

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: P252468

Luminaire Tested: **LD6B20D010 EU6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252468
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 EU6B10208035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 1773.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

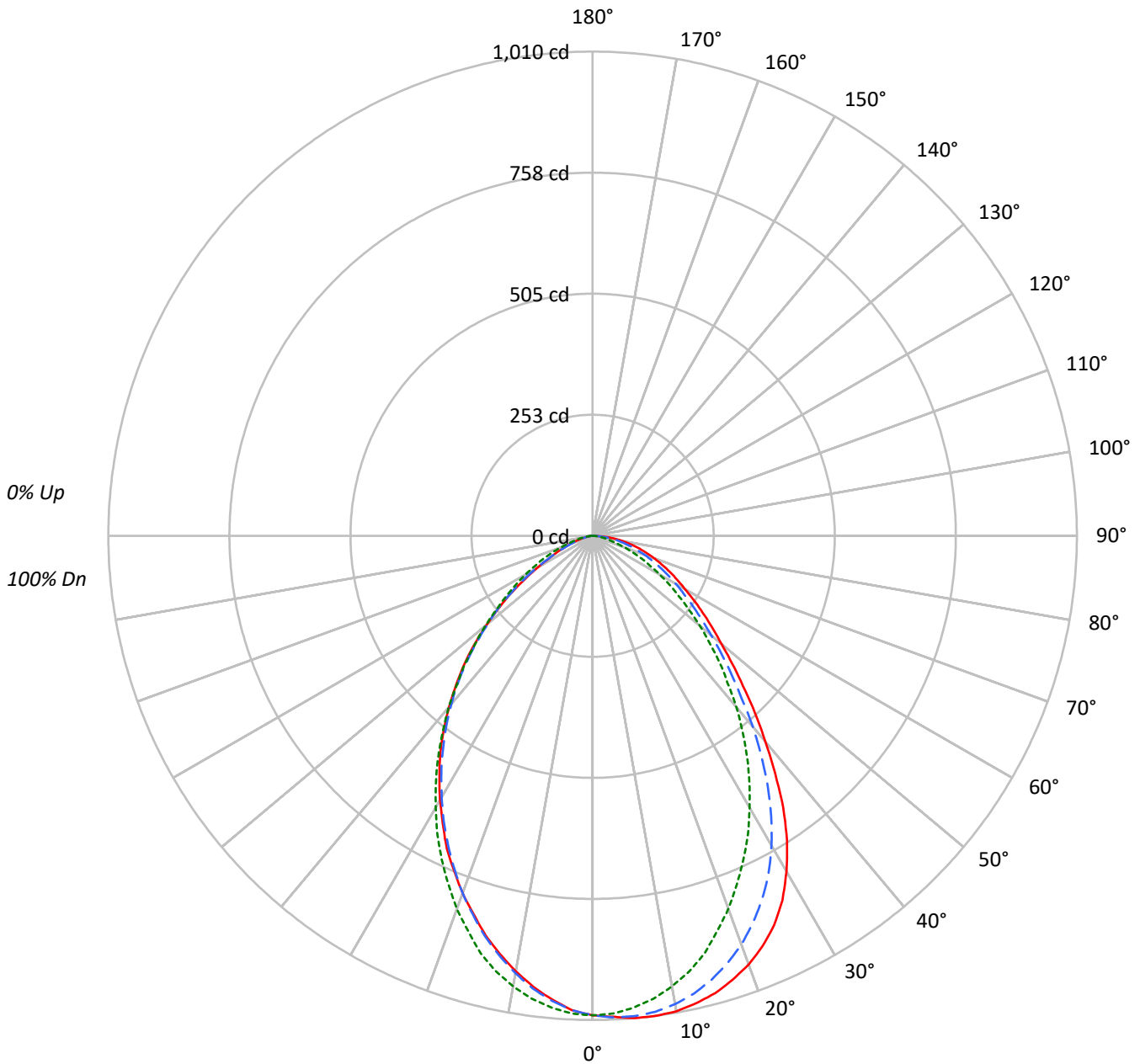
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65254	65254	65254
5°	66145	64684	63597
10°	66724	63226	61106
15°	66711	60896	58269
20°	66067	57486	55070
25°	64499	53600	51800
30°	60907	49291	47935
35°	55209	44696	44147
40°	47684	39755	39636
45°	40891	34608	34867
50°	35534	29606	29190
55°	31916	24967	23386
60°	29006	21021	17224
65°	27231	17367	12659
70°	25961	13505	9270
75°	24854	9806	6302
80°	23482	6800	4170
85°	20810	4192	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	5.3
10°-20°	256.3	14.5
20°-30°	355.8	20.1
30°-40°	368.5	20.8
40°-50°	302.8	17.1
50°-60°	208.1	11.7
60°-70°	119.6	6.7
70°-80°	55.0	3.1
80°-90°	13.4	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°	705.6	39.8
0°-40°	1074.1	60.6
0°-60°	1585.0	89.4
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1000	1000	1000	1000	1000	
5°	1010	1006	988	974	971	96
15°	988	959	902	866	863	278
25°	896	836	745	713	720	410
35°	693	636	561	545	554	430
45°	443	410	375	371	378	345
55°	281	254	220	207	206	253
65°	176	154	112	79	82	176
75°	99	78	39	25	25	104
85°	28	19	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°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	1004.4	1012.7	1007.2	1005.8	1008.6	1008.6	1008.6	1004.4	1007.2	1003.0	1005.8
5°	1010.0	1016.9	1011.3	1008.6	1011.3	1012.7	1008.6	1005.8	1010.0	1004.4	1005.8
7.5°	1010.0	1016.9	1011.3	1010.0	1011.3	1011.3	1010.0	1004.4	1007.2	1001.6	1001.6
10°	1007.2	1012.7	1007.2	1004.4	1005.8	1004.4	1004.4	997.5	998.8	991.9	991.9
12.5°	998.8	1005.8	998.8	996.1	996.1	996.1	991.9	986.3	987.7	979.4	978.0
15°	987.7	993.3	986.3	983.6	983.6	982.2	979.4	971.1	971.1	962.7	958.6
17.5°	971.1	976.6	971.1	966.9	965.5	962.7	959.9	951.6	948.8	939.1	934.9
20°	951.6	955.8	950.2	946.1	943.3	940.5	934.9	926.6	923.8	914.1	907.2
