

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: P245451

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245451
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 EC8B309730 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2323.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

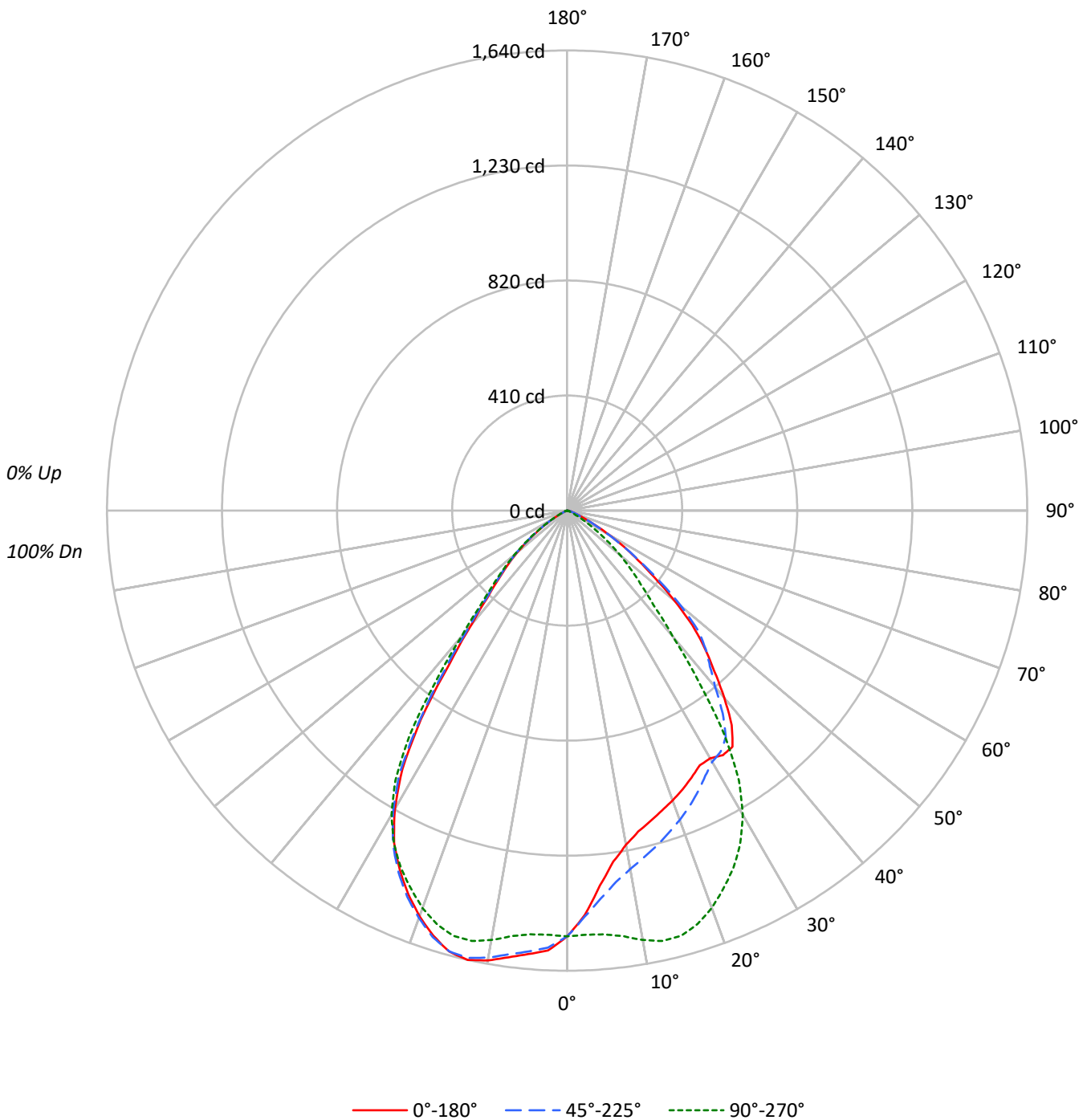
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	6.1
10°-20°	408.5	17.6
20°-30°	592.9	25.5
30°-40°	584.0	25.1
40°-50°	366.1	15.8
50°-60°	176.6	7.6
60°-70°	42.8	1.8
70°-80°	8.6	0.4
80°-90°	2.0	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°	1142.9	49.2
0°-40°	1726.9	74.3
0°-60°	2269.6	97.7
0°-90°	2323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1518	1518	1518	1518	1518	
5°	1341	1387	1516	1577	1586	124
15°	1146	1236	1569	1626	1627	324
25°	1050	1104	1404	1423	1412	486
35°	1028	986	980	924	909	622
45°	694	699	370	355	345	530
55°	308	318	135	133	127	284
65°	72	71	20	17	15	82
75°	18	15	4	2	2	20
85°	5	4	1	0	0	5
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°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1442.6	1433.4	1416.3	1437.0	1437.0	1425.5	1448.6	1434.6	1445.8	1463.3	1447.8
5°	1341.3	1333.8	1319.4	1341.3	1344.1	1333.4	1361.3	1350.9	1367.2	1388.8	1386.8
7.5°	1261.2	1251.6	1238.5	1261.2	1265.6	1258.4	1285.1	1280.3	1301.9	1329.8	1334.6
10°	1209.0	1199.0	1187.4	1208.2	1211.3	1206.6	1233.7	1230.9	1252.0	1284.3	1297.1
12.5°	1171.9	1163.5	1150.7	1172.7	1176.3	1169.5	1195.0	1193.8	1215.7	1249.6	1265.6
15°	1146.0	1136.0	1124.4	1143.2	1147.9	1140.4	1164.7	1162.3	1184.6	1218.1	1236.1
17.5°	1121.6	1112.5	1100.5	1118.0	1122.8	1114.9	1138.8	1134.8	1153.9	1185.8	1204.2
20°	1098.9	1088.9	1078.2	1096.1	1098.9	1089.7	1113.7	1108.5	1125.6	1155.1	1173.1
22.5°	1075.4	1065.0	1053.8	1071.4	1074.2	1065.0	1086.9	1081.0	1096.9	1123.6	1140.0
25°	1049.5	1039.9	1028.7	1045.1	1047.5	1037.5	1060.6	1053.0	1067.0	1090.5	1104.1
27.5°	1023.5	1014.4	1002.0	1018.8	1020.0	1010.4	1031.5	1021.1	1032.7	1054.2	1065.8
