

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: P244653

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244653  
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 EC8B309727 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2184.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

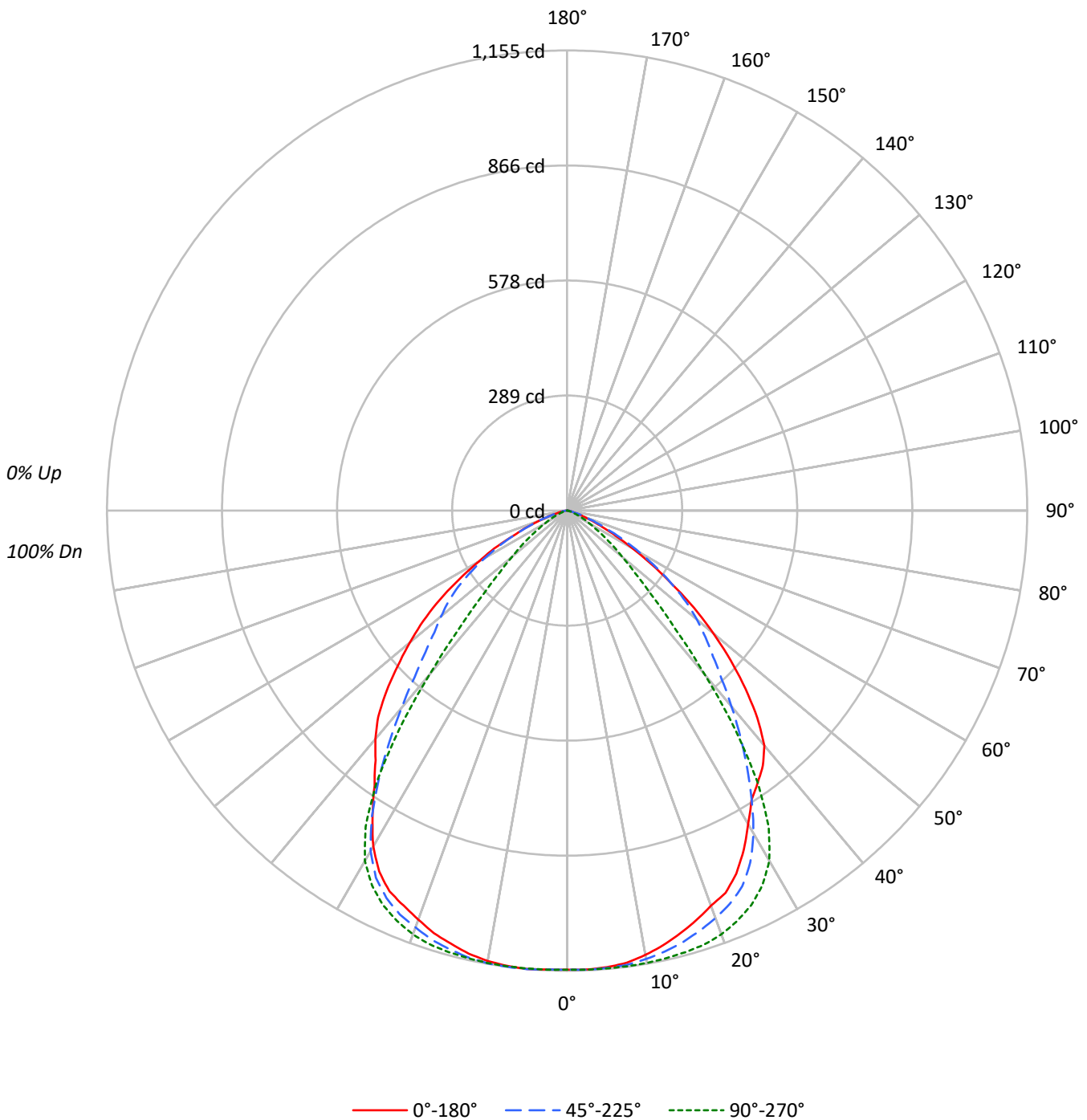
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	110.0	5.0
10°-20°	319.4	14.6
20°-30°	484.8	22.2
30°-40°	509.1	23.3
40°-50°	381.7	17.5
50°-60°	244.9	11.2
60°-70°	104.8	4.8
70°-80°	24.8	1.1
80°-90°	4.6	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°	914.1	41.9
0°-40°	1423.2	65.2
0°-60°	2049.9	93.9
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1152	1152	1152	1152	1152	
5°	1150	1152	1154	1155	1155	109
15°	1098	1121	1147	1140	1126	310
25°	1005	1040	1093	1073	1055	459
35°	834	787	834	824	843	523
45°	633	518	298	503	642	485
55°	320	320	111	334	390	291
65°	96	114	35	147	149	103
75°	15	17	5	30	29	22
85°	5	3	2	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°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1152.9	1154.2	1153.6	1153.6	1152.9	1153.6	1153.6	1154.8	1154.8	1153.6	1152.9
5°	1150.5	1151.7	1151.7	1150.5	1150.5	1153.6	1151.7	1152.9	1152.9	1152.3	1152.3
7.5°	1144.9	1144.9	1147.4	1145.5	1145.5	1147.4	1146.8	1148.0	1149.2	1149.9	1149.9
10°	1132.5	1133.8	1134.4	1134.4	1135.0	1136.9	1138.1	1140.6	1141.8	1143.0	1143.7
12.5°	1117.1	1118.9	1119.5	1118.9	1120.8	1123.2	1126.4	1129.4	1131.3	1133.8	1135.6
15°	1098.5	1098.5	1099.7	1101.6	1102.8	1106.6	1109.6	1113.4	1118.3	1121.4	1124.5
17.5°	1078.1	1079.3	1081.2	1081.2	1083.7	1089.8	1091.7	1097.3	1102.8	1105.9	1112.1
20°	1055.8	1057.1	1058.9	1060.2	1063.3	1068.2	1071.9	1076.9	1083.1	1088.6	1094.8
22.5°	1038.5	1036.0	1037.3	1038.5	1041.6	1045.9	1050.3	1056.4	1062.6	1068.2	1074.4
25°	1005.1	1005.7	1007.6	1008.8	1012.5	1016.2	1021.2	1028.6	1034.2	1040.4	1047.2
27.5°	960.0	960.6	963.7	963.7	966.8	972.9	976.0	982.2	989.7	995.8	1003.9
