

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: P245025

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245025  
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 EC8B30827 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2927.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 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

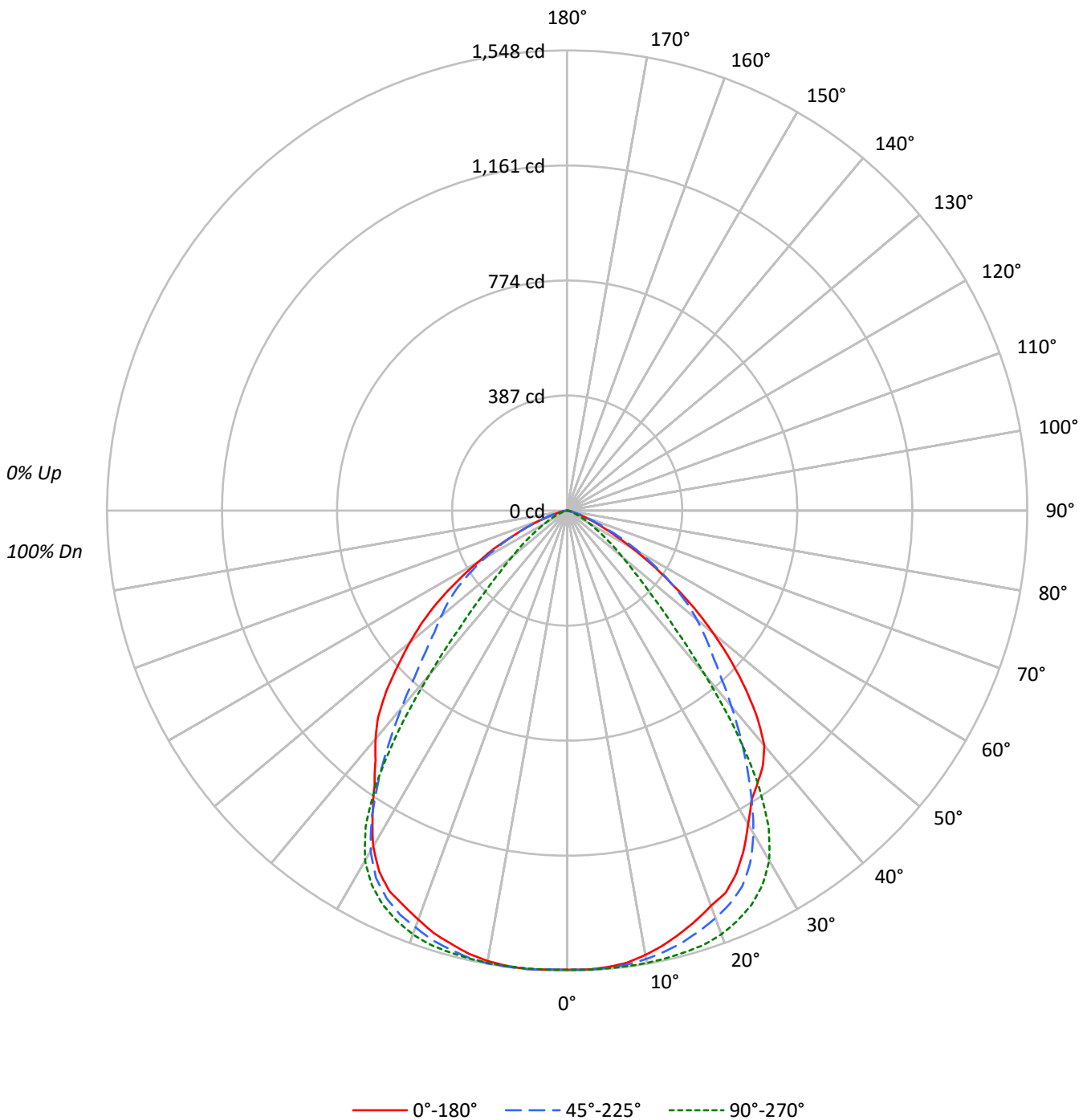
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**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°	47621	47621	47621
5°	47725	47855	47908
10°	47525	48383	48174
15°	46999	49090	48164
20°	46434	49781	48038
25°	45830	49839	48090
30°	43358	48436	46460
35°	42064	42097	42534
40°	41542	28963	40375
45°	37020	17387	37526
50°	30779	11571	33168
55°	23085	7978	28123
60°	15646	5316	21215
65°	9434	3451	14578
70°	5229	1866	8971
75°	2371	786	4647
80°	2060	888	3232
85°	2335	1168	3220



TEST NUMBER: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	5.0
10°-20°	428.0	14.6
20°-30°	649.7	22.2
30°-40°	682.3	23.3
40°-50°	511.6	17.5
50°-60°	328.2	11.2
60°-70°	140.4	4.8
70°-80°	33.2	1.1
80°-90°	6.2	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°	1225.1	41.9
0°-40°	1907.4	65.2
0°-60°	2747.2	93.9
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1544	1544	1544	1544	1544	
5°	1542	1544	1546	1548	1548	146
15°	1472	1503	1538	1528	1509	415
25°	1347	1394	1465	1438	1413	615
35°	1117	1055	1118	1105	1130	701
45°	849	694	399	674	860	650
55°	429	429	148	448	523	390
65°	129	152	47	196	200	138
75°	20	23	7	40	39	29
85°	7	4	3	7	9	7
90°	0	0	0	0	0	



TEST NUMBER: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3
2.5°	1545.2	1546.8	1546.0	1546.0	1545.2	1546.0	1546.0	1547.7	1547.7	1546.0	1545.2
5°	1541.8	1543.5	1543.5	1541.8	1541.8	1546.0	1543.5	1545.2	1545.2	1544.3	1544.3
7.5°	1534.4	1534.4	1537.7	1535.2	1535.2	1537.7	1536.9	1538.5	1540.2	1541.0	1541.0
10°	1517.8	1519.5	1520.3	1520.3	1521.1	1523.6	1525.3	1528.6	1530.2	1531.9	1532.7
12.5°	1497.1	1499.6	1500.4	1499.6	1502.1	1505.4	1509.5	1513.7	1516.2	1519.5	1522.0
15°	1472.2	1472.2	1473.9	1476.4	1478.0	1483.0	1487.1	1492.1	1498.7	1502.9	1507.0
