

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: P244659

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244659  
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 EC8B309730 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2310.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

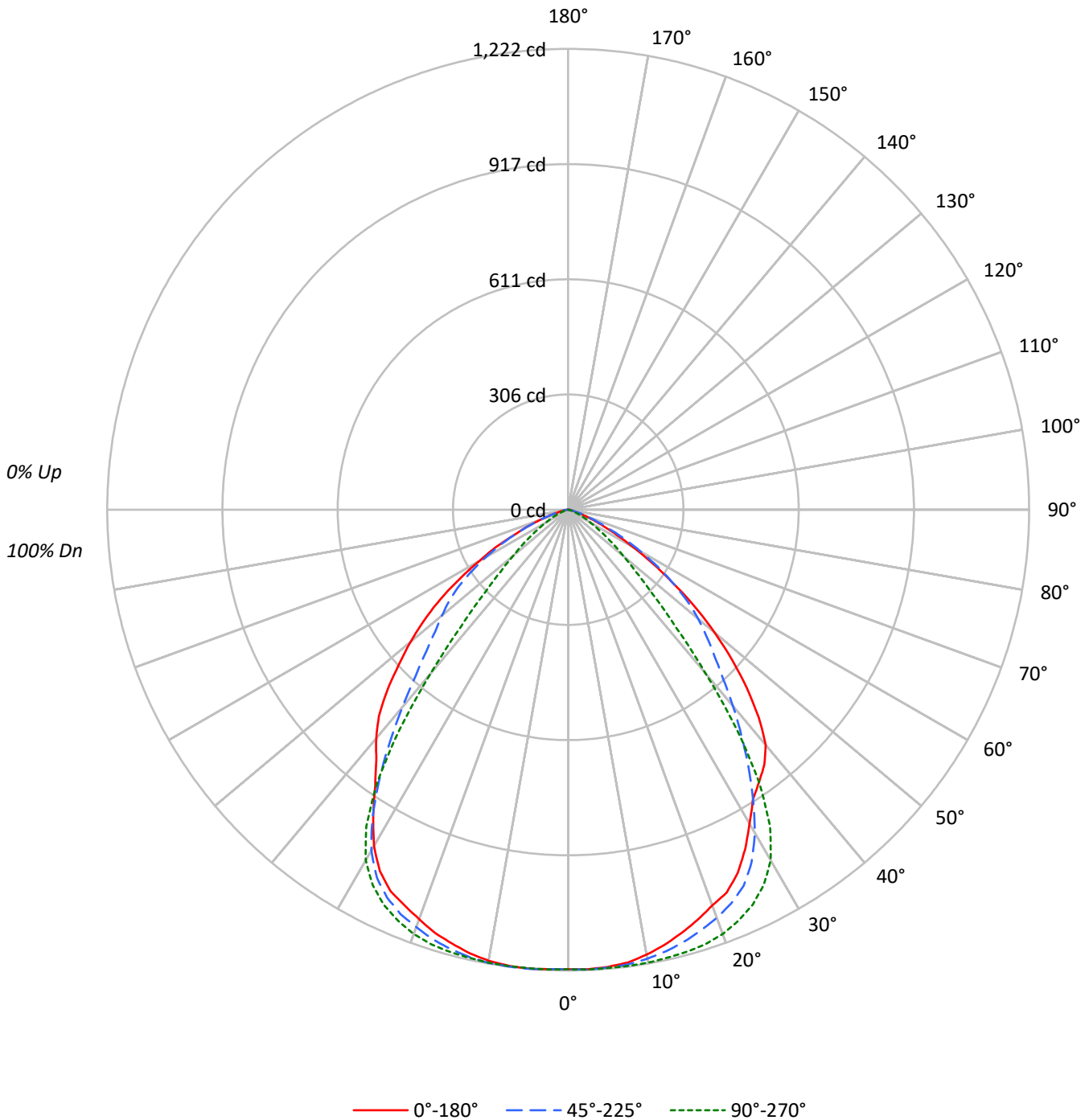
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	5.0
10°-20°	337.8	14.6
20°-30°	512.7	22.2
30°-40°	538.5	23.3
40°-50°	403.7	17.5
50°-60°	259.0	11.2
60°-70°	110.8	4.8
70°-80°	26.2	1.1
80°-90°	4.9	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°	966.8	41.9
0°-40°	1505.3	65.2
0°-60°	2168.1	93.9
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1217	1219	1220	1222	1221	116
15°	1162	1186	1214	1206	1191	328
25°	1063	1100	1156	1135	1115	486
35°	882	833	882	872	892	553
45°	670	548	315	532	679	513
55°	339	339	117	353	413	307
65°	102	120	37	155	158	109
75°	16	18	5	31	31	23
85°	5	3	3	5	7	6
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°	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1219.5	1220.8	1220.1	1220.1	1219.5	1220.1	1220.1	1221.4	1221.4	1220.1	1219.5
5°	1216.8	1218.1	1218.1	1216.8	1216.8	1220.1	1218.1	1219.5	1219.5	1218.8	1218.8
7.5°	1211.0	1211.0	1213.6	1211.6	1211.6	1213.6	1212.9	1214.2	1215.5	1216.2	1216.2
10°	1197.9	1199.2	1199.8	1199.8	1200.5	1202.4	1203.8	1206.4	1207.7	1209.0	1209.6
12.5°	1181.5	1183.5	1184.1	1183.5	1185.4	1188.1	1191.3	1194.6	1196.6	1199.2	1201.1
15°	1161.9	1161.9	1163.2	1165.2	1166.5	1170.4	1173.7	1177.6	1182.8	1186.1	1189.4
17.5°	1140.3	1141.6	1143.6	1143.6	1146.2	1152.7	1154.7	1160.6	1166.5	1169.7	1176.3
20°	1116.8	1118.0	1120.0	1121.3	1124.6	1129.8	1133.8	1139.0	1145.5	1151.4	1158.0
22.5°	1098.4	1095.8	1097.1	1098.4	1101.7	1106.3	1110.9	1117.4	1123.9	1129.8	1136.4
25°	1063.1	1063.8	1065.7	1067.0	1071.0	1074.9	1080.1	1088.0	1093.8	1100.4	1107.6
27.5°	1015.3	1016.0	1019.3	1019.3	1022.5	1029.1	1032.3	1038.9	1046.8	1053.3	1061.8