30°	908.6	909.9	909.9	912.3	914.2	917.3	920.4	926.6	930.3	935.8	947.0
32.5°	861.6	862.8	862.2	861.6	859.8	859.1	858.5	859.8	861.0	862.8	867.2
35°	833.8	830.7	828.2	823.9	818.9	812.7	807.2	799.8	793.0	787.4	781.2
37.5°	807.2	806.6	802.9	796.7	786.8	775.6	762.7	746.6	730.5	713.2	696.5
40°	770.1	768.2	765.1	756.5	745.3	731.7	714.4	694.6	668.6	642.0	614.8
42.5°	707.0	707.6	703.9	697.1	686.6	673.6	655.6	634.0	606.2	574.6	539.4
45°	633.4	633.4	632.1	626.6	619.2	608.6	595.0	577.1	549.9	517.7	480.0
47.5°	556.7	557.3	555.4	554.2	551.1	544.3	534.4	520.8	501.6	470.7	433.0
50°	478.7	478.7	481.8	481.2	481.2	478.7	474.4	466.4	449.7	424.9	389.7
52.5°	400.8	402.0	403.9	406.4	409.5	414.4	409.5	405.8	395.2	376.1	345.8
55°	320.4	321.6	324.7	329.1	332.8	337.7	339.0	339.0	333.4	320.4	297.5
57.5°	251.7	249.9	252.4	256.1	261.0	266.0	269.7	274.0	273.4	264.7	246.2
60°	189.3	189.9	191.7	195.5	199.2	203.5	208.4	212.2	214.0	209.7	197.9
62.5°	137.9	137.9	140.4	144.1	146.0	152.2	155.2	157.1	159.0	158.3	150.9
65°	96.5	97.7	99.0	100.8	102.7	106.4	108.2	111.9	113.2	113.8	108.2
67.5°	68.0	66.2	67.4	68.7	70.5	73.0	76.7	76.7	78.5	78.5	74.8
70°	43.3	43.3	43.9	45.8	47.0	47.6	48.9	50.1	52.0	51.3	51.3
72.5°	29.1	28.5	29.1	29.7	30.3	32.2	32.2	32.8	34.0	34.6	32.2
75°	14.8	15.5	16.7	16.1	17.9	16.7	17.3	19.2	18.6	17.3	17.3
77.5°	12.4	12.4	12.4	11.8	13.0	13.0	12.4	13.6	13.0	13.0	12.4
80°	8.7	9.3	8.7	8.0	8.7	8.0	8.0	8.0	8.0	8.0	7.4
82.5°	6.8	5.6	6.2	5.6	6.2	6.2	5.6	4.9	4.9	5.6	4.9
85°	4.9	3.7	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.1	3.1
87.5°	3.1	1.9	1.9	1.9	2.5	2.5	2.5	1.9	2.5	2.5	1.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1154.2	1153.6	1154.8	1154.2	1154.2	1153.6	1154.2	1153.6	1154.8	1152.3	1152.9
5°	1154.2	1152.9	1153.6	1154.2	1154.8	1153.6	1153.6	1153.6	1154.8	1153.6	1154.2
7.5°	1151.7	1151.1	1152.9	1154.2	1153.6	1152.9	1154.2	1153.6	1154.8	1154.2	1155.4
10°	1146.8	1147.4	1148.6	1150.5	1151.1	1151.7	1152.9	1152.9	1154.8	1152.3	1153.6
