

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252699

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

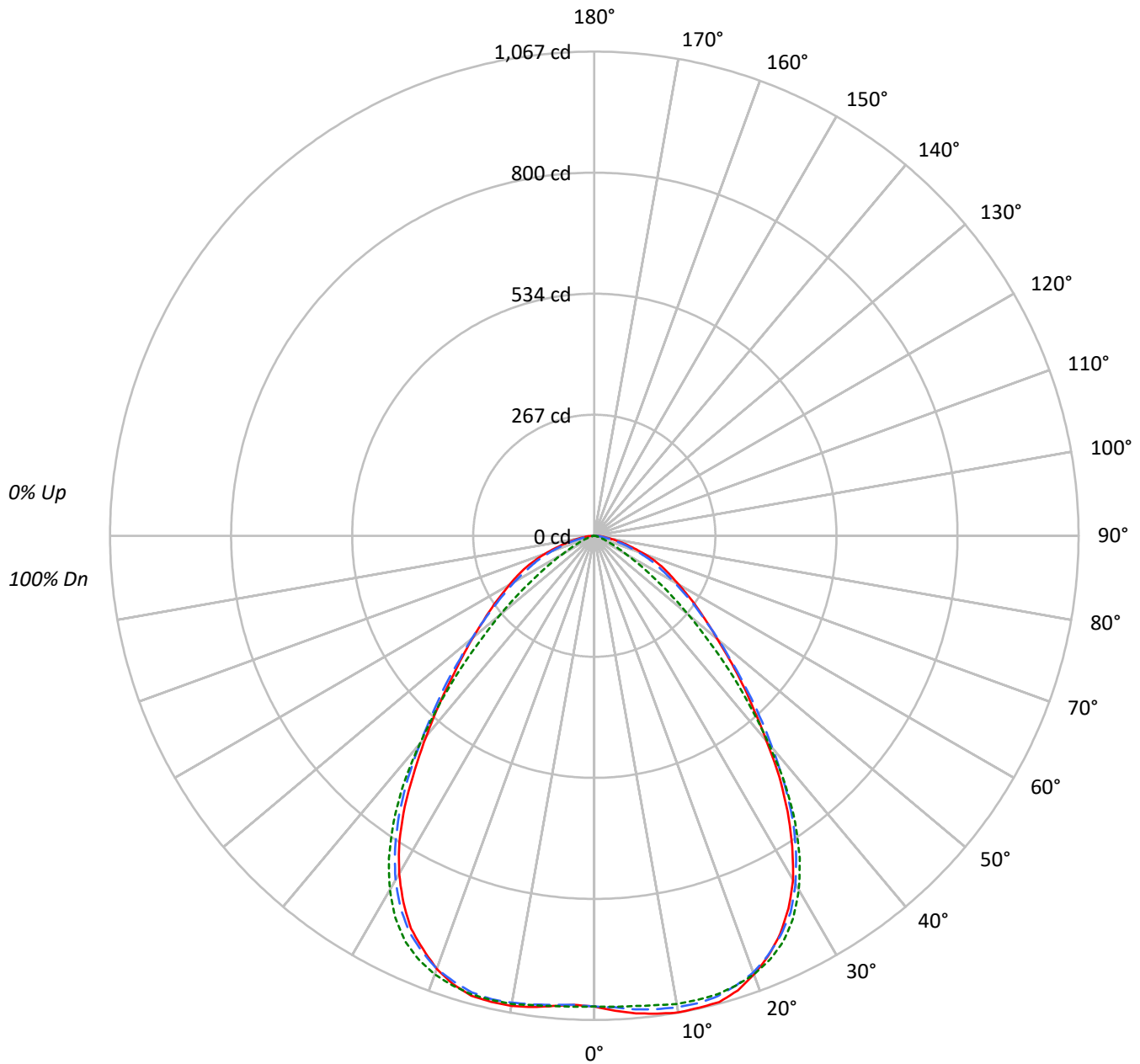
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67681	67681	67681
5°	69183	68129	68129
10°	70666	69400	69692
15°	71851	70663	70858
20°	71413	71413	70497
25°	69710	70977	68760
30°	65992	67868	64772
35°	59128	61469	57965
40°	50231	50861	48987
45°	42506	38852	41021
50°	35889	27404	35443
55°	31541	17687	31211
60°	27949	10530	28145
65°	25827	6345	25827
70°	22394	3643	21822
75°	17746	2218	16637
80°	13225	1653	12661
85°	12052	1123	11004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	4.9
10°-20°	295.6	14.4
20°-30°	444.6	21.6
30°-40°	467.4	22.7
40°-50°	349.2	17.0
50°-60°	217.4	10.6
60°-70°	123.6	6.0
70°-80°	50.9	2.5
80°-90°	10.5	0.5
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°	840.0	40.8
0°-40°	1307.4	63.5
0°-60°	1873.9	91.0
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1037	1037	1037	1037	1037	
5°	1056	1048	1040	1037	1040	101
15°	1064	1051	1046	1042	1049	299
25°	968	971	986	964	955	443
35°	742	762	772	750	728	461
45°	461	471	421	462	445	357
55°	277	271	156	267	274	249
65°	167	150	41	150	167	165
75°	70	56	9	54	66	77
85°	16	10	2	9	15	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4
2.5°	1047.6	1046.2	1047.6	1044.7	1043.2	1043.2	1044.7	1041.8	1040.3	1041.8	1040.3
5°	1056.4	1053.5	1055.0	1053.5	1050.6	1050.6	1052.0	1047.6	1047.6	1049.1	1047.6
7.5°	1062.3	1062.3	1062.3	1059.4	1057.9	1056.4	1059.4	1055.0	1053.5	1053.5	1052.0
10°	1066.7	1065.2	1066.7	1063.8	1060.8	1059.4	1062.3	1059.4	1056.4	1059.4	1055.0
12.5°	1065.2	1065.2	1065.2	1063.8	1060.8	1059.4	1062.3	1057.9	1056.4	1057.9	1055.0
15°	1063.8	1059.4	1060.8	1059.4	1055.0	1055.0	1056.4	1052.0	1049.1	1053.5	1050.6
17.5°	1050.6	1047.6	1049.1	1046.2	1043.2	1041.8	1043.2	1041.8	1038.8	1041.8	1038.8
20°	1028.6	1028.6	1030.0	1027.1	1024.2	1022.7	1025.6	1022.7	1019.8	1024.2	1024.2
22.5°	1002.2	1002.2	1002.2	1000.7	999.2	999.2	999.2	997.8	996.3	999.2	1000.7
25°	968.4	966.9	968.4	969.9	968.4	966.9	968.4	968.4	965.5	971.3	971.3
27.5°	925.9	925.9	928.8	927.3	927.3	925.9	928.8	928.8	927.3	931.7	936.1