30°	961.0	962.3	962.3	965.0	966.9	970.2	973.5	980.0	983.9	989.8	1001.6
32.5°	911.3	912.6	912.0	911.3	909.4	908.7	908.0	909.4	910.7	912.6	917.2
35°	881.9	878.6	876.0	871.4	866.2	859.6	853.7	845.9	838.7	832.8	826.3
37.5°	853.7	853.1	849.2	842.6	832.2	820.4	806.7	789.6	772.6	754.3	736.7
40°	814.5	812.5	809.3	800.1	788.3	773.9	755.6	734.7	707.2	679.1	650.3
42.5°	747.8	748.4	744.5	737.3	726.2	712.4	693.5	670.6	641.1	607.8	570.5
45°	669.9	669.9	668.6	662.7	654.9	643.7	629.4	610.4	581.6	547.6	507.7
47.5°	588.8	589.4	587.5	586.2	582.9	575.7	565.2	550.9	530.6	497.9	457.9
50°	506.4	506.4	509.6	509.0	509.0	506.4	501.8	493.3	475.6	449.4	412.2
52.5°	423.9	425.2	427.2	429.8	433.1	438.3	433.1	429.2	418.0	397.8	365.7
55°	338.9	340.2	343.5	348.0	352.0	357.2	358.5	358.5	352.6	338.9	314.7
57.5°	266.3	264.3	266.9	270.8	276.1	281.3	285.2	289.8	289.2	280.0	260.4
60°	200.2	200.8	202.8	206.7	210.7	215.2	220.5	224.4	226.4	221.8	209.3
62.5°	145.9	145.9	148.5	152.4	154.4	160.9	164.2	166.2	168.1	167.5	159.6
65°	102.1	103.4	104.7	106.6	108.6	112.5	114.5	118.4	119.7	120.4	114.5
67.5°	72.0	70.0	71.3	72.6	74.6	77.2	81.1	81.1	83.1	83.1	79.2
70°	45.8	45.8	46.5	48.4	49.7	50.4	51.7	53.0	55.0	54.3	54.3
72.5°	30.8	30.1	30.8	31.4	32.1	34.0	34.0	34.7	36.0	36.6	34.0
75°	15.7	16.4	17.7	17.0	19.0	17.7	18.3	20.3	19.6	18.3	18.3
77.5°	13.1	13.1	13.1	12.4	13.7	13.7	13.1	14.4	13.7	13.7	13.1
80°	9.2	9.8	9.2	8.5	9.2	8.5	8.5	8.5	8.5	8.5	7.8
82.5°	7.2	5.9	6.5	5.9	6.5	6.5	5.9	5.2	5.2	5.9	5.2
85°	5.2	3.9	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.3	3.3
87.5°	3.3	2.0	2.0	2.0	2.6	2.6	2.6	2.0	2.6	2.6	1.3
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°	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1220.8	1220.1	1221.4	1220.8	1220.8	1220.1	1220.8	1220.1	1221.4	1218.8	1219.5
5°	1220.8	1219.5	1220.1	1220.8	1221.4	1220.1	1220.1	1220.1	1221.4	1220.1	1220.8
7.5°	1218.1	1217.5	1219.5	1220.8	1220.1	1219.5	1220.8	1220.1	1221.4	1220.8	1222.1