12.5°	1139.3	1141.8	1144.9	1146.1	1148.6	1148.6	1149.9	1150.5	1151.7	1151.1	1152.9
15°	1130.1	1133.1	1136.9	1140.0	1143.0	1144.9	1146.8	1147.4	1149.2	1147.4	1148.0
17.5°	1118.9	1122.6	1128.2	1131.9	1136.9	1138.7	1141.2	1142.4	1144.3	1143.0	1143.7
20°	1103.5	1107.8	1114.0	1119.5	1122.6	1127.0	1130.1	1131.9	1133.1	1131.9	1132.5
22.5°	1081.8	1088.0	1096.0	1100.4	1106.6	1110.3	1110.9	1115.2	1118.3	1115.2	1116.5
25°	1056.4	1062.6	1068.8	1078.1	1083.7	1088.0	1092.3	1092.9	1096.0	1095.4	1094.8
27.5°	1014.4	1022.4	1032.9	1040.4	1047.8	1054.6	1059.5	1060.8	1063.9	1062.6	1063.3
30°	956.9	965.5	975.4	987.2	997.7	1004.5	1010.7	1015.0	1018.1	1016.2	1015.6
32.5°	875.2	883.9	894.4	906.1	918.5	928.4	935.8	941.4	945.1	943.9	940.8
35°	781.8	784.3	791.1	800.4	810.9	821.4	828.2	834.4	838.7	840.0	840.0
37.5°	686.0	677.9	673.0	673.0	679.1	683.5	689.7	693.4	700.2	702.6	704.5
40°	593.2	574.6	557.3	544.3	535.7	535.0	535.0	536.9	543.1	551.1	558.5
42.5°	510.3	480.6	454.0	429.9	412.6	402.7	398.3	399.0	403.9	411.3	423.7
45°	444.1	407.0	373.6	344.5	321.0	305.5	298.1	297.5	301.2	309.9	323.5
47.5°	392.8	353.2	315.4	282.0	256.7	240.0	231.3	228.9	231.3	239.4	255.5
50°	350.1	309.3	270.3	235.7	208.4	191.1	183.1	180.0	183.1	189.9	206.0
52.5°	310.5	268.4	232.0	198.5	169.5	154.6	146.0	144.1	146.0	154.0	167.0
55°	264.7	228.9	193.0	159.6	134.2	119.4	112.6	110.7	112.6	120.0	133.6
57.5°	219.6	188.7	157.1	126.8	105.2	92.2	86.0	83.5	87.8	92.8	108.9
60°	177.5	152.8	126.2	99.6	81.7	69.9	64.9	64.3	65.6	71.8	82.9
62.5°	139.2	118.8	97.7	76.1	61.2	56.3	50.1	49.5	50.7	54.4	63.1
65°	100.2	87.2	71.1	55.7	43.9	37.1	34.6	35.3	36.5	39.0	47.0
67.5°	69.9	60.6	49.5	39.0	30.3	27.2	24.7	24.1	24.7	29.1	33.4
70°	47.0	41.4	33.4	29.7	21.0	16.7	17.3	15.5	17.9	17.9	21.6
72.5°	30.9	27.2	22.3	17.3	14.8	11.8	11.8	11.1	12.4	13.0	16.1
75°	16.1	12.4	12.4	8.7	6.2	3.1	5.6	4.9	4.3	4.9	6.2
77.5°	11.1	9.3	8.7	6.8	6.2	4.9	4.9	4.9	4.9	5.6	6.2
80°	6.8	6.8	4.9	4.3	3.7	3.1	3.7	3.7	3.7	3.7	4.3