22.5°	926.6	932.2	923.8	919.7	916.9	912.7	907.2	898.8	894.7	882.2	873.8
25°	896.0	898.8	891.9	887.7	882.2	879.4	875.2	864.1	859.9	846.0	836.3
27.5°	857.1	859.9	851.6	848.8	841.9	839.1	833.5	823.8	818.2	804.4	794.6
30°	808.5	811.3	805.7	801.6	796.0	790.5	786.3	776.6	768.2	754.3	746.0
32.5°	754.3	758.5	753.0	747.4	737.7	739.1	732.1	722.4	715.4	702.9	693.2
35°	693.2	696.0	689.1	687.7	682.1	676.5	669.6	662.7	658.5	644.6	636.3
37.5°	625.1	632.1	625.1	619.6	616.8	612.6	608.5	598.8	596.0	587.6	576.5
40°	559.9	564.0	559.9	554.3	550.1	550.1	544.6	539.0	532.1	523.7	519.6
42.5°	501.5	498.7	497.3	494.6	489.0	487.6	486.2	479.3	475.1	466.8	459.8
45°	443.2	444.5	441.8	440.4	436.2	433.4	430.7	425.1	423.7	415.4	409.8
47.5°	394.5	393.1	390.4	390.4	387.6	384.8	382.0	377.9	376.5	369.5	364.0
50°	350.1	351.5	350.1	348.7	344.5	343.1	340.4	337.6	334.8	327.9	322.3
52.5°	314.0	312.6	311.2	311.2	307.0	305.6	302.8	300.1	297.3	290.3	286.2
55°	280.6	280.6	279.2	277.8	273.7	272.3	270.9	268.1	264.0	258.4	254.2
57.5°	250.1	250.1	248.7	247.3	244.5	244.5	241.7	238.9	236.2	230.6	225.1
60°	222.3	223.7	222.3	220.9	218.1	218.1	216.7	212.5	211.2	204.2	200.0
62.5°	198.7	198.7	198.7	197.3	195.9	193.1	193.1	188.9	186.2	182.0	176.4
65°	176.4	176.4	176.4	175.0	172.3	170.9	169.5	166.7	163.9	159.8	154.2
67.5°	155.6	155.6	155.6	154.2	151.4	150.0	148.6	147.3	143.1	138.9	133.4
70°	136.1	136.1	134.8	133.4	132.0	130.6	129.2	126.4	123.6	118.1	113.9
72.5°	116.7	116.7	116.7	113.9	112.5	112.5	109.7	108.4	105.6	100.0	95.9
75°	98.6	97.2	97.2	95.9	94.5	93.1	91.7	90.3	86.1	83.4	77.8
77.5°	80.6	80.6	79.2	77.8	77.8	76.4	75.0	72.2	70.8	66.7	62.5
80°	62.5	62.5	62.5	62.5	61.1	59.7	59.7	57.0	55.6	51.4	48.6
82.5°	47.2	45.8	45.8	45.8	44.5	43.1	43.1	41.7	40.3	37.5	34.7
85°	27.8	26.4	26.4	26.4	25.0	25.0	23.6	23.6	22.2	19.4	19.4
87.5°	8.3	8.3	9.7	9.7	8.3	8.3	8.3	8.3	8.3	6.9	6.9
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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	1003.0	1007.2	1001.6	1000.2	1005.8	1003.0	1001.6	998.8	1000.2	997.5	993.3
5°	1001.6	1007.2	1000.2	996.1	1003.0	998.8	996.1	993.3	993.3	987.7	985.0
