

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: P252454

Luminaire Tested: **LE_6B15D010 EC6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252454
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_6B15D010 EC6B10208030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1556.3 lumens
Efficiency: N/A
Efficacy: 108.1 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

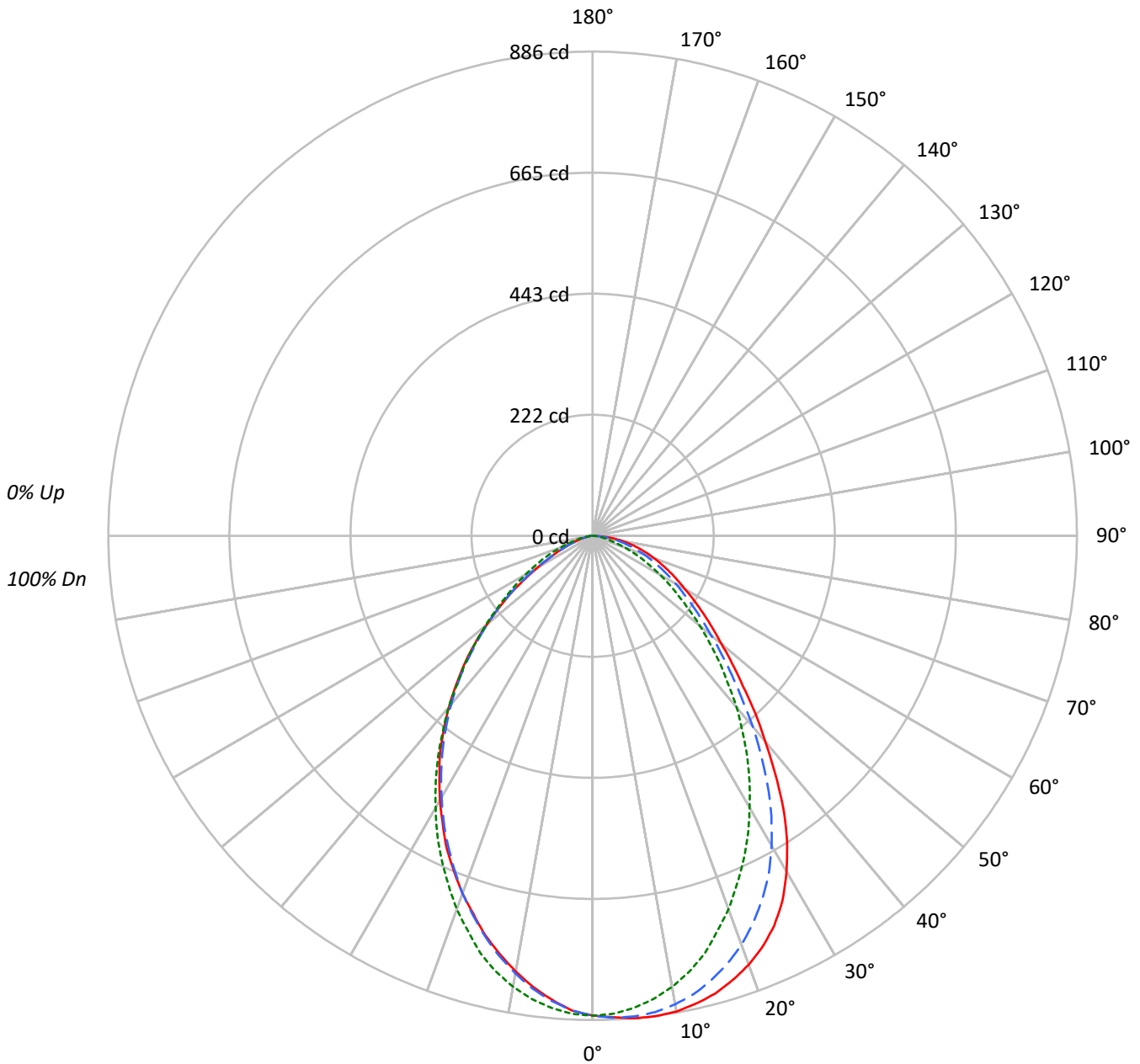
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57281	57281	57281
5°	58057	56780	55824
10°	58562	55502	53634
15°	58559	53453	51143
20°	57986	50460	48336
25°	56616	47049	45466
30°	53457	43271	42074
35°	48463	39233	38747
40°	41850	34901	34790
45°	35891	30373	30595
50°	31180	25993	25618
55°	28026	21907	20531
60°	25457	18463	15123
65°	23912	15252	11115
70°	22795	11865	8126
75°	21829	8596	5546
80°	20626	5974	3682
85°	18265	3668	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	5.3
10°-20°	224.9	14.5
20°-30°	312.3	20.1
30°-40°	323.4	20.8
40°-50°	265.8	17.1
50°-60°	182.7	11.7
60°-70°	105.0	6.7
70°-80°	48.3	3.1
80°-90°	11.8	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°	619.3	39.8
0°-40°	942.8	60.6
0°-60°	1391.2	89.4
0°-90°	1556.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	878	878	878	878	878	
5°	886	883	867	855	852	84
15°	867	841	791	760	757	244
25°	786	734	654	626	632	360
35°	608	558	493	478	486	377
45°	389	360	329	326	332	303
55°	246	223	193	182	180	222
65°	155	135	99	70	72	154
75°	87	68	34	22	22	92
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°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	881.6	888.9	884.0	882.9	885.2	885.2	885.2	881.6	884.0	880.4	882.9
5°	886.5	892.6	887.8	885.2	887.8	888.9	885.2	882.9	886.5	881.6	882.9
7.5°	886.5	892.6	887.8	886.5	887.8	887.8	886.5	881.6	884.0	879.1	879.1
10°	884.0	888.9	884.0	881.6	882.9	881.6	881.6	875.5	876.8	870.6	870.6
12.5°	876.8	882.9	876.8	874.2	874.2	874.2	870.6	865.8	867.0	859.6	858.5
15°	867.0	871.9	865.8	863.4	863.4	862.1	859.6	852.4	852.4	845.0	841.4
17.5°	852.4	857.2	852.4	848.8	847.5	845.0	842.6	835.2	832.9	824.2	820.6
20°	835.2	838.9	834.0	830.4	828.0	825.5	820.6	813.4	810.9	802.4	796.2
