

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: P246045

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246045  
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 EC8B30835 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3066.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

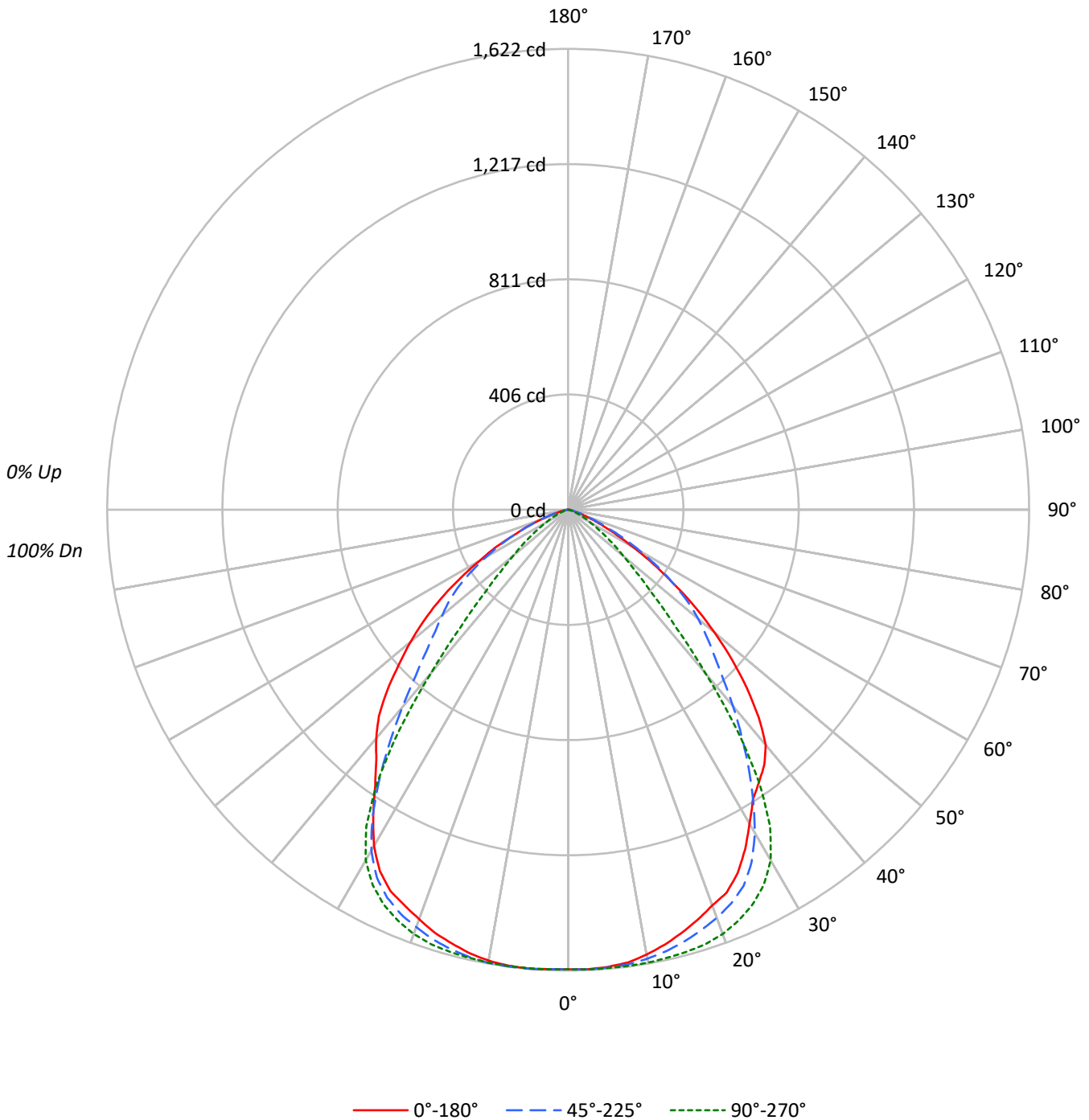
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	49884	49884	49884
5°	49994	50127	50183
10°	49783	50682	50462
15°	49230	51420	50453
20°	48639	52144	50322
25°	48008	52203	50373
30°	45420	50736	48664
35°	44063	44096	44552
40°	43519	30339	42295
45°	38777	18216	39305
50°	32243	12123	34742
55°	24182	8355	29456
60°	16386	5569	22227
65°	9887	3612	15272
70°	5482	1956	9395
75°	2478	822	4861
80°	2166	923	3392
85°	2441	1238	3397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	5.0
10°-20°	448.4	14.6
20°-30°	680.5	22.2
30°-40°	714.7	23.3
40°-50°	535.9	17.5
50°-60°	343.8	11.2
60°-70°	147.1	4.8
70°-80°	34.7	1.1
80°-90°	6.5	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°	1283.3	41.9
0°-40°	1998.0	65.2
0°-60°	2877.7	93.9
0°-90°	3066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1618	1618	1618	1618	1618	
5°	1615	1618	1619	1622	1621	153
15°	1542	1574	1611	1600	1580	435
25°	1411	1460	1534	1506	1480	645
35°	1170	1105	1171	1158	1184	735
45°	889	727	418	706	901	681
55°	450	450	155	469	548	408
65°	136	160	50	206	209	145
75°	21	24	7	42	41	30
85°	7	4	4	7	10	7
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°	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7
2.5°	1618.6	1620.3	1619.4	1619.4	1618.6	1619.4	1619.4	1621.2	1621.2	1619.4	1618.6
5°	1615.1	1616.8	1616.8	1615.1	1615.1	1619.4	1616.8	1618.6	1618.6	1617.7	1617.7
7.5°	1607.3	1607.3	1610.7	1608.1	1608.1	1610.7	1609.9	1611.6	1613.3	1614.2	1614.2
10°	1589.9	1591.6	1592.5	1592.5	1593.4	1596.0	1597.7	1601.2	1602.9	1604.7	1605.5
12.5°	1568.2	1570.8	1571.7	1570.8	1573.4	1576.9	1581.2	1585.6	1588.2	1591.6	1594.2
15°	1542.1	1542.1	1543.9	1546.5	1548.2	1553.4	1557.8	1563.0	1569.9	1574.3	1578.6
17.5°	1513.5	1515.2	1517.8	1517.8	1521.3	1530.0	1532.6	1540.4	1548.2	1552.6	1561.3
