

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: P246123

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246123  
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 EC8B30840 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2757.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

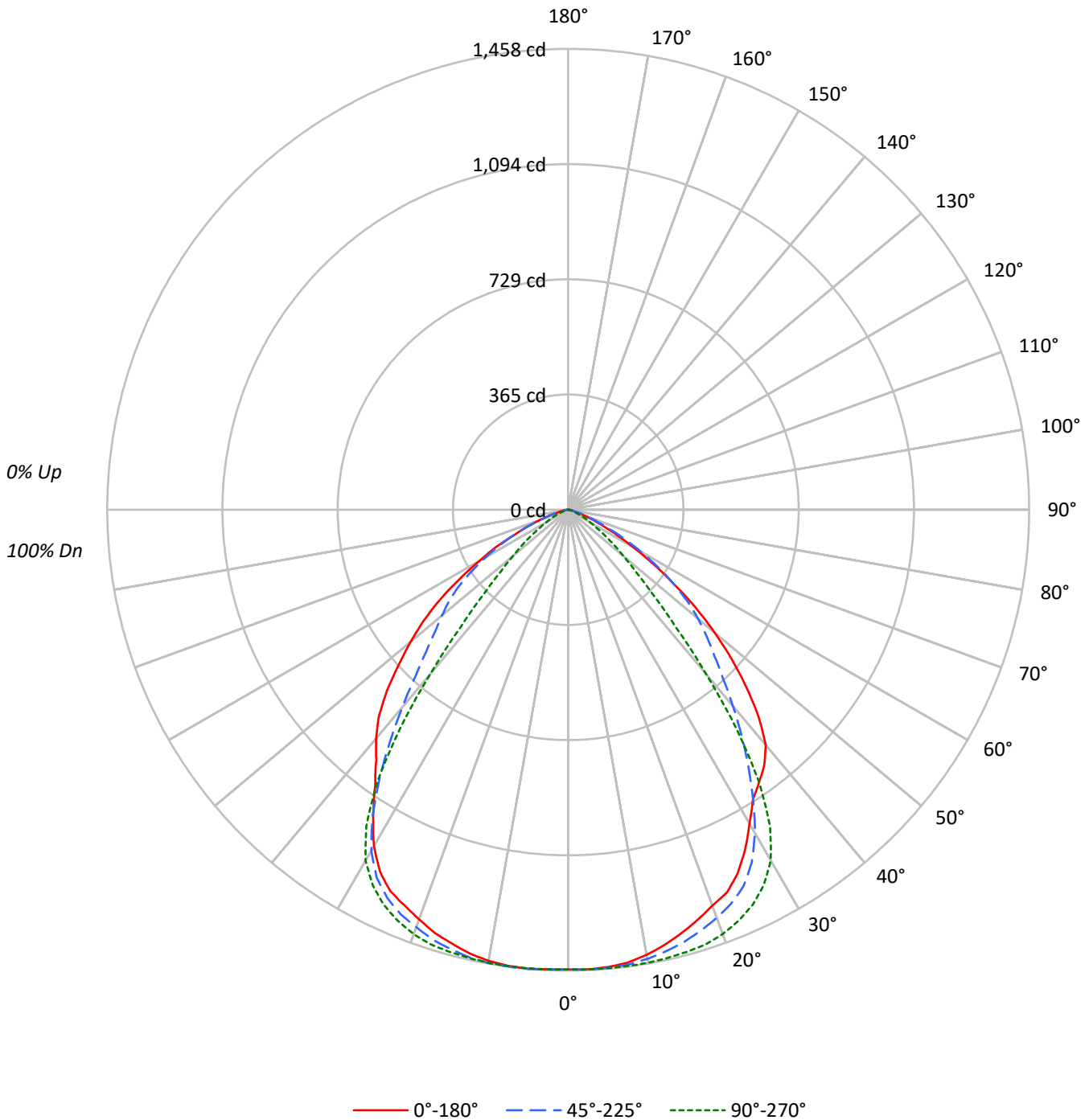
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	44855	44855	44855
5°	44955	45075	45125
10°	44767	45572	45377
15°	44269	46239	45367
20°	43740	46890	45249
25°	43170	46943	45296
30°	40841	45623	43761
35°	39621	39651	40065
40°	39131	27280	38032
45°	34870	16380	35345
50°	28995	10899	31240
55°	21747	7516	26488
60°	14734	5008	19982
65°	8887	3247	13732
70°	4932	1758	8448
75°	2228	739	4373
80°	1936	835	3054
85°	2194	1097	3043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	5.0
10°-20°	403.2	14.6
20°-30°	611.9	22.2
30°-40°	642.7	23.3
40°-50°	481.9	17.5
50°-60°	309.2	11.2
60°-70°	132.3	4.8
70°-80°	31.2	1.1
80°-90°	5.8	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°	1153.9	41.9
0°-40°	1796.6	65.2
0°-60°	2587.7	93.9
0°-90°	2757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1455	1455	1455	1455	1455	
5°	1452	1455	1456	1458	1458	138
15°	1387	1416	1448	1439	1421	391
25°	1269	1313	1380	1355	1331	580
35°	1052	994	1053	1041	1064	661
45°	800	654	376	635	810	612
55°	404	404	140	422	493	367
65°	122	144	44	185	188	130
75°	19	22	6	38	37	27
85°	6	4	3	6	9	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°	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6
2.5°	1455.4	1457.0	1456.2	1456.2	1455.4	1456.2	1456.2	1457.8	1457.8	1456.2	1455.4
5°	1452.3	1453.9	1453.9	1452.3	1452.3	1456.2	1453.9	1455.4	1455.4	1454.6	1454.6
7.5°	1445.3	1445.3	1448.4	1446.1	1446.1	1448.4	1447.6	1449.2	1450.7	1451.5	1451.5
10°	1429.7	1431.2	1432.0	1432.0	1432.8	1435.1	1436.7	1439.8	1441.4	1442.9	1443.7
12.5°	1410.2	1412.5	1413.3	1412.5	1414.8	1417.9	1421.9	1425.8	1428.1	1431.2	1433.6
15°	1386.7	1386.7	1388.3	1390.6	1392.2	1396.9	1400.8	1405.5	1411.7	1415.6	1419.5
17.5°	1361.0	1362.5	1364.9	1364.9	1368.0	1375.8	1378.1	1385.2	1392.2	1396.1	1403.9
