

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: P252471

Luminaire Tested: **LE\_6B20D010 EC6B10209024 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252471  
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 EC6B10209024 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: 1562.5 lumens  
Efficiency: N/A  
Efficacy: 75.1 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

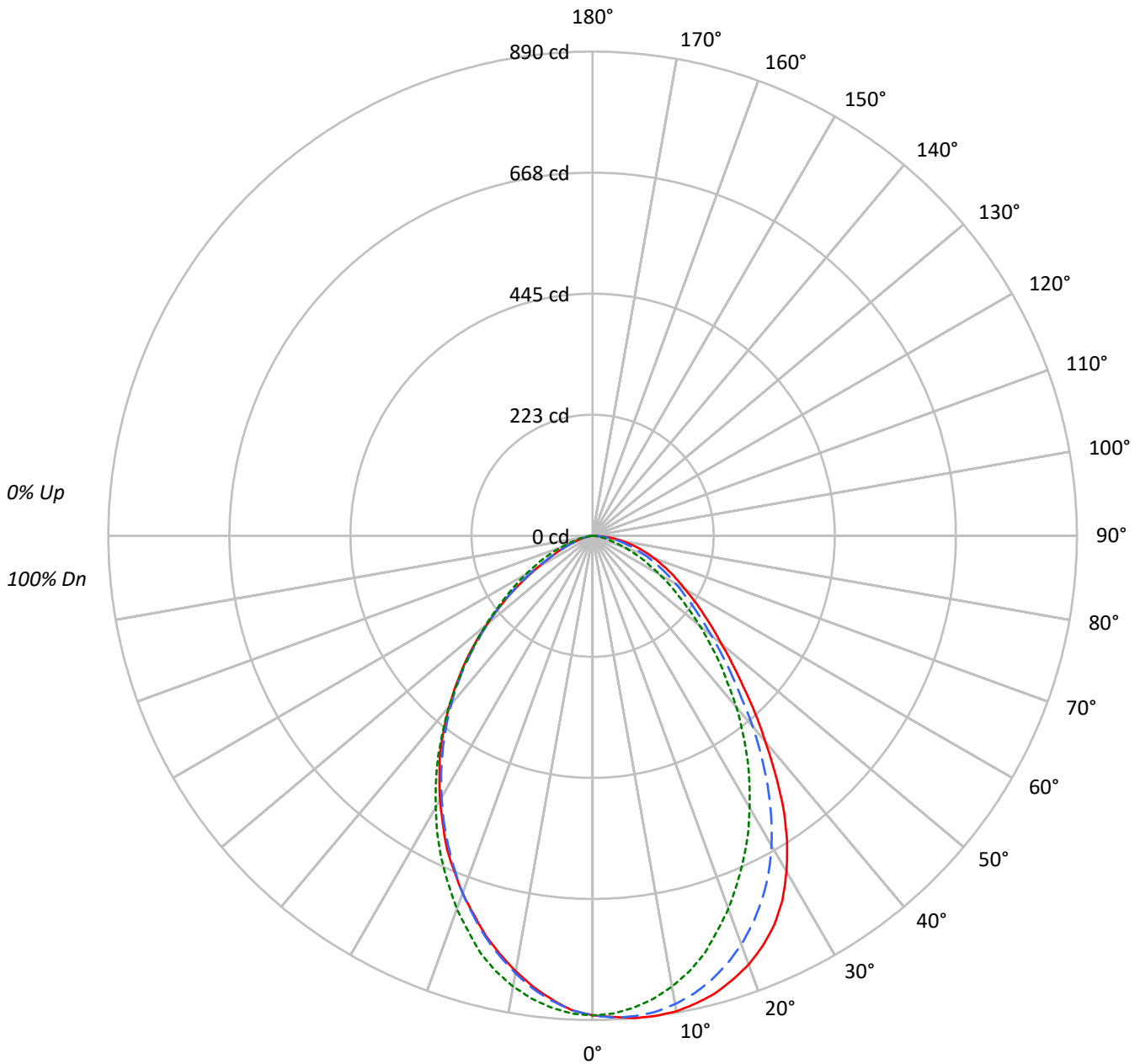
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	57510	57510	57510
5°	58286	57009	56046
10°	58801	55720	53852
15°	58795	53662	51345
20°	58222	50654	48537
25°	56839	47237	45646
30°	53675	43437	42247
35°	48655	39392	38906
40°	42021	35037	34926
45°	36029	30493	30724
50°	31312	26095	25719
55°	28117	21998	20610
60°	25561	18528	15162
65°	24005	15298	11146
70°	22890	11922	8183
75°	21905	8621	5546
80°	20701	5974	3682
85°	18340	3668	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	5.3
10°-20°	225.8	14.5
20°-30°	313.5	20.1
30°-40°	324.7	20.8
40°-50°	266.8	17.1
50°-60°	183.4	11.7
60°-70°	105.4	6.7
70°-80°	48.5	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°	621.8	39.8
0°-40°	946.5	60.6
0°-60°	1396.8	89.4
0°-90°	1562.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	882	882	882	882	882	
5°	890	886	870	858	856	85
15°	870	845	794	763	760	245
25°	790	737	656	628	634	361
35°	611	561	495	480	488	379
45°	390	361	330	327	333	304
55°	247	224	193	182	181	223
65°	156	136	99	70	72	155
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°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	885.1	892.5	887.6	886.4	888.9	888.9	888.9	885.1	887.6	883.9	886.4
5°	890.0	896.1	891.2	888.9	891.2	892.5	888.9	886.4	890.0	885.1	886.4
7.5°	890.0	896.1	891.2	890.0	891.2	891.2	890.0	885.1	887.6	882.8	882.8
10°	887.6	892.5	887.6	885.1	886.4	885.1	885.1	879.0	880.2	874.1	874.1
12.5°	880.2	886.4	880.2	877.8	877.8	877.8	874.1	869.2	870.5	863.1	861.9
15°	870.5	875.4	869.2	866.8	866.8	865.6	863.1	855.8	855.8	848.4	844.8
17.5°	855.8	860.6	855.8	852.1	850.9	848.4	846.0	838.6	836.1	827.6	824.0
