

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: P252676

Luminaire Tested: **LD6B20D010 EU6B10208035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252676
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: LD6B20D010 EU6B10208035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1950.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

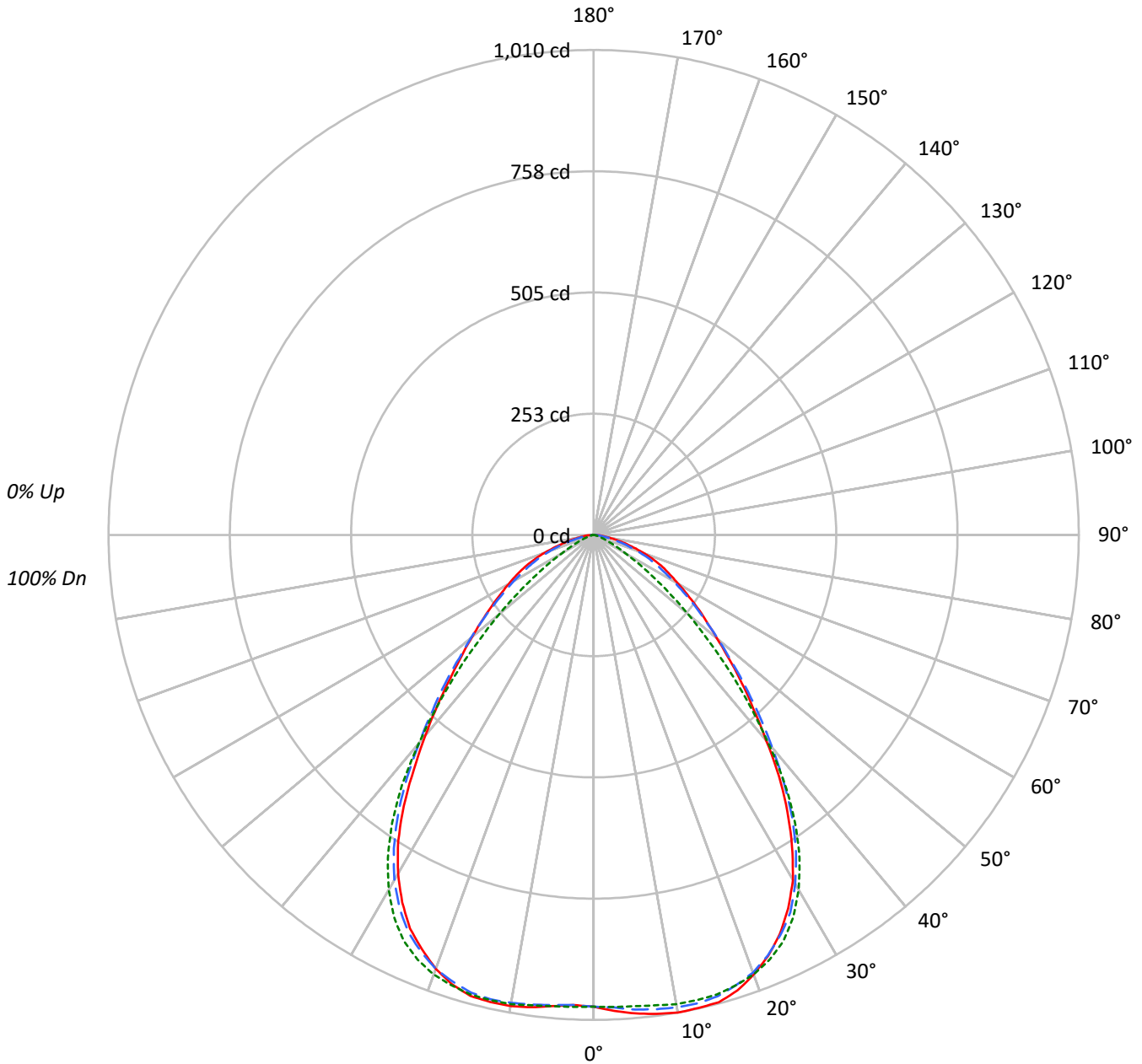
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

Luminous Intensity Polar Plot





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CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	64099	64099	64099
5°	65523	64521	64521
10°	66923	65730	66002
15°	68049	66921	67110
20°	67629	67629	66762
25°	66018	67220	65118
30°	62497	64274	61344
35°	55998	58212	54891
40°	47573	48170	46390
45°	40255	36795	38852
50°	33991	25953	33565
55°	29869	16754	29562
60°	26475	9969	26657
65°	24453	6005	24453
70°	21211	3453	20677
75°	16813	2092	15754
80°	12549	1578	12023
85°	11453	1048	10405



TEST NUMBER: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	4.9
10°-20°	279.9	14.4
20°-30°	421.0	21.6
30°-40°	442.7	22.7
40°-50°	330.7	17.0
50°-60°	205.9	10.6
60°-70°	117.1	6.0
70°-80°	48.2	2.5
80°-90°	10.0	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°	795.5	40.8
0°-40°	1238.2	63.5
0°-60°	1774.7	91.0
0°-90°	1950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1950.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	982	982	982	982	982	
5°	1000	992	985	982	985	96
15°	1008	995	991	987	994	283
25°	917	920	934	913	905	420
35°	703	721	731	710	689	436
45°	436	446	399	438	421	338
55°	263	257	147	253	260	236
65°	158	142	39	142	158	156
75°	67	53	8	51	62	72
85°	15	10	1	8	14	17
90°	0	0	0	0	0	



TEST NUMBER: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
2.5°	992.2	990.8	992.2	989.4	988.0	988.0	989.4	986.6	985.2	986.6	985.2
5°	1000.5	997.7	999.1	997.7	995.0	995.0	996.3	992.2	992.2	993.6	992.2
7.5°	1006.1	1006.1	1006.1	1003.3	1001.9	1000.5	1003.3	999.1	997.7	997.7	996.3
10°	1010.2	1008.9	1010.2	1007.5	1004.7	1003.3	1006.1	1003.3	1000.5	1003.3	999.1
12.5°	1008.9	1008.9	1008.9	1007.5	1004.7	1003.3	1006.1	1001.9	1000.5	1001.9	999.1
15°	1007.5	1003.3	1004.7	1003.3	999.1	999.1	1000.5	996.3	993.6	997.7	995.0
