

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: P252477

Luminaire Tested: **LE\_6B20D010 EC6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252477  
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 EC6B10209727 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1545.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 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

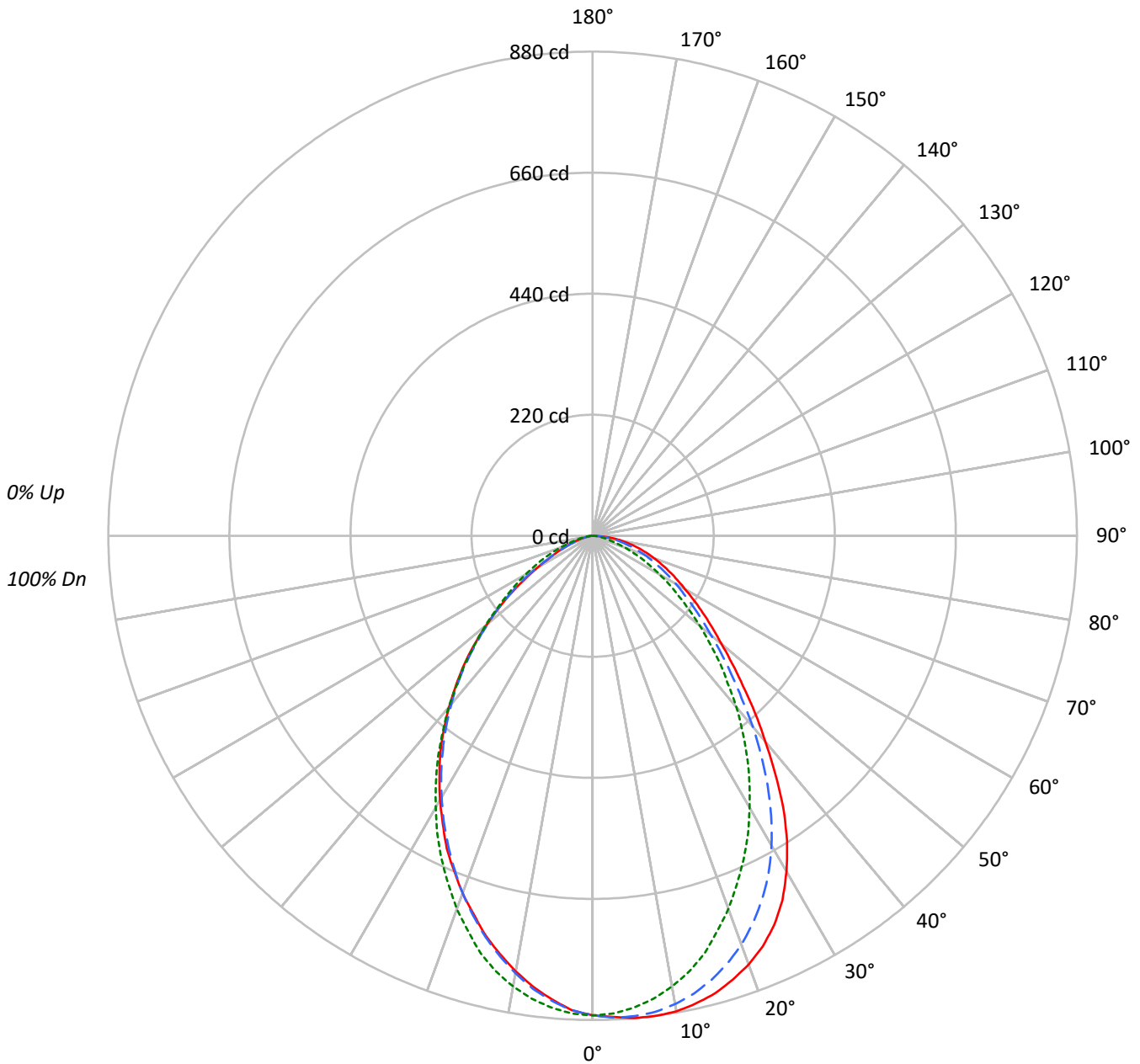
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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°	56864	56864	56864
5°	57638	56374	55411
10°	58138	55091	53256
15°	58140	53061	50778
20°	57569	50092	47988
25°	56213	46711	45142
30°	53072	42948	41772
35°	48113	38954	38468
40°	41552	34645	34535
45°	35623	30161	30373
50°	30967	25800	25435
55°	27810	21748	20371
60°	25287	18320	15005
65°	23742	15129	11022
70°	22623	11788	8088
75°	21678	8545	5495
80°	20476	5936	3607
85°	18115	3668	1797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	5.3
10°-20°	223.3	14.5
20°-30°	310.0	20.1
30°-40°	321.1	20.8
40°-50°	263.9	17.1
50°-60°	181.4	11.7
60°-70°	104.3	6.7
70°-80°	47.9	3.1
80°-90°	11.7	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°	614.8	39.8
0°-40°	935.9	60.6
0°-60°	1381.2	89.4
0°-90°	1545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	872	872	872	872	872	
5°	880	876	861	849	846	84
15°	861	835	786	754	752	242
25°	781	729	649	621	627	357
35°	604	554	489	474	483	375
45°	386	357	327	323	329	301
55°	244	222	191	180	179	220
65°	154	134	98	69	71	153
75°	86	68	34	22	22	91
85°	24	17	5	2	2	27
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°	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6
2.5°	875.2	882.5	877.6	876.5	878.9	878.9	878.9	875.2	877.6	874.0	876.5
5°	880.1	886.1	881.2	878.9	881.2	882.5	878.9	876.5	880.1	875.2	876.5
7.5°	880.1	886.1	881.2	880.1	881.2	881.2	880.1	875.2	877.6	872.9	872.9
10°	877.6	882.5	877.6	875.2	876.5	875.2	875.2	869.2	870.4	864.4	864.4
12.5°	870.4	876.5	870.4	868.0	868.0	868.0	864.4	859.5	860.8	853.5	852.2
15°	860.8	865.5	859.5	857.1	857.1	855.9	853.5	846.1	846.1	838.9	835.2
17.5°	846.1	851.0	846.1	842.5	841.4	838.9	836.5	829.2	826.9	818.4	814.8