30°	1019.2	1008.8	996.0	1009.6	1010.0	997.6	1017.6	1005.2	1011.6	1027.5	1034.3
32.5°	1033.1	1022.7	1009.6	1020.8	1019.6	1006.0	1025.1	1010.0	1012.0	1020.4	1018.8
35°	1027.5	1015.2	999.6	1011.6	1011.6	995.2	1014.4	996.4	994.4	995.6	985.7
37.5°	964.1	954.6	939.8	951.4	950.2	937.8	952.6	937.8	931.0	928.2	910.3
40°	870.8	859.3	848.1	860.5	861.7	848.5	867.6	850.9	848.9	840.9	819.8
42.5°	776.3	772.3	761.6	771.9	777.5	766.4	782.3	774.3	775.5	773.5	753.6
45°	693.8	687.0	679.0	691.0	694.6	689.0	705.0	700.2	705.0	714.9	698.6
47.5°	604.9	598.1	589.3	602.1	608.5	598.1	611.7	610.1	617.2	634.4	632.8
50°	497.6	492.8	491.2	492.8	496.8	492.0	501.6	502.0	506.8	530.3	531.9
52.5°	393.9	392.7	387.2	392.4	392.4	384.8	394.3	390.0	394.7	410.7	421.1
55°	308.2	307.0	303.4	308.2	303.0	300.2	303.0	298.6	295.1	307.4	318.2
57.5°	240.0	236.0	231.7	233.7	233.3	227.3	230.5	225.3	222.5	226.9	236.4
60°	171.1	169.9	165.9	167.9	169.5	165.1	168.3	165.9	161.1	164.7	165.1
62.5°	113.6	114.4	112.0	112.4	111.2	110.4	112.4	113.6	112.4	110.8	111.2
65°	72.2	71.8	71.4	71.8	72.6	71.0	72.2	73.0	71.8	71.8	71.4
67.5°	47.8	46.7	45.5	46.3	47.1	45.9	47.1	46.7	47.1	46.7	45.5
70°	32.3	31.9	31.5	31.9	31.9	31.1	31.9	31.5	31.9	31.5	30.3
72.5°	23.5	23.5	23.1	23.5	23.5	22.7	23.1	22.3	22.7	22.3	21.5
75°	17.5	17.5	17.1	17.5	17.1	16.7	17.1	16.7	15.9	15.9	15.2
77.5°	12.8	12.8	12.8	12.8	12.8	12.4	12.4	12.0	11.6	11.2	11.2
80°	9.6	9.2	9.2	9.2	9.2	8.8	9.2	8.8	8.4	8.0	7.6
82.5°	6.8	7.2	6.8	6.8	6.8	6.4	6.8	6.4	6.4	6.0	5.2
85°	5.2	5.2	5.2	5.2	5.2	4.8	4.8	4.8	4.4	4.4	4.0
87.5°	2.8	2.8	2.8	3.2	2.8	2.8	2.8	2.4	2.4	2.0	2.0
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°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1468.5	1470.5	1466.1	1472.9	1499.2	1478.1	1486.9	1489.7	1509.6	1513.2	1510.8
5°	1412.7	1421.5	1427.1	1442.2	1471.3	1456.2	1471.7	1481.7	1507.2	1515.6	1517.6
7.5°	1368.8	1387.2	1400.7	1425.5	1459.8	1448.2	1471.7	1488.1	1519.2	1529.9	1535.1
10°	1336.1	1364.1	1387.6	1421.5	1460.2	1452.6	1483.3	1506.4	1541.1	1553.9	1560.2
12.5°	1311.4	1345.3	1376.8	1419.9	1461.7	1458.2	1495.2	1521.6	1558.2	1571.0	1578.6
