

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: P246171

Luminaire Tested: **LD8B30D010 ER8B30930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246171
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: LD8B30D010 ER8B30930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2291.3 lumens
Efficiency: N/A
Efficacy: 84.6 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

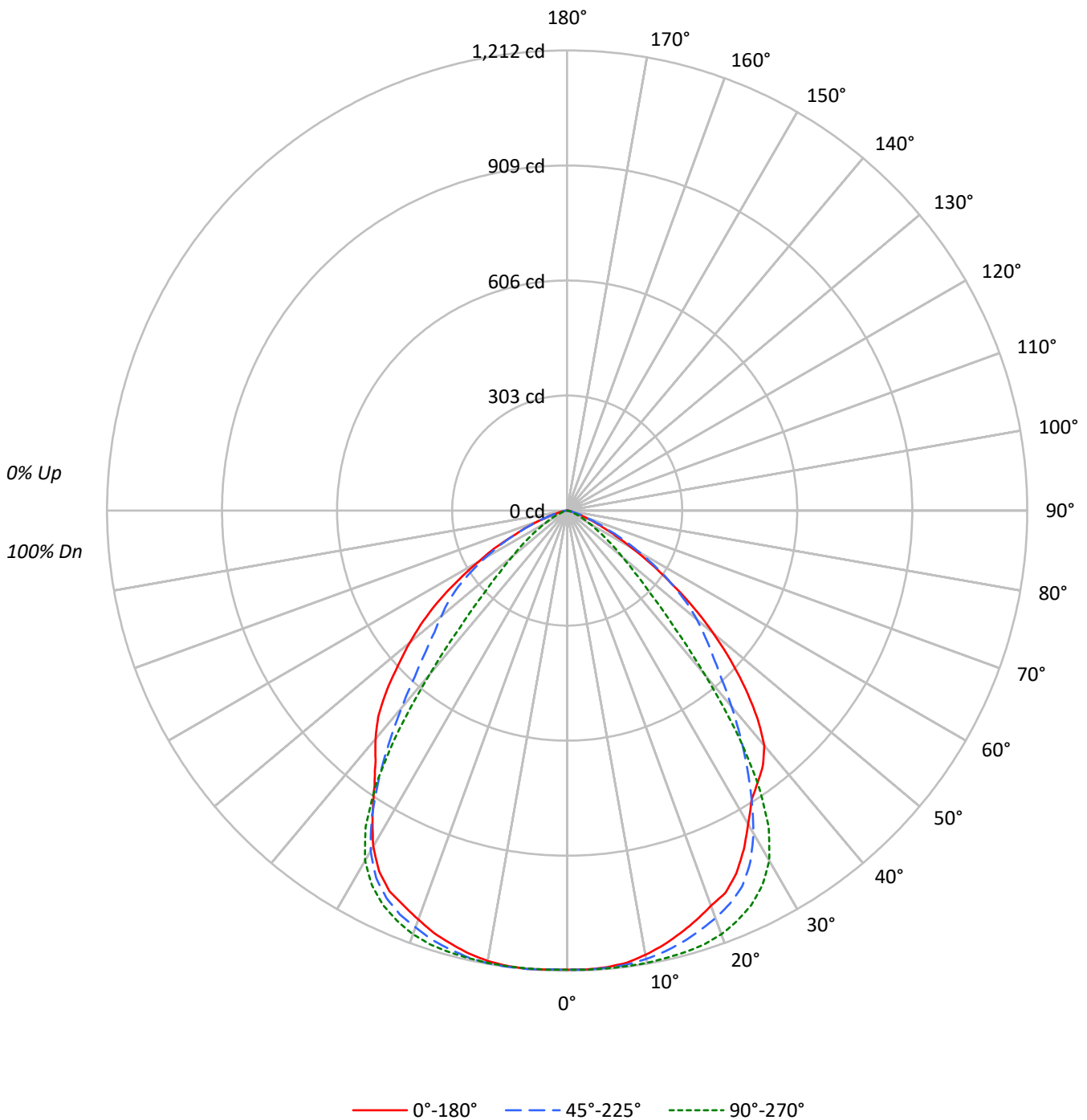
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	115.4	5.0
10°-20°	335.1	14.6
20°-30°	508.6	22.2
30°-40°	534.2	23.3
40°-50°	400.5	17.5
50°-60°	257.0	11.2
60°-70°	109.9	4.8
70°-80°	26.0	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°	959.0	41.9
0°-40°	1493.2	65.2
0°-60°	2150.6	93.9
0°-90°	2291.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1209	1209	1209	1209	1209	
5°	1207	1209	1210	1212	1212	115
15°	1152	1176	1204	1196	1181	325
25°	1054	1092	1147	1126	1106	482
35°	875	826	875	865	884	549
45°	664	543	312	528	674	509
55°	336	336	116	350	410	305
65°	101	119	37	154	156	108
75°	16	18	5	31	30	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°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1209.6	1210.9	1210.2	1210.2	1209.6	1210.2	1210.2	1211.6	1211.6	1210.2	1209.6
5°	1207.0	1208.3	1208.3	1207.0	1207.0	1210.2	1208.3	1209.6	1209.6	1209.0	1209.0
7.5°	1201.2	1201.2	1203.7	1201.8	1201.8	1203.7	1203.1	1204.4	1205.7	1206.3	1206.3
10°	1188.1	1189.5	1190.2	1190.2	1190.8	1192.7	1194.0	1196.7	1197.9	1199.2	1199.9
12.5°	1172.0	1173.9	1174.6	1173.9	1175.8	1178.4	1181.6	1184.9	1186.9	1189.5	1191.4
15°	1152.5	1152.5	1153.7	1155.8	1157.1	1160.9	1164.2	1168.1	1173.2	1176.5	1179.7
17.5°	1131.1	1132.4	1134.3	1134.3	1136.9	1143.4	1145.3	1151.2	1157.1	1160.2	1166.7
20°	1107.8	1109.0	1110.9	1112.3	1115.5	1120.7	1124.6	1129.7	1136.2	1142.1	1148.6
22.5°	1089.5	1086.9	1088.3	1089.5	1092.8	1097.3	1101.8	1108.3	1114.8	1120.7	1127.2
25°	1054.5	1055.2	1057.1	1058.3	1062.3	1066.2	1071.3	1079.2	1085.0	1091.5	1098.6