20°	829.2	832.9	828.0	824.4	822.0	819.5	814.8	807.5	805.0	796.5	790.5
22.5°	807.5	812.2	805.0	801.4	799.0	795.4	790.5	783.2	779.6	768.8	761.5
25°	780.9	783.2	777.1	773.5	768.8	766.2	762.6	753.0	749.4	737.2	728.8
27.5°	746.9	749.4	742.1	739.6	733.6	731.1	726.4	717.9	713.0	700.9	692.5
30°	704.5	707.0	702.1	698.5	693.6	688.9	685.1	676.8	669.5	657.4	650.1
32.5°	657.4	661.0	656.1	651.2	642.8	644.0	638.0	629.5	623.5	612.5	604.1
35°	604.1	606.5	600.5	599.2	594.4	589.5	583.5	577.5	573.8	561.8	554.5
37.5°	544.8	550.8	544.8	539.9	537.5	533.9	530.2	521.8	519.4	512.1	502.4
40°	487.9	491.5	487.9	483.0	479.4	479.4	474.5	469.8	463.6	456.4	452.8
42.5°	437.0	434.6	433.4	431.0	426.1	424.9	423.8	417.6	414.0	406.8	400.8
45°	386.1	387.4	385.0	383.8	380.1	377.8	375.2	370.4	369.2	362.0	357.1
47.5°	343.8	342.6	340.1	340.1	337.8	335.4	332.9	329.2	328.1	322.0	317.1
50°	305.1	306.2	305.1	303.9	300.2	299.0	296.6	294.1	291.8	285.8	280.9
52.5°	273.6	272.4	271.1	271.1	267.5	266.4	263.9	261.5	259.0	253.0	249.4
55°	244.5	244.5	243.4	242.1	238.5	237.2	236.0	233.6	230.0	225.1	221.5
57.5°	217.9	217.9	216.8	215.5	213.0	213.0	210.6	208.2	205.8	201.0	196.1
60°	193.8	194.9	193.8	192.5	190.0	190.0	188.9	185.2	184.0	178.0	174.4
62.5°	173.1	173.1	173.1	171.9	170.8	168.2	168.2	164.6	162.2	158.6	153.8
65°	153.8	153.8	153.8	152.5	150.1	148.9	147.8	145.2	142.9	139.2	134.4
67.5°	135.6	135.6	135.6	134.4	132.0	130.8	129.5	128.4	124.8	121.0	116.2
70°	118.6	118.6	117.4	116.2	115.0	113.8	112.6	110.1	107.8	102.9	99.2
72.5°	101.8	101.8	101.8	99.2	98.0	98.0	95.6	94.4	92.0	87.1	83.5
75°	86.0	84.8	84.8	83.5	82.4	81.1	79.9	78.6	75.0	72.6	67.8
77.5°	70.2	70.2	69.0	67.8	67.8	66.6	65.4	63.0	61.8	58.1	54.5
80°	54.5	54.5	54.5	54.5	53.2	52.0	52.0	49.6	48.4	44.8	42.4
82.5°	41.1	40.0	40.0	40.0	38.8	37.5	37.5	36.4	35.1	32.6	30.2
85°	24.2	23.0	23.0	23.0	21.8	21.8	20.6	20.6	19.4	17.0	17.0
87.5°	7.2	7.2	8.5	8.5	7.2	7.2	7.2	7.2	7.2	6.0	6.0
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°	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6
2.5°	874.0	877.6	872.9	871.6	876.5	874.0	872.9	870.4	871.6	869.2	865.5
5°	872.9	877.6	871.6	868.0	874.0	870.4	868.0	865.5	865.5	860.8	858.2
7.5°	869.2	871.6	865.5	861.9	865.5	861.9	859.5	855.9	854.6	848.6	845.0