17.5°	1444.9	1446.5	1449.0	1449.0	1452.3	1460.6	1463.1	1470.6	1478.0	1482.2	1490.5
20°	1415.0	1416.7	1419.2	1420.8	1425.0	1431.6	1436.6	1443.2	1451.5	1459.0	1467.2
22.5°	1391.8	1388.5	1390.2	1391.8	1396.0	1401.8	1407.6	1415.8	1424.1	1431.6	1439.9
25°	1347.0	1347.9	1350.4	1352.0	1357.0	1362.0	1368.6	1378.5	1386.0	1394.3	1403.4
27.5°	1286.5	1287.4	1291.5	1291.5	1295.7	1303.9	1308.1	1316.4	1326.3	1334.6	1345.4
30°	1217.7	1219.4	1219.4	1222.7	1225.2	1229.3	1233.5	1241.8	1246.7	1254.2	1269.1
32.5°	1154.7	1156.4	1155.6	1154.7	1152.2	1151.4	1150.6	1152.2	1153.9	1156.4	1162.2
35°	1117.4	1113.3	1110.0	1104.2	1097.5	1089.2	1081.8	1071.8	1062.7	1055.3	1047.0
37.5°	1081.8	1081.0	1076.0	1067.7	1054.4	1039.5	1022.1	1000.6	979.0	955.8	933.4
40°	1032.0	1029.6	1025.4	1013.8	998.9	980.7	957.4	930.9	896.1	860.5	824.0
42.5°	947.5	948.3	943.4	934.2	920.1	902.7	878.7	849.7	812.4	770.1	722.9
45°	848.9	848.9	847.2	839.7	829.8	815.7	797.5	773.4	736.9	693.8	643.3
47.5°	746.1	746.9	744.4	742.8	738.6	729.5	716.2	698.0	672.3	630.8	580.3
50°	641.6	641.6	645.8	644.9	644.9	641.6	635.8	625.0	602.7	569.5	522.3
52.5°	537.2	538.8	541.3	544.6	548.8	555.4	548.8	543.8	529.7	504.0	463.4
55°	429.4	431.1	435.2	441.0	446.0	452.6	454.3	454.3	446.8	429.4	398.7
57.5°	337.4	334.9	338.2	343.2	349.8	356.5	361.4	367.2	366.4	354.8	329.9
60°	253.7	254.5	257.0	262.0	266.9	272.7	279.4	284.3	286.8	281.0	265.3
62.5°	184.9	184.9	188.2	193.1	195.6	203.9	208.1	210.6	213.0	212.2	202.3
65°	129.3	131.0	132.6	135.1	137.6	142.6	145.1	150.0	151.7	152.5	145.1
67.5°	91.2	88.7	90.4	92.0	94.5	97.8	102.8	102.8	105.3	105.3	100.3
70°	58.0	58.0	58.9	61.3	63.0	63.8	65.5	67.1	69.6	68.8	68.8
72.5°	39.0	38.1	39.0	39.8	40.6	43.1	43.1	43.9	45.6	46.4	43.1
75°	19.9	20.7	22.4	21.6	24.0	22.4	23.2	25.7	24.9	23.2	23.2
77.5°	16.6	16.6	16.6	15.8	17.4	17.4	16.6	18.2	17.4	17.4	16.6
80°	11.6	12.4	11.6	10.8	11.6	10.8	10.8	10.8	10.8	10.8	9.9
82.5°	9.1	7.5	8.3	7.5	8.3	8.3	7.5	6.6	6.6	7.5	6.6
85°	6.6	5.0	5.8	5.8	5.0	5.0	5.0	5.0	5.0	4.1	4.1
87.5°	4.1	2.5	2.5	2.5	3.3	3.3	3.3	2.5	3.3	3.3	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



TEST NUMBER: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3