20°	1482.2	1484.0	1486.6	1488.3	1492.6	1499.6	1504.8	1511.7	1520.4	1528.3	1536.9
22.5°	1457.9	1454.4	1456.2	1457.9	1462.3	1468.3	1474.4	1483.1	1491.8	1499.6	1508.3
25°	1411.0	1411.9	1414.5	1416.2	1421.4	1426.7	1433.6	1444.0	1451.8	1460.5	1470.1
27.5°	1347.6	1348.5	1352.8	1352.8	1357.2	1365.9	1370.2	1378.9	1389.3	1398.0	1409.3
30°	1275.6	1277.3	1277.3	1280.8	1283.4	1287.7	1292.1	1300.7	1306.0	1313.8	1329.4
32.5°	1209.6	1211.3	1210.4	1209.6	1207.0	1206.1	1205.2	1207.0	1208.7	1211.3	1217.4
35°	1170.5	1166.2	1162.7	1156.6	1149.7	1141.0	1133.2	1122.7	1113.2	1105.4	1096.7
37.5°	1133.2	1132.3	1127.1	1118.4	1104.5	1088.9	1070.6	1048.1	1025.5	1001.2	977.7
40°	1081.1	1078.4	1074.1	1062.0	1046.3	1027.2	1002.9	975.1	938.6	901.3	863.1
42.5°	992.5	993.4	988.2	978.6	963.8	945.6	920.4	890.0	851.0	806.7	757.2
45°	889.2	889.2	887.4	879.6	869.2	854.4	835.3	810.1	771.9	726.8	673.8
47.5°	781.5	782.4	779.7	778.0	773.7	764.1	750.2	731.1	704.2	660.8	607.8
50°	672.1	672.1	676.4	675.6	675.6	672.1	666.0	654.7	631.3	596.5	547.1
52.5°	562.7	564.4	567.0	570.5	574.8	581.8	574.8	569.6	554.9	527.9	485.4
55°	449.8	451.5	455.9	461.9	467.2	474.1	475.8	475.8	468.0	449.8	417.7
57.5°	353.4	350.8	354.3	359.5	366.4	373.4	378.6	384.7	383.8	371.6	345.6
60°	265.7	266.6	269.2	274.4	279.6	285.7	292.6	297.8	300.4	294.4	277.9
62.5°	193.6	193.6	197.1	202.3	204.9	213.6	217.9	220.6	223.2	222.3	211.9
65°	135.5	137.2	138.9	141.5	144.1	149.3	152.0	157.2	158.9	159.8	152.0
67.5°	95.5	92.9	94.7	96.4	99.0	102.5	107.7	107.7	110.3	110.3	105.1
70°	60.8	60.8	61.7	64.2	66.0	66.9	68.6	70.3	72.9	72.1	72.1
72.5°	40.8	39.9	40.8	41.7	42.6	45.1	45.1	46.0	47.8	48.6	45.1
75°	20.8	21.7	23.4	22.6	25.2	23.4	24.3	26.9	26.0	24.3	24.3
77.5°	17.4	17.4	17.4	16.5	18.2	18.2	17.4	19.1	18.2	18.2	17.4
80°	12.2	13.0	12.2	11.3	12.2	11.3	11.3	11.3	11.3	11.3	10.4
82.5°	9.6	7.8	8.7	7.8	8.7	8.7	7.8	6.9	6.9	7.8	6.9
85°	6.9	5.2	6.1	6.1	5.2	5.2	5.2	5.2	5.2	4.3	4.3
87.5°	4.3	2.6	2.6	2.6	3.5	3.5	3.5	2.6	3.5	3.5	1.7
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°	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7
