

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: P244641

Luminaire Tested: **LSR8B30D010 EC8B30940 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244641  
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 EC8B30940 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2793.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

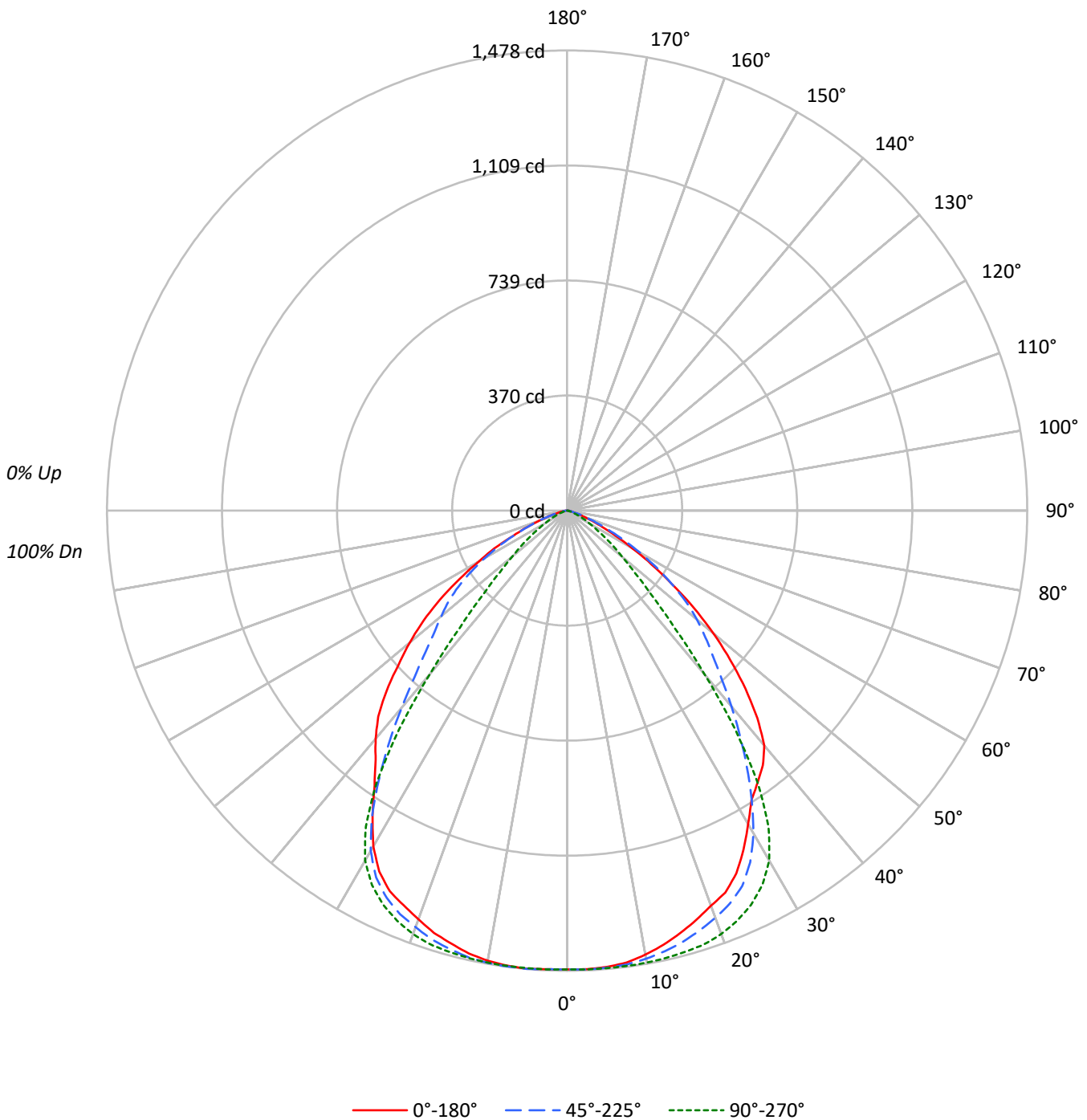
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	45440	45440	45440
5°	45543	45663	45713
10°	45349	46166	45969
15°	44847	46842	45958
20°	44311	47500	45840
25°	43735	47555	45888
30°	41375	46218	44330
35°	40140	40170	40584
40°	39642	27638	38527
45°	35323	16593	35807
50°	29369	11043	31648
55°	22026	7613	26832
60°	14925	5076	20247
65°	9004	3291	13907
70°	4995	1785	8556
75°	2264	751	4432
80°	1971	835	3090
85°	2229	1132	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	5.0
10°-20°	408.4	14.6
20°-30°	619.9	22.2
30°-40°	651.1	23.3
40°-50°	488.2	17.5
50°-60°	313.2	11.2
60°-70°	134.0	4.8
70°-80°	31.6	1.1
80°-90°	5.9	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°	1169.0	41.9
0°-40°	1820.1	65.2
0°-60°	2621.5	93.9
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1471	1474	1475	1478	1477	140
15°	1405	1434	1467	1458	1440	396
25°	1285	1330	1398	1372	1349	587
35°	1066	1007	1067	1054	1078	669
45°	810	662	380	643	821	620
55°	410	410	142	427	499	372
65°	123	146	45	188	191	132
75°	19	22	6	38	37	28
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°	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6
2.5°	1474.4	1476.0	1475.2	1475.2	1474.4	1475.2	1475.2	1476.8	1476.8	1475.2	1474.4
5°	1471.3	1472.8	1472.8	1471.3	1471.3	1475.2	1472.8	1474.4	1474.4	1473.6	1473.6
7.5°	1464.2	1464.2	1467.3	1465.0	1465.0	1467.3	1466.5	1468.1	1469.7	1470.5	1470.5
10°	1448.3	1449.9	1450.7	1450.7	1451.5	1453.9	1455.4	1458.6	1460.2	1461.8	1462.6
12.5°	1428.6	1430.9	1431.7	1430.9	1433.3	1436.5	1440.4	1444.4	1446.8	1449.9	1452.3
15°	1404.8	1404.8	1406.4	1408.8	1410.4	1415.1	1419.1	1423.8	1430.1	1434.1	1438.0
17.5°	1378.7	1380.3	1382.7	1382.7	1385.8	1393.7	1396.1	1403.2	1410.4	1414.3	1422.2