2.5°	1546.8	1546.0	1547.7	1546.8	1546.8	1546.0	1546.8	1546.0	1547.7	1544.3	1545.2
5°	1546.8	1545.2	1546.0	1546.8	1547.7	1546.0	1546.0	1546.0	1547.7	1546.0	1546.8
7.5°	1543.5	1542.7	1545.2	1546.8	1546.0	1545.2	1546.8	1546.0	1547.7	1546.8	1548.5
10°	1536.9	1537.7	1539.4	1541.8	1542.7	1543.5	1545.2	1545.2	1547.7	1544.3	1546.0
12.5°	1526.9	1530.2	1534.4	1536.0	1539.4	1539.4	1541.0	1541.8	1543.5	1542.7	1545.2
15°	1514.5	1518.6	1523.6	1527.8	1531.9	1534.4	1536.9	1537.7	1540.2	1537.7	1538.5
17.5°	1499.6	1504.5	1512.0	1517.0	1523.6	1526.1	1529.4	1531.1	1533.6	1531.9	1532.7
20°	1478.8	1484.7	1492.9	1500.4	1504.5	1510.3	1514.5	1517.0	1518.6	1517.0	1517.8
22.5°	1449.8	1458.1	1468.9	1474.7	1483.0	1488.0	1488.8	1494.6	1498.7	1494.6	1496.3
25°	1415.8	1424.1	1432.4	1444.9	1452.3	1458.1	1463.9	1464.8	1468.9	1468.1	1467.2
27.5°	1359.5	1370.3	1384.3	1394.3	1404.2	1413.4	1420.0	1421.7	1425.8	1424.1	1425.0
30°	1282.4	1294.0	1307.3	1323.0	1337.1	1346.2	1354.5	1360.3	1364.5	1362.0	1361.1
32.5°	1173.0	1184.6	1198.7	1214.4	1231.0	1244.3	1254.2	1261.7	1266.6	1265.0	1260.8
35°	1047.8	1051.1	1060.2	1072.7	1086.8	1100.9	1110.0	1118.3	1124.1	1125.7	1125.7
37.5°	919.3	908.5	901.9	901.9	910.2	916.0	924.3	929.3	938.4	941.7	944.2
40°	795.0	770.1	746.9	729.5	717.9	717.1	717.1	719.5	727.8	738.6	748.6
42.5°	683.9	644.1	608.5	576.1	552.9	539.7	533.9	534.7	541.3	551.3	567.8
45°	595.2	545.5	500.7	461.7	430.2	409.5	399.6	398.7	403.7	415.3	433.6
47.5°	526.4	473.3	422.8	378.0	344.0	321.6	310.0	306.7	310.0	320.8	342.4
50°	469.2	414.5	362.3	315.8	279.4	256.2	245.4	241.2	245.4	254.5	276.0
52.5°	416.1	359.8	310.9	266.1	227.1	207.2	195.6	193.1	195.6	206.4	223.8
55°	354.8	306.7	258.6	213.9	179.9	160.0	150.9	148.4	150.9	160.8	179.1
57.5°	294.3	252.8	210.6	169.9	140.9	123.5	115.2	111.9	117.7	124.3	145.9
60°	237.9	204.8	169.1	133.5	109.4	93.7	87.0	86.2	87.9	96.2	111.1
62.5°	186.5	159.2	131.0	102.0	82.1	75.4	67.1	66.3	68.0	72.9	84.6
65°	134.3	116.9	95.3	74.6	58.9	49.7	46.4	47.3	48.9	52.2	63.0
67.5°	93.7	81.2	66.3	52.2	40.6	36.5	33.2	32.3	33.2	39.0	44.8
70°	63.0	55.5	44.8	39.8	28.2	22.4	23.2	20.7	24.0	24.0	29.0