82.5°	4.3	3.7	3.7	3.1	3.1	2.5	2.5	2.5	2.5	2.5	3.7
85°	3.7	2.5	2.5	1.9	2.5	4.3	1.9	2.5	2.5	2.5	1.9
87.5°	1.2	1.9	1.9	1.9	1.2	0.6	1.2	1.9	1.9	3.1	2.5
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°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1154.2	1154.8	1154.8	1154.2	1154.2	1152.9	1155.4	1153.6	1154.2	1156.6	1154.8
5°	1155.4	1156.0	1156.0	1155.4	1155.4	1155.4	1156.0	1156.0	1155.4	1154.8	1156.0
7.5°	1157.9	1157.3	1157.3	1156.0	1156.0	1154.8	1156.0	1154.2	1155.4	1154.2	1156.0
10°	1154.8	1155.4	1154.8	1154.2	1154.2	1153.6	1153.6	1151.7	1152.3	1150.5	1151.7
12.5°	1152.9	1152.3	1152.3	1151.1	1149.9	1148.6	1148.0	1146.1	1146.1	1141.8	1143.7
15°	1148.0	1148.6	1146.8	1144.3	1143.0	1140.0	1138.7	1136.2	1133.8	1130.7	1131.3
17.5°	1143.7	1141.8	1139.3	1136.9	1131.9	1129.4	1127.0	1123.2	1122.0	1118.3	1117.1
20°	1130.7	1129.4	1126.4	1122.0	1118.9	1113.4	1110.9	1107.2	1104.1	1100.4	1098.5
22.5°	1114.0	1112.7	1109.0	1104.7	1099.7	1097.3	1094.8	1088.0	1084.9	1081.2	1080.6
25°	1092.9	1091.1	1087.4	1082.4	1079.9	1073.2	1070.7	1065.7	1064.5	1060.8	1060.2
27.5°	1060.8	1058.3	1054.0	1047.8	1043.5	1039.1	1036.7	1032.9	1031.7	1028.0	1027.4
30°	1012.5	1009.4	1000.8	998.3	990.9	986.6	986.6	981.6	982.2	979.8	979.8
32.5°	936.5	931.5	924.7	919.8	914.8	912.3	912.3	910.5	911.7	911.7	913.0
35°	835.6	828.8	825.1	822.0	822.0	824.5	831.9	833.8	837.5	840.6	843.1
37.5°	706.4	705.7	710.1	713.8	723.1	733.6	746.6	757.7	768.2	775.6	783.1
40°	566.6	582.0	594.4	611.7	625.9	646.4	669.9	689.0	707.0	720.0	733.6
42.5°	442.2	462.0	488.0	513.4	538.7	566.6	597.5	624.1	647.6	665.5	679.8
45°	344.5	371.7	403.3	435.4	468.2	502.9	535.0	562.2	587.0	605.5	619.8
47.5°	277.7	307.4	343.3	378.5	415.7	452.1	488.0	511.5	531.9	546.8	559.8
50°	229.5	261.0	298.8	339.0	376.1	412.6	443.5	466.4	483.1	496.1	504.1
52.5°	191.7	225.1	265.4	305.5	342.7	376.1	403.9	421.2	434.8	444.1	451.5
55°	158.3	190.5	228.2	266.0	302.5	334.0	356.9	369.9	380.4	386.0	390.3