10°	1212.9	1213.6	1214.9	1216.8	1217.5	1218.1	1219.5	1219.5	1221.4	1218.8	1220.1
12.5°	1205.1	1207.7	1211.0	1212.3	1214.9	1214.9	1216.2	1216.8	1218.1	1217.5	1219.5
15°	1195.3	1198.5	1202.4	1205.7	1209.0	1211.0	1212.9	1213.6	1215.5	1213.6	1214.2
17.5°	1183.5	1187.4	1193.3	1197.2	1202.4	1204.4	1207.0	1208.3	1210.3	1209.0	1209.6
20°	1167.1	1171.7	1178.2	1184.1	1187.4	1192.0	1195.3	1197.2	1198.5	1197.2	1197.9
22.5°	1144.2	1150.8	1159.3	1163.8	1170.4	1174.3	1175.0	1179.6	1182.8	1179.6	1180.9
25°	1117.4	1123.9	1130.5	1140.3	1146.2	1150.8	1155.3	1156.0	1159.3	1158.6	1158.0
27.5°	1072.9	1081.4	1092.5	1100.4	1108.2	1115.4	1120.7	1122.0	1125.3	1123.9	1124.6
30°	1012.1	1021.2	1031.7	1044.1	1055.3	1062.4	1069.0	1073.6	1076.8	1074.9	1074.2
32.5°	925.7	934.9	946.0	958.4	971.5	982.0	989.8	995.7	999.6	998.3	995.1
35°	826.9	829.5	836.7	846.6	857.7	868.8	876.0	882.5	887.1	888.4	888.4
37.5°	725.5	717.0	711.8	711.8	718.3	722.9	729.4	733.4	740.6	743.2	745.2
40°	627.4	607.8	589.4	575.7	566.6	565.9	565.9	567.9	574.4	582.9	590.8
42.5°	539.7	508.3	480.2	454.7	436.4	425.9	421.3	422.0	427.2	435.1	448.1
45°	469.7	430.5	395.1	364.4	339.5	323.2	315.3	314.7	318.6	327.8	342.2
47.5°	415.4	373.6	333.6	298.3	271.5	253.8	244.7	242.1	244.7	253.2	270.2
50°	370.3	327.1	285.9	249.3	220.5	202.2	193.6	190.4	193.6	200.8	217.8
52.5°	328.4	283.9	245.3	210.0	179.3	163.5	154.4	152.4	154.4	162.9	176.6
55°	280.0	242.1	204.1	168.8	142.0	126.3	119.1	117.1	119.1	126.9	141.3
57.5°	232.3	199.5	166.2	134.1	111.2	97.5	90.9	88.3	92.9	98.1	115.1
60°	187.8	161.6	133.5	105.3	86.4	73.9	68.7	68.0	69.3	75.9	87.7
62.5°	147.2	125.6	103.4	80.5	64.8	59.5	53.0	52.3	53.6	57.6	66.7
65°	106.0	92.3	75.2	58.9	46.5	39.3	36.6	37.3	38.6	41.2	49.7
67.5°	73.9	64.1	52.3	41.2	32.1	28.8	26.2	25.5	26.2	30.8	35.3
70°	49.7	43.8	35.3	31.4	22.3	17.7	18.3	16.4	19.0	19.0	22.9
72.5°	32.7	28.8	23.5	18.3	15.7	12.4	12.4	11.8	13.1	13.7	17.0
75°	17.0	13.1	13.1	9.2	6.5	3.3	5.9	5.2	4.6	5.2	6.5
77.5°	11.8	9.8	9.2	7.2	6.5	5.2	5.2	5.2	5.2	5.9	6.5