27.5°	1007.1	1007.8	1011.0	1011.0	1014.3	1020.8	1024.0	1030.5	1038.3	1044.8	1053.2
30°	953.3	954.5	954.5	957.2	959.1	962.4	965.6	972.1	975.9	981.8	993.5
32.5°	904.0	905.2	904.6	904.0	902.0	901.4	900.7	902.0	903.3	905.2	909.8
35°	874.7	871.5	868.9	864.4	859.1	852.7	846.8	839.1	831.9	826.1	819.6
37.5°	846.8	846.2	842.3	835.8	825.4	813.7	800.2	783.2	766.4	748.2	730.7
40°	807.9	806.0	802.7	793.7	781.9	767.7	749.5	728.8	701.5	673.6	645.0
42.5°	741.8	742.3	738.5	731.3	720.4	706.7	687.8	665.2	635.9	602.9	565.9
45°	664.5	664.5	663.2	657.4	649.6	638.5	624.3	605.5	576.9	543.1	503.6
47.5°	584.0	584.7	582.7	581.5	578.2	571.0	560.7	546.4	526.3	493.8	454.2
50°	502.3	502.3	505.5	504.9	504.9	502.3	497.7	489.3	471.7	445.8	408.8
52.5°	420.5	421.8	423.7	426.3	429.6	434.7	429.6	425.6	414.7	394.6	362.8
55°	336.2	337.4	340.7	345.3	349.1	354.3	355.6	355.6	349.8	336.2	312.1
57.5°	264.1	262.2	264.8	268.7	273.9	279.0	282.9	287.4	286.9	277.8	258.3
60°	198.5	199.2	201.1	205.0	209.0	213.6	218.7	222.6	224.5	219.9	207.6
62.5°	144.7	144.7	147.3	151.2	153.1	159.6	162.9	164.8	166.8	166.1	158.3
65°	101.2	102.6	103.8	105.8	107.7	111.7	113.6	117.5	118.7	119.4	113.6
67.5°	71.4	69.4	70.7	72.0	74.0	76.6	80.5	80.5	82.4	82.4	78.5
70°	45.4	45.4	46.1	48.0	49.3	50.0	51.2	52.6	54.5	53.8	53.8
72.5°	30.5	29.8	30.5	31.2	31.8	33.7	33.7	34.4	35.6	36.3	33.7
75°	15.6	16.3	17.5	16.9	18.8	17.5	18.2	20.1	19.5	18.2	18.2
77.5°	13.0	13.0	13.0	12.3	13.7	13.7	13.0	14.2	13.7	13.7	13.0
80°	9.1	9.8	9.1	8.4	9.1	8.4	8.4	8.4	8.4	8.4	7.7
82.5°	7.2	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	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.3	3.3
87.5°	3.3	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°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1210.9	1210.2	1211.6	1210.9	1210.9	1210.2	1210.9	1210.2	1211.6	1209.0	1209.6
5°	1210.9	1209.6	1210.2	1210.9	1211.6	1210.2	1210.2	1210.2	1211.6	1210.2	1210.9
7.5°	1208.3	1207.7	1209.6	1210.9	1210.2	1209.6	1210.9	1210.2	1211.6	1210.9	1212.1