57.5°	129.3	159.0	193.6	228.2	259.8	285.8	303.7	316.7	321.6	326.0	325.3
60°	101.4	129.3	160.8	190.5	217.7	238.7	251.7	259.2	262.9	264.7	263.5
62.5°	79.8	105.2	129.3	155.2	175.0	193.0	205.4	205.4	207.2	207.8	209.7
65°	59.4	78.5	99.6	118.8	134.8	146.6	153.4	155.2	157.7	157.1	155.9
67.5°	43.9	58.1	73.6	87.8	99.0	106.4	111.3	115.7	115.1	113.8	113.2
70°	30.3	39.6	53.2	61.9	69.9	77.3	78.5	79.2	79.8	80.4	79.2
72.5°	21.0	27.8	35.3	42.7	47.6	50.7	53.8	54.4	54.4	54.4	53.8
75°	10.5	14.2	21.0	24.1	28.5	29.7	32.2	32.2	34.0	31.5	30.9
77.5°	9.3	11.1	14.8	17.3	19.2	21.0	21.6	23.5	22.9	21.6	22.3
80°	5.6	6.8	9.3	10.5	13.0	13.6	14.2	14.8	14.2	14.8	14.8
82.5°	4.3	4.9	6.2	6.2	8.0	8.0	8.7	8.7	9.3	9.3	9.3
85°	2.5	4.3	3.7	7.4	4.9	4.9	6.2	7.4	6.2	6.2	7.4
87.5°	2.5	2.5	1.9	2.5	2.5	2.5	3.1	3.7	3.7	4.3	3.7
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: P244653

CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1152.3	1152.3	1152.3	1152.3
2.5°	1154.2	1155.4	1153.6	1152.9
5°	1156.0	1156.0	1154.8	1154.8
7.5°	1156.0	1156.0	1154.2	1152.9
10°	1151.1	1151.1	1149.2	1148.0
12.5°	1141.8	1141.8	1141.2	1139.3
15°	1130.1	1130.1	1127.6	1125.7
17.5°	1114.0	1115.2	1112.1	1112.1
20°	1096.7	1096.0	1093.6	1092.3
22.5°	1078.7	1077.5	1076.9	1073.2
25°	1059.5	1058.3	1056.4	1054.6
27.5°	1026.8	1026.1	1024.3	1021.8
30°	976.7	976.0	973.6	973.6
32.5°	911.7	911.1	908.6	909.2
35°	844.3	846.8	845.5	843.1
37.5°	788.0	789.9	791.1	789.9
40°	741.0	746.6	747.2	748.4
42.5°	690.9	698.3	700.8	702.0
45°	630.9	637.7	643.3	642.0
47.5°	569.7	574.6	579.6	575.9
50°	510.9	514.0	515.9	515.9
52.5°	455.2	455.2	454.6	455.2
55°	391.5	391.5	389.1	390.3
57.5°	324.7	326.0	324.1	321.0
60°	262.9	259.8	258.5	256.7
62.5°	204.7	204.7	200.4	206.0
65°	153.4	151.5	149.7	149.1
67.5°	111.3	110.7	108.9	108.2
70°	78.5	76.1	75.5	74.2
72.5°	52.6	52.6	51.3	51.3
75°	32.2	29.1	28.5	29.1
77.5°	22.3	21.6	21.6	21.0
80°	14.8	14.2	15.5	13.6
82.5°	9.3	9.9	9.3	9.9
85°	6.2	7.4	6.8	6.8
87.5°	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)