

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: P246243

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246243  
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 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2284.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

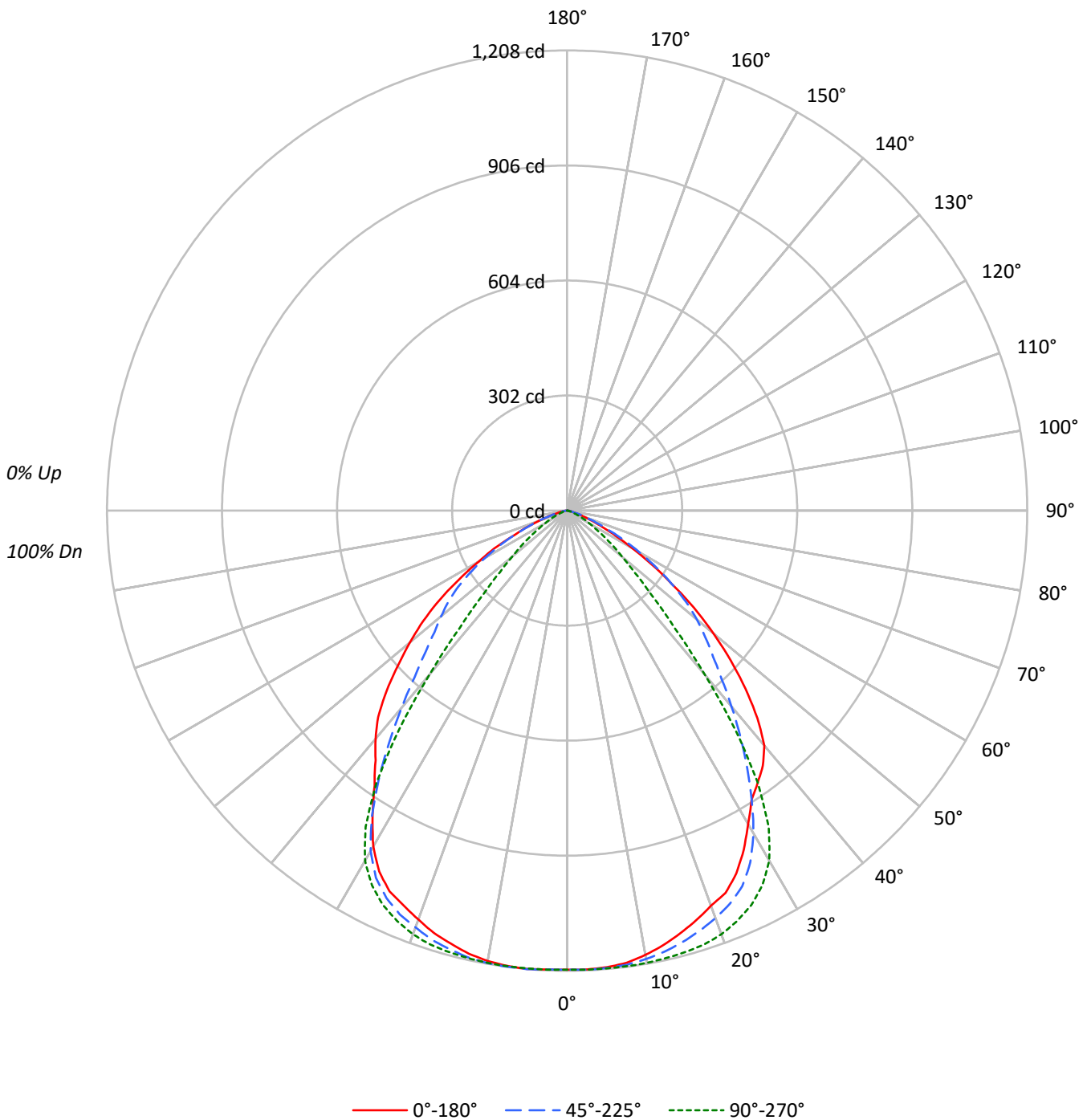
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	115.0	5.0
10°-20°	334.0	14.6
20°-30°	506.9	22.2
30°-40°	532.4	23.3
40°-50°	399.2	17.5
50°-60°	256.1	11.2
60°-70°	109.6	4.8
70°-80°	25.9	1.1
80°-90°	4.8	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°	956.0	41.9
0°-40°	1488.4	65.2
0°-60°	2143.7	93.9
0°-90°	2284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1205	1205	1205	1205	1205	
5°	1203	1205	1206	1208	1208	114
15°	1149	1173	1200	1192	1177	324
25°	1051	1088	1143	1122	1103	480
35°	872	823	873	862	882	547
45°	662	541	311	526	671	507
55°	335	335	116	349	408	304
65°	101	119	37	153	156	108
75°	16	18	5	31	30	23
85°	5	3	3	5	7	5
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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1205.7	1207.0	1206.4	1206.4	1205.7	1206.4	1206.4	1207.7	1207.7	1206.4	1205.7
5°	1203.1	1204.4	1204.4	1203.1	1203.1	1206.4	1204.4	1205.7	1205.7	1205.1	1205.1
7.5°	1197.3	1197.3	1199.9	1198.0	1198.0	1199.9	1199.3	1200.6	1201.9	1202.5	1202.5
10°	1184.4	1185.7	1186.3	1186.3	1187.0	1188.9	1190.2	1192.8	1194.1	1195.4	1196.0
12.5°	1168.2	1170.2	1170.8	1170.2	1172.1	1174.7	1177.9	1181.2	1183.1	1185.7	1187.6
15°	1148.8	1148.8	1150.1	1152.0	1153.3	1157.2	1160.5	1164.3	1169.5	1172.7	1176.0
17.5°	1127.5	1128.8	1130.7	1130.7	1133.3	1139.7	1141.7	1147.5	1153.3	1156.6	1163.0
20°	1104.2	1105.5	1107.4	1108.7	1111.9	1117.1	1121.0	1126.2	1132.6	1138.5	1144.9
22.5°	1086.1	1083.5	1084.8	1086.1	1089.3	1093.8	1098.4	1104.8	1111.3	1117.1	1123.6
25°	1051.1	1051.8	1053.7	1055.0	1058.9	1062.8	1068.0	1075.7	1081.5	1088.0	1095.1
27.5°	1003.9	1004.6	1007.8	1007.8	1011.0	1017.5	1020.7	1027.2	1035.0	1041.4	1049.8
