

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: P252484

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252484
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: LD6B30D010 EU6B30509024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1813.0 lumens
Efficiency: N/A
Efficacy: 64.7 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

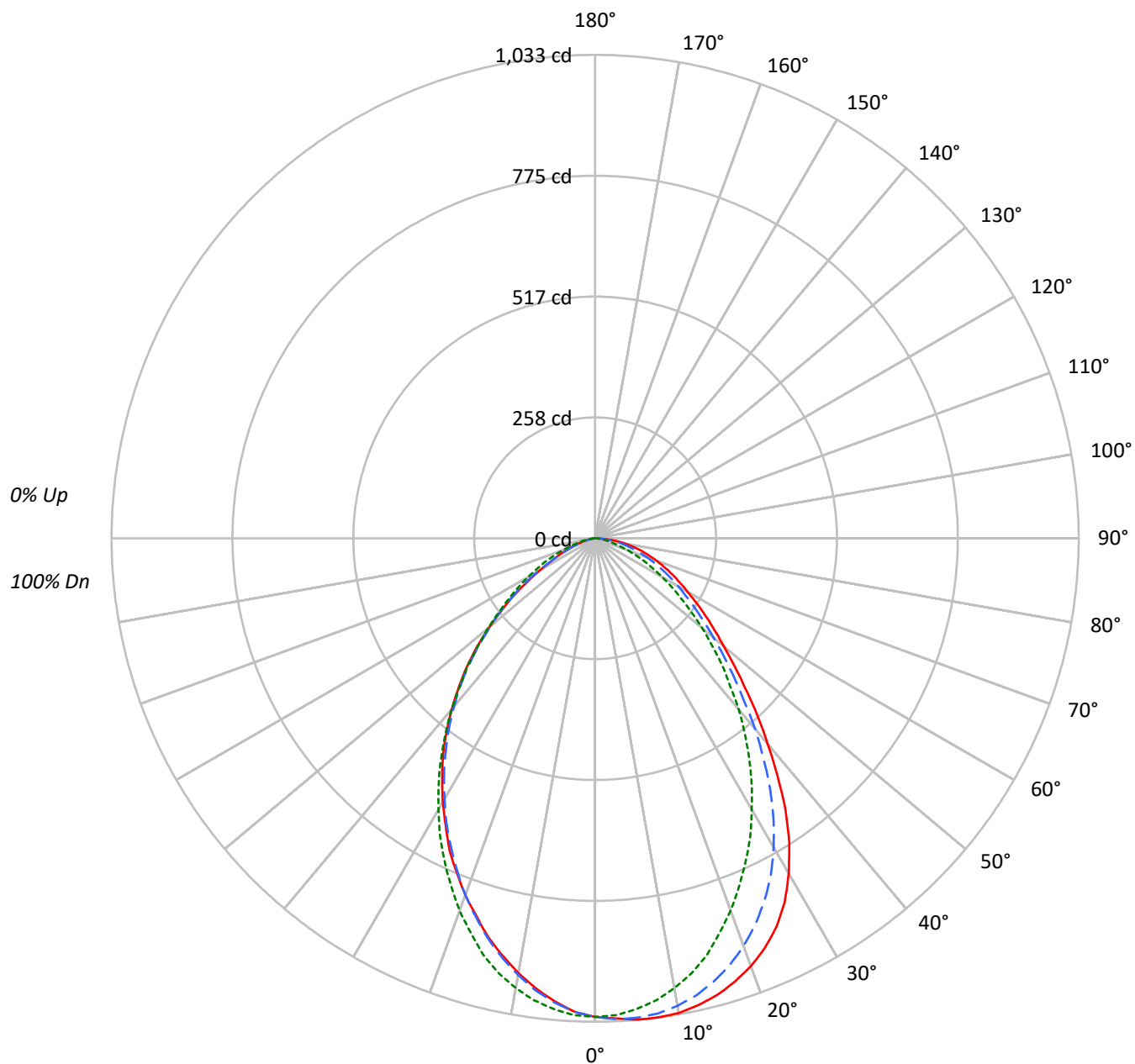
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	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°	66728	66728	66728
5°	67631	66145	65031
10°	68228	64651	62484
15°	68217	62267	59586
20°	67560	58784	56313
25°	65960	54809	52967
30°	62286	50406	49012
35°	56460	45708	45142
40°	48757	40650	40530
45°	41814	35393	35651
50°	36336	30276	29850
55°	32644	25524	23909
60°	29658	21503	17615
65°	27849	17768	12936
70°	26553	13810	9480
75°	25434	10032	6453
80°	24008	6951	4283
85°	21259	4267	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	5.3
10°-20°	262.0	14.5
20°-30°	363.8	20.1
30°-40°	376.8	20.8
40°-50°	309.6	17.1
50°-60°	212.8	11.7
60°-70°	122.3	6.7
70°-80°	56.2	3.1
80°-90°	13.7	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°	721.5	39.8
0°-40°	1098.3	60.6
0°-60°	1620.7	89.4
0°-90°	1813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1023	1023	1023	1023	1023	
5°	1033	1028	1010	996	993	98
15°	1010	980	922	885	882	284
25°	916	855	761	729	736	419
35°	709	651	574	557	567	440
45°	453	419	384	379	386	353
55°	287	260	224	212	210	258
65°	180	158	115	81	84	180
75°	101	80	40	26	26	107
85°	28	20	6	3	3	32
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°	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1027.1	1035.6	1029.9	1028.5	1031.3	1031.3	1031.3	1027.1	1029.9	1025.6	1028.5
5°	1032.7	1039.8	1034.2	1031.3	1034.2	1035.6	1031.3	1028.5	1032.7	1027.1	1028.5
7.5°	1032.7	1039.8	1034.2	1032.7	1034.2	1034.2	1032.7	1027.1	1029.9	1024.2	1024.2
10°	1029.9	1035.6	1029.9	1027.1	1028.5	1027.1	1027.1	1020.0	1021.4	1014.3	1014.3
12.5°	1021.4	1028.5	1021.4	1018.5	1018.5	1018.5	1014.3	1008.6	1010.0	1001.5	1000.1
15°	1010.0	1015.7	1008.6	1005.8	1005.8	1004.3	1001.5	993.0	993.0	984.4	980.2
17.5°	993.0	998.7	993.0	988.7	987.3	984.4	981.6	973.1	970.2	960.3	956.0
