

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: PORTFOLIO

Report Number: P252472

Luminaire Tested: **LE\_6B20D010 EC6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252472  
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: PORTFOLIO  
Catalog Number: LE\_6B20D010 EC6B10209027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1776.3 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

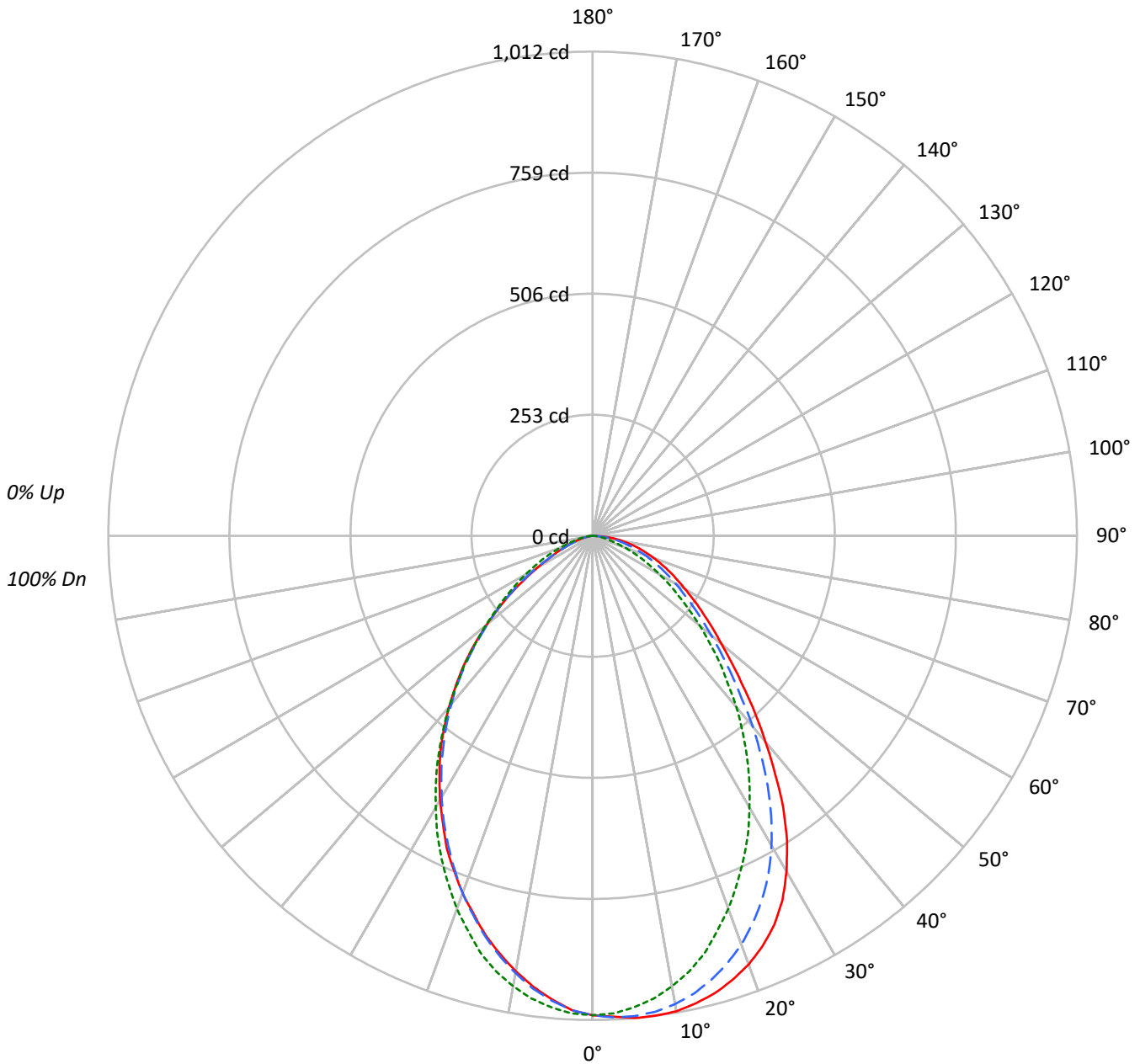
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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°	65378	65378	65378
5°	66263	64802	63715
10°	66843	63339	61219
15°	66833	61004	58370
20°	66192	57590	55181
25°	64614	53701	51894
30°	61020	49381	48018
35°	55313	44776	44234
40°	47769	39823	39704
45°	40965	34673	34922
50°	35605	29657	29241
55°	31973	25012	23431
60°	29045	21073	17250
65°	27293	17413	12674
70°	26018	13543	9309
75°	24930	9831	6302
80°	23519	6800	4170
85°	20885	4192	2096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	5.3
10°-20°	256.7	14.5
20°-30°	356.4	20.1
30°-40°	369.2	20.8
40°-50°	303.4	17.1
50°-60°	208.5	11.7
60°-70°	119.9	6.7
70°-80°	55.1	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°	706.9	39.8
0°-40°	1076.0	60.6
0°-60°	1587.9	89.4
0°-90°	1776.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1002	1002	1002	1002	1002	
5°	1012	1008	990	976	973	96
15°	990	960	903	867	864	279
25°	898	838	746	714	721	411
35°	694	637	562	546	555	431
45°	444	411	376	372	378	346
55°	281	255	220	207	206	253
65°	177	154	113	79	82	176
75°	99	78	39	25	25	104
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°	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1
2.5°	1006.2	1014.6	1009.0	1007.6	1010.4	1010.4	1010.4	1006.2	1009.0	1004.9	1007.6
5°	1011.8	1018.8	1013.2	1010.4	1013.2	1014.6	1010.4	1007.6	1011.8	1006.2	1007.6
7.5°	1011.8	1018.8	1013.2	1011.8	1013.2	1013.2	1011.8	1006.2	1009.0	1003.5	1003.5
10°	1009.0	1014.6	1009.0	1006.2	1007.6	1006.2	1006.2	999.2	1000.6	993.8	993.8
12.5°	1000.6	1007.6	1000.6	997.9	997.9	997.9	993.8	988.1	989.5	981.2	979.8
15°	989.5	995.1	988.1	985.4	985.4	984.0	981.2	972.9	972.9	964.5	960.4