30°	950.2	951.5	951.5	954.1	956.0	959.3	962.5	969.0	972.9	978.7	990.3
32.5°	901.1	902.4	901.7	901.1	899.1	898.5	897.8	899.1	900.4	902.4	906.9
35°	872.0	868.7	866.1	861.6	856.4	850.0	844.1	836.4	829.3	823.4	817.0
37.5°	844.1	843.5	839.6	833.1	822.8	811.2	797.6	780.8	763.9	745.8	728.4
40°	805.3	803.4	800.2	791.1	779.5	765.2	747.1	726.4	699.2	671.4	643.0
42.5°	739.3	740.0	736.1	729.0	718.0	704.4	685.7	663.0	633.9	600.9	564.1
45°	662.4	662.4	661.1	655.3	647.5	636.5	622.3	603.5	575.1	541.4	502.0
47.5°	582.2	582.8	580.9	579.6	576.3	569.2	558.9	544.7	524.6	492.2	452.8
50°	500.7	500.7	503.9	503.2	503.2	500.7	496.1	487.7	470.3	444.4	407.5
52.5°	419.2	420.5	422.4	425.0	428.2	433.4	428.2	424.3	413.3	393.3	361.6
55°	335.1	336.4	339.6	344.1	348.0	353.2	354.5	354.5	348.6	335.1	311.1
57.5°	263.3	261.3	263.9	267.8	273.0	278.2	282.0	286.6	285.9	276.9	257.4
60°	197.9	198.6	200.5	204.4	208.3	212.8	218.0	221.9	223.8	219.3	207.0
62.5°	144.3	144.3	146.8	150.7	152.7	159.1	162.4	164.3	166.2	165.6	157.8
65°	100.9	102.2	103.5	105.4	107.4	111.3	113.2	117.1	118.4	119.0	113.2
67.5°	71.2	69.2	70.5	71.8	73.7	76.3	80.2	80.2	82.1	82.1	78.3
70°	45.3	45.3	45.9	47.9	49.2	49.8	51.1	52.4	54.3	53.7	53.7
72.5°	30.4	29.8	30.4	31.1	31.7	33.6	33.6	34.3	35.6	36.2	33.6
75°	15.5	16.2	17.5	16.8	18.8	17.5	18.1	20.1	19.4	18.1	18.1
77.5°	12.9	12.9	12.9	12.3	13.6	13.6	12.9	14.2	13.6	13.6	12.9
80°	9.1	9.7	9.1	8.4	9.1	8.4	8.4	8.4	8.4	8.4	7.8
82.5°	7.1	5.8	6.5	5.8	6.5	6.5	5.8	5.2	5.2	5.8	5.2
85°	5.2	3.9	4.5	4.5	3.9	3.9	3.9	3.9	3.9	3.2	3.2
87.5°	3.2	1.9	1.9	1.9	2.6	2.6	2.6	1.9	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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1207.0	1206.4	1207.7	1207.0	1207.0	1206.4	1207.0	1206.4	1207.7	1205.1	1205.7
5°	1207.0	1205.7	1206.4	1207.0	1207.7	1206.4	1206.4	1206.4	1207.7	1206.4	1207.0
7.5°	1204.4	1203.8	1205.7	1207.0	1206.4	1205.7	1207.0	1206.4	1207.7	1207.0	1208.3
10°	1199.3	1199.9	1201.2	1203.1	1203.8	1204.4	1205.7	1205.7	1207.7	1205.1	1206.4