20°	973.1	977.3	971.7	967.4	964.6	961.7	956.0	947.5	944.7	934.7	927.6
22.5°	947.5	953.2	944.7	940.4	937.6	933.3	927.6	919.1	914.8	902.1	893.5
25°	916.3	919.1	912.0	907.7	902.1	899.2	895.0	883.6	879.3	865.1	855.2
27.5°	876.5	879.3	870.8	868.0	860.9	858.0	852.3	842.4	836.7	822.5	812.6
30°	826.8	829.6	823.9	819.7	814.0	808.3	804.0	794.1	785.6	771.4	762.8
32.5°	771.4	775.6	769.9	764.3	754.3	755.7	748.6	738.7	731.6	718.8	708.9
35°	708.9	711.7	704.6	703.2	697.5	691.8	684.7	677.6	673.3	659.1	650.6
37.5°	639.3	646.4	639.3	633.6	630.7	626.5	622.2	612.3	609.4	600.9	589.5
40°	572.5	576.7	572.5	566.8	562.5	562.5	556.9	551.2	544.1	535.5	531.3
42.5°	512.8	510.0	508.6	505.7	500.0	498.6	497.2	490.1	485.8	477.3	470.2
45°	453.2	454.6	451.7	450.3	446.1	443.2	440.4	434.7	433.3	424.7	419.1
47.5°	403.4	402.0	399.2	399.2	396.3	393.5	390.7	386.4	385.0	377.9	372.2
50°	358.0	359.4	358.0	356.6	352.3	350.9	348.0	345.2	342.4	335.3	329.6
52.5°	321.0	319.6	318.2	318.2	313.9	312.5	309.7	306.8	304.0	296.9	292.6
55°	287.0	287.0	285.5	284.1	279.8	278.4	277.0	274.2	269.9	264.2	260.0
57.5°	255.7	255.7	254.3	252.9	250.0	250.0	247.2	244.3	241.5	235.8	230.1
60°	227.3	228.7	227.3	225.9	223.0	223.0	221.6	217.3	215.9	208.8	204.6
62.5°	203.1	203.1	203.1	201.7	200.3	197.5	197.5	193.2	190.4	186.1	180.4
65°	180.4	180.4	180.4	179.0	176.1	174.7	173.3	170.5	167.6	163.4	157.7
67.5°	159.1	159.1	159.1	157.7	154.8	153.4	152.0	150.6	146.3	142.1	136.4
70°	139.2	139.2	137.8	136.4	135.0	133.5	132.1	129.3	126.4	120.7	116.5
72.5°	119.3	119.3	119.3	116.5	115.1	115.1	112.2	110.8	108.0	102.3	98.0
75°	100.9	99.4	99.4	98.0	96.6	95.2	93.8	92.3	88.1	85.2	79.6
77.5°	82.4	82.4	81.0	79.6	79.6	78.1	76.7	73.9	72.4	68.2	63.9
80°	63.9	63.9	63.9	63.9	62.5	61.1	61.1	58.2	56.8	52.6	49.7
82.5°	48.3	46.9	46.9	46.9	45.5	44.0	44.0	42.6	41.2	38.4	35.5
85°	28.4	27.0	27.0	27.0	25.6	25.6	24.1	24.1	22.7	19.9	19.9
87.5°	8.5	8.5	9.9	9.9	8.5	8.5	8.5	8.5	8.5	7.1	7.1
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°	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1025.6	1029.9	1024.2	1022.8	1028.5	1025.6	1024.2	1021.4	1022.8	1020.0	1015.7
5°	1024.2	1029.9	1022.8	1018.5	1025.6	1021.4	1018.5	1015.7	1015.7	1010.0	1007.2