20°	1350.3	1351.8	1354.2	1355.8	1359.7	1366.1	1370.8	1377.1	1385.1	1392.2	1400.1
22.5°	1328.1	1324.9	1326.5	1328.1	1332.1	1337.6	1343.1	1351.0	1358.9	1366.1	1374.0
25°	1285.4	1286.2	1288.6	1290.1	1294.9	1299.6	1306.0	1315.4	1322.6	1330.5	1339.2
27.5°	1227.6	1228.4	1232.4	1232.4	1236.3	1244.3	1248.2	1256.1	1265.6	1273.5	1283.8
30°	1162.0	1163.6	1163.6	1166.7	1169.1	1173.1	1177.0	1184.9	1189.7	1196.8	1211.0
32.5°	1101.9	1103.4	1102.7	1101.9	1099.5	1098.7	1097.9	1099.5	1101.1	1103.4	1109.0
35°	1066.3	1062.3	1059.2	1053.6	1047.3	1039.4	1032.3	1022.8	1014.1	1006.9	999.0
37.5°	1032.3	1031.5	1026.7	1018.8	1006.2	991.9	975.3	954.7	934.2	912.0	890.7
40°	984.8	982.4	978.5	967.4	953.2	935.8	913.6	888.3	855.1	821.1	786.3
42.5°	904.1	904.9	900.2	891.5	878.0	861.4	838.5	810.8	775.2	734.8	689.8
45°	810.0	810.0	808.4	801.3	791.8	778.3	760.9	738.0	703.2	662.1	613.8
47.5°	711.9	712.7	710.3	708.7	704.8	696.1	683.4	666.0	641.5	601.9	553.7
50°	612.2	612.2	616.2	615.4	615.4	612.2	606.7	596.4	575.1	543.4	498.3
52.5°	512.6	514.2	516.5	519.7	523.6	530.0	523.6	518.9	505.4	480.9	442.2
55°	409.7	411.3	415.3	420.8	425.6	431.9	433.5	433.5	426.3	409.7	380.5
57.5°	321.9	319.6	322.7	327.5	333.8	340.1	344.9	350.4	349.6	338.6	314.8
60°	242.0	242.8	245.2	250.0	254.7	260.2	266.6	271.3	273.7	268.2	253.1
62.5°	176.4	176.4	179.6	184.3	186.7	194.6	198.5	200.9	203.3	202.5	193.0
65°	123.4	125.0	126.6	128.9	131.3	136.0	138.4	143.2	144.8	145.5	138.4
67.5°	87.0	84.6	86.2	87.8	90.2	93.3	98.1	98.1	100.5	100.5	95.7
70°	55.4	55.4	56.2	58.5	60.1	60.9	62.5	64.1	66.4	65.7	65.7
72.5°	37.2	36.4	37.2	38.0	38.8	41.1	41.1	41.9	43.5	44.3	41.1
75°	19.0	19.8	21.3	20.6	22.9	21.3	22.1	24.5	23.7	22.1	22.1
77.5°	15.8	15.8	15.8	15.0	16.6	16.6	15.8	17.4	16.6	16.6	15.8
80°	11.1	11.9	11.1	10.3	11.1	10.3	10.3	10.3	10.3	10.3	9.5
82.5°	8.7	7.1	7.9	7.1	7.9	7.9	7.1	6.3	6.3	7.1	6.3
85°	6.3	4.7	5.5	5.5	4.7	4.7	4.7	4.7	4.7	3.9	3.9
87.5°	3.9	2.4	2.4	2.4	3.2	3.2	3.2	2.4	3.2	3.2	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°	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6
2.5°	1476.0	1475.2	1476.8	1476.0	1476.0	1475.2	1476.0	1475.2	1476.8	1473.6	1474.4