17.5°	972.9	978.4	972.9	968.6	967.2	964.5	961.8	953.4	950.6	940.9	936.6
20°	953.4	957.5	952.0	947.8	945.0	942.2	936.6	928.2	925.5	915.8	908.9
22.5°	928.2	933.9	925.5	921.4	918.5	914.4	908.9	900.5	896.2	883.8	875.4
25°	897.6	900.5	893.5	889.4	883.8	881.0	876.8	865.6	861.5	847.6	837.9
27.5°	858.8	861.5	853.1	850.4	843.4	840.6	835.0	825.4	819.8	805.9	796.1
30°	810.0	812.8	807.2	803.0	797.5	791.9	787.8	778.0	769.6	755.8	747.4
32.5°	755.8	759.9	754.4	748.8	739.0	740.4	733.5	723.8	716.8	704.2	694.5
35°	694.5	697.2	690.4	688.9	683.4	677.8	670.9	663.9	659.8	645.8	637.4
37.5°	626.2	633.2	626.2	620.8	618.0	613.8	609.6	599.9	597.1	588.8	577.6
40°	560.9	565.0	560.9	555.4	551.1	551.1	545.6	540.0	533.0	524.8	520.5
42.5°	502.4	499.6	498.2	495.5	489.9	488.5	487.1	480.1	476.0	467.6	460.6
45°	444.0	445.4	442.6	441.2	437.0	434.2	431.5	425.9	424.5	416.1	410.6
47.5°	395.2	393.9	391.1	391.1	388.2	385.5	382.8	378.5	377.1	370.2	364.6
50°	350.8	352.1	350.8	349.4	345.1	343.8	341.0	338.2	335.4	328.5	322.9
52.5°	314.5	313.1	311.8	311.8	307.6	306.1	303.4	300.6	297.9	290.9	286.8
55°	281.1	281.1	279.8	278.4	274.1	272.8	271.4	268.6	264.4	258.9	254.8
57.5°	250.5	250.5	249.1	247.8	245.0	245.0	242.1	239.4	236.6	231.0	225.5
60°	222.6	224.1	222.6	221.2	218.5	218.5	217.1	213.0	211.5	204.6	200.4
62.5°	199.0	199.0	199.0	197.6	196.2	193.5	193.5	189.2	186.5	182.4	176.8
65°	176.8	176.8	176.8	175.4	172.6	171.1	169.8	167.0	164.2	160.0	154.5
67.5°	155.9	155.9	155.9	154.5	151.8	150.2	148.9	147.5	143.4	139.1	133.6
70°	136.4	136.4	135.0	133.6	132.2	130.9	129.4	126.6	123.9	118.2	114.1
72.5°	116.9	116.9	116.9	114.1	112.8	112.8	110.0	108.5	105.8	100.2	96.0
75°	98.9	97.4	97.4	96.0	94.6	93.2	91.9	90.5	86.2	83.5	78.0
77.5°	80.8	80.8	79.4	78.0	78.0	76.5	75.1	72.4	71.0	66.8	62.6
80°	62.6	62.6	62.6	62.6	61.2	59.9	59.9	57.0	55.6	51.5	48.8
82.5°	47.4	45.9	45.9	45.9	44.5	43.1	43.1	41.8	40.4	37.6	34.8
85°	27.9	26.5	26.5	26.5	25.0	25.0	23.6	23.6	22.2	19.5	19.5
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°	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1
2.5°	1004.9	1009.0	1003.5	1002.1	1007.6	1004.9	1003.5	1000.6	1002.1	999.2	995.1
5°	1003.5	1009.0	1002.1	997.9	1004.9	1000.6	997.9	995.1	995.1	989.5	986.8