20°	1332.9	1334.4	1336.7	1338.3	1342.2	1348.5	1353.1	1359.4	1367.2	1374.2	1382.0
22.5°	1311.0	1307.9	1309.4	1311.0	1314.9	1320.4	1325.8	1333.6	1341.4	1348.5	1356.3
25°	1268.8	1269.6	1271.9	1273.5	1278.2	1282.9	1289.1	1298.5	1305.5	1313.3	1321.9
27.5°	1211.8	1212.6	1216.5	1216.5	1220.4	1228.2	1232.1	1239.9	1249.3	1257.1	1267.3
30°	1147.0	1148.6	1148.6	1151.7	1154.0	1157.9	1161.8	1169.7	1174.3	1181.4	1195.4
32.5°	1087.7	1089.2	1088.4	1087.7	1085.3	1084.5	1083.8	1085.3	1086.9	1089.2	1094.7
35°	1052.5	1048.6	1045.5	1040.0	1033.8	1026.0	1019.0	1009.6	1001.0	994.0	986.2
37.5°	1019.0	1018.2	1013.5	1005.7	993.2	979.1	962.7	942.4	922.1	900.3	879.2
40°	972.1	969.8	965.9	954.9	940.9	923.7	901.8	876.9	844.0	810.5	776.1
42.5°	892.5	893.2	888.6	880.0	866.7	850.3	827.7	800.3	765.2	725.4	680.9
45°	799.6	799.6	798.0	791.0	781.6	768.3	751.1	728.5	694.1	653.5	605.9
47.5°	702.7	703.5	701.2	699.6	695.7	687.1	674.6	657.4	633.2	594.2	546.6
50°	604.4	604.4	608.3	607.5	607.5	604.4	598.9	588.7	567.7	536.4	491.9
52.5°	506.0	507.5	509.9	513.0	516.9	523.1	516.9	512.2	498.9	474.7	436.5
55°	404.5	406.0	409.9	415.4	420.1	426.3	427.9	427.9	420.8	404.5	375.6
57.5°	317.8	315.4	318.6	323.3	329.5	335.8	340.4	345.9	345.1	334.2	310.8
60°	238.9	239.7	242.0	246.7	251.4	256.9	263.1	267.8	270.2	264.7	249.9
62.5°	174.1	174.1	177.2	181.9	184.3	192.1	196.0	198.3	200.7	199.9	190.5
65°	121.8	123.4	124.9	127.3	129.6	134.3	136.6	141.3	142.9	143.7	136.6
67.5°	85.9	83.5	85.1	86.7	89.0	92.1	96.8	96.8	99.2	99.2	94.5
70°	54.7	54.7	55.4	57.8	59.3	60.1	61.7	63.2	65.6	64.8	64.8
72.5°	36.7	35.9	36.7	37.5	38.3	40.6	40.6	41.4	42.9	43.7	40.6
75°	18.7	19.5	21.1	20.3	22.6	21.1	21.9	24.2	23.4	21.9	21.9
77.5°	15.6	15.6	15.6	14.8	16.4	16.4	15.6	17.2	16.4	16.4	15.6
80°	10.9	11.7	10.9	10.1	10.9	10.1	10.1	10.1	10.1	10.1	9.4
82.5°	8.6	7.0	7.8	7.0	7.8	7.8	7.0	6.2	6.2	7.0	6.2
85°	6.2	4.7	5.5	5.5	4.7	4.7	4.7	4.7	4.7	3.9	3.9
87.5°	3.9	2.3	2.3	2.3	3.1	3.1	3.1	2.3	3.1	3.1	1.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6
2.5°	1457.0	1456.2	1457.8	1457.0	1457.0	1456.2	1457.0	1456.2	1457.8	1454.6	1455.4