80°	7.2	7.2	5.2	4.6	3.9	3.3	3.9	3.9	3.9	3.9	4.6
82.5°	4.6	3.9	3.9	3.3	3.3	2.6	2.6	2.6	2.6	2.6	3.9
85°	3.9	2.6	2.6	2.0	2.6	4.6	2.0	2.6	2.6	2.6	2.0
87.5°	1.3	2.0	2.0	2.0	1.3	0.7	1.3	2.0	2.0	3.3	2.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1220.8	1221.4	1221.4	1220.8	1220.8	1219.5	1222.1	1220.1	1220.8	1223.4	1221.4
5°	1222.1	1222.7	1222.7	1222.1	1222.1	1222.1	1222.7	1222.7	1222.1	1221.4	1222.7
7.5°	1224.7	1224.0	1224.0	1222.7	1222.7	1221.4	1222.7	1220.8	1222.1	1220.8	1222.7
10°	1221.4	1222.1	1221.4	1220.8	1220.8	1220.1	1220.1	1218.1	1218.8	1216.8	1218.1
12.5°	1219.5	1218.8	1218.8	1217.5	1216.2	1214.9	1214.2	1212.3	1212.3	1207.7	1209.6
15°	1214.2	1214.9	1212.9	1210.3	1209.0	1205.7	1204.4	1201.8	1199.2	1195.9	1196.6
17.5°	1209.6	1207.7	1205.1	1202.4	1197.2	1194.6	1192.0	1188.1	1186.7	1182.8	1181.5
20°	1195.9	1194.6	1191.3	1186.7	1183.5	1177.6	1175.0	1171.1	1167.8	1163.8	1161.9
22.5°	1178.2	1176.9	1173.0	1168.4	1163.2	1160.6	1158.0	1150.8	1147.5	1143.6	1142.9
25°	1156.0	1154.0	1150.1	1144.9	1142.3	1135.1	1132.4	1127.2	1125.9	1122.0	1121.3
27.5°	1122.0	1119.4	1114.8	1108.2	1103.7	1099.1	1096.5	1092.5	1091.2	1087.3	1086.7
30°	1071.0	1067.7	1058.5	1055.9	1048.0	1043.5	1043.5	1038.2	1038.9	1036.3	1036.3
32.5°	990.5	985.3	978.0	972.8	967.6	965.0	965.0	963.0	964.3	964.3	965.6
35°	883.8	876.7	872.7	869.5	869.5	872.1	879.9	881.9	885.8	889.1	891.7
37.5°	747.1	746.5	751.0	755.0	764.8	775.9	789.6	801.4	812.5	820.4	828.2
40°	599.3	615.6	628.7	647.0	662.1	683.7	708.5	728.8	747.8	761.5	775.9
42.5°	467.8	488.7	516.2	543.0	569.8	599.3	632.0	660.1	685.0	703.9	719.0
45°	364.4	393.2	426.6	460.6	495.2	531.9	565.9	594.7	620.9	640.5	655.5
47.5°	293.7	325.1	363.1	400.4	439.6	478.2	516.2	541.0	562.6	578.3	592.1
50°	242.7	276.1	316.0	358.5	397.8	436.4	469.1	493.3	510.9	524.7	533.2
52.5°	202.8	238.1	280.7	323.2	362.4	397.8	427.2	445.5	459.9	469.7	477.6
55°	167.5	201.5	241.4	281.3	319.9	353.3	377.5	391.2	402.3	408.2	412.8