22.5°	813.4	818.2	810.9	807.2	804.8	801.1	796.2	789.0	785.2	774.2	767.0
25°	786.5	789.0	782.9	779.1	774.2	771.9	768.2	758.5	754.8	742.6	734.1
27.5°	752.4	754.8	747.5	745.0	739.0	736.5	731.6	723.1	718.2	706.0	697.5
30°	709.6	712.1	707.2	703.6	698.8	693.9	690.1	681.6	674.4	662.1	654.8
32.5°	662.1	665.8	660.9	656.0	647.5	648.8	642.6	634.1	628.0	617.0	608.5
35°	608.5	610.9	604.9	603.6	598.8	593.9	587.8	581.6	578.0	565.8	558.5
37.5°	548.8	554.9	548.8	543.9	541.4	537.8	534.1	525.5	523.1	515.8	506.0
40°	491.4	495.1	491.4	486.5	482.9	482.9	478.0	473.1	467.0	459.8	456.0
42.5°	440.2	437.8	436.5	434.1	429.2	428.0	426.8	420.6	417.0	409.8	403.6
45°	389.0	390.2	387.8	386.5	382.9	380.5	378.0	373.1	371.9	364.6	359.8
47.5°	346.2	345.1	342.6	342.6	340.2	337.8	335.4	331.6	330.5	324.4	319.5
50°	307.2	308.5	307.2	306.1	302.4	301.1	298.8	296.2	293.9	287.8	282.9
52.5°	275.6	274.4	273.1	273.1	269.5	268.2	265.9	263.4	261.0	254.9	251.2
55°	246.4	246.4	245.1	243.9	240.2	239.0	237.8	235.4	231.6	226.8	223.1
57.5°	219.5	219.5	218.2	217.0	214.6	214.6	212.1	209.8	207.2	202.4	197.5
60°	195.1	196.4	195.1	193.9	191.5	191.5	190.2	186.6	185.4	179.2	175.6
62.5°	174.4	174.4	174.4	173.1	171.9	169.5	169.5	165.9	163.4	159.8	154.9
65°	154.9	154.9	154.9	153.6	151.2	150.0	148.8	146.4	143.9	140.2	135.4
67.5°	136.6	136.6	136.6	135.4	132.9	131.8	130.5	129.2	125.6	122.0	117.0
70°	119.5	119.5	118.2	117.0	115.9	114.6	113.4	111.0	108.5	103.6	100.0
72.5°	102.4	102.4	102.4	100.0	98.8	98.8	96.4	95.1	92.6	87.8	84.1
75°	86.6	85.4	85.4	84.1	82.9	81.8	80.5	79.2	75.6	73.1	68.2
77.5°	70.8	70.8	69.5	68.2	68.2	67.1	65.9	63.4	62.2	58.5	54.9
80°	54.9	54.9	54.9	54.9	53.6	52.4	52.4	50.0	48.8	45.1	42.6
82.5°	41.5	40.2	40.2	40.2	39.0	37.8	37.8	36.6	35.4	32.9	30.5
85°	24.4	23.1	23.1	23.1	22.0	22.0	20.8	20.8	19.5	17.1	17.1
87.5°	7.4	7.4	8.5	8.5	7.4	7.4	7.4	7.4	7.4	6.1	6.1
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°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	880.4	884.0	879.1	878.0	882.9	880.4	879.1	876.8	878.0	875.5	871.9
5°	879.1	884.0	878.0	874.2	880.4	876.8	874.2	871.9	871.9	867.0	864.5
7.5°	875.5	878.0	871.9	868.2	871.9	868.2	865.8	862.1	860.9	854.8	851.1