7.5°	999.2	1002.1	995.1	990.9	995.1	990.9	988.1	984.0	982.6	975.6	971.5
10°	988.1	990.9	982.6	977.0	981.2	975.6	971.5	967.2	964.5	956.1	950.6
12.5°	972.9	974.2	964.5	957.5	960.4	956.1	949.1	943.6	940.9	932.5	925.5
15°	952.0	953.4	942.2	932.5	935.2	929.8	921.4	915.8	911.6	903.2	893.5
17.5°	926.9	925.5	913.0	903.2	904.6	897.6	889.4	881.0	875.4	865.6	858.8
20°	899.1	894.9	881.0	869.9	871.2	862.9	853.1	844.8	837.9	829.5	819.8
22.5°	864.2	858.8	846.2	832.2	833.6	826.8	812.8	805.9	798.9	787.8	779.4
25°	826.8	818.4	805.9	791.9	791.9	783.5	772.4	764.1	757.1	746.0	736.2
27.5°	782.1	778.0	761.2	750.1	748.8	740.4	730.6	720.9	712.6	702.9	693.1
30°	733.5	726.5	714.0	701.5	698.6	691.8	682.0	670.9	665.2	655.5	647.1
32.5°	682.0	675.0	661.1	648.5	647.1	641.6	633.2	622.1	616.5	609.6	604.0
35°	623.5	620.8	606.8	597.1	597.1	591.5	583.1	573.4	569.2	562.2	555.4
37.5°	567.9	563.6	551.1	542.8	542.8	535.9	527.5	523.2	519.1	513.5	509.4
40°	509.4	506.6	496.9	488.5	489.9	484.4	478.8	473.2	470.4	467.6	463.5
42.5°	455.1	452.4	445.4	438.4	438.4	434.2	428.6	424.5	421.8	417.5	416.1
45°	406.4	402.2	396.6	389.8	389.8	385.5	382.8	380.0	378.5	375.8	371.6
47.5°	359.1	356.2	350.8	343.8	343.8	343.8	338.2	334.0	334.0	331.2	329.9
50°	318.8	314.5	310.4	304.8	304.8	302.0	297.9	293.6	293.6	292.2	289.5
52.5°	281.1	278.4	272.8	267.2	267.2	264.4	260.2	258.9	257.5	253.2	251.9
55°	249.1	246.4	242.1	235.2	233.9	232.4	228.2	225.5	224.1	219.9	219.9
57.5°	219.9	217.1	210.1	206.0	204.6	201.8	197.6	194.9	193.5	190.6	187.9
60°	194.9	190.6	185.1	179.5	178.1	175.4	171.1	168.4	167.0	161.5	158.6
62.5°	171.1	167.0	161.5	155.9	154.5	151.8	146.1	143.4	140.6	135.0	132.2
65°	148.9	144.8	139.1	133.6	130.9	129.4	123.9	119.8	116.9	112.8	107.1
67.5°	128.0	123.9	118.2	111.4	111.4	107.1	103.0	98.9	94.6	90.5	86.2
70°	108.5	104.4	98.9	93.2	91.9	89.1	84.9	79.4	76.5	71.0	66.8
72.5°	90.5	86.2	80.8	75.1	73.8	71.0	66.8	61.2	57.0	52.9	48.8
75°	73.8	69.6	64.0	59.9	58.5	55.6	51.5	45.9	41.8	39.0	34.8
77.5°	58.5	54.2	50.1	45.9	44.5	41.8	37.6	34.8	30.6	27.9	23.6
80°	44.5	41.8	37.6	34.8	33.4	30.6	27.9	23.6	20.9	18.1	16.8
82.5°	32.0	29.2	26.5	22.2	22.2	19.5	18.1	15.2	12.5	11.1	9.8