10°	1203.1	1203.7	1205.1	1207.0	1207.7	1208.3	1209.6	1209.6	1211.6	1209.0	1210.2
12.5°	1195.3	1197.9	1201.2	1202.5	1205.1	1205.1	1206.3	1207.0	1208.3	1207.7	1209.6
15°	1185.6	1188.8	1192.7	1196.0	1199.2	1201.2	1203.1	1203.7	1205.7	1203.7	1204.4
17.5°	1173.9	1177.8	1183.7	1187.5	1192.7	1194.6	1197.2	1198.6	1200.5	1199.2	1199.9
20°	1157.7	1162.3	1168.8	1174.6	1177.8	1182.3	1185.6	1187.5	1188.8	1187.5	1188.1
22.5°	1135.0	1141.5	1149.9	1154.4	1160.9	1164.8	1165.5	1170.0	1173.2	1170.0	1171.3
25°	1108.3	1114.8	1121.3	1131.1	1136.9	1141.5	1146.0	1146.7	1149.9	1149.2	1148.6
27.5°	1064.3	1072.7	1083.7	1091.5	1099.3	1106.4	1111.6	1112.9	1116.2	1114.8	1115.5
30°	1003.9	1012.9	1023.4	1035.7	1046.7	1053.9	1060.4	1064.8	1068.1	1066.2	1065.5
32.5°	918.2	927.3	938.4	950.7	963.6	974.0	981.8	987.7	991.5	990.3	987.0
35°	820.2	822.8	830.0	839.7	850.7	861.8	868.9	875.4	880.0	881.2	881.2
37.5°	719.7	711.3	706.0	706.0	712.5	717.1	723.6	727.4	734.6	737.2	739.1
40°	622.3	602.9	584.7	571.0	562.0	561.3	561.3	563.3	569.8	578.2	585.9
42.5°	535.4	504.2	476.3	451.0	432.8	422.5	417.9	418.6	423.7	431.6	444.5
45°	465.9	427.0	391.9	361.4	336.7	320.6	312.8	312.1	316.0	325.1	339.4
47.5°	412.1	370.5	330.9	295.9	269.3	251.8	242.7	240.1	242.7	251.1	268.0
50°	367.2	324.4	283.6	247.3	218.7	200.5	192.0	188.9	192.0	199.2	216.1
52.5°	325.8	281.6	243.4	208.3	177.8	162.2	153.1	151.2	153.1	161.5	175.2
55°	277.8	240.1	202.5	167.4	140.8	125.2	118.2	116.1	118.2	125.9	140.1
57.5°	230.4	198.0	164.8	133.1	110.3	96.6	90.2	87.6	92.1	97.3	114.2
60°	186.2	160.3	132.4	104.5	85.6	73.3	68.2	67.5	68.8	75.3	87.0
62.5°	146.1	124.5	102.6	79.8	64.2	59.1	52.6	51.9	53.2	57.1	66.3
65°	105.1	91.5	74.7	58.4	46.1	38.9	36.3	37.0	38.3	40.9	49.3
67.5°	73.3	63.6	51.9	40.9	31.8	28.6	26.0	25.3	26.0	30.5	35.1
70°	49.3	43.5	35.1	31.2	22.1	17.5	18.2	16.3	18.8	18.8	22.8
72.5°	32.4	28.6	23.3	18.2	15.6	12.3	12.3	11.7	13.0	13.7	16.9
75°	16.9	13.0	13.0	9.1	6.5	3.3	5.8	5.2	4.6	5.2	6.5