20°	838.6	842.2	837.4	833.8	831.2	828.9	824.0	816.6	814.1	805.6	799.5
22.5°	816.6	821.5	814.1	810.5	808.0	804.4	799.5	792.1	788.4	777.4	770.1
25°	789.6	792.1	786.0	782.4	777.4	775.0	771.2	761.5	757.9	745.6	737.0
27.5°	755.4	757.9	750.5	748.0	741.9	739.5	734.6	726.0	721.1	708.9	700.2
30°	712.5	715.0	710.1	706.4	701.5	696.6	693.0	684.4	677.0	664.8	657.5
32.5°	664.8	668.5	663.5	658.6	650.1	651.4	645.2	636.6	630.5	619.5	610.9
35°	610.9	613.4	607.2	606.0	601.1	596.2	590.1	584.0	580.2	568.1	560.8
37.5°	550.9	557.0	550.9	546.0	543.6	539.9	536.2	527.6	525.2	517.9	508.1
40°	493.4	497.0	493.4	488.5	484.9	484.9	479.9	475.0	468.9	461.5	457.9
42.5°	442.0	439.5	438.2	435.9	431.0	429.8	428.5	422.4	418.8	411.4	405.2
45°	390.5	391.8	389.4	388.1	384.4	382.0	379.5	374.6	373.4	366.0	361.1
47.5°	347.8	346.5	344.0	344.0	341.6	339.1	336.6	333.0	331.8	325.6	320.8
50°	308.5	309.8	308.5	307.2	303.6	302.4	300.0	297.5	295.0	288.9	284.0
52.5°	276.6	275.5	274.2	274.2	270.6	269.4	266.9	264.5	262.0	255.9	252.2
55°	247.2	247.2	246.1	244.9	241.1	240.0	238.8	236.2	232.6	227.8	224.0
57.5°	220.4	220.4	219.1	217.9	215.5	215.5	213.0	210.6	208.1	203.2	198.4
60°	195.9	197.1	195.9	194.6	192.2	192.2	191.0	187.4	186.1	180.0	176.2
62.5°	175.1	175.1	175.1	173.9	172.6	170.1	170.1	166.5	164.0	160.4	155.5
65°	155.5	155.5	155.5	154.2	151.8	150.6	149.4	146.9	144.5	140.8	135.9
67.5°	137.1	137.1	137.1	135.9	133.5	132.2	131.0	129.8	126.1	122.4	117.5
70°	120.0	120.0	118.8	117.5	116.2	115.1	113.9	111.4	109.0	104.1	100.4
72.5°	102.9	102.9	102.9	100.4	99.1	99.1	96.8	95.5	93.0	88.1	84.5
75°	86.9	85.8	85.8	84.5	83.2	82.0	80.8	79.6	75.9	73.5	68.5
77.5°	71.0	71.0	69.8	68.5	68.5	67.4	66.1	63.6	62.5	58.8	55.1
80°	55.1	55.1	55.1	55.1	53.9	52.6	52.6	50.2	49.0	45.2	42.9
82.5°	41.6	40.4	40.4	40.4	39.1	38.0	38.0	36.8	35.5	33.0	30.6
85°	24.5	23.2	23.2	23.2	22.0	22.0	20.9	20.9	19.6	17.1	17.1
87.5°	7.4	7.4	8.6	8.6	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°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	883.9	887.6	882.8	881.5	886.4	883.9	882.8	880.2	881.5	879.0	875.4
5°	882.8	887.6	881.5	877.8	883.9	880.2	877.8	875.4	875.4	870.5	868.0