85°	18.1	15.2	13.9	12.5	11.1	11.1	9.8	8.4	7.0	5.6	5.6
87.5°	5.6	5.6	4.1	4.1	4.1	4.1	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°	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1
2.5°	995.1	996.5	993.8	996.5	993.8	995.1	992.4	995.1	992.4	995.1	989.5
5°	985.4	985.4	981.2	984.0	981.2	982.6	977.0	978.4	975.6	978.4	972.9
7.5°	968.6	970.0	963.1	965.9	961.8	961.8	957.5	958.9	954.8	956.1	952.0
10°	949.1	947.8	940.9	943.6	938.0	938.0	933.9	933.9	928.2	929.8	924.1
12.5°	921.4	920.0	911.6	914.4	908.9	908.9	904.6	904.6	899.1	901.9	896.2
15°	889.4	888.0	879.6	881.0	875.4	875.4	869.9	871.2	867.1	869.9	864.2
17.5°	853.1	851.8	843.4	844.8	837.9	839.2	835.0	833.6	830.9	832.2	828.1
20°	815.6	812.8	804.5	805.9	803.0	798.9	796.1	797.5	794.8	797.5	793.2
22.5°	776.6	771.0	764.1	764.1	761.2	761.2	757.1	759.9	754.4	758.5	755.8
25°	732.1	727.9	722.4	725.1	719.5	719.5	715.4	716.8	714.0	716.8	714.0
27.5°	688.9	686.1	677.8	680.6	676.4	677.8	673.6	675.0	673.6	676.4	673.6
30°	643.0	641.6	636.0	636.0	634.6	633.2	631.9	631.9	630.5	634.6	631.9
32.5°	599.9	595.6	590.1	594.2	587.4	591.5	588.8	591.5	588.8	591.5	590.1
35°	555.4	553.9	547.0	548.4	547.0	547.0	545.6	545.6	545.6	549.8	549.8
37.5°	508.0	506.6	502.4	503.9	501.0	499.6	499.6	502.4	502.4	505.2	505.2
40°	462.1	463.5	459.2	459.2	457.9	457.9	457.9	460.6	459.2	462.1	460.6
42.5°	416.1	416.1	412.0	413.4	412.0	413.4	413.4	416.1	416.1	417.5	416.1
45°	373.0	373.0	371.6	373.0	370.2	371.6	370.2	373.0	371.6	373.0	373.0
47.5°	329.9	329.9	329.9	328.5	328.5	328.5	328.5	328.5	327.1	329.9	328.5
50°	289.5	290.9	289.5	289.5	288.1	289.5	288.1	288.1	285.2	286.8	286.8
52.5°	253.2	253.2	250.5	250.5	250.5	249.1	249.1	249.1	247.8	247.8	245.0
55°	218.5	218.5	215.8	215.8	214.4	213.0	211.5	211.5	207.4	207.4	203.2
57.5°	186.5	185.1	180.9	180.9	178.1	176.8	175.4	174.0	171.1	168.4	167.0
60°	157.2	154.5	151.8	150.2	147.5	144.8	142.0	139.1	136.4	135.0	133.6
62.5°	129.4	125.2	122.5	121.1	118.2	114.1	111.4	108.5	105.8	104.4	101.6
65°	104.4	100.2	96.0	94.6	91.9	89.1	84.9	82.1	79.4	78.0	78.0
67.5°	82.1	78.0	72.4	72.4	69.6	66.8	64.0	61.2	59.9	61.2	61.2
70°	61.2	58.5	54.2	52.9	50.1	47.4	45.9	45.9	45.9	47.4	45.9