7.5°	1020.0	1022.8	1015.7	1011.4	1015.7	1011.4	1008.6	1004.3	1002.9	995.8	991.5
10°	1008.6	1011.4	1002.9	997.2	1001.5	995.8	991.5	987.3	984.4	975.9	970.2
12.5°	993.0	994.4	984.4	977.3	980.2	975.9	968.8	963.1	960.3	951.8	944.7
15°	971.7	973.1	961.7	951.8	954.6	948.9	940.4	934.7	930.5	921.9	912.0
17.5°	946.1	944.7	931.9	921.9	923.4	916.3	907.7	899.2	893.5	883.6	876.5
20°	917.7	913.4	899.2	887.8	889.3	880.7	870.8	862.3	855.2	846.7	836.7
22.5°	882.2	876.5	863.7	849.5	850.9	843.8	829.6	822.5	815.4	804.0	795.5
25°	843.8	835.3	822.5	808.3	808.3	799.8	788.4	779.9	772.8	761.4	751.5
27.5°	798.4	794.1	777.0	765.7	764.3	755.7	745.8	735.8	727.3	717.4	707.4
30°	748.6	741.5	728.7	716.0	713.1	706.0	696.1	684.7	679.0	669.1	660.6
32.5°	696.1	689.0	674.8	662.0	660.6	654.9	646.4	635.0	629.3	622.2	616.5
35°	636.4	633.6	619.4	609.4	609.4	603.7	595.2	585.3	581.0	573.9	566.8
37.5°	579.6	575.3	562.5	554.0	554.0	546.9	538.4	534.1	529.9	524.2	519.9
40°	519.9	517.1	507.1	498.6	500.0	494.4	488.7	483.0	480.1	477.3	473.0
42.5°	464.5	461.7	454.6	447.5	447.5	443.2	437.5	433.3	430.4	426.2	424.7
45°	414.8	410.5	404.9	397.8	397.8	393.5	390.7	387.8	386.4	383.6	379.3
47.5°	366.5	363.7	358.0	350.9	350.9	350.9	345.2	340.9	340.9	338.1	336.7
50°	325.3	321.0	316.8	311.1	311.1	308.3	304.0	299.7	299.7	298.3	295.5
52.5°	287.0	284.1	278.4	272.7	272.7	269.9	265.6	264.2	262.8	258.5	257.1
55°	254.3	251.4	247.2	240.1	238.7	237.2	233.0	230.1	228.7	224.4	224.4
57.5°	224.4	221.6	214.5	210.2	208.8	206.0	201.7	198.9	197.5	194.6	191.8
60°	198.9	194.6	188.9	183.3	181.8	179.0	174.7	171.9	170.5	164.8	161.9
62.5°	174.7	170.5	164.8	159.1	157.7	154.8	149.2	146.3	143.5	137.8	135.0
65°	152.0	147.7	142.1	136.4	133.5	132.1	126.4	122.2	119.3	115.1	109.4
67.5°	130.7	126.4	120.7	113.6	113.6	109.4	105.1	100.9	96.6	92.3	88.1
70°	110.8	106.5	100.9	95.2	93.8	90.9	86.7	81.0	78.1	72.4	68.2
72.5°	92.3	88.1	82.4	76.7	75.3	72.4	68.2	62.5	58.2	54.0	49.7
75°	75.3	71.0	65.3	61.1	59.7	56.8	52.6	46.9	42.6	39.8	35.5
77.5°	59.7	55.4	51.1	46.9	45.5	42.6	38.4	35.5	31.3	28.4	24.1
80°	45.5	42.6	38.4	35.5	34.1	31.3	28.4	24.1	21.3	18.5	17.0
82.5°	32.7	29.8	27.0	22.7	22.7	19.9	18.5	15.6	12.8	11.4	9.9