12.5°	1191.5	1194.1	1197.3	1198.6	1201.2	1201.2	1202.5	1203.1	1204.4	1203.8	1205.7
15°	1181.8	1185.0	1188.9	1192.2	1195.4	1197.3	1199.3	1199.9	1201.9	1199.9	1200.6
17.5°	1170.2	1174.0	1179.9	1183.7	1188.9	1190.9	1193.4	1194.7	1196.7	1195.4	1196.0
20°	1154.0	1158.5	1165.0	1170.8	1174.0	1178.6	1181.8	1183.7	1185.0	1183.7	1184.4
22.5°	1131.3	1137.8	1146.2	1150.7	1157.2	1161.1	1161.7	1166.3	1169.5	1166.3	1167.6
25°	1104.8	1111.3	1117.8	1127.5	1133.3	1137.8	1142.3	1143.0	1146.2	1145.6	1144.9
27.5°	1060.8	1069.3	1080.2	1088.0	1095.8	1102.9	1108.1	1109.3	1112.6	1111.3	1111.9
30°	1000.7	1009.7	1020.1	1032.4	1043.4	1050.5	1057.0	1061.5	1064.7	1062.8	1062.1
32.5°	915.3	924.4	935.4	947.6	960.6	970.9	978.7	984.5	988.4	987.1	983.9
35°	817.6	820.2	827.3	837.0	848.0	859.0	866.1	872.6	877.1	878.4	878.4
37.5°	717.4	709.0	703.8	703.8	710.2	714.8	721.2	725.1	732.2	734.8	736.8
40°	620.3	600.9	582.8	569.2	560.2	559.5	559.5	561.5	567.9	576.3	584.1
42.5°	533.7	502.6	474.8	449.6	431.5	421.1	416.6	417.2	422.4	430.2	443.1
45°	464.4	425.6	390.7	360.3	335.7	319.5	311.8	311.1	315.0	324.1	338.3
47.5°	410.8	369.3	329.9	295.0	268.4	251.0	241.9	239.3	241.9	250.3	267.2
50°	366.1	323.4	282.7	246.4	218.0	199.9	191.5	188.2	191.5	198.6	215.4
52.5°	324.7	280.7	242.6	207.6	177.2	161.7	152.7	150.7	152.7	161.1	174.7
55°	276.9	239.3	201.8	166.9	140.4	124.8	117.7	115.8	117.7	125.5	139.7
57.5°	229.6	197.3	164.3	132.6	110.0	96.4	89.9	87.3	91.8	97.0	113.8
60°	185.6	159.8	132.0	104.1	85.4	73.1	67.9	67.3	68.6	75.0	86.7
62.5°	145.5	124.2	102.2	79.6	64.0	58.9	52.4	51.8	53.0	56.9	66.0
65°	104.8	91.2	74.4	58.2	45.9	38.8	36.2	36.9	38.2	40.8	49.2
67.5°	73.1	63.4	51.8	40.8	31.7	28.5	25.9	25.2	25.9	30.4	34.9
70°	49.2	43.3	34.9	31.1	22.0	17.5	18.1	16.2	18.8	18.8	22.6
72.5°	32.3	28.5	23.3	18.1	15.5	12.3	12.3	11.6	12.9	13.6	16.8
75°	16.8	12.9	12.9	9.1	6.5	3.2	5.8	5.2	4.5	5.2	6.5
77.5°	11.6	9.7	9.1	7.1	6.5	5.2	5.2	5.2	5.2	5.8	6.5
80°	7.1	7.1	5.2	4.5	3.9	3.2	3.9	3.9	3.9	3.9	4.5