7.5°	879.0	881.5	875.4	871.6	875.4	871.6	869.2	865.6	864.4	858.2	854.5
10°	869.2	871.6	864.4	859.5	863.1	858.2	854.5	850.9	848.4	841.1	836.1
12.5°	855.8	857.0	848.4	842.2	844.8	841.1	835.0	830.0	827.6	820.2	814.1
15°	837.4	838.6	828.9	820.2	822.8	817.9	810.5	805.6	801.9	794.5	786.0
17.5°	815.4	814.1	803.1	794.5	795.8	789.6	782.4	775.0	770.1	761.5	755.4
20°	790.9	787.2	775.0	765.1	766.4	759.0	750.5	743.1	737.0	729.6	721.1
22.5°	760.2	755.4	744.4	732.1	733.4	727.2	715.0	708.9	702.8	693.0	685.6
25°	727.2	719.9	708.9	696.6	696.6	689.2	679.5	672.1	666.0	656.2	647.6
27.5°	688.0	684.4	669.6	659.9	658.6	651.4	642.8	634.1	626.9	618.2	609.8
30°	645.2	639.1	628.0	617.0	614.6	608.5	599.9	590.1	585.2	576.6	569.2
32.5°	599.9	593.8	581.5	570.5	569.2	564.4	557.0	547.2	542.4	536.2	531.4
35°	548.5	546.0	533.8	525.2	525.2	520.4	513.0	504.4	500.8	494.6	488.5
37.5°	499.5	495.9	484.9	477.5	477.5	471.4	464.0	460.4	456.6	451.8	448.1
40°	448.1	445.6	437.1	429.8	431.0	426.0	421.1	416.2	413.8	411.4	407.6
42.5°	400.4	397.9	391.8	385.6	385.6	382.0	377.1	373.4	371.0	367.2	366.0
45°	357.5	353.9	348.9	342.8	342.8	339.1	336.6	334.2	333.0	330.5	326.9
47.5°	315.9	313.4	308.5	302.4	302.4	302.4	297.5	293.9	293.9	291.4	290.1
50°	280.4	276.6	273.0	268.1	268.1	265.6	262.0	258.4	258.4	257.1	254.6
52.5°	247.2	244.9	240.0	235.0	235.0	232.6	229.0	227.8	226.5	222.9	221.6
55°	219.1	216.8	213.0	206.9	205.6	204.5	200.8	198.4	197.1	193.4	193.4
57.5°	193.4	191.0	184.9	181.2	180.0	177.5	173.9	171.4	170.1	167.8	165.2
60°	171.4	167.8	162.9	157.9	156.8	154.2	150.6	148.1	146.9	142.0	139.6
62.5°	150.6	146.9	142.0	137.1	135.9	133.5	128.5	126.1	123.6	118.8	116.2
65°	131.0	127.4	122.4	117.5	115.1	113.9	109.0	105.2	102.9	99.1	94.2
67.5°	112.6	109.0	104.1	98.0	98.0	94.2	90.6	86.9	83.2	79.6	75.9
70°	95.5	91.9	86.9	82.0	80.8	78.4	74.6	69.8	67.4	62.5	58.8
72.5°	79.6	75.9	71.0	66.1	64.9	62.5	58.8	53.9	50.2	46.5	42.9
75°	64.9	61.2	56.4	52.6	51.4	49.0	45.2	40.4	36.8	34.2	30.6
77.5°	51.4	47.8	44.1	40.4	39.1	36.8	33.0	30.6	26.9	24.5	20.9
80°	39.1	36.8	33.0	30.6	29.4	26.9	24.5	20.9	18.4	15.9	14.8
