

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: P244635

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244635
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 EC8B30935 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2674.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

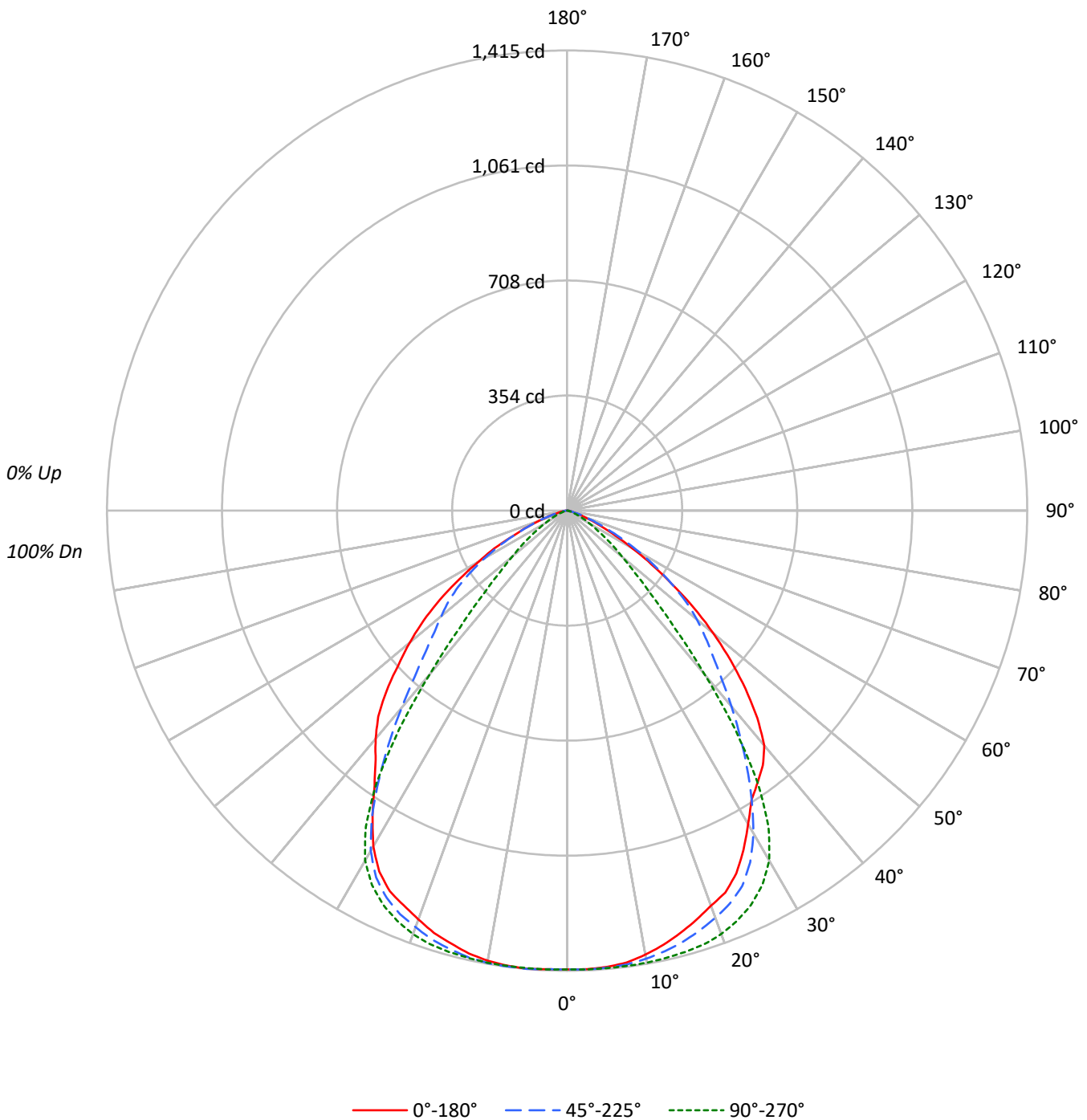
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

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°	43507	43507	43507
5°	43602	43720	43766
10°	43417	44200	44012
15°	42938	44847	44001
20°	42420	45479	43887
25°	41870	45531	43932
30°	39612	44248	42443
35°	38431	38457	38856
40°	37951	26459	36885
45°	33819	15887	34281
50°	28122	10573	30300
55°	21091	7290	25693
60°	14290	4860	19384
65°	8617	3152	13316
70°	4778	1704	8195
75°	2168	727	4241
80°	1882	799	2966
85°	2158	1061	2937



TEST NUMBER: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	5.0
10°-20°	391.0	14.6
20°-30°	593.5	22.2
30°-40°	623.4	23.3
40°-50°	467.4	17.5
50°-60°	299.9	11.2
60°-70°	128.3	4.8
70°-80°	30.3	1.1
80°-90°	5.6	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°	1119.2	41.9
0°-40°	1742.6	65.2
0°-60°	2509.8	93.9
0°-90°	2674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1411	1411	1411	1411	1411	
5°	1409	1411	1412	1415	1414	134
15°	1345	1373	1405	1396	1378	379
25°	1231	1274	1338	1314	1291	562
35°	1021	964	1022	1010	1032	641
45°	776	634	364	616	786	594
55°	392	392	136	409	478	356
65°	118	139	43	180	182	126
75°	18	21	6	36	36	26
85°	6	4	3	6	8	6
90°	0	0	0	0	0	



TEST NUMBER: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9
2.5°	1411.6	1413.1	1412.4	1412.4	1411.6	1412.4	1412.4	1413.9	1413.9	1412.4	1411.6
5°	1408.6	1410.1	1410.1	1408.6	1408.6	1412.4	1410.1	1411.6	1411.6	1410.9	1410.9
7.5°	1401.8	1401.8	1404.8	1402.5	1402.5	1404.8	1404.0	1405.6	1407.1	1407.8	1407.8
10°	1386.6	1388.1	1388.9	1388.9	1389.7	1391.9	1393.4	1396.5	1398.0	1399.5	1400.3
12.5°	1367.7	1370.0	1370.7	1370.0	1372.2	1375.3	1379.1	1382.8	1385.1	1388.1	1390.4
15°	1345.0	1345.0	1346.5	1348.8	1350.3	1354.8	1358.6	1363.1	1369.2	1373.0	1376.8