72.5°	41.4	36.5	29.8	23.2	19.9	15.8	15.8	14.9	16.6	17.4	21.6
75°	21.6	16.6	16.6	11.6	8.3	4.1	7.5	6.6	5.8	6.6	8.3
77.5°	14.9	12.4	11.6	9.1	8.3	6.6	6.6	6.6	6.6	7.5	8.3
80°	9.1	9.1	6.6	5.8	5.0	4.1	5.0	5.0	5.0	5.0	5.8
82.5°	5.8	5.0	5.0	4.1	4.1	3.3	3.3	3.3	3.3	3.3	5.0
85°	5.0	3.3	3.3	2.5	3.3	5.8	2.5	3.3	3.3	3.3	2.5
87.5°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	2.5	2.5	4.1	3.3
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: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3	1544.3
2.5°	1546.8	1547.7	1547.7	1546.8	1546.8	1545.2	1548.5	1546.0	1546.8	1550.1	1547.7
5°	1548.5	1549.3	1549.3	1548.5	1548.5	1548.5	1549.3	1549.3	1548.5	1547.7	1549.3
7.5°	1551.8	1551.0	1551.0	1549.3	1549.3	1547.7	1549.3	1546.8	1548.5	1546.8	1549.3
10°	1547.7	1548.5	1547.7	1546.8	1546.8	1546.0	1546.0	1543.5	1544.3	1541.8	1543.5
12.5°	1545.2	1544.3	1544.3	1542.7	1541.0	1539.4	1538.5	1536.0	1536.0	1530.2	1532.7
15°	1538.5	1539.4	1536.9	1533.6	1531.9	1527.8	1526.1	1522.8	1519.5	1515.3	1516.2
17.5°	1532.7	1530.2	1526.9	1523.6	1517.0	1513.7	1510.3	1505.4	1503.7	1498.7	1497.1
20°	1515.3	1513.7	1509.5	1503.7	1499.6	1492.1	1488.8	1483.8	1479.7	1474.7	1472.2
22.5°	1492.9	1491.3	1486.3	1480.5	1473.9	1470.6	1467.2	1458.1	1454.0	1449.0	1448.2
25°	1464.8	1462.3	1457.3	1450.7	1447.3	1438.2	1434.9	1428.3	1426.6	1421.7	1420.8
27.5°	1421.7	1418.3	1412.5	1404.2	1398.4	1392.6	1389.3	1384.3	1382.7	1377.7	1376.9
30°	1357.0	1352.8	1341.2	1337.9	1328.0	1322.2	1322.2	1315.5	1316.4	1313.1	1313.1
32.5°	1255.0	1248.4	1239.3	1232.7	1226.0	1222.7	1222.7	1220.2	1221.9	1221.9	1223.5
35°	1119.9	1110.8	1105.8	1101.7	1101.7	1105.0	1114.9	1117.4	1122.4	1126.5	1129.9
37.5°	946.7	945.8	951.6	956.6	969.1	983.1	1000.6	1015.5	1029.6	1039.5	1049.5
40°	759.3	780.1	796.6	819.8	838.9	866.3	897.8	923.5	947.5	964.9	983.1
42.5°	592.7	619.2	654.1	688.0	722.0	759.3	800.8	836.4	867.9	892.0	911.0
45°	461.7	498.2	540.5	583.6	627.5	673.9	717.1	753.5	786.7	811.6	830.6
47.5°	372.2	412.0	460.1	507.3	557.1	606.0	654.1	685.6	712.9	732.8	750.2
50°	307.5	349.8	400.4	454.3	504.0	552.9	594.4	625.0	647.4	664.8	675.6
52.5°	257.0	301.7	355.6	409.5	459.2	504.0	541.3	564.5	582.8	595.2	605.1