72.5°	45.9	41.8	39.0	37.6	36.1	34.8	34.8	34.8	33.4	34.8	34.8
75°	32.0	29.2	26.5	26.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	22.2	19.5	18.1	18.1	18.1	16.8	16.8	16.8	16.8	16.8	16.8
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°	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	4.1	4.1	4.1	4.1	4.1	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°	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.1
2.5°	989.5	993.8	988.1	992.4	990.9	989.5	986.8	992.4
5°	972.9	974.2	968.6	974.2	972.9	970.0	967.2	972.9
7.5°	949.1	953.4	946.4	952.0	950.6	947.8	945.0	950.6
10°	922.8	926.9	921.4	925.5	925.5	922.8	918.5	924.1
12.5°	893.5	896.2	890.8	896.2	894.9	892.1	890.8	894.9
15°	861.5	865.6	860.1	864.2	862.9	861.5	860.1	864.2
17.5°	826.8	830.9	826.8	830.9	830.9	826.8	825.4	828.1
20°	791.9	794.8	790.5	794.8	793.2	793.2	790.5	794.8
22.5°	753.0	757.1	754.4	757.1	755.8	755.8	754.4	757.1
25°	714.0	718.1	714.0	718.1	716.8	716.8	714.0	720.9
27.5°	675.0	677.8	673.6	679.1	677.8	675.0	676.4	677.8
30°	633.2	636.0	633.2	637.4	637.4	637.4	634.6	637.4
32.5°	591.5	595.6	591.5	595.6	594.2	594.2	592.9	595.6
35°	549.8	551.1	548.4	552.5	552.5	553.9	551.1	555.4
37.5°	506.6	508.0	506.6	508.0	510.8	506.6	509.4	510.8
40°	462.1	464.9	463.5	464.9	464.9	466.2	464.9	466.2
42.5°	417.5	420.2	417.5	421.8	420.2	420.2	421.8	421.8
45°	371.6	375.8	373.0	375.8	377.1	375.8	375.8	378.5
47.5°	328.5	331.2	329.9	331.2	331.2	331.2	331.2	334.0
50°	285.2	286.8	286.8	288.1	288.1	289.5	286.8	288.1
52.5°	242.1	245.0	245.0	245.0	243.5	245.0	245.0	245.0
55°	203.2	204.6	201.8	204.6	204.6	203.2	203.2	206.0
57.5°	165.6	165.6	165.6	165.6	165.6	164.2	165.6	165.6
60°	130.9	132.2	130.9	130.9	130.9	130.9	129.4	132.2
62.5°	101.6	101.6	100.2	101.6	101.6	101.6	103.0	103.0
65°	79.4	80.8	79.4	80.8	80.8	80.8	80.8	82.1
67.5°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
70°	47.4	47.4	47.4	48.8	47.4	47.4	47.4	48.8
72.5°	34.8	34.8	34.8	34.8	34.8	34.8	36.1	36.1
75°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	16.8	16.8	16.8	18.1	16.8	18.1	16.8	16.8
80°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
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)