82.5°	4.5	3.9	3.9	3.2	3.2	2.6	2.6	2.6	2.6	2.6	3.9
85°	3.9	2.6	2.6	1.9	2.6	4.5	1.9	2.6	2.6	2.6	1.9
87.5°	1.3	1.9	1.9	1.9	1.3	0.6	1.3	1.9	1.9	3.2	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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1207.0	1207.7	1207.7	1207.0	1207.0	1205.7	1208.3	1206.4	1207.0	1209.6	1207.7
5°	1208.3	1209.0	1209.0	1208.3	1208.3	1208.3	1209.0	1209.0	1208.3	1207.7	1209.0
7.5°	1210.9	1210.3	1210.3	1209.0	1209.0	1207.7	1209.0	1207.0	1208.3	1207.0	1209.0
10°	1207.7	1208.3	1207.7	1207.0	1207.0	1206.4	1206.4	1204.4	1205.1	1203.1	1204.4
12.5°	1205.7	1205.1	1205.1	1203.8	1202.5	1201.2	1200.6	1198.6	1198.6	1194.1	1196.0
15°	1200.6	1201.2	1199.3	1196.7	1195.4	1192.2	1190.9	1188.3	1185.7	1182.4	1183.1
17.5°	1196.0	1194.1	1191.5	1188.9	1183.7	1181.2	1178.6	1174.7	1173.4	1169.5	1168.2
20°	1182.4	1181.2	1177.9	1173.4	1170.2	1164.3	1161.7	1157.9	1154.6	1150.7	1148.8
22.5°	1165.0	1163.7	1159.8	1155.3	1150.1	1147.5	1144.9	1137.8	1134.6	1130.7	1130.0
25°	1143.0	1141.0	1137.2	1132.0	1129.4	1122.3	1119.7	1114.5	1113.2	1109.3	1108.7
27.5°	1109.3	1106.8	1102.2	1095.8	1091.2	1086.7	1084.1	1080.2	1079.0	1075.1	1074.4
30°	1058.9	1055.7	1046.6	1044.0	1036.3	1031.7	1031.7	1026.6	1027.2	1024.6	1024.6
32.5°	979.3	974.2	967.0	961.9	956.7	954.1	954.1	952.2	953.5	953.5	954.8
35°	873.9	866.8	862.9	859.7	859.7	862.2	870.0	872.0	875.8	879.1	881.7
37.5°	738.7	738.1	742.6	746.5	756.2	767.2	780.8	792.4	803.4	811.2	818.9
40°	592.5	608.7	621.6	639.7	654.6	676.0	700.5	720.6	739.3	752.9	767.2
42.5°	462.5	483.2	510.4	536.9	563.4	592.5	624.9	652.7	677.3	696.0	710.9
45°	360.3	388.8	421.8	455.4	489.7	525.9	559.5	588.0	613.9	633.3	648.1
47.5°	290.4	321.5	359.0	395.9	434.7	472.8	510.4	535.0	556.3	571.8	585.4
50°	240.0	273.0	312.4	354.5	393.3	431.5	463.8	487.7	505.2	518.8	527.2
52.5°	200.5	235.4	277.5	319.5	358.3	393.3	422.4	440.5	454.7	464.4	472.2
55°	165.6	199.2	238.7	278.2	316.3	349.3	373.2	386.8	397.8	403.6	408.2