5°	1457.0	1455.4	1456.2	1457.0	1457.8	1456.2	1456.2	1456.2	1457.8	1456.2	1457.0
7.5°	1453.9	1453.1	1455.4	1457.0	1456.2	1455.4	1457.0	1456.2	1457.8	1457.0	1458.5
10°	1447.6	1448.4	1450.0	1452.3	1453.1	1453.9	1455.4	1455.4	1457.8	1454.6	1456.2
12.5°	1438.3	1441.4	1445.3	1446.8	1450.0	1450.0	1451.5	1452.3	1453.9	1453.1	1455.4
15°	1426.5	1430.4	1435.1	1439.0	1442.9	1445.3	1447.6	1448.4	1450.7	1448.4	1449.2
17.5°	1412.5	1417.2	1424.2	1428.9	1435.1	1437.5	1440.6	1442.2	1444.5	1442.9	1443.7
20°	1393.0	1398.4	1406.2	1413.3	1417.2	1422.6	1426.5	1428.9	1430.4	1428.9	1429.7
22.5°	1365.6	1373.5	1383.6	1389.1	1396.9	1401.6	1402.3	1407.8	1411.7	1407.8	1409.4
25°	1333.6	1341.4	1349.2	1361.0	1368.0	1373.5	1378.9	1379.7	1383.6	1382.8	1382.0
27.5°	1280.5	1290.7	1303.9	1313.3	1322.7	1331.3	1337.5	1339.1	1343.0	1341.4	1342.2
30°	1207.9	1218.9	1231.3	1246.2	1259.4	1268.0	1275.8	1281.3	1285.2	1282.9	1282.1
32.5°	1104.9	1115.8	1129.1	1143.9	1159.5	1172.0	1181.4	1188.4	1193.1	1191.5	1187.6
35°	987.0	990.1	998.7	1010.4	1023.6	1036.9	1045.5	1053.3	1058.8	1060.3	1060.3
37.5°	865.9	855.8	849.5	849.5	857.3	862.8	870.6	875.3	883.9	887.0	889.3
40°	748.8	725.4	703.5	687.1	676.2	675.4	675.4	677.7	685.6	695.7	705.1
42.5°	644.2	606.7	573.1	542.7	520.8	508.3	502.8	503.6	509.9	519.2	534.8
45°	560.6	513.8	471.6	434.9	405.2	385.7	376.4	375.6	380.3	391.2	408.4
47.5°	495.8	445.8	398.2	356.0	324.0	303.0	292.0	288.9	292.0	302.2	322.5
50°	441.9	390.4	341.2	297.5	263.1	241.3	231.1	227.2	231.1	239.7	260.0
52.5°	392.0	338.9	292.8	250.6	213.9	195.2	184.3	181.9	184.3	194.4	210.8
55°	334.2	288.9	243.6	201.4	169.4	150.7	142.1	139.8	142.1	151.5	168.7
57.5°	277.2	238.1	198.3	160.1	132.7	116.3	108.5	105.4	110.9	117.1	137.4
60°	224.1	192.9	159.3	125.7	103.1	88.2	82.0	81.2	82.8	90.6	104.6
62.5°	175.7	149.9	123.4	96.0	77.3	71.1	63.2	62.5	64.0	68.7	79.6
65°	126.5	110.1	89.8	70.3	55.4	46.8	43.7	44.5	46.1	49.2	59.3
67.5°	88.2	76.5	62.5	49.2	38.3	34.4	31.2	30.5	31.2	36.7	42.2
70°	59.3	52.3	42.2	37.5	26.6	21.1	21.9	19.5	22.6	22.6	27.3
72.5°	39.0	34.4	28.1	21.9	18.7	14.8	14.8	14.1	15.6	16.4	20.3