17.5°	995.0	992.2	993.6	990.8	988.0	986.6	988.0	986.6	983.8	986.6	983.8
20°	974.1	974.1	975.5	972.7	969.9	968.6	971.3	968.6	965.8	969.9	969.9
22.5°	949.1	949.1	949.1	947.7	946.3	946.3	946.3	944.9	943.5	946.3	947.7
25°	917.1	915.8	917.1	918.5	917.1	915.8	917.1	917.1	914.4	919.9	919.9
27.5°	876.8	876.8	879.6	878.2	878.2	876.8	879.6	879.6	878.2	882.4	886.6
30°	829.6	826.8	829.6	829.6	831.0	831.0	832.4	832.4	832.4	836.5	839.3
32.5°	768.5	769.8	774.0	772.6	771.2	775.4	775.4	778.2	779.6	782.3	783.7
35°	703.1	704.5	704.5	705.9	708.7	705.9	712.9	711.5	712.9	718.4	721.2
37.5°	633.7	629.5	636.4	633.7	635.1	635.1	637.8	639.2	643.4	650.3	650.3
40°	558.6	560.0	562.8	564.2	565.6	565.6	565.6	569.7	571.1	579.5	578.1
42.5°	493.3	493.3	496.1	497.5	497.5	497.5	497.5	501.6	504.4	507.2	510.0
45°	436.3	432.2	434.9	434.9	437.7	436.3	439.1	441.9	443.3	447.5	446.1
47.5°	382.1	380.8	382.1	383.5	382.1	383.5	384.9	386.3	387.7	387.7	387.7
50°	334.9	334.9	336.3	337.7	337.7	337.7	337.7	339.1	339.1	341.8	339.1
52.5°	296.0	297.4	297.4	296.0	297.4	297.4	298.8	298.8	297.4	297.4	293.2
55°	262.6	261.2	262.6	261.2	262.6	262.6	261.2	261.2	259.9	258.5	257.1
57.5°	230.7	230.7	230.7	230.7	229.3	230.7	229.3	227.9	227.9	225.1	220.9
60°	202.9	202.9	202.9	202.9	202.9	201.5	202.9	201.5	198.7	195.9	190.4
62.5°	179.3	177.9	179.3	177.9	177.9	176.5	176.5	175.1	172.3	169.5	164.0
65°	158.4	159.8	158.4	158.4	157.0	155.6	155.6	154.2	150.1	147.3	141.7
67.5°	136.2	134.8	134.8	134.8	133.4	133.4	133.4	130.6	127.8	123.7	118.1
70°	111.2	111.2	111.2	109.8	109.8	108.4	108.4	107.0	104.2	101.4	94.5
72.5°	87.5	87.5	87.5	84.8	86.2	84.8	84.8	82.0	80.6	76.4	72.3
75°	66.7	66.7	65.3	65.3	63.9	62.5	62.5	61.1	59.8	57.0	52.8
77.5°	48.6	48.6	48.6	47.2	45.9	44.5	44.5	43.1	41.7	40.3	37.5
80°	33.4	33.4	33.4	33.4	32.0	30.6	30.6	29.2	29.2	27.8	25.0
82.5°	22.2	22.2	22.2	22.2	20.8	20.8	20.8	19.5	18.1	18.1	15.3
85°	15.3	15.3	13.9	13.9	13.9	13.9	12.5	12.5	11.1	9.7	9.7
87.5°	8.3	8.3	8.3	8.3	6.9	6.9	6.9	6.9	5.6	5.6	4.2
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: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
2.5°	989.4	989.4	988.0	983.8	985.2	983.8	985.2	983.8	979.7	983.8	979.7
5°	995.0	996.3	993.6	988.0	989.4	988.0	988.0	986.6	982.5	985.2	982.5