17.5°	1320.0	1321.5	1323.8	1323.8	1326.8	1334.4	1336.6	1343.5	1350.3	1354.1	1361.6
20°	1292.7	1294.2	1296.5	1298.0	1301.8	1307.9	1312.4	1318.5	1326.0	1332.9	1340.4
22.5°	1271.5	1268.5	1270.0	1271.5	1275.3	1280.6	1285.9	1293.5	1301.0	1307.9	1315.4
25°	1230.6	1231.4	1233.7	1235.2	1239.7	1244.3	1250.3	1259.4	1266.2	1273.8	1282.1
27.5°	1175.3	1176.1	1179.9	1179.9	1183.7	1191.2	1195.0	1202.6	1211.7	1219.3	1229.1
30°	1112.5	1114.0	1114.0	1117.0	1119.3	1123.1	1126.9	1134.4	1139.0	1145.8	1159.4
32.5°	1054.9	1056.4	1055.7	1054.9	1052.7	1051.9	1051.1	1052.7	1054.2	1056.4	1061.7
35°	1020.9	1017.1	1014.0	1008.7	1002.7	995.1	988.3	979.2	970.9	964.0	956.5
37.5°	988.3	987.5	983.0	975.4	963.3	949.7	933.8	914.1	894.4	873.2	852.7
40°	942.8	940.6	936.8	926.2	912.5	895.9	874.7	850.5	818.6	786.1	752.8
42.5°	865.6	866.4	861.8	853.5	840.6	824.7	802.7	776.2	742.2	703.5	660.4
45°	775.5	775.5	774.0	767.1	758.1	745.2	728.5	706.6	673.2	633.9	587.7
47.5°	681.6	682.3	680.1	678.5	674.8	666.4	654.3	637.7	614.2	576.3	530.1
50°	586.2	586.2	589.9	589.2	589.2	586.2	580.9	571.0	550.6	520.3	477.1
52.5°	490.7	492.2	494.5	497.5	501.3	507.4	501.3	496.8	483.9	460.4	423.3
55°	392.3	393.8	397.6	402.9	407.4	413.5	415.0	415.0	408.2	392.3	364.3
57.5°	308.2	305.9	309.0	313.5	319.6	325.6	330.2	335.5	334.7	324.1	301.4
60°	231.7	232.5	234.8	239.3	243.9	249.2	255.2	259.8	262.0	256.7	242.3
62.5°	168.9	168.9	171.9	176.4	178.7	186.3	190.1	192.4	194.6	193.9	184.8
65°	118.1	119.6	121.2	123.4	125.7	130.2	132.5	137.1	138.6	139.3	132.5
67.5°	83.3	81.0	82.6	84.1	86.3	89.4	93.9	93.9	96.2	96.2	91.6
70°	53.0	53.0	53.8	56.0	57.6	58.3	59.8	61.3	63.6	62.9	62.9
72.5°	35.6	34.8	35.6	36.4	37.1	39.4	39.4	40.1	41.7	42.4	39.4
75°	18.2	18.9	20.4	19.7	22.0	20.4	21.2	23.5	22.7	21.2	21.2
77.5°	15.1	15.1	15.1	14.4	15.9	15.9	15.1	16.7	15.9	15.9	15.1
80°	10.6	11.4	10.6	9.8	10.6	9.8	9.8	9.8	9.8	9.8	9.1
82.5°	8.3	6.8	7.6	6.8	7.6	7.6	6.8	6.1	6.1	6.8	6.1
85°	6.1	4.5	5.3	5.3	4.5	4.5	4.5	4.5	4.5	3.8	3.8
87.5°	3.8	2.3	2.3	2.3	3.0	3.0	3.0	2.3	3.0	3.0	1.5
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: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9