30°	876.0	873.0	876.0	876.0	877.4	877.4	878.9	878.9	878.9	883.3	886.2
32.5°	811.4	812.9	817.3	815.8	814.3	818.7	818.7	821.7	823.1	826.1	827.5
35°	742.4	743.9	743.9	745.4	748.3	745.4	752.7	751.2	752.7	758.6	761.5
37.5°	669.1	664.7	672.0	669.1	670.5	670.5	673.5	674.9	679.4	686.7	686.7
40°	589.8	591.3	594.2	595.7	597.2	597.2	597.2	601.6	603.1	611.9	610.4
42.5°	520.9	520.9	523.8	525.3	525.3	525.3	525.3	529.7	532.6	535.6	538.5
45°	460.7	456.3	459.3	459.3	462.2	460.7	463.7	466.6	468.1	472.5	471.0
47.5°	403.5	402.0	403.5	405.0	403.5	405.0	406.4	407.9	409.4	409.4	409.4
50°	353.6	353.6	355.1	356.5	356.5	356.5	356.5	358.0	358.0	361.0	358.0
52.5°	312.5	314.0	314.0	312.5	314.0	314.0	315.5	315.5	314.0	314.0	309.6
55°	277.3	275.8	277.3	275.8	277.3	277.3	275.8	275.8	274.4	272.9	271.4
57.5°	243.6	243.6	243.6	243.6	242.1	243.6	242.1	240.6	240.6	237.7	233.3
60°	214.2	214.2	214.2	214.2	214.2	212.8	214.2	212.8	209.8	206.9	201.0
62.5°	189.3	187.8	189.3	187.8	187.8	186.3	186.3	184.9	181.9	179.0	173.1
65°	167.3	168.7	167.3	167.3	165.8	164.3	164.3	162.9	158.5	155.5	149.7
67.5°	143.8	142.3	142.3	142.3	140.9	140.9	140.9	137.9	135.0	130.6	124.7
70°	117.4	117.4	117.4	115.9	115.9	114.4	114.4	113.0	110.0	107.1	99.8
72.5°	92.4	92.4	92.4	89.5	91.0	89.5	89.5	86.6	85.1	80.7	76.3
75°	70.4	70.4	69.0	69.0	67.5	66.0	66.0	64.6	63.1	60.2	55.8
77.5°	51.4	51.4	51.4	49.9	48.4	47.0	47.0	45.5	44.0	42.6	39.6
80°	35.2	35.2	35.2	35.2	33.7	32.3	32.3	30.8	30.8	29.3	26.4
82.5°	23.5	23.5	23.5	23.5	22.0	22.0	22.0	20.5	19.1	19.1	16.1
85°	16.1	16.1	14.7	14.7	14.7	14.7	13.2	13.2	11.7	10.3	10.3
87.5°	8.8	8.8	8.8	8.8	7.3	7.3	7.3	7.3	5.9	5.9	4.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4
2.5°	1044.7	1044.7	1043.2	1038.8	1040.3	1038.8	1040.3	1038.8	1034.4	1038.8	1034.4
5°	1050.6	1052.0	1049.1	1043.2	1044.7	1043.2	1043.2	1041.8	1037.4	1040.3	1037.4
7.5°	1056.4	1055.0	1053.5	1047.6	1049.1	1047.6	1047.6	1044.7	1040.3	1043.2	1038.8
10°	1059.4	1059.4	1056.4	1050.6	1050.6	1049.1	1050.6	1049.1	1043.2	1047.6	1044.7
12.5°	1059.4	1057.9	1057.9	1050.6	1052.0	1050.6	1052.0	1049.1	1044.7	1047.6	1046.2
15°	1055.0	1055.0	1053.5	1046.2	1047.6	1047.6	1049.1	1046.2	1041.8	1046.2	1043.2
