

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: P274440

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274440
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: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, LENSED WALLWASH WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772.5 lumens
Efficiency: N/A
Efficacy: 55.2 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

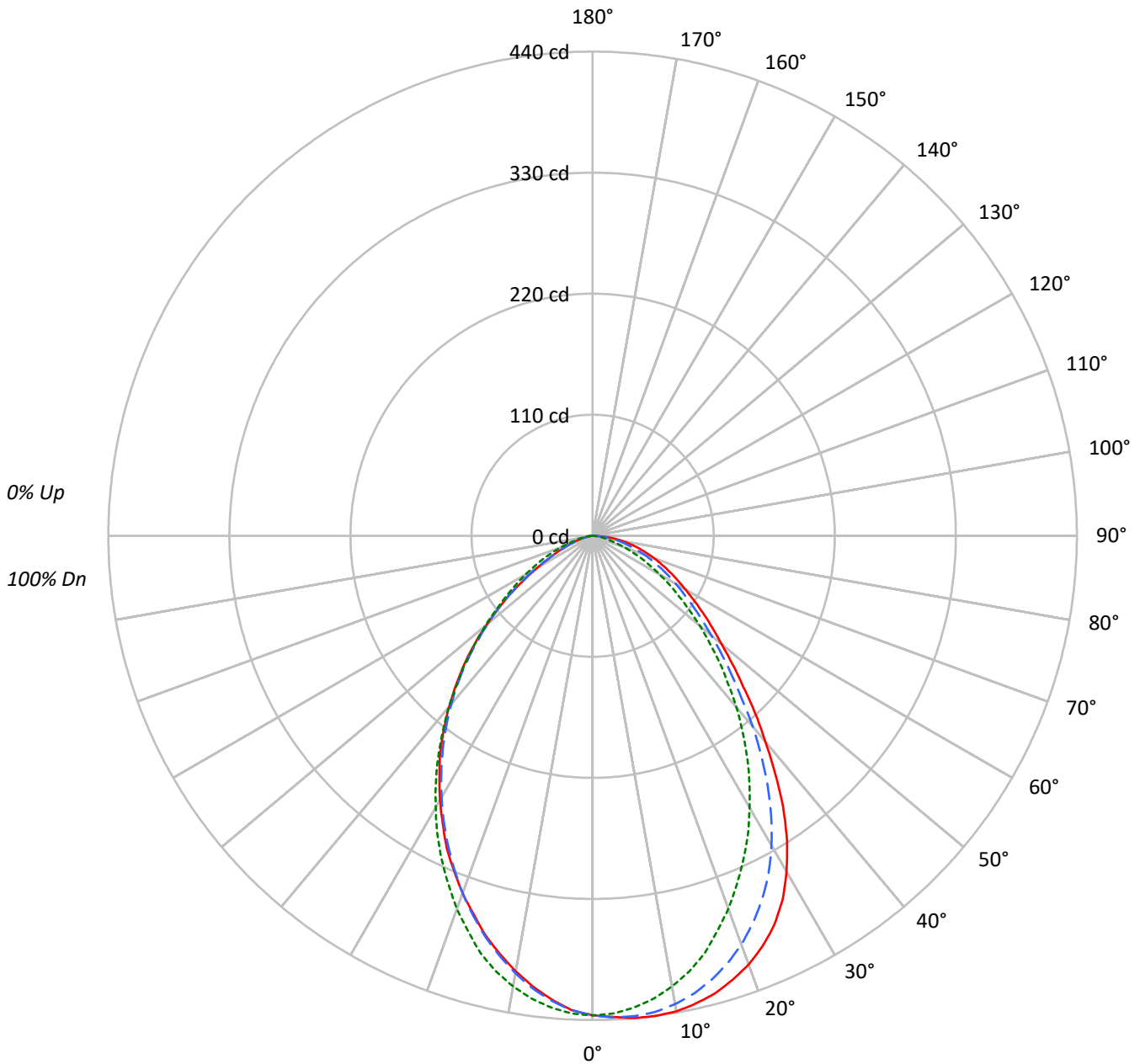
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