2.5°	1413.1	1412.4	1413.9	1413.1	1413.1	1412.4	1413.1	1412.4	1413.9	1410.9	1411.6
5°	1413.1	1411.6	1412.4	1413.1	1413.9	1412.4	1412.4	1412.4	1413.9	1412.4	1413.1
7.5°	1410.1	1409.3	1411.6	1413.1	1412.4	1411.6	1413.1	1412.4	1413.9	1413.1	1414.6
10°	1404.0	1404.8	1406.3	1408.6	1409.3	1410.1	1411.6	1411.6	1413.9	1410.9	1412.4
12.5°	1395.0	1398.0	1401.8	1403.3	1406.3	1406.3	1407.8	1408.6	1410.1	1409.3	1411.6
15°	1383.6	1387.4	1391.9	1395.7	1399.5	1401.8	1404.0	1404.8	1407.1	1404.8	1405.6
17.5°	1370.0	1374.5	1381.3	1385.9	1391.9	1394.2	1397.2	1398.7	1401.0	1399.5	1400.3
20°	1351.0	1356.3	1363.9	1370.7	1374.5	1379.8	1383.6	1385.9	1387.4	1385.9	1386.6
22.5°	1324.5	1332.1	1341.9	1347.2	1354.8	1359.4	1360.1	1365.4	1369.2	1365.4	1366.9
25°	1293.5	1301.0	1308.6	1320.0	1326.8	1332.1	1337.4	1338.2	1341.9	1341.2	1340.4
27.5°	1242.0	1251.8	1264.7	1273.8	1282.9	1291.2	1297.3	1298.8	1302.6	1301.0	1301.8
30°	1171.5	1182.2	1194.3	1208.7	1221.5	1229.9	1237.4	1242.7	1246.5	1244.3	1243.5
32.5°	1071.6	1082.2	1095.1	1109.4	1124.6	1136.7	1145.8	1152.6	1157.2	1155.6	1151.9
35°	957.2	960.3	968.6	980.0	992.8	1005.7	1014.0	1021.6	1026.9	1028.4	1028.4
37.5°	839.9	830.0	824.0	824.0	831.5	836.8	844.4	848.9	857.3	860.3	862.6
40°	726.2	703.5	682.3	666.4	655.8	655.1	655.1	657.3	664.9	674.8	683.8
42.5°	624.8	588.4	555.9	526.3	505.1	493.0	487.7	488.5	494.5	503.6	518.7
45°	543.7	498.3	457.4	421.8	393.0	374.1	365.0	364.3	368.8	379.4	396.1
47.5°	480.9	432.4	386.2	345.3	314.3	293.8	283.2	280.2	283.2	293.1	312.8
50°	428.6	378.7	330.9	288.5	255.2	234.0	224.2	220.4	224.2	232.5	252.2
52.5°	380.2	328.7	284.0	243.1	207.5	189.3	178.7	176.4	178.7	188.6	204.5
55°	324.1	280.2	236.3	195.4	164.3	146.2	137.8	135.6	137.8	146.9	163.6
57.5°	268.9	231.0	192.4	155.2	128.7	112.8	105.3	102.2	107.5	113.6	133.3
60°	217.3	187.1	154.5	121.9	100.0	85.6	79.5	78.8	80.3	87.9	101.5
62.5°	170.4	145.4	119.6	93.2	75.0	68.9	61.3	60.6	62.1	66.6	77.3
65°	122.7	106.8	87.1	68.2	53.8	45.4	42.4	43.2	44.7	47.7	57.6
67.5°	85.6	74.2	60.6	47.7	37.1	33.3	30.3	29.5	30.3	35.6	40.9
70°	57.6	50.7	40.9	36.4	25.8	20.4	21.2	18.9	22.0	22.0	26.5
