

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: P252469

Luminaire Tested: **LD6B20D010 EU6B10208040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10208040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1792.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

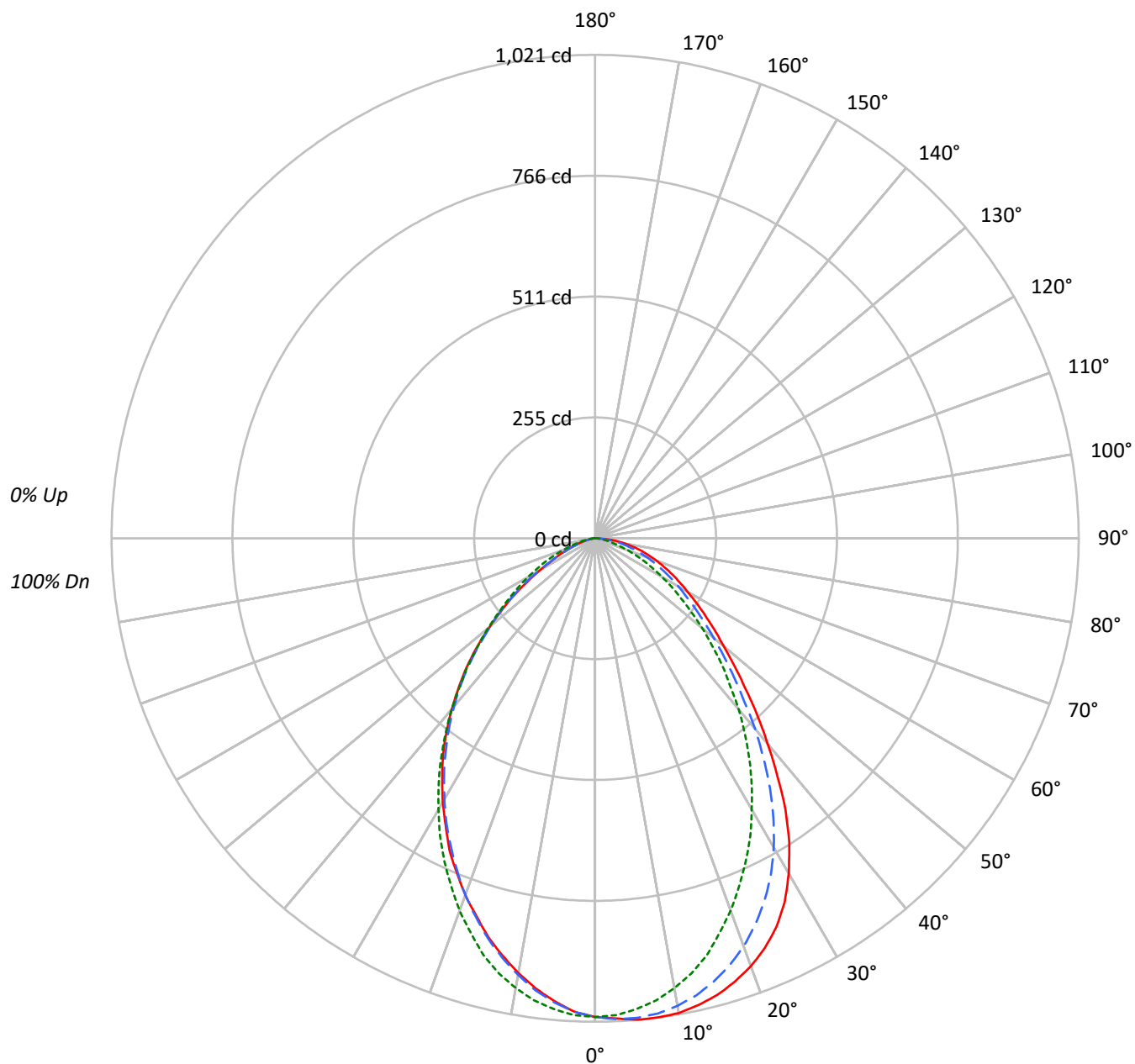
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65958	65958	65958
5°	66852	65379	64278
10°	67440	63902	61762
15°	67427	61551	58890
20°	66775	58097	55660
25°	65190	54176	52355
30°	61562	49818	48447
35°	55799	45182	44617
40°	48195	40181	40062
45°	41325	34977	35236
50°	35909	29931	29495
55°	32258	25228	23636
60°	29319	21255	17406
65°	27525	17552	12782
70°	26247	13658	9366
75°	25131	9906	6377
80°	23745	6875	4208
85°	21034	4192	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	5.3
10°-20°	259.0	14.5
20°-30°	359.6	20.1
30°-40°	372.4	20.8
40°-50°	306.1	17.1
50°-60°	210.3	11.7
60°-70°	120.9	6.7
70°-80°	55.6	3.1
80°-90°	13.5	0.8
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°	713.1	39.8
0°-40°	1085.6	60.6
0°-60°	1602.0	89.4
0°-90°	1792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1011	1011	1011	1011	1011	
5°	1021	1017	998	984	982	97
15°	998	969	911	875	872	281
25°	906	845	753	720	727	414
35°	701	643	567	550	560	434
45°	448	414	379	375	382	349
55°	284	257	222	209	208	255
65°	178	156	114	80	83	178
75°	100	79	39	25	25	105
85°	28	20	6	3	3	31
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°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	1015.2	1023.6	1018.0	1016.6	1019.4	1019.4	1019.4	1015.2	1018.0	1013.8	1016.6
5°	1020.8	1027.8	1022.2	1019.4	1022.2	1023.6	1019.4	1016.6	1020.8	1015.2	1016.6
7.5°	1020.8	1027.8	1022.2	1020.8	1022.2	1022.2	1020.8	1015.2	1018.0	1012.4	1012.4
10°	1018.0	1023.6	1018.0	1015.2	1016.6	1015.2	1015.2	1008.1	1009.5	1002.5	1002.5
12.5°	1009.5	1016.6	1009.5	1006.7	1006.7	1006.7	1002.5	996.9	998.3	989.9	988.5
15°	998.3	1003.9	996.9	994.1	994.1	992.7	989.9	981.5	981.5	973.0	968.8
17.5°	981.5	987.1	981.5	977.3	975.9	973.0	970.2	961.8	959.0	949.2	945.0
20°	961.8	966.0	960.4	956.2	953.4	950.6	945.0	936.5	933.7	923.9	916.9