15°	1284.3	1323.4	1360.1	1408.3	1453.4	1452.6	1492.4	1520.4	1557.8	1568.6	1575.8
17.5°	1252.0	1293.9	1334.2	1386.4	1431.0	1431.8	1472.1	1499.6	1536.3	1545.1	1549.9
20°	1219.3	1260.8	1301.1	1354.9	1398.7	1399.9	1439.4	1464.9	1500.0	1507.2	1508.4
22.5°	1184.6	1223.3	1263.6	1317.0	1359.3	1360.1	1399.1	1423.1	1453.0	1456.6	1459.8
25°	1145.2	1183.0	1220.9	1273.9	1314.2	1316.6	1352.1	1373.2	1400.7	1403.5	1404.7
27.5°	1104.1	1135.2	1171.5	1216.9	1257.6	1256.0	1289.5	1313.4	1338.1	1336.5	1336.1
30°	1062.6	1088.5	1110.9	1154.7	1184.6	1185.8	1217.3	1228.9	1254.8	1251.6	1251.2
32.5°	1033.5	1040.3	1046.3	1068.6	1096.9	1086.9	1108.5	1122.8	1140.8	1139.6	1140.0
35°	980.1	967.7	949.8	953.0	970.1	954.6	966.1	965.7	984.1	979.7	984.9
37.5°	888.8	853.7	813.8	791.1	794.3	774.7	770.7	780.3	786.7	774.3	778.7
40°	791.5	739.6	677.4	625.6	622.8	598.5	594.1	584.5	596.9	586.5	589.7
42.5°	719.7	651.1	569.4	506.4	492.8	472.5	460.5	458.9	462.5	455.4	453.4
45°	664.7	591.7	498.0	425.8	410.7	388.8	376.8	372.4	372.8	370.4	368.4
47.5°	600.1	526.7	431.8	358.1	340.9	320.2	308.2	305.4	307.0	303.8	301.4
50°	510.8	445.0	358.5	291.1	275.9	260.8	251.2	248.4	248.0	245.6	244.0
52.5°	414.7	360.1	285.1	228.9	215.3	200.6	193.8	190.2	190.6	188.2	185.8
55°	321.0	287.1	220.9	173.0	160.7	149.1	142.7	138.4	137.2	134.8	133.6
57.5°	238.8	216.1	165.5	124.8	117.6	106.5	100.1	94.9	94.1	92.9	92.5
60°	167.5	151.1	116.4	88.9	80.5	73.8	67.4	62.2	59.8	59.4	58.2
62.5°	108.5	98.5	76.6	59.4	53.0	48.2	41.9	38.3	36.7	35.1	35.5
65°	67.4	59.8	47.8	38.3	34.7	31.1	26.3	23.1	21.5	19.9	20.3
67.5°	41.9	37.5	30.3	24.7	22.3	19.5	15.9	13.6	12.4	11.2	10.4
70°	28.3	24.3	20.7	17.5	15.9	14.0	11.6	9.6	8.8	8.0	7.2
72.5°	19.9	17.9	15.2	13.2	12.0	10.4	8.8	7.6	6.8	6.0	5.2
75°	14.4	12.8	11.2	9.6	8.8	8.0	6.8	6.0	5.2	4.4	3.6
77.5°	10.4	9.2	8.0	7.2	6.8	5.6	4.8	4.4	4.0	3.2	2.4
80°	7.2	6.4	5.2	4.8	4.8	4.0	3.6	3.2	2.8	2.0	1.6
82.5°	4.8	4.4	4.0	3.6	3.2	2.8	2.8	2.0	1.6	1.2	0.8
85°	3.6	3.2	2.8	2.4	2.4	2.0	1.6	1.2	1.2	0.8	0.4