75°	20.3	15.6	15.6	10.9	7.8	3.9	7.0	6.2	5.5	6.2	7.8
77.5°	14.1	11.7	10.9	8.6	7.8	6.2	6.2	6.2	6.2	7.0	7.8
80°	8.6	8.6	6.2	5.5	4.7	3.9	4.7	4.7	4.7	4.7	5.5
82.5°	5.5	4.7	4.7	3.9	3.9	3.1	3.1	3.1	3.1	3.1	4.7
85°	4.7	3.1	3.1	2.3	3.1	5.5	2.3	3.1	3.1	3.1	2.3
87.5°	1.6	2.3	2.3	2.3	1.6	0.8	1.6	2.3	2.3	3.9	3.1
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°	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6
2.5°	1457.0	1457.8	1457.8	1457.0	1457.0	1455.4	1458.5	1456.2	1457.0	1460.1	1457.8
5°	1458.5	1459.3	1459.3	1458.5	1458.5	1458.5	1459.3	1459.3	1458.5	1457.8	1459.3
7.5°	1461.7	1460.9	1460.9	1459.3	1459.3	1457.8	1459.3	1457.0	1458.5	1457.0	1459.3
10°	1457.8	1458.5	1457.8	1457.0	1457.0	1456.2	1456.2	1453.9	1454.6	1452.3	1453.9
12.5°	1455.4	1454.6	1454.6	1453.1	1451.5	1450.0	1449.2	1446.8	1446.8	1441.4	1443.7
15°	1449.2	1450.0	1447.6	1444.5	1442.9	1439.0	1437.5	1434.3	1431.2	1427.3	1428.1
17.5°	1443.7	1441.4	1438.3	1435.1	1428.9	1425.8	1422.6	1417.9	1416.4	1411.7	1410.2
20°	1427.3	1425.8	1421.9	1416.4	1412.5	1405.5	1402.3	1397.7	1393.7	1389.1	1386.7
22.5°	1406.2	1404.7	1400.0	1394.5	1388.3	1385.2	1382.0	1373.5	1369.5	1364.9	1364.1
25°	1379.7	1377.3	1372.7	1366.4	1363.3	1354.7	1351.6	1345.3	1343.8	1339.1	1338.3
27.5°	1339.1	1336.0	1330.5	1322.7	1317.2	1311.8	1308.6	1303.9	1302.4	1297.7	1296.9
30°	1278.2	1274.3	1263.3	1260.2	1250.9	1245.4	1245.4	1239.1	1239.9	1236.8	1236.8
32.5°	1182.2	1175.9	1167.3	1161.1	1154.8	1151.7	1151.7	1149.3	1150.9	1150.9	1152.5
35°	1054.9	1046.3	1041.6	1037.7	1037.7	1040.8	1050.2	1052.5	1057.2	1061.1	1064.3
37.5°	891.7	890.9	896.4	901.1	912.8	926.0	942.4	956.5	969.8	979.1	988.5
40°	715.2	734.7	750.4	772.2	790.2	815.9	845.6	869.8	892.5	908.9	926.0
42.5°	558.3	583.3	616.1	648.1	680.1	715.2	754.3	787.8	817.5	840.1	858.1
45°	434.9	469.3	509.1	549.7	591.1	634.8	675.4	709.8	741.0	764.4	782.4
47.5°	350.6	388.1	433.3	477.9	524.7	570.8	616.1	645.7	671.5	690.2	706.6
50°	289.7	329.5	377.1	427.9	474.7	520.8	559.8	588.7	609.8	626.2	636.4
52.5°	242.0	284.2	335.0	385.7	432.6	474.7	509.9	531.7	548.9	560.6	570.0