Luminous Intensity Polar Plot





TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

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°	28432	28432	28432
5°	28816	28187	27709
10°	29069	27546	26625
15°	29070	26531	25389
20°	28785	25043	23994
25°	28103	23352	22567
30°	26540	21478	20882
35°	24053	19473	19234
40°	20772	17323	17272
45°	17816	15076	15187
50°	15478	12900	12717
55°	13911	10874	10191
60°	12631	9160	7503
65°	11871	7564	5511
70°	11312	5894	4044
75°	10839	4260	2748
80°	10219	2968	1803
85°	9057	1797	898



TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	5.3
10°-20°	111.7	14.5
20°-30°	155.0	20.1
30°-40°	160.5	20.8
40°-50°	131.9	17.1
50°-60°	90.7	11.7
60°-70°	52.1	6.7
70°-80°	24.0	3.1
80°-90°	5.8	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°	307.4	39.8
0°-40°	468.0	60.6
0°-60°	690.6	89.4
0°-90°	772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	436	436	436	436	436	
5°	440	438	430	424	423	42
15°	430	418	393	377	376	121
25°	390	364	324	310	314	179
35°	302	277	244	237	242	187
45°	193	179	163	162	165	150
55°	122	111	96	90	90	110
65°	77	67	49	34	36	77
75°	43	34	17	11	11	45
85°	12	8	2	1	1	14
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°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	437.6	441.2	438.8	438.2	439.4	439.4	439.4	437.6	438.8	437.0	438.2
5°	440.0	443.1	440.6	439.4	440.6	441.2	439.4	438.2	440.0	437.6	438.2
7.5°	440.0	443.1	440.6	440.0	440.6	440.6	440.0	437.6	438.8	436.4	436.4
10°	438.8	441.2	438.8	437.6	438.2	437.6	437.6	434.6	435.2	432.2	432.2
12.5°	435.2	438.2	435.2	434.0	434.0	434.0	432.2	429.7	430.4	426.7	426.1
15°	430.4	432.8	429.7	428.5	428.5	427.9	426.7	423.1	423.1	419.5	417.6
17.5°	423.1	425.5	423.1	421.3	420.7	419.5	418.2	414.6	413.4	409.2	407.4
20°	414.6	416.4	414.0	412.2	411.0	409.8	407.4	403.7	402.5	398.3	395.2
22.5°	403.7	406.1	402.5	400.7	399.5	397.7	395.2	391.6	389.8	384.4	380.7
25°	390.4	391.6	388.6	386.8	384.4	383.1	381.3	376.5	374.7	368.6	364.4
27.5°	373.5	374.7	371.0	369.8	366.8	365.6	363.2	358.9	356.5	350.5	346.2
30°	352.3	353.5	351.1	349.2	346.8	344.4	342.6	338.4	334.7	328.7	325.0
32.5°	328.7	330.5	328.1	325.6	321.4	322.0	319.0	314.7	311.7	306.3	302.0
35°	302.0	303.2	300.2	299.6	297.2	294.8	291.7	288.7	286.9	280.8	277.2
37.5°	272.4	275.4	272.4	270.0	268.7	266.9	265.1	260.9	259.7	256.0	251.2
40°	243.9	245.7	243.9	241.5	239.7	239.7	237.3	234.8	231.8	228.2	226.4
42.5°	218.5	217.3	216.7	215.5	213.1	212.5	211.8	208.8	207.0	203.4	200.3
45°	193.1	193.7	192.5	191.9	190.1	188.8	187.6	185.2	184.6	181.0	178.6
47.5°	171.9	171.3	170.1	170.1	168.9	167.7	166.5	164.6	164.0	161.0	158.6
50°	152.5	153.1	152.5	151.9	150.1	149.5	148.3	147.1	145.9	142.8	140.4
52.5°	136.8	136.2	135.6	135.6	133.8	133.2	132.0	130.7	129.5	126.5	124.7
55°	122.3	122.3	121.7	121.1	119.2	118.6	118.0	116.8	115.0	112.6	110.8
57.5°	108.9	108.9	108.3	107.7	106.5	106.5	105.3	104.1	102.9	100.5	98.1
60°	96.8	97.4	96.8	96.2	95.0	95.0	94.4	92.6	92.0	89.0	87.2
62.5°	86.6	86.6	86.6	85.9	85.3	84.1	84.1	82.3	81.1	79.3	76.9