72.5°	37.9	33.3	27.3	21.2	18.2	14.4	14.4	13.6	15.1	15.9	19.7
75°	19.7	15.1	15.1	10.6	7.6	3.8	6.8	6.1	5.3	6.1	7.6
77.5°	13.6	11.4	10.6	8.3	7.6	6.1	6.1	6.1	6.1	6.8	7.6
80°	8.3	8.3	6.1	5.3	4.5	3.8	4.5	4.5	4.5	4.5	5.3
82.5°	5.3	4.5	4.5	3.8	3.8	3.0	3.0	3.0	3.0	3.0	4.5
85°	4.5	3.0	3.0	2.3	3.0	5.3	2.3	3.0	3.0	3.0	2.3
87.5°	1.5	2.3	2.3	2.3	1.5	0.8	1.5	2.3	2.3	3.8	3.0
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: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9	1410.9
2.5°	1413.1	1413.9	1413.9	1413.1	1413.1	1411.6	1414.6	1412.4	1413.1	1416.2	1413.9
5°	1414.6	1415.4	1415.4	1414.6	1414.6	1414.6	1415.4	1415.4	1414.6	1413.9	1415.4
7.5°	1417.7	1416.9	1416.9	1415.4	1415.4	1413.9	1415.4	1413.1	1414.6	1413.1	1415.4
10°	1413.9	1414.6	1413.9	1413.1	1413.1	1412.4	1412.4	1410.1	1410.9	1408.6	1410.1
12.5°	1411.6	1410.9	1410.9	1409.3	1407.8	1406.3	1405.6	1403.3	1403.3	1398.0	1400.3
15°	1405.6	1406.3	1404.0	1401.0	1399.5	1395.7	1394.2	1391.2	1388.1	1384.4	1385.1
17.5°	1400.3	1398.0	1395.0	1391.9	1385.9	1382.8	1379.8	1375.3	1373.7	1369.2	1367.7
20°	1384.4	1382.8	1379.1	1373.7	1370.0	1363.1	1360.1	1355.6	1351.8	1347.2	1345.0
22.5°	1363.9	1362.4	1357.8	1352.5	1346.5	1343.5	1340.4	1332.1	1328.3	1323.8	1323.0
25°	1338.2	1335.9	1331.3	1325.3	1322.2	1313.9	1310.9	1304.8	1303.3	1298.8	1298.0
27.5°	1298.8	1295.7	1290.4	1282.9	1277.6	1272.3	1269.2	1264.7	1263.2	1258.6	1257.9
30°	1239.7	1235.9	1225.3	1222.3	1213.2	1207.9	1207.9	1201.8	1202.6	1199.6	1199.6
32.5°	1146.6	1140.5	1132.2	1126.1	1120.0	1117.0	1117.0	1114.7	1116.3	1116.3	1117.8
35°	1023.1	1014.8	1010.2	1006.5	1006.5	1009.5	1018.6	1020.9	1025.4	1029.2	1032.2
37.5°	864.8	864.1	869.4	873.9	885.3	898.2	914.1	927.7	940.6	949.7	958.7
40°	693.7	712.6	727.8	749.0	766.4	791.4	820.2	843.6	865.6	881.5	898.2
42.5°	541.5	565.7	597.5	628.6	659.6	693.7	731.6	764.1	792.9	814.9	832.3
45°	421.8	455.1	493.8	533.1	573.3	615.7	655.1	688.4	718.7	741.4	758.8
47.5°	340.0	376.4	420.3	463.5	508.9	553.6	597.5	626.3	651.3	669.5	685.4
50°	281.0	319.6	365.8	415.0	460.4	505.1	543.0	571.0	591.5	607.4	617.2
52.5°	234.8	275.7	324.9	374.1	419.5	460.4	494.5	515.7	532.4	543.7	552.8