10°	865.8	868.2	860.9	856.0	859.6	854.8	851.1	847.5	845.0	837.8	832.9
12.5°	852.4	853.6	845.0	838.9	841.4	837.8	831.6	826.8	824.2	817.0	810.9
15°	834.0	835.2	825.5	817.0	819.4	814.5	807.2	802.4	798.8	791.4	782.9
17.5°	812.1	810.9	799.9	791.4	792.6	786.5	779.1	771.9	767.0	758.5	752.4
20°	787.8	784.1	771.9	762.1	763.4	756.0	747.5	740.1	734.1	726.8	718.2
22.5°	757.2	752.4	741.4	729.2	730.4	724.4	712.1	706.0	699.9	690.1	682.9
25°	724.4	717.0	706.0	693.9	693.9	686.5	676.8	669.5	663.4	653.6	645.0
27.5°	685.2	681.6	667.0	657.2	656.0	648.8	640.1	631.6	624.4	615.8	607.2
30°	642.6	636.5	625.5	614.6	612.1	606.0	597.5	587.8	582.9	574.4	567.0
32.5°	597.5	591.4	579.2	568.2	567.0	562.1	554.9	545.1	540.1	534.1	529.2
35°	546.2	543.9	531.6	523.1	523.1	518.2	510.9	502.4	498.8	492.6	486.5
37.5°	497.5	493.9	482.9	475.5	475.5	469.5	462.1	458.5	454.9	450.0	446.2
40°	446.2	443.9	435.4	428.0	429.2	424.4	419.5	414.6	412.1	409.8	406.0
42.5°	398.8	396.2	390.2	384.1	384.1	380.5	375.6	371.9	369.5	365.9	364.6
45°	356.0	352.4	347.5	341.4	341.4	337.8	335.4	332.9	331.6	329.2	325.6
47.5°	314.6	312.1	307.2	301.1	301.1	301.1	296.2	292.6	292.6	290.2	289.0
50°	279.2	275.6	271.9	267.0	267.0	264.6	261.0	257.2	257.2	256.1	253.6
52.5°	246.4	243.9	239.0	234.1	234.1	231.6	228.0	226.8	225.6	221.9	220.8
55°	218.2	215.9	212.1	206.1	204.9	203.6	200.0	197.5	196.4	192.6	192.6
57.5°	192.6	190.2	184.1	180.5	179.2	176.8	173.1	170.8	169.5	167.0	164.6
60°	170.8	167.0	162.1	157.2	156.1	153.6	150.0	147.5	146.4	141.5	139.0
62.5°	150.0	146.4	141.5	136.6	135.4	132.9	128.0	125.6	123.1	118.2	115.9
65°	130.5	126.9	122.0	117.0	114.6	113.4	108.5	104.9	102.4	98.8	93.9
67.5°	112.1	108.5	103.6	97.5	97.5	93.9	90.2	86.6	82.9	79.2	75.6
70°	95.1	91.5	86.6	81.8	80.5	78.0	74.4	69.5	67.1	62.2	58.5
72.5°	79.2	75.6	70.8	65.9	64.6	62.2	58.5	53.6	50.0	46.4	42.6
75°	64.6	61.0	56.1	52.4	51.2	48.8	45.1	40.2	36.6	34.1	30.5
77.5°	51.2	47.5	43.9	40.2	39.0	36.6	32.9	30.5	26.9	24.4	20.8
80°	39.0	36.6	32.9	30.5	29.2	26.9	24.4	20.8	18.2	15.9	14.6
82.5°	28.0	25.6	23.1	19.5	19.5	17.1	15.9	13.4	11.0	9.8	8.5
85°	15.9	13.4	12.2	11.0	9.8	9.8	8.5	7.4	6.1	4.9	4.9
87.5°	4.9	4.9	3.6	3.6	3.6	3.6	2.5	2.5	2.5	2.5	2.5