7.5°	1000.5	999.1	997.7	992.2	993.6	992.2	992.2	989.4	985.2	988.0	983.8
10°	1003.3	1003.3	1000.5	995.0	995.0	993.6	995.0	993.6	988.0	992.2	989.4
12.5°	1003.3	1001.9	1001.9	995.0	996.3	995.0	996.3	993.6	989.4	992.2	990.8
15°	999.1	999.1	997.7	990.8	992.2	992.2	993.6	990.8	986.6	990.8	988.0
17.5°	990.8	990.8	989.4	983.8	986.6	986.6	988.0	985.2	981.1	983.8	983.8
20°	974.1	975.5	975.5	971.3	974.1	974.1	975.5	974.1	972.7	974.1	971.3
22.5°	954.7	957.4	957.4	953.3	956.0	956.0	960.2	958.8	956.0	957.4	956.0
25°	925.5	928.3	931.0	928.3	931.0	931.0	935.2	933.8	931.0	933.8	929.6
27.5°	892.1	893.5	896.3	893.5	897.7	896.3	900.5	899.1	894.9	899.1	897.7
30°	844.9	850.4	854.6	850.4	854.6	854.6	857.4	856.0	854.6	853.2	853.2
32.5°	792.1	797.6	797.6	796.2	799.0	799.0	800.4	797.6	796.2	797.6	799.0
35°	726.8	729.5	732.3	730.9	732.3	733.7	732.3	733.7	729.5	730.9	730.9
37.5°	655.9	658.7	658.7	654.5	657.3	657.3	654.5	654.5	651.7	654.5	648.9
40°	580.9	578.1	579.5	576.7	573.9	573.9	572.5	567.0	564.2	565.6	567.0
42.5°	507.2	507.2	503.0	496.1	489.1	489.1	485.0	482.2	476.6	479.4	478.0
45°	444.7	437.7	432.2	421.1	416.9	414.1	407.2	400.2	397.4	398.8	397.4
47.5°	384.9	379.4	365.5	350.2	346.0	341.8	333.5	325.2	322.4	319.6	319.6
50°	334.9	325.2	309.9	293.2	286.3	279.3	268.2	259.9	254.3	255.7	255.7
52.5°	289.0	277.9	259.9	239.0	230.7	222.3	212.6	202.9	198.7	197.3	197.3
55°	248.7	236.2	218.2	194.5	187.6	177.9	165.4	154.2	148.7	147.3	150.1
57.5°	212.6	201.5	180.6	157.0	148.7	139.0	126.5	116.7	109.8	108.4	109.8
60°	183.4	168.1	150.1	127.8	116.7	108.4	94.5	86.2	79.2	76.4	77.8
62.5°	154.2	140.4	122.3	100.1	91.7	83.4	70.9	61.1	55.6	54.2	55.6
65°	132.0	118.1	101.4	82.0	73.6	65.3	54.2	44.5	40.3	38.9	40.3
67.5°	109.8	97.3	83.4	65.3	58.4	51.4	40.3	33.4	27.8	26.4	27.8
70°	88.9	77.8	63.9	51.4	44.5	38.9	30.6	23.6	19.5	18.1	19.5
72.5°	66.7	58.4	48.6	37.5	33.4	29.2	22.2	16.7	13.9	12.5	13.9
75°	48.6	41.7	34.7	26.4	23.6	20.8	15.3	11.1	9.7	8.3	9.7
77.5°	33.4	29.2	23.6	18.1	15.3	13.9	9.7	8.3	6.9	5.6	5.6
80°	22.2	19.5	15.3	12.5	11.1	9.7	6.9	5.6	4.2	4.2	4.2
82.5°	13.9	11.1	9.7	6.9	5.6	5.6	4.2	2.8	2.8	2.8	2.8
85°	8.3	6.9	5.6	4.2	2.8	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	4.2	2.8	2.8	1.4	1.4	1.4	1.4	1.4	0.0	0.0	1.4