5°	1476.0	1474.4	1475.2	1476.0	1476.8	1475.2	1475.2	1475.2	1476.8	1475.2	1476.0
7.5°	1472.8	1472.1	1474.4	1476.0	1475.2	1474.4	1476.0	1475.2	1476.8	1476.0	1477.6
10°	1466.5	1467.3	1468.9	1471.3	1472.1	1472.8	1474.4	1474.4	1476.8	1473.6	1475.2
12.5°	1457.0	1460.2	1464.2	1465.7	1468.9	1468.9	1470.5	1471.3	1472.8	1472.1	1474.4
15°	1445.2	1449.1	1453.9	1457.8	1461.8	1464.2	1466.5	1467.3	1469.7	1467.3	1468.1
17.5°	1430.9	1435.7	1442.8	1447.5	1453.9	1456.2	1459.4	1461.0	1463.4	1461.8	1462.6
20°	1411.1	1416.7	1424.6	1431.7	1435.7	1441.2	1445.2	1447.5	1449.1	1447.5	1448.3
22.5°	1383.5	1391.4	1401.7	1407.2	1415.1	1419.9	1420.6	1426.2	1430.1	1426.2	1427.8
25°	1351.0	1358.9	1366.9	1378.7	1385.8	1391.4	1396.9	1397.7	1401.7	1400.9	1400.1
27.5°	1297.2	1307.5	1321.0	1330.5	1340.0	1348.7	1355.0	1356.6	1360.5	1358.9	1359.7
30°	1223.7	1234.8	1247.4	1262.4	1275.9	1284.6	1292.5	1298.0	1302.0	1299.6	1298.8
32.5°	1119.3	1130.3	1143.8	1158.8	1174.7	1187.3	1196.8	1203.9	1208.7	1207.1	1203.1
35°	999.8	1003.0	1011.7	1023.6	1037.0	1050.5	1059.2	1067.1	1072.6	1074.2	1074.2
37.5°	877.2	867.0	860.6	860.6	868.5	874.1	882.0	886.7	895.4	898.6	901.0
40°	758.6	734.8	712.7	696.1	685.0	684.2	684.2	686.6	694.5	704.8	714.3
42.5°	652.6	614.6	580.6	549.7	527.6	514.9	509.4	510.2	516.5	526.0	541.8
45°	567.9	520.5	477.8	440.6	410.5	390.8	381.3	380.5	385.2	396.3	413.7
47.5°	502.3	451.7	403.4	360.7	328.3	306.9	295.8	292.7	295.8	306.1	326.7
50°	447.7	395.5	345.7	301.4	266.6	244.4	234.1	230.2	234.1	242.8	263.4
52.5°	397.1	343.3	296.6	253.9	216.7	197.7	186.7	184.3	186.7	197.0	213.6
55°	338.6	292.7	246.8	204.1	171.7	152.7	144.0	141.6	144.0	153.5	170.9
57.5°	280.8	241.3	200.9	162.2	134.5	117.9	110.0	106.8	112.3	118.6	139.2
60°	227.0	195.4	161.4	127.4	104.4	89.4	83.1	82.3	83.8	91.8	106.0
62.5°	178.0	151.9	125.0	97.3	78.3	72.0	64.1	63.3	64.9	69.6	80.7
65°	128.1	111.5	91.0	71.2	56.2	47.5	44.3	45.1	46.7	49.8	60.1
67.5°	89.4	77.5	63.3	49.8	38.8	34.8	31.6	30.9	31.6	37.2	42.7
70°	60.1	53.0	42.7	38.0	26.9	21.3	22.1	19.8	22.9	22.9	27.7
72.5°	39.5	34.8	28.5	22.1	19.0	15.0	15.0	14.2	15.8	16.6	20.6