55°	193.9	233.3	279.5	325.6	370.3	408.9	437.0	452.9	465.7	472.6	477.9
57.5°	158.3	194.6	237.0	279.5	318.1	349.9	371.8	387.7	393.8	399.1	398.3
60°	124.2	158.3	196.9	233.3	266.6	292.3	308.2	317.3	321.8	324.1	322.6
62.5°	97.7	128.7	158.3	190.1	214.3	236.3	251.4	251.4	253.7	254.5	256.7
65°	72.7	96.2	121.9	145.4	165.1	179.5	187.8	190.1	193.1	192.4	190.8
67.5°	53.8	71.2	90.1	107.5	121.2	130.2	136.3	141.6	140.9	139.3	138.6
70°	37.1	48.5	65.1	75.7	85.6	94.7	96.2	96.9	97.7	98.4	96.9
72.5°	25.8	34.1	43.2	52.3	58.3	62.1	65.9	66.6	66.6	66.6	65.9
75°	12.9	17.4	25.8	29.5	34.8	36.4	39.4	39.4	41.7	38.6	37.9
77.5°	11.4	13.6	18.2	21.2	23.5	25.8	26.5	28.8	28.0	26.5	27.3
80°	6.8	8.3	11.4	12.9	15.9	16.7	17.4	18.2	17.4	18.2	18.2
82.5°	5.3	6.1	7.6	7.6	9.8	9.8	10.6	10.6	11.4	11.4	11.4
85°	3.0	5.3	4.5	9.1	6.1	6.1	7.6	9.1	7.6	7.6	9.1
87.5°	3.0	3.0	2.3	3.0	3.0	3.0	3.8	4.5	4.5	5.3	4.5
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: P244635

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1410.9	1410.9	1410.9	1410.9
2.5°	1413.1	1414.6	1412.4	1411.6
5°	1415.4	1415.4	1413.9	1413.9
7.5°	1415.4	1415.4	1413.1	1411.6
10°	1409.3	1409.3	1407.1	1405.6
12.5°	1398.0	1398.0	1397.2	1395.0
15°	1383.6	1383.6	1380.6	1378.3
17.5°	1363.9	1365.4	1361.6	1361.6
20°	1342.7	1341.9	1338.9	1337.4
22.5°	1320.7	1319.2	1318.5	1313.9
25°	1297.3	1295.7	1293.5	1291.2
27.5°	1257.1	1256.4	1254.1	1251.1
30°	1195.8	1195.0	1192.0	1192.0
32.5°	1116.3	1115.5	1112.5	1113.2
35°	1033.7	1036.8	1035.2	1032.2
37.5°	964.8	967.1	968.6	967.1
40°	907.2	914.1	914.8	916.3
42.5°	845.9	855.0	858.0	859.5
45°	772.4	780.8	787.6	786.1
47.5°	697.5	703.5	709.6	705.0
50°	625.5	629.3	631.6	631.6
52.5°	557.4	557.4	556.6	557.4
55°	479.4	479.4	476.4	477.9
57.5°	397.6	399.1	396.8	393.0
60°	321.8	318.1	316.5	314.3
62.5°	250.7	250.7	245.4	252.2
65°	187.8	185.5	183.3	182.5
67.5°	136.3	135.6	133.3	132.5
70°	96.2	93.2	92.4	90.9
72.5°	64.4	64.4	62.9	62.9
75°	39.4	35.6	34.8	35.6
77.5°	27.3	26.5	26.5	25.8
80°	18.2	17.4	18.9	16.7
82.5°	11.4	12.1	11.4	12.1
85°	7.6	9.1	8.3	8.3
87.5°	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)