65°	76.9	76.9	76.9	76.3	75.1	74.4	73.8	72.6	71.4	69.6	67.2
67.5°	67.8	67.8	67.8	67.2	66.0	65.4	64.8	64.2	62.3	60.5	58.1
70°	59.3	59.3	58.7	58.1	57.5	56.9	56.3	55.1	53.9	51.4	49.6
72.5°	50.8	50.8	50.8	49.6	49.0	49.0	47.8	47.2	46.0	43.6	41.8
75°	43.0	42.4	42.4	41.8	41.2	40.6	39.9	39.3	37.5	36.3	33.9
77.5°	35.1	35.1	34.5	33.9	33.9	33.3	32.7	31.5	30.9	29.1	27.2
80°	27.2	27.2	27.2	27.2	26.6	26.0	26.0	24.8	24.2	22.4	21.2
82.5°	20.6	20.0	20.0	20.0	19.4	18.8	18.8	18.2	17.6	16.3	15.1
85°	12.1	11.5	11.5	11.5	10.9	10.9	10.3	10.3	9.7	8.5	8.5
87.5°	3.6	3.6	4.2	4.2	3.6	3.6	3.6	3.6	3.6	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	437.0	438.8	436.4	435.8	438.2	437.0	436.4	435.2	435.8	434.6	432.8
5°	436.4	438.8	435.8	434.0	437.0	435.2	434.0	432.8	432.8	430.4	429.1
7.5°	434.6	435.8	432.8	431.0	432.8	431.0	429.7	427.9	427.3	424.3	422.5
10°	429.7	431.0	427.3	424.9	426.7	424.3	422.5	420.7	419.5	415.8	413.4
12.5°	423.1	423.7	419.5	416.4	417.6	415.8	412.8	410.4	409.2	405.5	402.5
15°	414.0	414.6	409.8	405.5	406.7	404.3	400.7	398.3	396.5	392.8	388.6
17.5°	403.1	402.5	397.1	392.8	393.4	390.4	386.8	383.1	380.7	376.5	373.5
20°	391.0	389.2	383.1	378.3	378.9	375.3	371.0	367.4	364.4	360.7	356.5
22.5°	375.9	373.5	368.0	362.0	362.6	359.5	353.5	350.5	347.4	342.6	339.0
25°	359.5	355.9	350.5	344.4	344.4	340.8	335.9	332.3	329.3	324.4	320.2
27.5°	340.2	338.4	331.1	326.2	325.6	322.0	317.8	313.5	309.9	305.7	301.4
30°	319.0	316.0	310.5	305.1	303.8	300.8	296.6	291.7	289.3	285.1	281.5
32.5°	296.6	293.6	287.5	282.1	281.5	279.0	275.4	270.6	268.1	265.1	262.7
35°	271.2	270.0	263.9	259.7	259.7	257.2	253.6	249.4	247.6	244.5	241.5
37.5°	247.0	245.1	239.7	236.1	236.1	233.0	229.4	227.6	225.8	223.3	221.5
40°	221.5	220.3	216.1	212.5	213.1	210.6	208.2	205.8	204.6	203.4	201.6
42.5°	197.9	196.7	193.7	190.7	190.7	188.8	186.4	184.6	183.4	181.6	181.0
45°	176.7	174.9	172.5	169.5	169.5	167.7	166.5	165.2	164.6	163.4	161.6
47.5°	156.2	155.0	152.5	149.5	149.5	149.5	147.1	145.3	145.3	144.1	143.5
50°	138.6	136.8	135.0	132.6	132.6	131.3	129.5	127.7	127.7	127.1	125.9
52.5°	122.3	121.1	118.6	116.2	116.2	115.0	113.2	112.6	112.0	110.2	109.6
55°	108.3	107.1	105.3	102.3	101.7	101.1	99.3	98.1	97.4	95.6	95.6
57.5°	95.6	94.4	91.4	89.6	89.0	87.8	85.9	84.7	84.1	82.9	81.7
60°	84.7	82.9	80.5	78.1	77.5	76.3	74.4	73.2	72.6	70.2	69.0
62.5°	74.4	72.6	70.2	67.8	67.2	66.0	63.6	62.3	61.1	58.7	57.5
65°	64.8	62.9	60.5	58.1	56.9	56.3	53.9	52.1	50.8	49.0	46.6
67.5°	55.7	53.9	51.4	48.4	48.4	46.6	44.8	43.0	41.2	39.3	37.5
70°	47.2	45.4	43.0	40.6	39.9	38.7	36.9	34.5	33.3	30.9	29.1
72.5°	39.3	37.5	35.1	32.7	32.1	30.9	29.1	26.6	24.8	23.0	21.2
75°	32.1	30.3	27.8	26.0	25.4	24.2	22.4	20.0	18.2	16.9	15.1
77.5°	25.4	23.6	21.8	20.0	19.4	18.2	16.3	15.1	13.3	12.1	10.3
80°	19.4	18.2	16.3	15.1	14.5	13.3	12.1	10.3	9.1	7.9	7.3
82.5°	13.9	12.7	11.5	9.7	9.7	8.5	7.9	6.7	5.4	4.8	4.2
85°	7.9	6.7	6.1	5.4	4.8	4.8	4.2	3.6	3.0	2.4	2.4
87.5°	2.4	2.4	1.8	1.8	1.8	1.8	1.2	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	0.0	0.0	0.0



TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	432.8	433.4	432.2	433.4	432.2	432.8	431.6	432.8	431.6	432.8	430.4
5°	428.5	428.5	426.7	427.9	426.7	427.3	424.9	425.5	424.3	425.5	423.1
7.5°	421.3	421.9	418.9	420.1	418.2	418.2	416.4	417.0	415.2	415.8	414.0
10°	412.8	412.2	409.2	410.4	408.0	408.0	406.1	406.1	403.7	404.3	401.9
12.5°	400.7	400.1	396.5	397.7	395.2	395.2	393.4	393.4	391.0	392.2	389.8
15°	386.8	386.2	382.5	383.1	380.7	380.7	378.3	378.9	377.1	378.3	375.9
17.5°	371.0	370.4	366.8	367.4	364.4	365.0	363.2	362.6	361.4	362.0	360.1
20°	354.7	353.5	349.9	350.5	349.2	347.4	346.2	346.8	345.6	346.8	345.0
22.5°	337.7	335.3	332.3	332.3	331.1	331.1	329.3	330.5	328.1	329.9	328.7
25°	318.4	316.6	314.1	315.3	312.9	312.9	311.1	311.7	310.5	311.7	310.5
27.5°	299.6	298.4	294.8	296.0	294.2	294.8	293.0	293.6	293.0	294.2	293.0
30°	279.6	279.0	276.6	276.6	276.0	275.4	274.8	274.8	274.2	276.0	274.8
32.5°	260.9	259.1	256.6	258.5	255.4	257.2	256.0	257.2	256.0	257.2	256.6
35°	241.5	240.9	237.9	238.5	237.9	237.9	237.3	237.3	237.3	239.1	239.1
37.5°	220.9	220.3	218.5	219.1	217.9	217.3	217.3	218.5	218.5	219.7	219.7
40°	201.0	201.6	199.7	199.7	199.1	199.1	199.1	200.3	199.7	201.0	200.3
42.5°	181.0	181.0	179.2	179.8	179.2	179.8	179.8	181.0	181.0	181.6	181.0
45°	162.2	162.2	161.6	162.2	161.0	161.6	161.0	162.2	161.6	162.2	162.2
47.5°	143.5	143.5	143.5	142.8	142.8	142.8	142.8	142.8	142.2	143.5	142.8
50°	125.9	126.5	125.9	125.9	125.3	125.9	125.3	125.3	124.1	124.7	124.7
52.5°	110.2	110.2	108.9	108.9	108.9	108.3	108.3	108.3	107.7	107.7	106.5
55°	95.0	95.0	93.8	93.8	93.2	92.6	92.0	92.0	90.2	90.2	88.4
57.5°	81.1	80.5	78.7	78.7	77.5	76.9	76.3	75.7	74.4	73.2	72.6
60°	68.4	67.2	66.0	65.4	64.2	62.9	61.7	60.5	59.3	58.7	58.1
62.5°	56.3	54.5	53.3	52.7	51.4	49.6	48.4	47.2	46.0	45.4	44.2
65°	45.4	43.6	41.8	41.2	39.9	38.7	36.9	35.7	34.5	33.9	33.9
67.5°	35.7	33.9	31.5	31.5	30.3	29.1	27.8	26.6	26.0	26.6	26.6
70°	26.6	25.4	23.6	23.0	21.8	20.6	20.0	20.0	20.0	20.6	20.0
72.5°	20.0	18.2	16.9	16.3	15.7	15.1	15.1	15.1	14.5	15.1	15.1
75°	13.9	12.7	11.5	11.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	9.7	8.5	7.9	7.9	7.9	7.3	7.3	7.3	7.3	7.3	7.3
80°	6.1	6.1	5.4	5.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	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	0.0	0.0	0.0