82.5°	28.1	25.8	23.2	19.6	19.6	17.1	15.9	13.5	11.0	9.8	8.6
85°	15.9	13.5	12.2	11.0	9.8	9.8	8.6	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°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	875.4	876.6	874.1	876.6	874.1	875.4	872.9	875.4	872.9	875.4	870.5
5°	866.8	866.8	863.1	865.6	863.1	864.4	859.5	860.6	858.2	860.6	855.8
7.5°	852.1	853.4	847.2	849.6	846.0	846.0	842.2	843.5	839.9	841.1	837.4
10°	835.0	833.8	827.6	830.0	825.1	825.1	821.5	821.5	816.6	817.9	812.9
12.5°	810.5	809.2	801.9	804.4	799.5	799.5	795.8	795.8	790.9	793.4	788.4
15°	782.4	781.1	773.8	775.0	770.1	770.1	765.1	766.4	762.8	765.1	760.2
17.5°	750.5	749.2	741.9	743.1	737.0	738.2	734.6	733.4	730.9	732.1	728.5
20°	717.4	715.0	707.6	708.9	706.4	702.8	700.2	701.5	699.1	701.5	697.9
22.5°	683.1	678.2	672.1	672.1	669.6	669.6	666.0	668.5	663.5	667.2	664.8
25°	644.0	640.2	635.4	637.9	633.0	633.0	629.2	630.5	628.0	630.5	628.0
27.5°	606.0	603.6	596.2	598.6	595.0	596.2	592.5	593.8	592.5	595.0	592.5
30°	565.6	564.4	559.5	559.5	558.2	557.0	555.9	555.9	554.6	558.2	555.9
32.5°	527.6	524.0	519.1	522.8	516.6	520.4	517.9	520.4	517.9	520.4	519.1
35°	488.5	487.2	481.1	482.4	481.1	481.1	479.9	479.9	479.9	483.6	483.6
37.5°	446.9	445.6	442.0	443.2	440.8	439.5	439.5	442.0	442.0	444.4	444.4
40°	406.5	407.6	404.0	404.0	402.8	402.8	402.8	405.2	404.0	406.5	405.2
42.5°	366.0	366.0	362.4	363.6	362.4	363.6	363.6	366.0	366.0	367.2	366.0
45°	328.1	328.1	326.9	328.1	325.6	326.9	325.6	328.1	326.9	328.1	328.1
47.5°	290.1	290.1	290.1	288.9	288.9	288.9	288.9	288.9	287.8	290.1	288.9
50°	254.6	255.9	254.6	254.6	253.4	254.6	253.4	253.4	251.0	252.2	252.2
52.5°	222.9	222.9	220.4	220.4	220.4	219.1	219.1	219.1	217.9	217.9	215.5
55°	192.2	192.2	189.8	189.8	188.5	187.4	186.1	186.1	182.4	182.4	178.8
57.5°	164.0	162.9	159.1	159.1	156.8	155.5	154.2	153.0	150.6	148.1	146.9
60°	138.4	135.9	133.5	132.2	129.8	127.4	124.9	122.4	120.0	118.8	117.5
62.5°	113.9	110.1	107.8	106.5	104.1	100.4	98.0	95.5	93.0	91.9	89.4
65°	91.9	88.1	84.5	83.2	80.8	78.4	74.6	72.2	69.8	68.5	68.5