22.5°	936.5	942.2	933.7	929.5	926.7	922.5	916.9	908.5	904.2	891.6	883.2
25°	905.6	908.5	901.4	897.2	891.6	888.8	884.6	873.4	869.1	855.1	845.3
27.5°	866.3	869.1	860.7	857.9	850.9	848.1	842.5	832.6	827.0	813.0	803.1
30°	817.2	820.0	814.4	810.2	804.6	798.9	794.7	784.9	776.5	762.4	754.0
32.5°	762.4	766.6	761.0	755.4	745.6	747.0	740.0	730.1	723.1	710.5	700.6
35°	700.6	703.5	696.4	695.0	689.4	683.8	676.8	669.8	665.5	651.5	643.1
37.5°	631.8	638.9	631.8	626.2	623.4	619.2	615.0	605.2	602.4	593.9	582.7
40°	565.9	570.1	565.9	560.2	556.0	556.0	550.4	544.8	537.8	529.3	525.1
42.5°	506.9	504.1	502.7	499.9	494.2	492.8	491.4	484.4	480.2	471.8	464.8
45°	447.9	449.3	446.5	445.1	440.9	438.1	435.3	429.7	428.3	419.8	414.2
47.5°	398.8	397.4	394.6	394.6	391.7	388.9	386.1	381.9	380.5	373.5	367.9
50°	353.8	355.2	353.8	352.4	348.2	346.8	344.0	341.2	338.4	331.4	325.8
52.5°	317.3	315.9	314.5	314.5	310.3	308.9	306.1	303.3	300.5	293.5	289.2
55°	283.6	283.6	282.2	280.8	276.6	275.2	273.8	271.0	266.8	261.2	257.0
57.5°	252.7	252.7	251.3	249.9	247.1	247.1	244.3	241.5	238.7	233.1	227.5
60°	224.7	226.1	224.7	223.3	220.4	220.4	219.0	214.8	213.4	206.4	202.2
62.5°	200.8	200.8	200.8	199.4	198.0	195.2	195.2	191.0	188.1	183.9	178.3
65°	178.3	178.3	178.3	176.9	174.1	172.7	171.3	168.5	165.7	161.5	155.9
67.5°	157.3	157.3	157.3	155.9	153.0	151.6	150.2	148.8	144.6	140.4	134.8
70°	137.6	137.6	136.2	134.8	133.4	132.0	130.6	127.8	125.0	119.3	115.1
72.5°	117.9	117.9	117.9	115.1	113.7	113.7	110.9	109.5	106.7	101.1	96.9
75°	99.7	98.3	98.3	96.9	95.5	94.1	92.7	91.3	87.1	84.2	78.6
77.5°	81.4	81.4	80.0	78.6	78.6	77.2	75.8	73.0	71.6	67.4	63.2
80°	63.2	63.2	63.2	63.2	61.8	60.4	60.4	57.6	56.2	52.0	49.1
82.5°	47.7	46.3	46.3	46.3	44.9	43.5	43.5	42.1	40.7	37.9	35.1
85°	28.1	26.7	26.7	26.7	25.3	25.3	23.9	23.9	22.5	19.7	19.7
87.5°	8.4	8.4	9.8	9.8	8.4	8.4	8.4	8.4	8.4	7.0	7.0
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°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	1013.8	1018.0	1012.4	1011.0	1016.6	1013.8	1012.4	1009.5	1011.0	1008.1	1003.9
5°	1012.4	1018.0	1011.0	1006.7	1013.8	1009.5	1006.7	1003.9	1003.9	998.3	995.5