77.5°	11.7	9.8	9.1	7.2	6.5	5.2	5.2	5.2	5.2	5.8	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	1.9	2.6	4.6	1.9	2.6	2.6	2.6	1.9
87.5°	1.3	1.9	1.9	1.9	1.3	0.7	1.3	1.9	1.9	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°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1210.9	1211.6	1211.6	1210.9	1210.9	1209.6	1212.1	1210.2	1210.9	1213.5	1211.6
5°	1212.1	1212.8	1212.8	1212.1	1212.1	1212.1	1212.8	1212.8	1212.1	1211.6	1212.8
7.5°	1214.8	1214.2	1214.2	1212.8	1212.8	1211.6	1212.8	1210.9	1212.1	1210.9	1212.8
10°	1211.6	1212.1	1211.6	1210.9	1210.9	1210.2	1210.2	1208.3	1209.0	1207.0	1208.3
12.5°	1209.6	1209.0	1209.0	1207.7	1206.3	1205.1	1204.4	1202.5	1202.5	1197.9	1199.9
15°	1204.4	1205.1	1203.1	1200.5	1199.2	1196.0	1194.6	1192.1	1189.5	1186.2	1186.9
17.5°	1199.9	1197.9	1195.3	1192.7	1187.5	1184.9	1182.3	1178.4	1177.2	1173.2	1172.0
20°	1186.2	1184.9	1181.6	1177.2	1173.9	1168.1	1165.5	1161.6	1158.3	1154.4	1152.5
22.5°	1168.8	1167.4	1163.5	1159.0	1153.7	1151.2	1148.6	1141.5	1138.3	1134.3	1133.7
25°	1146.7	1144.7	1140.8	1135.6	1133.0	1125.9	1123.2	1118.1	1116.9	1112.9	1112.3
27.5°	1112.9	1110.4	1105.8	1099.3	1094.8	1090.2	1087.6	1083.7	1082.4	1078.5	1077.8
30°	1062.3	1059.0	1049.9	1047.4	1039.6	1035.0	1035.0	1029.9	1030.5	1028.0	1028.0
32.5°	982.4	977.3	970.1	965.0	959.8	957.2	957.2	955.2	956.5	956.5	957.8
35°	876.7	869.6	865.6	862.4	862.4	865.0	872.8	874.7	878.6	881.9	884.5
37.5°	741.1	740.4	745.0	748.8	758.6	769.7	783.2	794.9	806.0	813.7	821.6
40°	594.5	610.6	623.6	641.8	656.7	678.1	702.8	722.9	741.8	755.3	769.7
42.5°	464.0	484.7	512.0	538.6	565.2	594.5	626.9	654.8	679.4	698.3	713.2
45°	361.4	390.0	423.1	456.8	491.2	527.5	561.3	589.9	615.9	635.3	650.2
47.5°	291.3	322.5	360.2	397.2	436.1	474.4	512.0	536.6	558.0	573.6	587.3
50°	240.8	273.9	313.4	355.6	394.6	432.8	465.3	489.3	506.8	520.5	528.9
52.5°	201.1	236.2	278.3	320.6	359.5	394.6	423.7	441.9	456.2	465.9	473.7
55°	166.1	199.9	239.4	279.0	317.4	350.4	374.4	388.1	399.1	404.9	409.5