55°	199.9	240.5	288.1	335.8	381.8	421.6	450.5	466.9	480.2	487.2	492.7
57.5°	163.2	200.7	244.4	288.1	327.9	360.7	383.4	399.8	406.0	411.5	410.7
60°	128.1	163.2	203.0	240.5	274.8	301.4	317.8	327.2	331.8	334.2	332.6
62.5°	100.7	132.7	163.2	196.0	221.0	243.6	259.2	259.2	261.6	262.4	264.7
65°	74.9	99.2	125.7	149.9	170.2	185.1	193.6	196.0	199.1	198.3	196.8
67.5°	55.4	73.4	92.9	110.9	124.9	134.3	140.5	146.0	145.2	143.7	142.9
70°	38.3	50.0	67.2	78.1	88.2	97.6	99.2	99.9	100.7	101.5	99.9
72.5°	26.6	35.1	44.5	53.9	60.1	64.0	67.9	68.7	68.7	68.7	67.9
75°	13.3	18.0	26.6	30.5	35.9	37.5	40.6	40.6	42.9	39.8	39.0
77.5°	11.7	14.1	18.7	21.9	24.2	26.6	27.3	29.7	28.9	27.3	28.1
80°	7.0	8.6	11.7	13.3	16.4	17.2	18.0	18.7	18.0	18.7	18.7
82.5°	5.5	6.2	7.8	7.8	10.1	10.1	10.9	10.9	11.7	11.7	11.7
85°	3.1	5.5	4.7	9.4	6.2	6.2	7.8	9.4	7.8	7.8	9.4
87.5°	3.1	3.1	2.3	3.1	3.1	3.1	3.9	4.7	4.7	5.5	4.7
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: P246123

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1454.6	1454.6	1454.6	1454.6
2.5°	1457.0	1458.5	1456.2	1455.4
5°	1459.3	1459.3	1457.8	1457.8
7.5°	1459.3	1459.3	1457.0	1455.4
10°	1453.1	1453.1	1450.7	1449.2
12.5°	1441.4	1441.4	1440.6	1438.3
15°	1426.5	1426.5	1423.4	1421.1
17.5°	1406.2	1407.8	1403.9	1403.9
20°	1384.4	1383.6	1380.5	1378.9
22.5°	1361.7	1360.2	1359.4	1354.7
25°	1337.5	1336.0	1333.6	1331.3
27.5°	1296.2	1295.4	1293.0	1289.9
30°	1232.9	1232.1	1229.0	1229.0
32.5°	1150.9	1150.1	1147.0	1147.8
35°	1065.8	1068.9	1067.4	1064.3
37.5°	994.7	997.1	998.7	997.1
40°	935.4	942.4	943.2	944.8
42.5°	872.2	881.5	884.7	886.2
45°	796.4	805.0	812.0	810.5
47.5°	719.1	725.4	731.6	726.9
50°	645.0	648.8	651.2	651.2
52.5°	574.7	574.7	573.9	574.7
55°	494.3	494.3	491.1	492.7
57.5°	409.9	411.5	409.1	405.2
60°	331.8	327.9	326.4	324.0
62.5°	258.5	258.5	253.0	260.0
65°	193.6	191.3	189.0	188.2
67.5°	140.5	139.8	137.4	136.6
70°	99.2	96.0	95.3	93.7
72.5°	66.4	66.4	64.8	64.8
75°	40.6	36.7	35.9	36.7
77.5°	28.1	27.3	27.3	26.6
80°	18.7	18.0	19.5	17.2
82.5°	11.7	12.5	11.7	12.5
85°	7.8	9.4	8.6	8.6
87.5°	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)