57.5°	136.7	168.1	204.8	241.4	274.8	302.3	321.2	335.0	340.2	344.8	344.1
60°	107.3	136.7	170.1	201.5	230.3	252.5	266.3	274.1	278.0	280.0	278.7
62.5°	84.4	111.2	136.7	164.2	185.1	204.1	217.2	217.2	219.2	219.8	221.8
65°	62.8	83.1	105.3	125.6	142.6	155.0	162.3	164.2	166.8	166.2	164.9
67.5°	46.5	61.5	77.8	92.9	104.7	112.5	117.8	122.3	121.7	120.4	119.7
70°	32.1	41.9	56.3	65.4	73.9	81.8	83.1	83.7	84.4	85.0	83.7
72.5°	22.3	29.4	37.3	45.1	50.4	53.6	56.9	57.6	57.6	57.6	56.9
75°	11.1	15.0	22.3	25.5	30.1	31.4	34.0	34.0	36.0	33.4	32.7
77.5°	9.8	11.8	15.7	18.3	20.3	22.3	22.9	24.9	24.2	22.9	23.5
80°	5.9	7.2	9.8	11.1	13.7	14.4	15.0	15.7	15.0	15.7	15.7
82.5°	4.6	5.2	6.5	6.5	8.5	8.5	9.2	9.2	9.8	9.8	9.8
85°	2.6	4.6	3.9	7.8	5.2	5.2	6.5	7.8	6.5	6.5	7.8
87.5°	2.6	2.6	2.0	2.6	2.6	2.6	3.3	3.9	3.9	4.6	3.9
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: P244659

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1218.8	1218.8	1218.8	1218.8
2.5°	1220.8	1222.1	1220.1	1219.5
5°	1222.7	1222.7	1221.4	1221.4
7.5°	1222.7	1222.7	1220.8	1219.5
10°	1217.5	1217.5	1215.5	1214.2
12.5°	1207.7	1207.7	1207.0	1205.1
15°	1195.3	1195.3	1192.6	1190.7
17.5°	1178.2	1179.6	1176.3	1176.3
20°	1159.9	1159.3	1156.7	1155.3
22.5°	1141.0	1139.6	1139.0	1135.1
25°	1120.7	1119.4	1117.4	1115.4
27.5°	1086.0	1085.3	1083.4	1080.8
30°	1033.0	1032.3	1029.7	1029.7
32.5°	964.3	963.7	961.0	961.7
35°	893.0	895.6	894.3	891.7
37.5°	833.5	835.4	836.7	835.4
40°	783.7	789.6	790.3	791.6
42.5°	730.8	738.6	741.2	742.5
45°	667.3	674.5	680.4	679.1
47.5°	602.5	607.8	613.0	609.1
50°	540.4	543.6	545.6	545.6
52.5°	481.5	481.5	480.9	481.5
55°	414.1	414.1	411.5	412.8
57.5°	343.5	344.8	342.8	339.5
60°	278.0	274.8	273.5	271.5
62.5°	216.6	216.6	212.0	217.8
65°	162.3	160.3	158.3	157.7
67.5°	117.8	117.1	115.1	114.5
70°	83.1	80.5	79.8	78.5
72.5°	55.6	55.6	54.3	54.3
75°	34.0	30.8	30.1	30.8
77.5°	23.5	22.9	22.9	22.3
80°	15.7	15.0	16.4	14.4
82.5°	9.8	10.5	9.8	10.5
85°	6.5	7.8	7.2	7.2
87.5°	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)