7.5°	1008.1	1011.0	1003.9	999.7	1003.9	999.7	996.9	992.7	991.3	984.3	980.1
10°	996.9	999.7	991.3	985.7	989.9	984.3	980.1	975.9	973.0	964.6	959.0
12.5°	981.5	982.9	973.0	966.0	968.8	964.6	957.6	952.0	949.2	940.7	933.7
15°	960.4	961.8	950.6	940.7	943.6	937.9	929.5	923.9	919.7	911.3	901.4
17.5°	935.1	933.7	921.1	911.3	912.7	905.6	897.2	888.8	883.2	873.4	866.3
20°	907.0	902.8	888.8	877.6	879.0	870.5	860.7	852.3	845.3	836.8	827.0
22.5°	871.9	866.3	853.7	839.7	841.1	834.0	820.0	813.0	806.0	794.7	786.3
25°	834.0	825.6	813.0	798.9	798.9	790.5	779.3	770.9	763.8	752.6	742.8
27.5°	789.1	784.9	768.0	756.8	755.4	747.0	737.2	727.3	718.9	709.1	699.2
30°	740.0	732.9	720.3	707.7	704.9	697.8	688.0	676.8	671.2	661.3	652.9
32.5°	688.0	681.0	666.9	654.3	652.9	647.3	638.9	627.6	622.0	615.0	609.4
35°	629.0	626.2	612.2	602.4	602.4	596.7	588.3	578.5	574.3	567.3	560.2
37.5°	572.9	568.7	556.0	547.6	547.6	540.6	532.2	527.9	523.7	518.1	513.9
40°	513.9	511.1	501.3	492.8	494.2	488.6	483.0	477.4	474.6	471.8	467.6
42.5°	459.1	456.3	449.3	442.3	442.3	438.1	432.5	428.3	425.4	421.2	419.8
45°	410.0	405.8	400.2	393.1	393.1	388.9	386.1	383.3	381.9	379.1	374.9
47.5°	362.3	359.5	353.8	346.8	346.8	346.8	341.2	337.0	337.0	334.2	332.8
50°	321.5	317.3	313.1	307.5	307.5	304.7	300.5	296.3	296.3	294.9	292.1
52.5°	283.6	280.8	275.2	269.6	269.6	266.8	262.6	261.2	259.8	255.5	254.1
55°	251.3	248.5	244.3	237.3	235.9	234.5	230.3	227.5	226.1	221.8	221.8
57.5°	221.8	219.0	212.0	207.8	206.4	203.6	199.4	196.6	195.2	192.4	189.6
60°	196.6	192.4	186.7	181.1	179.7	176.9	172.7	169.9	168.5	162.9	160.1
62.5°	172.7	168.5	162.9	157.3	155.9	153.0	147.4	144.6	141.8	136.2	133.4
65°	150.2	146.0	140.4	134.8	132.0	130.6	125.0	120.8	117.9	113.7	108.1
67.5°	129.2	125.0	119.3	112.3	112.3	108.1	103.9	99.7	95.5	91.3	87.1
70°	109.5	105.3	99.7	94.1	92.7	89.9	85.7	80.0	77.2	71.6	67.4
72.5°	91.3	87.1	81.4	75.8	74.4	71.6	67.4	61.8	57.6	53.4	49.1
75°	74.4	70.2	64.6	60.4	59.0	56.2	52.0	46.3	42.1	39.3	35.1
77.5°	59.0	54.8	50.5	46.3	44.9	42.1	37.9	35.1	30.9	28.1	23.9
80°	44.9	42.1	37.9	35.1	33.7	30.9	28.1	23.9	21.1	18.3	16.8
82.5°	32.3	29.5	26.7	22.5	22.5	19.7	18.3	15.4	12.6	11.2	9.8