7.5°	997.5	1000.2	993.3	989.1	993.3	989.1	986.3	982.2	980.8	973.8	969.7
10°	986.3	989.1	980.8	975.2	979.4	973.8	969.7	965.5	962.7	954.4	948.8
12.5°	971.1	972.5	962.7	955.8	958.6	954.4	947.4	941.9	939.1	930.8	923.8
15°	950.2	951.6	940.5	930.8	933.6	928.0	919.7	914.1	909.9	901.6	891.9
17.5°	925.2	923.8	911.3	901.6	903.0	896.0	887.7	879.4	873.8	864.1	857.1
20°	897.4	893.3	879.4	868.3	869.6	861.3	851.6	843.3	836.3	828.0	818.2
22.5°	862.7	857.1	844.6	830.8	832.1	825.2	811.3	804.4	797.4	786.3	778.0
25°	825.2	816.9	804.4	790.5	790.5	782.1	771.0	762.7	755.7	744.6	734.9
27.5°	780.7	776.6	759.9	748.8	747.4	739.1	729.3	719.6	711.3	701.6	691.8
30°	732.1	725.2	712.7	700.2	697.4	690.4	680.7	669.6	664.0	654.3	646.0
32.5°	680.7	673.8	659.9	647.4	646.0	640.4	632.1	621.0	615.4	608.5	602.9
35°	622.4	619.6	605.7	596.0	596.0	590.4	582.1	572.4	568.2	561.2	554.3
37.5°	566.8	562.6	550.1	541.8	541.8	534.8	526.5	522.3	518.2	512.6	508.5
40°	508.5	505.7	495.9	487.6	489.0	483.4	477.9	472.3	469.6	466.8	462.6
42.5°	454.3	451.5	444.5	437.6	437.6	433.4	427.9	423.7	420.9	416.8	415.4
45°	405.7	401.5	395.9	389.0	389.0	384.8	382.0	379.3	377.9	375.1	370.9
47.5°	358.4	355.6	350.1	343.1	343.1	343.1	337.6	333.4	333.4	330.6	329.2
50°	318.1	314.0	309.8	304.2	304.2	301.5	297.3	293.1	293.1	291.7	289.0
52.5°	280.6	277.8	272.3	266.7	266.7	264.0	259.8	258.4	257.0	252.8	251.4
55°	248.7	245.9	241.7	234.8	233.4	232.0	227.8	225.1	223.7	219.5	219.5
57.5°	219.5	216.7	209.8	205.6	204.2	201.4	197.3	194.5	193.1	190.3	187.5
60°	194.5	190.3	184.8	179.2	177.8	175.0	170.9	168.1	166.7	161.1	158.4
62.5°	170.9	166.7	161.1	155.6	154.2	151.4	145.9	143.1	140.3	134.8	132.0
65°	148.6	144.5	138.9	133.4	130.6	129.2	123.6	119.5	116.7	112.5	107.0
67.5°	127.8	123.6	118.1	111.1	111.1	107.0	102.8	98.6	94.5	90.3	86.1
70°	108.4	104.2	98.6	93.1	91.7	88.9	84.7	79.2	76.4	70.8	66.7
72.5°	90.3	86.1	80.6	75.0	73.6	70.8	66.7	61.1	57.0	52.8	48.6
75°	73.6	69.5	63.9	59.7	58.3	55.6	51.4	45.8	41.7	38.9	34.7
77.5°	58.3	54.2	50.0	45.8	44.5	41.7	37.5	34.7	30.6	27.8	23.6
80°	44.5	41.7	37.5	34.7	33.3	30.6	27.8	23.6	20.8	18.1	16.7