2.5°	1620.3	1619.4	1621.2	1620.3	1620.3	1619.4	1620.3	1619.4	1621.2	1617.7	1618.6
5°	1620.3	1618.6	1619.4	1620.3	1621.2	1619.4	1619.4	1619.4	1621.2	1619.4	1620.3
7.5°	1616.8	1615.9	1618.6	1620.3	1619.4	1618.6	1620.3	1619.4	1621.2	1620.3	1622.0
10°	1609.9	1610.7	1612.5	1615.1	1615.9	1616.8	1618.6	1618.6	1621.2	1617.7	1619.4
12.5°	1599.5	1602.9	1607.3	1609.0	1612.5	1612.5	1614.2	1615.1	1616.8	1615.9	1618.6
15°	1586.4	1590.8	1596.0	1600.3	1604.7	1607.3	1609.9	1610.7	1613.3	1610.7	1611.6
17.5°	1570.8	1576.0	1583.8	1589.0	1596.0	1598.6	1602.0	1603.8	1606.4	1604.7	1605.5
20°	1549.1	1555.2	1563.8	1571.7	1576.0	1582.1	1586.4	1589.0	1590.8	1589.0	1589.9
22.5°	1518.7	1527.4	1538.7	1544.7	1553.4	1558.6	1559.5	1565.6	1569.9	1565.6	1567.3
25°	1483.1	1491.8	1500.5	1513.5	1521.3	1527.4	1533.5	1534.3	1538.7	1537.8	1536.9
27.5°	1424.0	1435.3	1450.1	1460.5	1470.9	1480.5	1487.4	1489.2	1493.5	1491.8	1492.6
30°	1343.3	1355.5	1369.4	1385.8	1400.6	1410.1	1418.8	1424.9	1429.2	1426.7	1425.8
32.5°	1228.7	1240.8	1255.6	1272.1	1289.5	1303.3	1313.8	1321.6	1326.8	1325.1	1320.7
35°	1097.6	1101.0	1110.6	1123.6	1138.4	1153.1	1162.7	1171.4	1177.4	1179.2	1179.2
37.5°	963.0	951.7	944.7	944.7	953.4	959.5	968.2	973.4	982.9	986.4	989.0
40°	832.7	806.7	782.4	764.1	752.0	751.1	751.1	753.7	762.4	773.7	784.1
42.5°	716.4	674.7	637.4	603.5	579.2	565.3	559.2	560.1	567.0	577.4	594.8
45°	623.5	571.4	524.5	483.7	450.7	428.9	418.5	417.7	422.9	435.0	454.1
47.5°	551.4	495.8	442.8	395.9	360.4	336.9	324.8	321.3	324.8	336.0	358.6
50°	491.5	434.2	379.5	330.8	292.6	268.3	257.0	252.7	257.0	266.6	289.1
52.5°	435.9	376.8	325.6	278.7	237.9	217.1	204.9	202.3	204.9	216.2	234.5
55°	371.6	321.3	270.9	224.0	188.4	167.6	158.0	155.4	158.0	168.5	187.6
57.5°	308.3	264.8	220.6	178.0	147.6	129.4	120.7	117.2	123.3	130.2	152.8
60°	249.2	214.5	177.1	139.8	114.6	98.1	91.2	90.3	92.0	100.7	116.3
62.5°	195.4	166.7	137.2	106.8	86.0	79.0	70.3	69.5	71.2	76.4	88.6
65°	140.7	122.4	99.9	78.1	61.7	52.1	48.6	49.5	51.2	54.7	66.0
67.5°	98.1	85.1	69.5	54.7	42.6	38.2	34.7	33.9	34.7	40.8	46.9
70°	66.0	58.2	46.9	41.7	29.5	23.4	24.3	21.7	25.2	25.2	30.4