75°	20.6	15.8	15.8	11.1	7.9	3.9	7.1	6.3	5.5	6.3	7.9
77.5°	14.2	11.9	11.1	8.7	7.9	6.3	6.3	6.3	6.3	7.1	7.9
80°	8.7	8.7	6.3	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	3.2	3.2	3.2	3.2	3.2	4.7
85°	4.7	3.2	3.2	2.4	3.2	5.5	2.4	3.2	3.2	3.2	2.4
87.5°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	3.9	3.2
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°	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6
2.5°	1476.0	1476.8	1476.8	1476.0	1476.0	1474.4	1477.6	1475.2	1476.0	1479.2	1476.8
5°	1477.6	1478.4	1478.4	1477.6	1477.6	1477.6	1478.4	1478.4	1477.6	1476.8	1478.4
7.5°	1480.8	1480.0	1480.0	1478.4	1478.4	1476.8	1478.4	1476.0	1477.6	1476.0	1478.4
10°	1476.8	1477.6	1476.8	1476.0	1476.0	1475.2	1475.2	1472.8	1473.6	1471.3	1472.8
12.5°	1474.4	1473.6	1473.6	1472.1	1470.5	1468.9	1468.1	1465.7	1465.7	1460.2	1462.6
15°	1468.1	1468.9	1466.5	1463.4	1461.8	1457.8	1456.2	1453.1	1449.9	1446.0	1446.8
17.5°	1462.6	1460.2	1457.0	1453.9	1447.5	1444.4	1441.2	1436.5	1434.9	1430.1	1428.6
20°	1446.0	1444.4	1440.4	1434.9	1430.9	1423.8	1420.6	1415.9	1411.9	1407.2	1404.8
22.5°	1424.6	1423.0	1418.3	1412.7	1406.4	1403.2	1400.1	1391.4	1387.4	1382.7	1381.9
25°	1397.7	1395.3	1390.6	1384.3	1381.1	1372.4	1369.2	1362.9	1361.3	1356.6	1355.8
27.5°	1356.6	1353.4	1347.9	1340.0	1334.4	1328.9	1325.7	1321.0	1319.4	1314.6	1313.9
30°	1294.9	1290.9	1279.8	1276.7	1267.2	1261.7	1261.7	1255.3	1256.1	1253.0	1253.0
32.5°	1197.6	1191.3	1182.5	1176.2	1169.9	1166.7	1166.7	1164.4	1165.9	1165.9	1167.5
35°	1068.6	1060.0	1055.2	1051.2	1051.2	1054.4	1063.9	1066.3	1071.0	1075.0	1078.1
37.5°	903.3	902.5	908.1	912.8	924.7	938.1	954.7	969.0	982.4	991.9	1001.4
40°	724.6	744.3	760.2	782.3	800.5	826.6	856.7	881.2	904.1	920.7	938.1
42.5°	565.6	590.9	624.1	656.5	689.0	724.6	764.1	798.1	828.2	851.1	869.3
45°	440.6	475.4	515.7	556.9	598.8	643.1	684.2	719.0	750.7	774.4	792.6
47.5°	355.2	393.1	439.0	484.1	531.6	578.2	624.1	654.2	680.3	699.2	715.9
50°	293.5	333.8	382.1	433.5	480.9	527.6	567.1	596.4	617.8	634.4	644.7
52.5°	245.2	287.9	339.3	390.8	438.2	480.9	516.5	538.7	556.1	567.9	577.4