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°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	871.9	873.1	870.6	873.1	870.6	871.9	869.4	871.9	869.4	871.9	867.0
5°	863.4	863.4	859.6	862.1	859.6	860.9	856.0	857.2	854.8	857.2	852.4
7.5°	848.8	849.9	843.9	846.2	842.6	842.6	838.9	840.1	836.5	837.8	834.0
10°	831.6	830.4	824.2	826.8	821.9	821.9	818.2	818.2	813.4	814.5	809.6
12.5°	807.2	806.0	798.8	801.1	796.2	796.2	792.6	792.6	787.8	790.1	785.2
15°	779.1	778.0	770.6	771.9	767.0	767.0	762.1	763.4	759.6	762.1	757.2
17.5°	747.5	746.2	739.0	740.1	734.1	735.2	731.6	730.4	728.0	729.2	725.5
20°	714.5	712.1	704.8	706.0	703.6	699.9	697.5	698.8	696.2	698.8	695.0
22.5°	680.4	675.5	669.5	669.5	667.0	667.0	663.4	665.8	660.9	664.6	662.1
25°	641.4	637.8	632.9	635.2	630.4	630.4	626.8	628.0	625.5	628.0	625.5
27.5°	603.6	601.1	593.9	596.2	592.6	593.9	590.1	591.4	590.1	592.6	590.1
30°	563.4	562.1	557.2	557.2	556.0	554.9	553.6	553.6	552.4	556.0	553.6
32.5°	525.5	521.9	517.0	520.6	514.6	518.2	515.8	518.2	515.8	518.2	517.0
35°	486.5	485.4	479.2	480.4	479.2	479.2	478.0	478.0	478.0	481.6	481.6
37.5°	445.1	443.9	440.2	441.4	439.0	437.8	437.8	440.2	440.2	442.6	442.6
40°	404.9	406.0	402.4	402.4	401.1	401.1	401.1	403.6	402.4	404.9	403.6
42.5°	364.6	364.6	360.9	362.1	360.9	362.1	362.1	364.6	364.6	365.9	364.6
45°	326.8	326.8	325.6	326.8	324.4	325.6	324.4	326.8	325.6	326.8	326.8
47.5°	289.0	289.0	289.0	287.8	287.8	287.8	287.8	287.8	286.5	289.0	287.8
50°	253.6	254.9	253.6	253.6	252.4	253.6	252.4	252.4	250.0	251.2	251.2
52.5°	221.9	221.9	219.5	219.5	219.5	218.2	218.2	218.2	217.0	217.0	214.6
55°	191.5	191.5	189.0	189.0	187.8	186.6	185.4	185.4	181.8	181.8	178.0
57.5°	163.4	162.1	158.5	158.5	156.1	154.9	153.6	152.4	150.0	147.5	146.4
60°	137.8	135.4	132.9	131.8	129.2	126.9	124.4	122.0	119.5	118.2	117.0
62.5°	113.4	109.8	107.2	106.1	103.6	100.0	97.5	95.1	92.6	91.5	89.0
65°	91.5	87.8	84.1	82.9	80.5	78.0	74.4	72.0	69.5	68.2	68.2
67.5°	72.0	68.2	63.4	63.4	61.0	58.5	56.1	53.6	52.4	53.6	53.6
70°	53.6	51.2	47.5	46.4	43.9	41.5	40.2	40.2	40.2	41.5	40.2
72.5°	40.2	36.6	34.1	32.9	31.8	30.5	30.5	30.5	29.2	30.5	30.5
75°	28.0	25.6	23.1	23.1	22.0	22.0	22.0	22.0	22.0	22.0	22.0