82.5°	32.0	29.2	26.4	22.2	22.2	19.4	18.1	15.3	12.5	11.1	9.7
85°	18.1	15.3	13.9	12.5	11.1	11.1	9.7	8.3	6.9	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°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	993.3	994.7	991.9	994.7	991.9	993.3	990.5	993.3	990.5	993.3	987.7
5°	983.6	983.6	979.4	982.2	979.4	980.8	975.2	976.6	973.8	976.6	971.1
7.5°	966.9	968.3	961.3	964.1	959.9	959.9	955.8	957.2	953.0	954.4	950.2
10°	947.4	946.1	939.1	941.9	936.3	936.3	932.2	932.2	926.6	928.0	922.4
12.5°	919.7	918.3	909.9	912.7	907.2	907.2	903.0	903.0	897.4	900.2	894.7
15°	887.7	886.3	878.0	879.4	873.8	873.8	868.3	869.6	865.5	868.3	862.7
17.5°	851.6	850.2	841.9	843.3	836.3	837.7	833.5	832.1	829.4	830.8	826.6
20°	814.1	811.3	803.0	804.4	801.6	797.4	794.6	796.0	793.2	796.0	791.9
22.5°	775.2	769.6	762.7	762.7	759.9	759.9	755.7	758.5	753.0	757.1	754.3
25°	730.7	726.6	721.0	723.8	718.2	718.2	714.1	715.4	712.7	715.4	712.7
27.5°	687.7	684.9	676.5	679.3	675.2	676.5	672.4	673.8	672.4	675.2	672.4
30°	641.8	640.4	634.9	634.9	633.5	632.1	630.7	630.7	629.3	633.5	630.7
32.5°	598.8	594.6	589.0	593.2	586.2	590.4	587.6	590.4	587.6	590.4	589.0
35°	554.3	552.9	546.0	547.4	546.0	546.0	544.6	544.6	544.6	548.7	548.7
37.5°	507.1	505.7	501.5	502.9	500.1	498.7	498.7	501.5	501.5	504.3	504.3
40°	461.2	462.6	458.4	458.4	457.1	457.1	457.1	459.8	458.4	461.2	459.8
42.5°	415.4	415.4	411.2	412.6	411.2	412.6	412.6	415.4	415.4	416.8	415.4
45°	372.3	372.3	370.9	372.3	369.5	370.9	369.5	372.3	370.9	372.3	372.3
47.5°	329.2	329.2	329.2	327.9	327.9	327.9	327.9	327.9	326.5	329.2	327.9
50°	289.0	290.3	289.0	289.0	287.6	289.0	287.6	287.6	284.8	286.2	286.2
52.5°	252.8	252.8	250.1	250.1	250.1	248.7	248.7	248.7	247.3	247.3	244.5
55°	218.1	218.1	215.3	215.3	213.9	212.5	211.2	211.2	207.0	207.0	202.8
57.5°	186.2	184.8	180.6	180.6	177.8	176.4	175.0	173.7	170.9	168.1	166.7
60°	157.0	154.2	151.4	150.0	147.3	144.5	141.7	138.9	136.1	134.8	133.4
62.5°	129.2	125.0	122.3	120.9	118.1	113.9	111.1	108.4	105.6	104.2	101.4
65°	104.2	100.0	95.9	94.5	91.7	88.9	84.7	82.0	79.2	77.8	77.8
67.5°	82.0	77.8	72.2	72.2	69.5	66.7	63.9	61.1	59.7	61.1	61.1