10°	859.5	861.9	854.6	849.9	853.5	848.6	845.0	841.4	838.9	831.6	826.9
12.5°	846.1	847.4	838.9	832.9	835.2	831.6	825.6	820.8	818.4	811.1	805.0
15°	828.0	829.2	819.5	811.1	813.5	808.6	801.4	796.5	792.9	785.6	777.1
17.5°	806.2	805.0	794.1	785.6	786.9	780.9	773.5	766.2	761.5	753.0	746.9
20°	782.0	778.4	766.2	756.6	757.9	750.5	742.1	734.9	728.8	721.5	713.0
22.5°	751.8	746.9	736.0	723.9	725.1	719.1	707.0	700.9	694.9	685.1	677.9
25°	719.1	711.9	700.9	688.9	688.9	681.5	671.9	664.6	658.5	648.9	640.4
27.5°	680.4	676.8	662.1	652.5	651.2	644.0	635.5	627.1	619.8	611.4	602.9
30°	638.0	631.9	621.0	610.1	607.8	601.6	593.1	583.5	578.6	570.1	562.9
32.5°	593.1	587.1	575.0	564.1	562.9	558.1	550.8	541.1	536.2	530.2	525.4
35°	542.4	539.9	527.8	519.4	519.4	514.5	507.2	498.8	495.1	489.1	483.0
37.5°	493.9	490.2	479.4	472.1	472.1	466.1	458.8	455.1	451.5	446.8	443.1
40°	443.1	440.6	432.1	424.9	426.1	421.2	416.4	411.6	409.1	406.8	403.1
42.5°	395.9	393.4	387.4	381.4	381.4	377.8	372.9	369.2	366.8	363.1	362.0
45°	353.5	349.9	345.0	339.0	339.0	335.4	332.9	330.5	329.2	326.9	323.2
47.5°	312.4	309.9	305.1	299.0	299.0	299.0	294.1	290.5	290.5	288.1	286.9
50°	277.2	273.6	270.0	265.1	265.1	262.8	259.0	255.4	255.4	254.2	251.8
52.5°	244.5	242.1	237.2	232.4	232.4	230.0	226.4	225.1	224.0	220.4	219.1
55°	216.8	214.2	210.6	204.6	203.4	202.1	198.5	196.1	194.9	191.2	191.2
57.5°	191.2	188.9	182.8	179.1	178.0	175.5	171.9	169.5	168.2	165.9	163.4
60°	169.5	165.9	161.0	156.1	155.0	152.5	148.9	146.5	145.2	140.4	138.0
62.5°	148.9	145.2	140.4	135.6	134.4	132.0	127.1	124.8	122.2	117.4	115.0
65°	129.5	125.9	121.0	116.2	113.8	112.6	107.8	104.1	101.8	98.0	93.2
67.5°	111.4	107.8	102.9	96.9	96.9	93.2	89.6	86.0	82.4	78.6	75.0
70°	94.4	90.8	86.0	81.1	79.9	77.5	73.9	69.0	66.6	61.8	58.1
72.5°	78.6	75.0	70.2	65.4	64.1	61.8	58.1	53.2	49.6	46.0	42.4
75°	64.1	60.5	55.6	52.0	50.9	48.4	44.8	40.0	36.4	33.9	30.2
77.5°	50.9	47.2	43.6	40.0	38.8	36.4	32.6	30.2	26.6	24.2	20.6
80°	38.8	36.4	32.6	30.2	29.0	26.6	24.2	20.6	18.1	15.8	14.5
82.5°	27.9	25.4	23.0	19.4	19.4	17.0	15.8	13.4	10.9	9.6	8.5
85°	15.8	13.4	12.1	10.9	9.6	9.6	8.5	7.2	6.0	4.9	4.9
87.5°	4.9	4.9	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4