77.5°	19.5	17.1	15.9	15.9	15.9	14.6	14.6	14.6	14.6	14.6	14.6
80°	12.2	12.2	11.0	11.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	7.4	7.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	3.6	3.6	3.6	3.6	3.6	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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_6B15D010 EC6B10208030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	867.0	870.6	865.8	869.4	868.2	867.0	864.5	869.4
5°	852.4	853.6	848.8	853.6	852.4	849.9	847.5	852.4
7.5°	831.6	835.2	829.1	834.0	832.9	830.4	828.0	832.9
10°	808.5	812.1	807.2	810.9	810.9	808.5	804.8	809.6
12.5°	782.9	785.2	780.4	785.2	784.1	781.6	780.4	784.1
15°	754.8	758.5	753.6	757.2	756.0	754.8	753.6	757.2
17.5°	724.4	728.0	724.4	728.0	728.0	724.4	723.1	725.5
20°	693.9	696.2	692.6	696.2	695.0	695.0	692.6	696.2
22.5°	659.6	663.4	660.9	663.4	662.1	662.1	660.9	663.4
25°	625.5	629.2	625.5	629.2	628.0	628.0	625.5	631.6
27.5°	591.4	593.9	590.1	595.0	593.9	591.4	592.6	593.9
30°	554.9	557.2	554.9	558.5	558.5	558.5	556.0	558.5
32.5°	518.2	521.9	518.2	521.9	520.6	520.6	519.5	521.9
35°	481.6	482.9	480.4	484.1	484.1	485.4	482.9	486.5
37.5°	443.9	445.1	443.9	445.1	447.5	443.9	446.2	447.5
40°	404.9	407.2	406.0	407.2	407.2	408.5	407.2	408.5
42.5°	365.9	368.2	365.9	369.5	368.2	368.2	369.5	369.5
45°	325.6	329.2	326.8	329.2	330.5	329.2	329.2	331.6
47.5°	287.8	290.2	289.0	290.2	290.2	290.2	290.2	292.6
50°	250.0	251.2	251.2	252.4	252.4	253.6	251.2	252.4
52.5°	212.1	214.6	214.6	214.6	213.4	214.6	214.6	214.6
55°	178.0	179.2	176.8	179.2	179.2	178.0	178.0	180.5
57.5°	145.1	145.1	145.1	145.1	145.1	143.9	145.1	145.1
60°	114.6	115.9	114.6	114.6	114.6	114.6	113.4	115.9
62.5°	89.0	89.0	87.8	89.0	89.0	89.0	90.2	90.2
65°	69.5	70.8	69.5	70.8	70.8	70.8	70.8	72.0
67.5°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
70°	41.5	41.5	41.5	42.6	41.5	41.5	41.5	42.6
72.5°	30.5	30.5	30.5	30.5	30.5	30.5	31.8	31.8
75°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
77.5°	14.6	14.6	14.6	15.9	14.6	15.9	14.6	14.6
80°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	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)