55°	202.5	243.6	291.9	340.1	386.8	427.1	456.4	473.0	486.5	493.6	499.1
57.5°	165.3	203.3	247.6	291.9	332.2	365.5	388.4	405.0	411.3	416.9	416.1
60°	129.7	165.3	205.7	243.6	278.4	305.3	321.9	331.4	336.2	338.6	337.0
62.5°	102.0	134.5	165.3	198.5	223.9	246.8	262.6	262.6	265.0	265.8	268.2
65°	75.9	100.5	127.4	151.9	172.4	187.5	196.2	198.5	201.7	200.9	199.3
67.5°	56.2	74.4	94.1	112.3	126.6	136.0	142.4	147.9	147.1	145.5	144.8
70°	38.8	50.6	68.0	79.1	89.4	98.9	100.5	101.2	102.0	102.8	101.2
72.5°	26.9	35.6	45.1	54.6	60.9	64.9	68.8	69.6	69.6	69.6	68.8
75°	13.5	18.2	26.9	30.9	36.4	38.0	41.1	41.1	43.5	40.3	39.5
77.5°	11.9	14.2	19.0	22.1	24.5	26.9	27.7	30.1	29.3	27.7	28.5
80°	7.1	8.7	11.9	13.5	16.6	17.4	18.2	19.0	18.2	19.0	19.0
82.5°	5.5	6.3	7.9	7.9	10.3	10.3	11.1	11.1	11.9	11.9	11.9
85°	3.2	5.5	4.7	9.5	6.3	6.3	7.9	9.5	7.9	7.9	9.5
87.5°	3.2	3.2	2.4	3.2	3.2	3.2	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: P244641

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1473.6	1473.6	1473.6	1473.6
2.5°	1476.0	1477.6	1475.2	1474.4
5°	1478.4	1478.4	1476.8	1476.8
7.5°	1478.4	1478.4	1476.0	1474.4
10°	1472.1	1472.1	1469.7	1468.1
12.5°	1460.2	1460.2	1459.4	1457.0
15°	1445.2	1445.2	1442.0	1439.6
17.5°	1424.6	1426.2	1422.2	1422.2
20°	1402.5	1401.7	1398.5	1396.9
22.5°	1379.5	1377.9	1377.1	1372.4
25°	1355.0	1353.4	1351.0	1348.7
27.5°	1313.1	1312.3	1309.9	1306.7
30°	1249.0	1248.2	1245.0	1245.0
32.5°	1165.9	1165.1	1162.0	1162.8
35°	1079.7	1082.9	1081.3	1078.1
37.5°	1007.7	1010.1	1011.7	1010.1
40°	947.6	954.7	955.5	957.1
42.5°	883.6	893.0	896.2	897.8
45°	806.8	815.5	822.6	821.1
47.5°	728.5	734.8	741.2	736.4
50°	653.4	657.3	659.7	659.7
52.5°	582.2	582.2	581.4	582.2
55°	500.7	500.7	497.5	499.1
57.5°	415.3	416.9	414.5	410.5
60°	336.2	332.2	330.6	328.3
62.5°	261.8	261.8	256.3	263.4
65°	196.2	193.8	191.4	190.6
67.5°	142.4	141.6	139.2	138.4
70°	100.5	97.3	96.5	94.9
72.5°	67.2	67.2	65.7	65.7
75°	41.1	37.2	36.4	37.2
77.5°	28.5	27.7	27.7	26.9
80°	19.0	18.2	19.8	17.4
82.5°	11.9	12.7	11.9	12.7
85°	7.9	9.5	8.7	8.7
87.5°	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)