72.5°	43.4	38.2	31.3	24.3	20.8	16.5	16.5	15.6	17.4	18.2	22.6
75°	22.6	17.4	17.4	12.2	8.7	4.3	7.8	6.9	6.1	6.9	8.7
77.5°	15.6	13.0	12.2	9.6	8.7	6.9	6.9	6.9	6.9	7.8	8.7
80°	9.6	9.6	6.9	6.1	5.2	4.3	5.2	5.2	5.2	5.2	6.1
82.5°	6.1	5.2	5.2	4.3	4.3	3.5	3.5	3.5	3.5	3.5	5.2
85°	5.2	3.5	3.5	2.6	3.5	6.1	2.6	3.5	3.5	3.5	2.6
87.5°	1.7	2.6	2.6	2.6	1.7	0.9	1.7	2.6	2.6	4.3	3.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7
2.5°	1620.3	1621.2	1621.2	1620.3	1620.3	1618.6	1622.0	1619.4	1620.3	1623.8	1621.2
5°	1622.0	1622.9	1622.9	1622.0	1622.0	1622.0	1622.9	1622.9	1622.0	1621.2	1622.9
7.5°	1625.5	1624.6	1624.6	1622.9	1622.9	1621.2	1622.9	1620.3	1622.0	1620.3	1622.9
10°	1621.2	1622.0	1621.2	1620.3	1620.3	1619.4	1619.4	1616.8	1617.7	1615.1	1616.8
12.5°	1618.6	1617.7	1617.7	1615.9	1614.2	1612.5	1611.6	1609.0	1609.0	1602.9	1605.5
15°	1611.6	1612.5	1609.9	1606.4	1604.7	1600.3	1598.6	1595.1	1591.6	1587.3	1588.2
17.5°	1605.5	1602.9	1599.5	1596.0	1589.0	1585.6	1582.1	1576.9	1575.1	1569.9	1568.2
20°	1587.3	1585.6	1581.2	1575.1	1570.8	1563.0	1559.5	1554.3	1549.9	1544.7	1542.1
22.5°	1563.8	1562.1	1556.9	1550.8	1543.9	1540.4	1536.9	1527.4	1523.0	1517.8	1517.0
25°	1534.3	1531.7	1526.5	1519.6	1516.1	1506.5	1503.1	1496.1	1494.4	1489.2	1488.3
27.5°	1489.2	1485.7	1479.6	1470.9	1464.9	1458.8	1455.3	1450.1	1448.4	1443.1	1442.3
30°	1421.4	1417.1	1404.9	1401.5	1391.0	1385.0	1385.0	1378.0	1378.9	1375.4	1375.4
32.5°	1314.6	1307.7	1298.1	1291.2	1284.2	1280.8	1280.8	1278.2	1279.9	1279.9	1281.6
35°	1173.1	1163.6	1158.3	1154.0	1154.0	1157.5	1167.9	1170.5	1175.7	1180.0	1183.5
37.5°	991.6	990.8	996.8	1002.0	1015.1	1029.8	1048.1	1063.7	1078.4	1088.9	1099.3
40°	795.4	817.1	834.5	858.8	878.7	907.4	940.4	967.3	992.5	1010.7	1029.8
42.5°	620.8	648.6	685.1	720.7	756.3	795.4	838.8	876.1	909.1	934.3	954.3
45°	483.7	521.9	566.2	611.3	657.3	706.0	751.1	789.3	824.0	850.1	870.1
47.5°	389.9	431.6	481.9	531.4	583.5	634.7	685.1	718.1	746.7	767.6	785.8
50°	322.1	366.4	419.4	475.8	527.9	579.2	622.6	654.7	678.2	696.4	707.7
52.5°	269.2	316.1	372.5	428.9	481.0	527.9	567.0	591.3	610.4	623.5	633.9