85°	18.3	15.4	14.0	12.6	11.2	11.2	9.8	8.4	7.0	5.6	5.6
87.5°	5.6	5.6	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8
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°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	1003.9	1005.3	1002.5	1005.3	1002.5	1003.9	1001.1	1003.9	1001.1	1003.9	998.3
5°	994.1	994.1	989.9	992.7	989.9	991.3	985.7	987.1	984.3	987.1	981.5
7.5°	977.3	978.7	971.6	974.4	970.2	970.2	966.0	967.4	963.2	964.6	960.4
10°	957.6	956.2	949.2	952.0	946.4	946.4	942.2	942.2	936.5	937.9	932.3
12.5°	929.5	928.1	919.7	922.5	916.9	916.9	912.7	912.7	907.0	909.9	904.2
15°	897.2	895.8	887.4	888.8	883.2	883.2	877.6	879.0	874.8	877.6	871.9
17.5°	860.7	859.3	850.9	852.3	845.3	846.7	842.5	841.1	838.2	839.7	835.4
20°	822.8	820.0	811.6	813.0	810.2	806.0	803.1	804.6	801.7	804.6	800.3
22.5°	783.5	777.9	770.9	770.9	768.0	768.0	763.8	766.6	761.0	765.2	762.4
25°	738.6	734.3	728.7	731.5	725.9	725.9	721.7	723.1	720.3	723.1	720.3
27.5°	695.0	692.2	683.8	686.6	682.4	683.8	679.6	681.0	679.6	682.4	679.6
30°	648.7	647.3	641.7	641.7	640.3	638.9	637.5	637.5	636.1	640.3	637.5
32.5°	605.2	601.0	595.3	599.6	592.5	596.7	593.9	596.7	593.9	596.7	595.3
35°	560.2	558.8	551.8	553.2	551.8	551.8	550.4	550.4	550.4	554.6	554.6
37.5°	512.5	511.1	506.9	508.3	505.5	504.1	504.1	506.9	506.9	509.7	509.7
40°	466.2	467.6	463.4	463.4	461.9	461.9	461.9	464.8	463.4	466.2	464.8
42.5°	419.8	419.8	415.6	417.0	415.6	417.0	417.0	419.8	419.8	421.2	419.8
45°	376.3	376.3	374.9	376.3	373.5	374.9	373.5	376.3	374.9	376.3	376.3
47.5°	332.8	332.8	332.8	331.4	331.4	331.4	331.4	331.4	330.0	332.8	331.4
50°	292.1	293.5	292.1	292.1	290.6	292.1	290.6	290.6	287.8	289.2	289.2
52.5°	255.5	255.5	252.7	252.7	252.7	251.3	251.3	251.3	249.9	249.9	247.1
55°	220.4	220.4	217.6	217.6	216.2	214.8	213.4	213.4	209.2	209.2	205.0
57.5°	188.1	186.7	182.5	182.5	179.7	178.3	176.9	175.5	172.7	169.9	168.5
60°	158.7	155.9	153.0	151.6	148.8	146.0	143.2	140.4	137.6	136.2	134.8
62.5°	130.6	126.4	123.6	122.2	119.3	115.1	112.3	109.5	106.7	105.3	102.5
65°	105.3	101.1	96.9	95.5	92.7	89.9	85.7	82.8	80.0	78.6	78.6
67.5°	82.8	78.6	73.0	73.0	70.2	67.4	64.6	61.8	60.4	61.8	61.8