57.5°	135.6	166.8	203.1	239.4	272.5	299.8	318.6	332.3	337.4	342.0	341.3
60°	106.4	135.6	168.7	199.9	228.5	250.4	264.1	271.8	275.8	277.8	276.4
62.5°	83.7	110.3	135.6	162.9	183.6	202.5	215.5	215.5	217.4	218.0	219.9
65°	62.3	82.4	104.5	124.5	141.5	153.8	161.0	162.9	165.5	164.8	163.6
67.5°	46.1	61.0	77.2	92.1	103.8	111.7	116.8	121.4	120.7	119.4	118.7
70°	31.8	41.6	55.8	64.9	73.3	81.2	82.4	83.1	83.7	84.4	83.1
72.5°	22.1	29.1	37.0	44.7	50.0	53.2	56.5	57.1	57.1	57.1	56.5
75°	11.0	14.9	22.1	25.3	29.8	31.2	33.7	33.7	35.6	33.1	32.4
77.5°	9.8	11.7	15.6	18.2	20.1	22.1	22.8	24.7	24.0	22.8	23.3
80°	5.8	7.2	9.8	11.0	13.7	14.2	14.9	15.6	14.9	15.6	15.6
82.5°	4.6	5.2	6.5	6.5	8.4	8.4	9.1	9.1	9.8	9.8	9.8
85°	2.6	4.6	3.9	7.7	5.2	5.2	6.5	7.7	6.5	6.5	7.7
87.5°	2.6	2.6	1.9	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



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CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1209.0	1209.0	1209.0	1209.0
2.5°	1210.9	1212.1	1210.2	1209.6
5°	1212.8	1212.8	1211.6	1211.6
7.5°	1212.8	1212.8	1210.9	1209.6
10°	1207.7	1207.7	1205.7	1204.4
12.5°	1197.9	1197.9	1197.2	1195.3
15°	1185.6	1185.6	1183.0	1181.1
17.5°	1168.8	1170.0	1166.7	1166.7
20°	1150.6	1149.9	1147.3	1146.0
22.5°	1131.8	1130.4	1129.7	1125.9
25°	1111.6	1110.4	1108.3	1106.4
27.5°	1077.2	1076.6	1074.6	1072.0
30°	1024.6	1024.0	1021.5	1021.5
32.5°	956.5	955.9	953.3	954.0
35°	885.8	888.4	887.0	884.5
37.5°	826.7	828.6	830.0	828.6
40°	777.4	783.2	783.9	785.3
42.5°	724.8	732.7	735.3	736.5
45°	662.0	669.0	674.8	673.6
47.5°	597.6	602.9	608.0	604.1
50°	536.1	539.2	541.2	541.2
52.5°	477.7	477.7	477.0	477.7
55°	410.7	410.7	408.2	409.5
57.5°	340.7	342.0	340.0	336.7
60°	275.8	272.5	271.3	269.3
62.5°	214.8	214.8	210.3	216.1
65°	161.0	159.0	157.1	156.4
67.5°	116.8	116.1	114.2	113.6
70°	82.4	79.8	79.1	77.9
72.5°	55.2	55.2	53.8	53.8
75°	33.7	30.5	29.8	30.5
77.5°	23.3	22.8	22.8	22.1
80°	15.6	14.9	16.3	14.2
82.5°	9.8	10.4	9.8	10.4
85°	6.5	7.7	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)