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: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
2.5°	982.5	979.7	979.7	981.1	982.5	983.8	981.1	979.7	979.7	983.8	981.1
5°	982.5	981.1	981.1	981.1	983.8	985.2	982.5	981.1	982.5	986.6	985.2
7.5°	986.6	983.8	985.2	985.2	986.6	989.4	986.6	985.2	986.6	990.8	988.0
10°	989.4	986.6	988.0	986.6	990.8	992.2	989.4	988.0	989.4	995.0	993.6
12.5°	990.8	989.4	989.4	988.0	992.2	993.6	990.8	989.4	990.8	995.0	993.6
15°	988.0	986.6	986.6	986.6	989.4	992.2	988.0	986.6	986.6	990.8	989.4
17.5°	982.5	979.7	979.7	979.7	981.1	982.5	978.3	976.9	975.5	979.7	978.3
20°	972.7	969.9	967.2	967.2	968.6	968.6	965.8	961.6	961.6	963.0	960.2
22.5°	954.7	953.3	950.5	949.1	951.9	950.5	944.9	940.8	939.4	940.8	938.0
25°	929.6	926.9	925.5	924.1	925.5	924.1	918.5	913.0	913.0	913.0	908.8
27.5°	894.9	892.1	890.7	890.7	892.1	889.3	883.8	878.2	875.5	875.5	871.3
30°	850.4	850.4	849.0	847.7	846.3	846.3	837.9	832.4	829.6	831.0	828.2
32.5°	796.2	794.9	793.5	789.3	790.7	789.3	782.3	778.2	774.0	771.2	769.8
35°	726.8	726.8	725.4	725.4	725.4	724.0	717.0	712.9	710.1	708.7	704.5
37.5°	650.3	648.9	647.6	647.6	647.6	647.6	643.4	639.2	639.2	637.8	635.1
40°	564.2	565.6	567.0	565.6	569.7	573.9	568.3	565.6	564.2	568.3	562.8
42.5°	480.8	479.4	486.4	487.8	487.8	494.7	496.1	497.5	496.1	498.9	498.9
45°	400.2	398.8	405.8	408.5	415.5	423.8	428.0	434.9	437.7	440.5	437.7
47.5°	323.8	329.3	334.9	341.8	347.4	361.3	369.6	376.6	379.4	383.5	383.5
50°	259.9	265.4	275.1	280.7	287.6	304.3	318.2	327.9	333.5	337.7	336.3
52.5°	200.1	209.8	222.3	227.9	237.6	257.1	272.4	283.5	290.4	294.6	296.0
55°	154.2	162.6	175.1	183.4	193.2	214.0	233.5	246.0	252.9	258.5	261.2
57.5°	113.9	123.7	137.6	144.5	155.6	179.3	195.9	211.2	219.6	226.5	227.9
60°	83.4	93.1	105.6	113.9	125.1	148.7	168.1	182.0	191.8	197.3	200.1
62.5°	59.8	69.5	82.0	90.3	100.1	120.9	140.4	154.2	164.0	170.9	175.1
65°	43.1	52.8	65.3	72.3	80.6	100.1	118.1	132.0	141.7	150.1	152.9
67.5°	32.0	38.9	50.0	57.0	65.3	80.6	95.9	108.4	118.1	125.1	127.8
70°	23.6	29.2	38.9	43.1	48.6	62.5	75.0	86.2	94.5	100.1	102.8
72.5°	16.7	20.8	27.8	32.0	36.1	47.2	57.0	65.3	70.9	76.4	79.2
75°	11.1	13.9	19.5	22.2	25.0	33.4	40.3	47.2	51.4	55.6	57.0
77.5°	6.9	9.7	13.9	15.3	18.1	22.2	27.8	32.0	34.7	37.5	40.3
80°	4.2	5.6	8.3	9.7	11.1	15.3	18.1	20.8	23.6	26.4	27.8