70°	61.1	58.3	54.2	52.8	50.0	47.2	45.8	45.8	45.8	47.2	45.8
72.5°	45.8	41.7	38.9	37.5	36.1	34.7	34.7	34.7	33.3	34.7	34.7
75°	32.0	29.2	26.4	26.4	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	22.2	19.4	18.1	18.1	18.1	16.7	16.7	16.7	16.7	16.7	16.7
80°	13.9	13.9	12.5	12.5	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	8.3	8.3	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	987.7	991.9	986.3	990.5	989.1	987.7	985.0	990.5
5°	971.1	972.5	966.9	972.5	971.1	968.3	965.5	971.1
7.5°	947.4	951.6	944.7	950.2	948.8	946.1	943.3	948.8
10°	921.0	925.2	919.7	923.8	923.8	921.0	916.9	922.4
12.5°	891.9	894.7	889.1	894.7	893.3	890.5	889.1	893.3
15°	859.9	864.1	858.5	862.7	861.3	859.9	858.5	862.7
17.5°	825.2	829.4	825.2	829.4	829.4	825.2	823.8	826.6
20°	790.5	793.2	789.1	793.2	791.9	791.9	789.1	793.2
22.5°	751.6	755.7	753.0	755.7	754.3	754.3	753.0	755.7
25°	712.7	716.8	712.7	716.8	715.4	715.4	712.7	719.6
27.5°	673.8	676.5	672.4	677.9	676.5	673.8	675.2	676.5
30°	632.1	634.9	632.1	636.3	636.3	636.3	633.5	636.3
32.5°	590.4	594.6	590.4	594.6	593.2	593.2	591.8	594.6
35°	548.7	550.1	547.4	551.5	551.5	552.9	550.1	554.3
37.5°	505.7	507.1	505.7	507.1	509.8	505.7	508.5	509.8
40°	461.2	464.0	462.6	464.0	464.0	465.4	464.0	465.4
42.5°	416.8	419.5	416.8	420.9	419.5	419.5	420.9	420.9
45°	370.9	375.1	372.3	375.1	376.5	375.1	375.1	377.9
47.5°	327.9	330.6	329.2	330.6	330.6	330.6	330.6	333.4
50°	284.8	286.2	286.2	287.6	287.6	289.0	286.2	287.6
52.5°	241.7	244.5	244.5	244.5	243.1	244.5	244.5	244.5
55°	202.8	204.2	201.4	204.2	204.2	202.8	202.8	205.6
57.5°	165.3	165.3	165.3	165.3	165.3	163.9	165.3	165.3
60°	130.6	132.0	130.6	130.6	130.6	130.6	129.2	132.0
62.5°	101.4	101.4	100.0	101.4	101.4	101.4	102.8	102.8
65°	79.2	80.6	79.2	80.6	80.6	80.6	80.6	82.0
67.5°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
70°	47.2	47.2	47.2	48.6	47.2	47.2	47.2	48.6
72.5°	34.7	34.7	34.7	34.7	34.7	34.7	36.1	36.1
75°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	16.7	16.7	16.7	18.1	16.7	18.1	16.7	16.7
80°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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)