TEST NUMBER: P274440

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	430.4	432.2	429.7	431.6	431.0	430.4	429.1	431.6
5°	423.1	423.7	421.3	423.7	423.1	421.9	420.7	423.1
7.5°	412.8	414.6	411.6	414.0	413.4	412.2	411.0	413.4
10°	401.3	403.1	400.7	402.5	402.5	401.3	399.5	401.9
12.5°	388.6	389.8	387.4	389.8	389.2	388.0	387.4	389.2
15°	374.7	376.5	374.1	375.9	375.3	374.7	374.1	375.9
17.5°	359.5	361.4	359.5	361.4	361.4	359.5	358.9	360.1
20°	344.4	345.6	343.8	345.6	345.0	345.0	343.8	345.6
22.5°	327.5	329.3	328.1	329.3	328.7	328.7	328.1	329.3
25°	310.5	312.3	310.5	312.3	311.7	311.7	310.5	313.5
27.5°	293.6	294.8	293.0	295.4	294.8	293.6	294.2	294.8
30°	275.4	276.6	275.4	277.2	277.2	277.2	276.0	277.2
32.5°	257.2	259.1	257.2	259.1	258.5	258.5	257.8	259.1
35°	239.1	239.7	238.5	240.3	240.3	240.9	239.7	241.5
37.5°	220.3	220.9	220.3	220.9	222.1	220.3	221.5	222.1
40°	201.0	202.2	201.6	202.2	202.2	202.8	202.2	202.8
42.5°	181.6	182.8	181.6	183.4	182.8	182.8	183.4	183.4
45°	161.6	163.4	162.2	163.4	164.0	163.4	163.4	164.6
47.5°	142.8	144.1	143.5	144.1	144.1	144.1	144.1	145.3
50°	124.1	124.7	124.7	125.3	125.3	125.9	124.7	125.3
52.5°	105.3	106.5	106.5	106.5	105.9	106.5	106.5	106.5
55°	88.4	89.0	87.8	89.0	89.0	88.4	88.4	89.6
57.5°	72.0	72.0	72.0	72.0	72.0	71.4	72.0	72.0
60°	56.9	57.5	56.9	56.9	56.9	56.9	56.3	57.5
62.5°	44.2	44.2	43.6	44.2	44.2	44.2	44.8	44.8
65°	34.5	35.1	34.5	35.1	35.1	35.1	35.1	35.7
67.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
70°	20.6	20.6	20.6	21.2	20.6	20.6	20.6	21.2
72.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.7	15.7
75°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	7.3	7.3	7.3	7.9	7.3	7.9	7.3	7.3
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
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)