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°	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6
2.5°	865.5	866.8	864.4	866.8	864.4	865.5	863.1	865.5	863.1	865.5	860.8
5°	857.1	857.1	853.5	855.9	853.5	854.6	849.9	851.0	848.6	851.0	846.1
7.5°	842.5	843.8	837.8	840.1	836.5	836.5	832.9	834.1	830.5	831.6	828.0
10°	825.6	824.4	818.4	820.8	815.9	815.9	812.2	812.2	807.5	808.6	803.9
12.5°	801.4	800.1	792.9	795.4	790.5	790.5	786.9	786.9	782.0	784.5	779.6
15°	773.5	772.4	765.1	766.2	761.5	761.5	756.6	757.9	754.1	756.6	751.8
17.5°	742.1	740.9	733.6	734.9	728.8	730.0	726.4	725.1	722.8	723.9	720.2
20°	709.4	707.0	699.8	700.9	698.5	694.9	692.5	693.6	691.2	693.6	690.0
22.5°	675.5	670.6	664.6	664.6	662.1	662.1	658.5	661.0	656.1	659.8	657.4
25°	636.8	633.1	628.2	630.8	625.9	625.9	622.2	623.5	621.0	623.5	621.0
27.5°	599.2	596.8	589.5	592.0	588.4	589.5	585.9	587.1	585.9	588.4	585.9
30°	559.2	558.1	553.2	553.2	552.0	550.8	549.6	549.6	548.4	552.0	549.6
32.5°	521.8	518.1	513.2	516.9	510.9	514.5	512.1	514.5	512.1	514.5	513.2
35°	483.0	481.8	475.8	477.0	475.8	475.8	474.5	474.5	474.5	478.1	478.1
37.5°	441.9	440.6	437.0	438.2	435.8	434.6	434.6	437.0	437.0	439.4	439.4
40°	401.9	403.1	399.5	399.5	398.2	398.2	398.2	400.8	399.5	401.9	400.8
42.5°	362.0	362.0	358.4	359.5	358.4	359.5	359.5	362.0	362.0	363.1	362.0
45°	324.4	324.4	323.2	324.4	322.0	323.2	322.0	324.4	323.2	324.4	324.4
47.5°	286.9	286.9	286.9	285.8	285.8	285.8	285.8	285.8	284.5	286.9	285.8
50°	251.8	253.0	251.8	251.8	250.6	251.8	250.6	250.6	248.1	249.4	249.4
52.5°	220.4	220.4	217.9	217.9	217.9	216.8	216.8	216.8	215.5	215.5	213.0
55°	190.0	190.0	187.6	187.6	186.4	185.2	184.0	184.0	180.4	180.4	176.8
57.5°	162.2	161.0	157.4	157.4	155.0	153.8	152.5	151.4	148.9	146.5	145.2
60°	136.8	134.4	132.0	130.8	128.4	125.9	123.5	121.0	118.6	117.4	116.2
62.5°	112.6	109.0	106.5	105.4	102.9	99.2	96.9	94.4	92.0	90.8	88.4
65°	90.8	87.1	83.5	82.4	79.9	77.5	73.9	71.4	69.0	67.8	67.8
67.5°	71.4	67.8	63.0	63.0	60.5	58.1	55.6	53.2	52.0	53.2	53.2
70°	53.2	50.9	47.2	46.0	43.6	41.1	40.0	40.0	40.0	41.1	40.0
72.5°	40.0	36.4	33.9	32.6	31.5	30.2	30.2	30.2	29.0	30.2	30.2
75°	27.9	25.4	23.0	23.0	21.8	21.8	21.8	21.8	21.8	21.8	21.8