17.5°	1046.2	1046.2	1044.7	1038.8	1041.8	1041.8	1043.2	1040.3	1035.9	1038.8	1038.8
20°	1028.6	1030.0	1030.0	1025.6	1028.6	1028.6	1030.0	1028.6	1027.1	1028.6	1025.6
22.5°	1008.0	1011.0	1011.0	1006.6	1009.5	1009.5	1013.9	1012.4	1009.5	1011.0	1009.5
25°	977.2	980.1	983.1	980.1	983.1	983.1	987.5	986.0	983.1	986.0	981.6
27.5°	942.0	943.5	946.4	943.5	947.9	946.4	950.8	949.3	944.9	949.3	947.9
30°	892.1	898.0	902.4	898.0	902.4	902.4	905.3	903.8	902.4	900.9	900.9
32.5°	836.4	842.2	842.2	840.8	843.7	843.7	845.2	842.2	840.8	842.2	843.7
35°	767.4	770.3	773.3	771.8	773.3	774.7	773.3	774.7	770.3	771.8	771.8
37.5°	692.6	695.5	695.5	691.1	694.0	694.0	691.1	691.1	688.2	691.1	685.2
40°	613.3	610.4	611.9	608.9	606.0	606.0	604.5	598.7	595.7	597.2	598.7
42.5°	535.6	535.6	531.2	523.8	516.5	516.5	512.1	509.1	503.3	506.2	504.7
45°	469.5	462.2	456.3	444.6	440.2	437.2	429.9	422.6	419.6	421.1	419.6
47.5°	406.4	400.6	385.9	369.8	365.4	361.0	352.1	343.3	340.4	337.5	337.5
50°	353.6	343.3	327.2	309.6	302.3	294.9	283.2	274.4	268.5	270.0	270.0
52.5°	305.2	293.5	274.4	252.4	243.6	234.8	224.5	214.2	209.8	208.4	208.4
55°	262.6	249.4	230.4	205.4	198.1	187.8	174.6	162.9	157.0	155.5	158.5
57.5°	224.5	212.8	190.7	165.8	157.0	146.7	133.5	123.3	115.9	114.4	115.9
60°	193.7	177.5	158.5	135.0	123.3	114.4	99.8	91.0	83.6	80.7	82.2
62.5°	162.9	148.2	129.1	105.6	96.8	88.0	74.8	64.6	58.7	57.2	58.7
65°	139.4	124.7	107.1	86.6	77.8	69.0	57.2	47.0	42.6	41.1	42.6
67.5°	115.9	102.7	88.0	69.0	61.6	54.3	42.6	35.2	29.3	27.9	29.3
70°	93.9	82.2	67.5	54.3	47.0	41.1	32.3	24.9	20.5	19.1	20.5
72.5°	70.4	61.6	51.4	39.6	35.2	30.8	23.5	17.6	14.7	13.2	14.7
75°	51.4	44.0	36.7	27.9	24.9	22.0	16.1	11.7	10.3	8.8	10.3
77.5°	35.2	30.8	24.9	19.1	16.1	14.7	10.3	8.8	7.3	5.9	5.9
80°	23.5	20.5	16.1	13.2	11.7	10.3	7.3	5.9	4.4	4.4	4.4
82.5°	14.7	11.7	10.3	7.3	5.9	5.9	4.4	2.9	2.9	2.9	2.9
85°	8.8	7.3	5.9	4.4	2.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	4.4	2.9	2.9	1.5	1.5	1.5	1.5	1.5	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4
2.5°	1037.4	1034.4	1034.4	1035.9	1037.4	1038.8	1035.9	1034.4	1034.4	1038.8	1035.9
5°	1037.4	1035.9	1035.9	1035.9	1038.8	1040.3	1037.4	1035.9	1037.4	1041.8	1040.3
