1230.0	1226.4
37.5°	1146.3	1149.0	1150.8	1149.0
40°	1077.9	1086.0	1086.9	1088.7
42.5°	1005.0	1015.8	1019.4	1021.2
45°	917.7	927.7	935.8	933.9
47.5°	828.7	835.9	843.1	837.7
50°	743.2	747.7	750.4	750.4
52.5°	662.2	662.2	661.3	662.2
55°	569.5	569.5	566.0	567.7
57.5°	472.4	474.2	471.5	467.0
60°	382.4	377.9	376.1	373.4
62.5°	297.8	297.8	291.5	299.6
65°	223.1	220.4	217.7	216.8
67.5°	161.9	161.1	158.4	157.5
70°	114.3	110.7	109.8	108.0
72.5°	76.5	76.5	74.7	74.7
75°	46.8	42.3	41.4	42.3
77.5°	32.4	31.5	31.5	30.6
80°	21.6	20.7	22.5	19.8
82.5°	13.5	14.4	13.5	14.4
85°	9.0	10.8	9.9	9.9
87.5°	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)