55°	212.2	255.3	305.9	356.5	405.4	447.6	478.3	495.7	509.8	517.3	523.1
57.5°	173.3	213.0	259.5	305.9	348.2	383.0	407.0	424.4	431.1	436.9	436.0
60°	136.0	173.3	215.5	255.3	291.8	320.0	337.4	347.3	352.3	354.8	353.1
62.5°	106.9	140.9	173.3	208.1	234.6	258.6	275.2	275.2	277.7	278.5	281.0
65°	79.6	105.3	133.5	159.2	180.7	196.5	205.6	208.1	211.4	210.6	208.9
67.5°	58.9	77.9	98.6	117.7	132.6	142.6	149.2	155.0	154.2	152.5	151.7
70°	40.6	53.1	71.3	82.9	93.7	103.6	105.3	106.1	106.9	107.8	106.1
72.5°	28.2	37.3	47.3	57.2	63.8	68.0	72.1	72.9	72.9	72.9	72.1
75°	14.1	19.1	28.2	32.3	38.1	39.8	43.1	43.1	45.6	42.3	41.4
77.5°	12.4	14.9	19.9	23.2	25.7	28.2	29.0	31.5	30.7	29.0	29.8
80°	7.5	9.1	12.4	14.1	17.4	18.2	19.1	19.9	19.1	19.9	19.9
82.5°	5.8	6.6	8.3	8.3	10.8	10.8	11.6	11.6	12.4	12.4	12.4
85°	3.3	5.8	5.0	9.9	6.6	6.6	8.3	9.9	8.3	8.3	9.9
87.5°	3.3	3.3	2.5	3.3	3.3	3.3	4.1	5.0	5.0	5.8	5.0
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: P245025

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1544.3	1544.3	1544.3	1544.3
2.5°	1546.8	1548.5	1546.0	1545.2
5°	1549.3	1549.3	1547.7	1547.7
7.5°	1549.3	1549.3	1546.8	1545.2
10°	1542.7	1542.7	1540.2	1538.5
12.5°	1530.2	1530.2	1529.4	1526.9
15°	1514.5	1514.5	1511.2	1508.7
17.5°	1492.9	1494.6	1490.5	1490.5
20°	1469.7	1468.9	1465.6	1463.9
22.5°	1445.7	1444.0	1443.2	1438.2
25°	1420.0	1418.3	1415.8	1413.4
27.5°	1376.1	1375.2	1372.7	1369.4
30°	1308.9	1308.1	1304.8	1304.8
32.5°	1221.9	1221.0	1217.7	1218.6
35°	1131.5	1134.8	1133.2	1129.9
37.5°	1056.1	1058.6	1060.2	1058.6
40°	993.1	1000.6	1001.4	1003.0
42.5°	925.9	935.9	939.2	940.9
45°	845.5	854.7	862.1	860.5
47.5°	763.5	770.1	776.7	771.8
50°	684.7	688.9	691.4	691.4
52.5°	610.1	610.1	609.3	610.1
55°	524.7	524.7	521.4	523.1
57.5°	435.2	436.9	434.4	430.2
60°	352.3	348.2	346.5	344.0
62.5°	274.4	274.4	268.6	276.0
65°	205.6	203.1	200.6	199.8
67.5°	149.2	148.4	145.9	145.1
70°	105.3	102.0	101.1	99.5
72.5°	70.5	70.5	68.8	68.8
75°	43.1	39.0	38.1	39.0
77.5°	29.8	29.0	29.0	28.2
80°	19.9	19.1	20.7	18.2
82.5°	12.4	13.3	12.4	13.3
85°	8.3	9.9	9.1	9.1
87.5°	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)