87.5°	2.0	2.0	1.6	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1531.1	1532.3	1539.1	1533.9	1547.1	1556.6	1551.9	1562.6	1559.0	1558.2	1570.6
5°	1541.5	1544.3	1553.5	1548.7	1563.0	1573.4	1568.6	1580.6	1577.0	1576.2	1588.9
7.5°	1561.4	1564.2	1572.2	1568.2	1583.4	1592.5	1586.5	1599.7	1594.9	1594.5	1606.9
10°	1586.5	1590.5	1597.3	1593.3	1607.3	1615.3	1609.3	1622.0	1617.7	1615.7	1629.2
12.5°	1605.3	1608.1	1614.9	1611.7	1625.2	1631.2	1626.0	1638.4	1632.8	1631.2	1643.2
15°	1600.9	1603.7	1609.3	1606.5	1619.2	1624.8	1618.0	1631.6	1626.0	1622.8	1633.6
17.5°	1573.0	1574.6	1578.6	1575.8	1589.3	1592.9	1585.4	1598.9	1593.7	1588.1	1598.5
20°	1531.9	1531.1	1533.5	1532.3	1543.5	1545.5	1540.7	1550.7	1544.7	1541.5	1547.5
22.5°	1480.9	1480.1	1481.7	1478.5	1489.7	1490.9	1483.7	1495.6	1489.7	1483.7	1493.6
25°	1424.3	1419.9	1419.1	1420.3	1427.9	1429.1	1421.5	1430.2	1422.7	1417.9	1427.5
27.5°	1354.5	1348.9	1347.7	1348.9	1356.5	1350.9	1344.5	1350.9	1343.3	1338.9	1344.9
30°	1268.4	1260.4	1256.8	1254.4	1262.4	1260.4	1245.6	1252.8	1240.8	1234.5	1238.9
32.5°	1152.3	1147.9	1138.4	1132.8	1140.4	1125.2	1116.0	1116.0	1111.3	1100.5	1102.9
35°	991.2	984.5	975.7	970.9	972.1	951.8	936.6	939.8	923.9	921.1	922.3
37.5°	787.5	776.3	773.1	763.2	765.6	747.6	726.9	727.3	718.9	710.1	707.3
40°	591.7	589.7	586.5	578.2	581.3	561.8	553.8	554.2	548.7	542.3	545.5
42.5°	457.3	451.0	449.0	446.2	447.0	443.8	433.4	434.6	429.8	428.2	426.6
45°	371.6	364.8	360.1	362.4	362.4	358.9	354.9	357.3	354.9	351.7	353.3
47.5°	306.2	299.8	297.5	297.1	299.8	297.5	293.5	294.3	293.9	292.7	291.9
50°	244.4	242.8	240.8	239.6	240.8	240.0	236.4	238.4	239.6	235.6	236.8
52.5°	186.2	186.2	185.8	183.0	185.4	183.0	182.6	183.4	182.2	180.6	180.2
55°	136.4	135.2	133.2	132.8	133.6	132.8	132.0	132.4	133.2	129.2	129.2
57.5°	93.3	92.5	91.3	91.3	92.9	90.9	89.7	91.3	89.7	88.1	88.1
60°	59.8	59.4	58.2	58.2	58.2	57.8	56.6	57.0	57.8	55.4	55.8
62.5°	35.9	34.7	34.3	33.9	34.3	33.9	33.9	33.5	33.1	33.1	31.9
65°	19.5	18.7	17.9	18.3	18.3	17.9	17.9	17.9	17.1	16.7	16.3
67.5°	10.0	9.2	9.2	8.8	8.8	8.8	8.8	8.4	8.4	8.4	8.0