67.5°	72.2	68.5	63.6	63.6	61.2	58.8	56.4	53.9	52.6	53.9	53.9
70°	53.9	51.4	47.8	46.5	44.1	41.6	40.4	40.4	40.4	41.6	40.4
72.5°	40.4	36.8	34.2	33.0	31.9	30.6	30.6	30.6	29.4	30.6	30.6
75°	28.1	25.8	23.2	23.2	22.0	22.0	22.0	22.0	22.0	22.0	22.0
77.5°	19.6	17.1	15.9	15.9	15.9	14.8	14.8	14.8	14.8	14.8	14.8
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\_6B20D010 EC6B10209024 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	870.5	874.1	869.2	872.9	871.6	870.5	868.0	872.9
5°	855.8	857.0	852.1	857.0	855.8	853.4	850.9	855.8
7.5°	835.0	838.6	832.5	837.4	836.1	833.8	831.2	836.1
10°	811.8	815.4	810.5	814.1	814.1	811.8	808.0	812.9
12.5°	786.0	788.4	783.5	788.4	787.2	784.8	783.5	787.2
15°	757.9	761.5	756.6	760.2	759.0	757.9	756.6	760.2
17.5°	727.2	730.9	727.2	730.9	730.9	727.2	726.0	728.5
20°	696.6	699.1	695.4	699.1	697.9	697.9	695.4	699.1
22.5°	662.4	666.0	663.5	666.0	664.8	664.8	663.5	666.0
25°	628.0	631.8	628.0	631.8	630.5	630.5	628.0	634.1
27.5°	593.8	596.2	592.5	597.5	596.2	593.8	595.0	596.2
30°	557.0	559.5	557.0	560.8	560.8	560.8	558.2	560.8
32.5°	520.4	524.0	520.4	524.0	522.8	522.8	521.5	524.0
35°	483.6	484.9	482.4	486.0	486.0	487.2	484.9	488.5
37.5°	445.6	446.9	445.6	446.9	449.2	445.6	448.1	449.2
40°	406.5	408.9	407.6	408.9	408.9	410.1	408.9	410.1
42.5°	367.2	369.8	367.2	371.0	369.8	369.8	371.0	371.0
45°	326.9	330.5	328.1	330.5	331.8	330.5	330.5	333.0
47.5°	288.9	291.4	290.1	291.4	291.4	291.4	291.4	293.9
50°	251.0	252.2	252.2	253.4	253.4	254.6	252.2	253.4
52.5°	213.0	215.5	215.5	215.5	214.2	215.5	215.5	215.5
55°	178.8	180.0	177.5	180.0	180.0	178.8	178.8	181.2
57.5°	145.8	145.8	145.8	145.8	145.8	144.5	145.8	145.8
60°	115.1	116.2	115.1	115.1	115.1	115.1	113.9	116.2
62.5°	89.4	89.4	88.1	89.4	89.4	89.4	90.6	90.6
65°	69.8	71.0	69.8	71.0	71.0	71.0	71.0	72.2
67.5°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
70°	41.6	41.6	41.6	42.9	41.6	41.6	41.6	42.9
72.5°	30.6	30.6	30.6	30.6	30.6	30.6	31.9	31.9
75°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
77.5°	14.8	14.8	14.8	15.9	14.8	15.9	14.8	14.8
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)