85°	18.5	15.6	14.2	12.8	11.4	11.4	9.9	8.5	7.1	5.7	5.7
87.5°	5.7	5.7	4.3	4.3	4.3	4.3	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°	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1015.7	1017.1	1014.3	1017.1	1014.3	1015.7	1012.9	1015.7	1012.9	1015.7	1010.0
5°	1005.8	1005.8	1001.5	1004.3	1001.5	1002.9	997.2	998.7	995.8	998.7	993.0
7.5°	988.7	990.1	983.0	985.9	981.6	981.6	977.3	978.8	974.5	975.9	971.7
10°	968.8	967.4	960.3	963.1	957.5	957.5	953.2	953.2	947.5	948.9	943.2
12.5°	940.4	939.0	930.5	933.3	927.6	927.6	923.4	923.4	917.7	920.5	914.8
15°	907.7	906.3	897.8	899.2	893.5	893.5	887.8	889.3	885.0	887.8	882.2
17.5°	870.8	869.4	860.9	862.3	855.2	856.6	852.3	850.9	848.1	849.5	845.2
20°	832.4	829.6	821.1	822.5	819.7	815.4	812.6	814.0	811.1	814.0	809.7
22.5°	792.7	787.0	779.9	779.9	777.0	777.0	772.8	775.6	769.9	774.2	771.4
25°	747.2	743.0	737.3	740.1	734.4	734.4	730.2	731.6	728.7	731.6	728.7
27.5°	703.2	700.3	691.8	694.7	690.4	691.8	687.5	689.0	687.5	690.4	687.5
30°	656.3	654.9	649.2	649.2	647.8	646.4	644.9	644.9	643.5	647.8	644.9
32.5°	612.3	608.0	602.3	606.6	599.5	603.7	600.9	603.7	600.9	603.7	602.3
35°	566.8	565.4	558.3	559.7	558.3	558.3	556.9	556.9	556.9	561.1	561.1
37.5°	518.5	517.1	512.8	514.2	511.4	510.0	510.0	512.8	512.8	515.7	515.7
40°	471.6	473.0	468.8	468.8	467.4	467.4	467.4	470.2	468.8	471.6	470.2
42.5°	424.7	424.7	420.5	421.9	420.5	421.9	421.9	424.7	424.7	426.2	424.7
45°	380.7	380.7	379.3	380.7	377.9	379.3	377.9	380.7	379.3	380.7	380.7
47.5°	336.7	336.7	336.7	335.3	335.3	335.3	335.3	335.3	333.8	336.7	335.3
50°	295.5	296.9	295.5	295.5	294.1	295.5	294.1	294.1	291.2	292.6	292.6
52.5°	258.5	258.5	255.7	255.7	255.7	254.3	254.3	254.3	252.9	252.9	250.0
55°	223.0	223.0	220.2	220.2	218.8	217.3	215.9	215.9	211.7	211.7	207.4
57.5°	190.4	188.9	184.7	184.7	181.8	180.4	179.0	177.6	174.7	171.9	170.5
60°	160.5	157.7	154.8	153.4	150.6	147.7	144.9	142.1	139.2	137.8	136.4
62.5°	132.1	127.9	125.0	123.6	120.7	116.5	113.6	110.8	108.0	106.5	103.7
65°	106.5	102.3	98.0	96.6	93.8	90.9	86.7	83.8	81.0	79.6	79.6
67.5°	83.8	79.6	73.9	73.9	71.0	68.2	65.3	62.5	61.1	62.5	62.5
70°	62.5	59.7	55.4	54.0	51.1	48.3	46.9	46.9	46.9	48.3	46.9