57.5°	135.2	166.2	202.5	238.7	271.7	298.9	317.6	331.2	336.4	340.9	340.2
60°	106.1	135.2	168.2	199.2	227.7	249.7	263.3	271.0	274.9	276.9	275.6
62.5°	83.4	110.0	135.2	162.4	183.1	201.8	214.8	214.8	216.7	217.3	219.3
65°	62.1	82.1	104.1	124.2	141.0	153.3	160.4	162.4	165.0	164.3	163.0
67.5°	45.9	60.8	77.0	91.8	103.5	111.3	116.4	121.0	120.3	119.0	118.4
70°	31.7	41.4	55.6	64.7	73.1	80.9	82.1	82.8	83.4	84.1	82.8
72.5°	22.0	29.1	36.9	44.6	49.8	53.0	56.3	56.9	56.9	56.9	56.3
75°	11.0	14.9	22.0	25.2	29.8	31.1	33.6	33.6	35.6	33.0	32.3
77.5°	9.7	11.6	15.5	18.1	20.1	22.0	22.6	24.6	23.9	22.6	23.3
80°	5.8	7.1	9.7	11.0	13.6	14.2	14.9	15.5	14.9	15.5	15.5
82.5°	4.5	5.2	6.5	6.5	8.4	8.4	9.1	9.1	9.7	9.7	9.7
85°	2.6	4.5	3.9	7.8	5.2	5.2	6.5	7.8	6.5	6.5	7.8
87.5°	2.6	2.6	1.9	2.6	2.6	2.6	3.2	3.9	3.9	4.5	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: P246243

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1205.1	1205.1	1205.1	1205.1
2.5°	1207.0	1208.3	1206.4	1205.7
5°	1209.0	1209.0	1207.7	1207.7
7.5°	1209.0	1209.0	1207.0	1205.7
10°	1203.8	1203.8	1201.9	1200.6
12.5°	1194.1	1194.1	1193.4	1191.5
15°	1181.8	1181.8	1179.2	1177.3
17.5°	1165.0	1166.3	1163.0	1163.0
20°	1146.9	1146.2	1143.6	1142.3
22.5°	1128.1	1126.8	1126.2	1122.3
25°	1108.1	1106.8	1104.8	1102.9
27.5°	1073.8	1073.1	1071.2	1068.6
30°	1021.4	1020.7	1018.1	1018.1
32.5°	953.5	952.8	950.2	950.9
35°	882.9	885.5	884.2	881.7
37.5°	824.1	826.0	827.3	826.0
40°	774.9	780.8	781.4	782.7
42.5°	722.5	730.3	732.9	734.2
45°	659.8	666.9	672.7	671.4
47.5°	595.7	600.9	606.1	602.2
50°	534.3	537.5	539.5	539.5
52.5°	476.1	476.1	475.4	476.1
55°	409.5	409.5	406.9	408.2
57.5°	339.6	340.9	338.9	335.7
60°	274.9	271.7	270.4	268.4
62.5°	214.1	214.1	209.6	215.4
65°	160.4	158.5	156.5	155.9
67.5°	116.4	115.8	113.8	113.2
70°	82.1	79.6	78.9	77.6
72.5°	55.0	55.0	53.7	53.7
75°	33.6	30.4	29.8	30.4
77.5°	23.3	22.6	22.6	22.0
80°	15.5	14.9	16.2	14.2
82.5°	9.7	10.4	9.7	10.4
85°	6.5	7.8	7.1	7.1
87.5°	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)