77.5°	19.4	17.0	15.8	15.8	15.8	14.5	14.5	14.5	14.5	14.5	14.5
80°	12.1	12.1	10.9	10.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	7.2	7.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
85°	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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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CATALOG NUMBER: LE\_6B20D010 EC6B10209727 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6
2.5°	860.8	864.4	859.5	863.1	861.9	860.8	858.2	863.1
5°	846.1	847.4	842.5	847.4	846.1	843.8	841.4	846.1
7.5°	825.6	829.2	823.1	828.0	826.9	824.4	822.0	826.9
10°	802.6	806.2	801.4	805.0	805.0	802.6	799.0	803.9
12.5°	777.1	779.6	774.8	779.6	778.4	776.0	774.8	778.4
15°	749.4	753.0	748.1	751.8	750.5	749.4	748.1	751.8
17.5°	719.1	722.8	719.1	722.8	722.8	719.1	717.9	720.2
20°	688.9	691.2	687.6	691.2	690.0	690.0	687.6	691.2
22.5°	654.9	658.5	656.1	658.5	657.4	657.4	656.1	658.5
25°	621.0	624.6	621.0	624.6	623.5	623.5	621.0	627.1
27.5°	587.1	589.5	585.9	590.8	589.5	587.1	588.4	589.5
30°	550.8	553.2	550.8	554.5	554.5	554.5	552.0	554.5
32.5°	514.5	518.1	514.5	518.1	516.9	516.9	515.8	518.1
35°	478.1	479.4	477.0	480.6	480.6	481.8	479.4	483.0
37.5°	440.6	441.9	440.6	441.9	444.2	440.6	443.1	444.2
40°	401.9	404.4	403.1	404.4	404.4	405.5	404.4	405.5
42.5°	363.1	365.6	363.1	366.8	365.6	365.6	366.8	366.8
45°	323.2	326.9	324.4	326.9	328.1	326.9	326.9	329.2
47.5°	285.8	288.1	286.9	288.1	288.1	288.1	288.1	290.5
50°	248.1	249.4	249.4	250.6	250.6	251.8	249.4	250.6
52.5°	210.6	213.0	213.0	213.0	211.9	213.0	213.0	213.0
55°	176.8	178.0	175.5	178.0	178.0	176.8	176.8	179.1
57.5°	144.0	144.0	144.0	144.0	144.0	142.9	144.0	144.0
60°	113.8	115.0	113.8	113.8	113.8	113.8	112.6	115.0
62.5°	88.4	88.4	87.1	88.4	88.4	88.4	89.6	89.6
65°	69.0	70.2	69.0	70.2	70.2	70.2	70.2	71.4
67.5°	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
70°	41.1	41.1	41.1	42.4	41.1	41.1	41.1	42.4
72.5°	30.2	30.2	30.2	30.2	30.2	30.2	31.5	31.5
75°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
77.5°	14.5	14.5	14.5	15.8	14.5	15.8	14.5	14.5
80°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
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)