55°	222.3	267.4	320.4	373.4	424.6	468.9	501.0	519.3	534.0	541.8	547.9
57.5°	181.5	223.2	271.8	320.4	364.7	401.2	426.4	444.6	451.5	457.6	456.7
60°	142.4	181.5	225.8	267.4	305.7	335.2	353.4	363.8	369.0	371.6	369.9
62.5°	112.0	147.6	181.5	217.9	245.7	270.9	288.3	288.3	290.9	291.8	294.4
65°	83.4	110.3	139.8	166.7	189.3	205.8	215.4	217.9	221.4	220.6	218.8
67.5°	61.7	81.6	103.3	123.3	138.9	149.3	156.3	162.4	161.5	159.8	158.9
70°	42.6	55.6	74.7	86.8	98.1	108.5	110.3	111.1	112.0	112.9	111.1
72.5°	29.5	39.1	49.5	59.9	66.9	71.2	75.6	76.4	76.4	76.4	75.6
75°	14.8	20.0	29.5	33.9	39.9	41.7	45.1	45.1	47.8	44.3	43.4
77.5°	13.0	15.6	20.8	24.3	26.9	29.5	30.4	33.0	32.1	30.4	31.3
80°	7.8	9.6	13.0	14.8	18.2	19.1	20.0	20.8	20.0	20.8	20.8
82.5°	6.1	6.9	8.7	8.7	11.3	11.3	12.2	12.2	13.0	13.0	13.0
85°	3.5	6.1	5.2	10.4	6.9	6.9	8.7	10.4	8.7	8.7	10.4
87.5°	3.5	3.5	2.6	3.5	3.5	3.5	4.3	5.2	5.2	6.1	5.2
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: P246045

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1617.7	1617.7	1617.7	1617.7
2.5°	1620.3	1622.0	1619.4	1618.6
5°	1622.9	1622.9	1621.2	1621.2
7.5°	1622.9	1622.9	1620.3	1618.6
10°	1615.9	1615.9	1613.3	1611.6
12.5°	1602.9	1602.9	1602.0	1599.5
15°	1586.4	1586.4	1582.9	1580.4
17.5°	1563.8	1565.6	1561.3	1561.3
20°	1539.5	1538.7	1535.2	1533.5
22.5°	1514.4	1512.6	1511.7	1506.5
25°	1487.4	1485.7	1483.1	1480.5
27.5°	1441.4	1440.6	1437.9	1434.5
30°	1371.1	1370.2	1366.7	1366.7
32.5°	1279.9	1279.0	1275.6	1276.4
35°	1185.3	1188.7	1187.0	1183.5
37.5°	1106.2	1108.9	1110.6	1108.9
40°	1040.2	1048.1	1048.9	1050.7
42.5°	969.9	980.3	983.8	985.5
45°	885.7	895.2	903.1	901.3
47.5°	799.7	806.7	813.6	808.4
50°	717.2	721.6	724.2	724.2
52.5°	639.1	639.1	638.2	639.1
55°	549.6	549.6	546.2	547.9
57.5°	455.9	457.6	455.0	450.7
60°	369.0	364.7	363.0	360.4
62.5°	287.4	287.4	281.3	289.1
65°	215.4	212.7	210.1	209.3
67.5°	156.3	155.4	152.8	152.0
70°	110.3	106.8	105.9	104.2
72.5°	73.8	73.8	72.1	72.1
75°	45.1	40.8	39.9	40.8
77.5°	31.3	30.4	30.4	29.5
80°	20.8	20.0	21.7	19.1
82.5°	13.0	13.9	13.0	13.9
85°	8.7	10.4	9.6	9.6
87.5°	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)