82.5°	2.8	4.2	5.6	5.6	6.9	8.3	11.1	13.9	15.3	16.7	18.1
85°	1.4	1.4	2.8	2.8	4.2	4.2	5.6	6.9	8.3	9.7	11.1
87.5°	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	4.2	5.6	5.6
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: P252676

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	982.5	982.5	982.5	982.5	982.5	982.5	982.5	982.5
2.5°	978.3	982.5	978.3	981.1	979.7	979.7	978.3	979.7
5°	982.5	988.0	982.5	986.6	983.8	983.8	983.8	985.2
7.5°	986.6	992.2	988.0	992.2	990.8	989.4	989.4	992.2
10°	990.8	995.0	992.2	996.3	995.0	993.6	993.6	996.3
12.5°	990.8	996.3	993.6	997.7	996.3	995.0	995.0	996.3
15°	986.6	993.6	989.4	993.6	992.2	990.8	990.8	993.6
17.5°	974.1	979.7	976.9	979.7	979.7	978.3	979.7	981.1
20°	957.4	961.6	958.8	961.6	961.6	958.8	960.2	961.6
22.5°	933.8	938.0	935.2	938.0	936.6	935.2	935.2	933.8
25°	904.6	910.2	906.0	908.8	906.0	903.2	903.2	904.6
27.5°	868.5	872.7	867.1	869.9	867.1	864.3	864.3	862.9
30°	821.3	822.6	818.5	821.3	818.5	817.1	814.3	814.3
32.5°	764.3	765.7	761.5	761.5	758.7	758.7	753.2	757.3
35°	697.6	699.0	697.6	696.2	692.0	690.6	689.2	689.2
37.5°	628.1	628.1	623.9	622.5	619.8	617.0	618.4	614.2
40°	557.2	555.8	551.7	553.1	551.7	547.5	546.1	544.7
42.5°	490.5	490.5	486.4	487.8	485.0	483.6	479.4	480.8
45°	432.2	432.2	428.0	428.0	426.6	422.4	423.8	421.1
47.5°	379.4	379.4	378.0	378.0	373.8	372.4	372.4	372.4
50°	333.5	333.5	333.5	333.5	332.1	330.7	329.3	330.7
52.5°	294.6	297.4	296.0	296.0	294.6	293.2	291.8	291.8
55°	259.9	261.2	261.2	262.6	261.2	259.9	261.2	259.9
57.5°	229.3	232.1	232.1	232.1	232.1	232.1	230.7	229.3
60°	202.9	204.3	204.3	205.7	205.7	205.7	204.3	204.3
62.5°	176.5	179.3	180.6	180.6	182.0	180.6	180.6	180.6
65°	155.6	158.4	159.8	158.4	159.8	159.8	158.4	158.4
67.5°	130.6	133.4	133.4	133.4	133.4	134.8	133.4	133.4
70°	105.6	108.4	107.0	108.4	108.4	108.4	108.4	108.4
72.5°	80.6	82.0	83.4	83.4	84.8	83.4	83.4	83.4
75°	58.4	61.1	61.1	61.1	61.1	62.5	62.5	62.5
77.5°	41.7	43.1	43.1	44.5	44.5	44.5	44.5	45.9
80°	29.2	29.2	30.6	30.6	32.0	32.0	32.0	32.0
82.5°	19.5	20.8	20.8	20.8	20.8	20.8	20.8	20.8
85°	11.1	12.5	12.5	12.5	12.5	13.9	13.9	13.9
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	5.6	5.6
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)