70°	61.8	59.0	54.8	53.4	50.5	47.7	46.3	46.3	46.3	47.7	46.3
72.5°	46.3	42.1	39.3	37.9	36.5	35.1	35.1	35.1	33.7	35.1	35.1
75°	32.3	29.5	26.7	26.7	25.3	25.3	25.3	25.3	25.3	25.3	25.3
77.5°	22.5	19.7	18.3	18.3	18.3	16.8	16.8	16.8	16.8	16.8	16.8
80°	14.0	14.0	12.6	12.6	11.2	11.2	11.2	11.2	11.2	11.2	11.2
82.5°	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0	1011.0
2.5°	998.3	1002.5	996.9	1001.1	999.7	998.3	995.5	1001.1
5°	981.5	982.9	977.3	982.9	981.5	978.7	975.9	981.5
7.5°	957.6	961.8	954.8	960.4	959.0	956.2	953.4	959.0
10°	930.9	935.1	929.5	933.7	933.7	930.9	926.7	932.3
12.5°	901.4	904.2	898.6	904.2	902.8	900.0	898.6	902.8
15°	869.1	873.4	867.7	871.9	870.5	869.1	867.7	871.9
17.5°	834.0	838.2	834.0	838.2	838.2	834.0	832.6	835.4
20°	798.9	801.7	797.5	801.7	800.3	800.3	797.5	801.7
22.5°	759.6	763.8	761.0	763.8	762.4	762.4	761.0	763.8
25°	720.3	724.5	720.3	724.5	723.1	723.1	720.3	727.3
27.5°	681.0	683.8	679.6	685.2	683.8	681.0	682.4	683.8
30°	638.9	641.7	638.9	643.1	643.1	643.1	640.3	643.1
32.5°	596.7	601.0	596.7	601.0	599.6	599.6	598.1	601.0
35°	554.6	556.0	553.2	557.4	557.4	558.8	556.0	560.2
37.5°	511.1	512.5	511.1	512.5	515.3	511.1	513.9	515.3
40°	466.2	469.0	467.6	469.0	469.0	470.4	469.0	470.4
42.5°	421.2	424.0	421.2	425.4	424.0	424.0	425.4	425.4
45°	374.9	379.1	376.3	379.1	380.5	379.1	379.1	381.9
47.5°	331.4	334.2	332.8	334.2	334.2	334.2	334.2	337.0
50°	287.8	289.2	289.2	290.6	290.6	292.1	289.2	290.6
52.5°	244.3	247.1	247.1	247.1	245.7	247.1	247.1	247.1
55°	205.0	206.4	203.6	206.4	206.4	205.0	205.0	207.8
57.5°	167.1	167.1	167.1	167.1	167.1	165.7	167.1	167.1
60°	132.0	133.4	132.0	132.0	132.0	132.0	130.6	133.4
62.5°	102.5	102.5	101.1	102.5	102.5	102.5	103.9	103.9
65°	80.0	81.4	80.0	81.4	81.4	81.4	81.4	82.8
67.5°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
70°	47.7	47.7	47.7	49.1	47.7	47.7	47.7	49.1
72.5°	35.1	35.1	35.1	35.1	35.1	35.1	36.5	36.5
75°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
77.5°	16.8	16.8	16.8	18.3	16.8	18.3	16.8	16.8
80°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4
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)