7.5°	1041.8	1038.8	1040.3	1040.3	1041.8	1044.7	1041.8	1040.3	1041.8	1046.2	1043.2
10°	1044.7	1041.8	1043.2	1041.8	1046.2	1047.6	1044.7	1043.2	1044.7	1050.6	1049.1
12.5°	1046.2	1044.7	1044.7	1043.2	1047.6	1049.1	1046.2	1044.7	1046.2	1050.6	1049.1
15°	1043.2	1041.8	1041.8	1041.8	1044.7	1047.6	1043.2	1041.8	1041.8	1046.2	1044.7
17.5°	1037.4	1034.4	1034.4	1034.4	1035.9	1037.4	1033.0	1031.5	1030.0	1034.4	1033.0
20°	1027.1	1024.2	1021.2	1021.2	1022.7	1022.7	1019.8	1015.4	1015.4	1016.8	1013.9
22.5°	1008.0	1006.6	1003.6	1002.2	1005.1	1003.6	997.8	993.3	991.9	993.3	990.4
25°	981.6	978.7	977.2	975.7	977.2	975.7	969.9	964.0	964.0	964.0	959.6
27.5°	944.9	942.0	940.5	940.5	942.0	939.1	933.2	927.3	924.4	924.4	920.0
30°	898.0	898.0	896.5	895.0	893.6	893.6	884.8	878.9	876.0	877.4	874.5
32.5°	840.8	839.3	837.8	833.4	834.9	833.4	826.1	821.7	817.3	814.3	812.9
35°	767.4	767.4	765.9	765.9	765.9	764.5	757.1	752.7	749.8	748.3	743.9
37.5°	686.7	685.2	683.8	683.8	683.8	683.8	679.4	674.9	674.9	673.5	670.5
40°	595.7	597.2	598.7	597.2	601.6	606.0	600.1	597.2	595.7	600.1	594.2
42.5°	507.7	506.2	513.5	515.0	515.0	522.4	523.8	525.3	523.8	526.8	526.8
45°	422.6	421.1	428.4	431.4	438.7	447.5	451.9	459.3	462.2	465.1	462.2
47.5°	341.9	347.7	353.6	361.0	366.8	381.5	390.3	397.6	400.6	405.0	405.0
50°	274.4	280.3	290.5	296.4	303.7	321.3	336.0	346.3	352.1	356.5	355.1
52.5°	211.3	221.6	234.8	240.6	250.9	271.4	287.6	299.3	306.7	311.1	312.5
55°	162.9	171.7	184.9	193.7	204.0	226.0	246.5	259.7	267.0	272.9	275.8
57.5°	120.3	130.6	145.3	152.6	164.3	189.3	206.9	223.0	231.8	239.2	240.6
60°	88.0	98.3	111.5	120.3	132.1	157.0	177.5	192.2	202.5	208.4	211.3
62.5°	63.1	73.4	86.6	95.4	105.6	127.7	148.2	162.9	173.1	180.5	184.9
65°	45.5	55.8	69.0	76.3	85.1	105.6	124.7	139.4	149.7	158.5	161.4
67.5°	33.7	41.1	52.8	60.2	69.0	85.1	101.2	114.4	124.7	132.1	135.0
70°	24.9	30.8	41.1	45.5	51.4	66.0	79.2	91.0	99.8	105.6	108.6
72.5°	17.6	22.0	29.3	33.7	38.1	49.9	60.2	69.0	74.8	80.7	83.6
75°	11.7	14.7	20.5	23.5	26.4	35.2	42.6	49.9	54.3	58.7	60.2
77.5°	7.3	10.3	14.7	16.1	19.1	23.5	29.3	33.7	36.7	39.6	42.6
80°	4.4	5.9	8.8	10.3	11.7	16.1	19.1	22.0	24.9	27.9	29.3