70°	6.4	6.0	5.6	5.6	5.6	5.2	5.2	5.2	5.2	5.2	4.8
72.5°	4.4	4.0	3.6	3.6	3.6	3.2	3.2	3.2	3.2	2.8	2.8
75°	3.2	2.8	2.4	2.4	2.4	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	0.8
80°	1.2	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
82.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	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: P245451

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6	1517.6
2.5°	1566.2	1563.0	1565.0	1579.8	1573.4	1571.4	1554.7	1569.4
5°	1585.0	1582.6	1582.6	1599.3	1591.7	1590.1	1573.8	1586.5
7.5°	1602.5	1600.1	1600.5	1617.7	1611.7	1609.3	1592.9	1605.7
10°	1625.2	1623.6	1624.0	1640.4	1634.0	1631.6	1614.9	1628.0
12.5°	1638.8	1636.4	1636.4	1653.9	1646.8	1643.2	1627.2	1640.0
15°	1628.4	1624.8	1624.8	1642.4	1634.4	1629.2	1615.3	1627.2
17.5°	1592.9	1589.3	1589.3	1604.5	1598.5	1590.9	1576.6	1587.7
20°	1543.5	1539.1	1537.9	1555.4	1547.1	1540.3	1527.5	1538.3
22.5°	1487.7	1485.7	1482.1	1499.6	1492.1	1484.9	1471.3	1479.7
25°	1420.7	1417.5	1413.9	1431.0	1423.5	1416.3	1405.5	1412.3
27.5°	1337.3	1337.7	1335.7	1349.3	1341.7	1337.7	1324.6	1335.7
30°	1236.5	1232.1	1230.5	1246.4	1239.3	1234.1	1217.7	1228.5
32.5°	1104.9	1098.5	1090.1	1108.1	1095.7	1091.3	1077.4	1092.9
35°	913.5	911.5	903.9	919.1	912.3	904.3	895.5	908.7
37.5°	706.2	707.7	706.9	710.9	706.9	701.8	692.2	687.4
40°	539.1	535.1	531.9	539.1	530.7	530.7	525.1	531.1
42.5°	422.7	421.1	425.0	426.6	421.9	421.1	420.3	419.9
45°	348.9	348.9	349.7	351.3	349.7	348.9	346.5	344.9
47.5°	287.5	289.1	287.5	292.7	289.9	289.1	284.3	286.3
50°	232.9	230.9	232.9	234.5	234.9	232.5	230.1	231.3
52.5°	180.6	177.4	176.6	179.0	177.4	177.4	175.8	175.4
55°	127.2	128.4	126.4	128.4	127.6	126.4	125.2	126.8
57.5°	86.1	86.5	85.7	86.9	84.9	85.3	84.9	84.5
60°	55.8	54.2	54.2	55.4	53.4	53.4	53.0	53.0
62.5°	31.9	31.5	31.5	31.1	30.7	30.7	30.7	29.9
65°	16.3	15.9	15.6	15.6	15.6	15.6	15.2	15.2
67.5°	8.0	7.6	7.6	8.0	7.6	7.6	7.6	7.6
70°	4.8	4.8	4.4	4.8	4.4	4.4	4.4	4.4
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)