72.5°	46.9	42.6	39.8	38.4	36.9	35.5	35.5	35.5	34.1	35.5	35.5
75°	32.7	29.8	27.0	27.0	25.6	25.6	25.6	25.6	25.6	25.6	25.6
77.5°	22.7	19.9	18.5	18.5	18.5	17.0	17.0	17.0	17.0	17.0	17.0
80°	14.2	14.2	12.8	12.8	11.4	11.4	11.4	11.4	11.4	11.4	11.4
82.5°	8.5	8.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	4.3	4.3	4.3	4.3	4.3	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°	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1010.0	1014.3	1008.6	1012.9	1011.4	1010.0	1007.2	1012.9
5°	993.0	994.4	988.7	994.4	993.0	990.1	987.3	993.0
7.5°	968.8	973.1	966.0	971.7	970.2	967.4	964.6	970.2
10°	941.8	946.1	940.4	944.7	944.7	941.8	937.6	943.2
12.5°	912.0	914.8	909.2	914.8	913.4	910.6	909.2	913.4
15°	879.3	883.6	877.9	882.2	880.7	879.3	877.9	882.2
17.5°	843.8	848.1	843.8	848.1	848.1	843.8	842.4	845.2
20°	808.3	811.1	806.9	811.1	809.7	809.7	806.9	811.1
22.5°	768.5	772.8	769.9	772.8	771.4	771.4	769.9	772.8
25°	728.7	733.0	728.7	733.0	731.6	731.6	728.7	735.8
27.5°	689.0	691.8	687.5	693.2	691.8	689.0	690.4	691.8
30°	646.4	649.2	646.4	650.6	650.6	650.6	647.8	650.6
32.5°	603.7	608.0	603.7	608.0	606.6	606.6	605.2	608.0
35°	561.1	562.5	559.7	564.0	564.0	565.4	562.5	566.8
37.5°	517.1	518.5	517.1	518.5	521.3	517.1	519.9	521.3
40°	471.6	474.5	473.0	474.5	474.5	475.9	474.5	475.9
42.5°	426.2	429.0	426.2	430.4	429.0	429.0	430.4	430.4
45°	379.3	383.6	380.7	383.6	385.0	383.6	383.6	386.4
47.5°	335.3	338.1	336.7	338.1	338.1	338.1	338.1	340.9
50°	291.2	292.6	292.6	294.1	294.1	295.5	292.6	294.1
52.5°	247.2	250.0	250.0	250.0	248.6	250.0	250.0	250.0
55°	207.4	208.8	206.0	208.8	208.8	207.4	207.4	210.2
57.5°	169.0	169.0	169.0	169.0	169.0	167.6	169.0	169.0
60°	133.5	135.0	133.5	133.5	133.5	133.5	132.1	135.0
62.5°	103.7	103.7	102.3	103.7	103.7	103.7	105.1	105.1
65°	81.0	82.4	81.0	82.4	82.4	82.4	82.4	83.8
67.5°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
70°	48.3	48.3	48.3	49.7	48.3	48.3	48.3	49.7
72.5°	35.5	35.5	35.5	35.5	35.5	35.5	36.9	36.9
75°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
77.5°	17.0	17.0	17.0	18.5	17.0	18.5	17.0	17.0
80°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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)