82.5°	2.9	4.4	5.9	5.9	7.3	8.8	11.7	14.7	16.1	17.6	19.1
85°	1.5	1.5	2.9	2.9	4.4	4.4	5.9	7.3	8.8	10.3	11.7
87.5°	1.5	1.5	1.5	1.5	2.9	2.9	4.4	4.4	4.4	5.9	5.9
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: LD6B30D010 EU6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4
2.5°	1033.0	1037.4	1033.0	1035.9	1034.4	1034.4	1033.0	1034.4
5°	1037.4	1043.2	1037.4	1041.8	1038.8	1038.8	1038.8	1040.3
7.5°	1041.8	1047.6	1043.2	1047.6	1046.2	1044.7	1044.7	1047.6
10°	1046.2	1050.6	1047.6	1052.0	1050.6	1049.1	1049.1	1052.0
12.5°	1046.2	1052.0	1049.1	1053.5	1052.0	1050.6	1050.6	1052.0
15°	1041.8	1049.1	1044.7	1049.1	1047.6	1046.2	1046.2	1049.1
17.5°	1028.6	1034.4	1031.5	1034.4	1034.4	1033.0	1034.4	1035.9
20°	1011.0	1015.4	1012.4	1015.4	1015.4	1012.4	1013.9	1015.4
22.5°	986.0	990.4	987.5	990.4	988.9	987.5	987.5	986.0
25°	955.2	961.1	956.7	959.6	956.7	953.7	953.7	955.2
27.5°	917.1	921.5	915.6	918.5	915.6	912.6	912.6	911.2
30°	867.2	868.6	864.2	867.2	864.2	862.8	859.8	859.8
32.5°	807.0	808.5	804.1	804.1	801.1	801.1	795.3	799.7
35°	736.6	738.0	736.6	735.1	730.7	729.2	727.8	727.8
37.5°	663.2	663.2	658.8	657.3	654.4	651.5	652.9	648.5
40°	588.4	586.9	582.5	584.0	582.5	578.1	576.6	575.2
42.5°	518.0	518.0	513.5	515.0	512.1	510.6	506.2	507.7
45°	456.3	456.3	451.9	451.9	450.5	446.1	447.5	444.6
47.5°	400.6	400.6	399.1	399.1	394.7	393.2	393.2	393.2
50°	352.1	352.1	352.1	352.1	350.7	349.2	347.7	349.2
52.5°	311.1	314.0	312.5	312.5	311.1	309.6	308.1	308.1
55°	274.4	275.8	275.8	277.3	275.8	274.4	275.8	274.4
57.5°	242.1	245.0	245.0	245.0	245.0	245.0	243.6	242.1
60°	214.2	215.7	215.7	217.2	217.2	217.2	215.7	215.7
62.5°	186.3	189.3	190.7	190.7	192.2	190.7	190.7	190.7
65°	164.3	167.3	168.7	167.3	168.7	168.7	167.3	167.3
67.5°	137.9	140.9	140.9	140.9	140.9	142.3	140.9	140.9
70°	111.5	114.4	113.0	114.4	114.4	114.4	114.4	114.4
72.5°	85.1	86.6	88.0	88.0	89.5	88.0	88.0	88.0
75°	61.6	64.6	64.6	64.6	64.6	66.0	66.0	66.0
77.5°	44.0	45.5	45.5	47.0	47.0	47.0	47.0	48.4
80°	30.8	30.8	32.3	32.3	33.7	33.7	33.7	33.7
82.5°	20.5	22.0	22.0	22.0	22.0	22.0	22.0	22.0
85°	11.7	13.2	13.2	13.2	13.2	14.7	14.7	14.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)