

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P563988

Luminaire Tested: **LX6C08D010 EX6C089030 6LCSWH**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P563988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C08D010 EX6C089030 6LCSWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

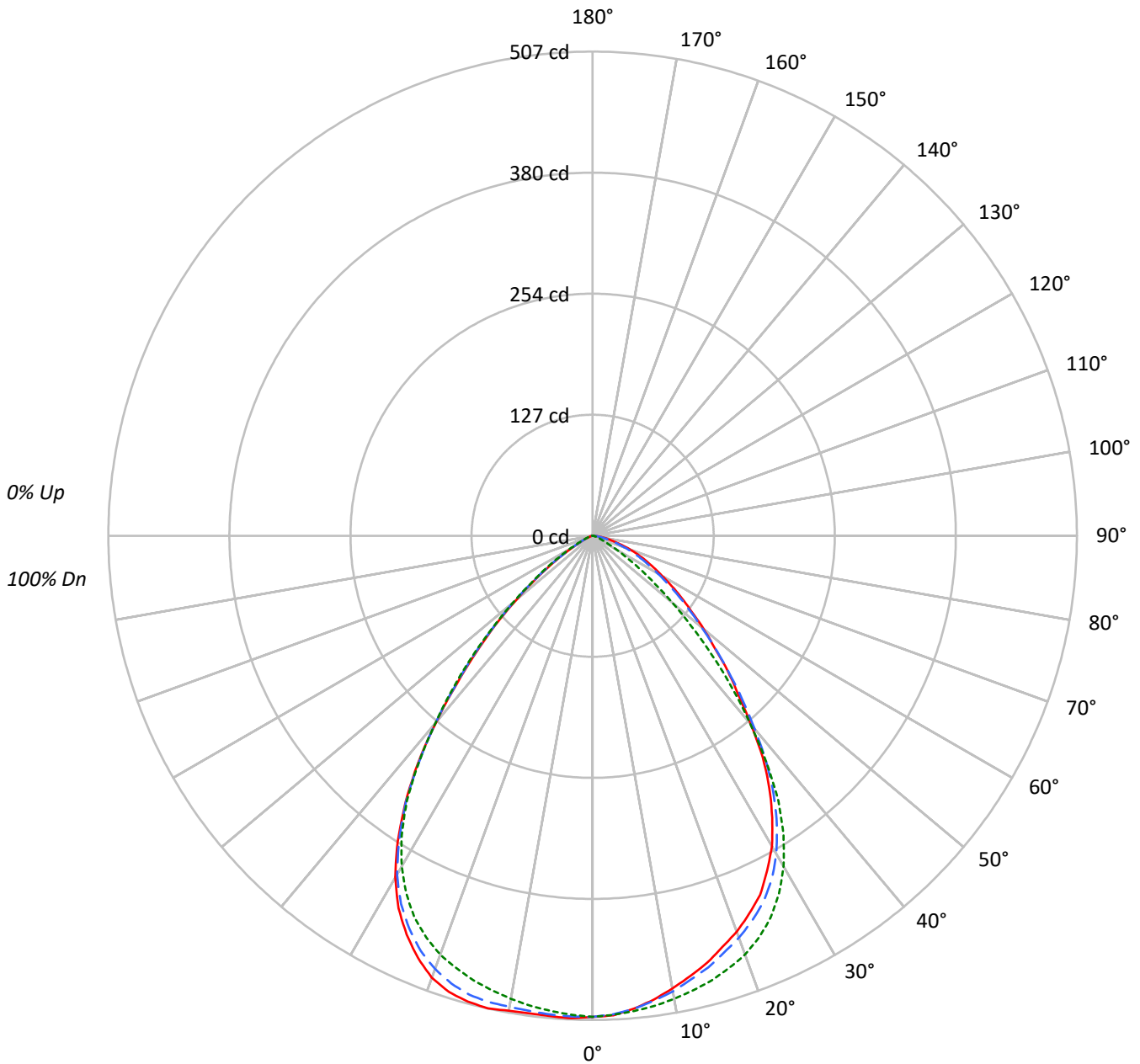
Lumens per Lamp: N/A
Luminaire Lumens: 845.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (A_{in}): 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				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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27618	27618	27618
5°	27355	27487	27790
10°	26792	27404	28111
15°	26277	27350	28661
20°	25739	27227	28720
25°	25102	26687	27860
30°	23763	25308	26156
35°	21589	22680	22888
40°	18427	18327	18241
45°	15474	13730	13304
50°	12929	9288	8818
55°	10877	5696	5171
60°	9210	3004	2598
65°	7965	1583	1271
70°	6636	978	689
75°	4893	657	381
80°	3852	379	189
85°	3082	377	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	5.6
10°-20°	136.0	16.1
20°-30°	200.8	23.8
30°-40°	206.9	24.5
40°-50°	142.9	16.9
50°-60°	70.4	8.3
60°-70°	28.6	3.4
70°-80°	10.2	1.2
80°-90°	2.1	0.2
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°	384.2	45.5
0°-40°	591.1	69.9
0°-60°	804.5	95.2
0°-90°	845.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	504	504	504	504	504	
5°	497	497	500	503	505	47
15°	463	468	482	498	505	130
25°	415	423	441	454	461	190
35°	323	330	339	341	342	200
45°	200	201	177	175	172	154
55°	114	110	60	56	54	103
65°	61	55	12	10	10	61
75°	23	19	3	2	2	26
85°	5	4	1	0	0	6
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°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	502.6	500.8	502.0	499.5	502.6	499.5	500.2	500.8	500.2	500.8	501.4
5°	497.1	495.3	497.1	494.2	497.1	495.3	495.3	496.0	496.0	496.5	497.1
7.5°	489.9	488.1	489.9	486.8	490.5	488.7	488.7	489.9	489.3	489.9	491.1
10°	481.3	478.9	480.7	478.9	482.6	480.1	481.3	481.3	481.3	483.2	484.4
12.5°	472.2	469.7	472.2	469.1	472.8	471.0	471.6	473.4	474.0	475.2	475.8
15°	463.0	460.1	461.2	459.4	463.0	461.2	461.9	464.3	464.3	466.1	467.9
17.5°	451.5	449.1	451.5	449.1	452.1	450.9	452.1	454.0	454.0	455.8	457.5
20°	441.2	438.7	440.5	438.7	442.4	440.5	441.2	443.6	444.2	446.0	447.9
22.5°	428.3	426.5	427.7	426.0	429.6	428.3	429.1	431.4	432.0	433.2	436.3
25°	415.0	411.4	413.2	412.0	415.6	413.8	415.0	417.5	418.7	420.5	423.0
27.5°	395.5	393.7	394.9	394.9	397.9	396.1	396.7	399.1	401.0	402.8	405.9
30°	375.4	372.4	373.6	374.2	376.7	375.4	376.7	379.1	379.7	382.2	384.6
32.5°	349.9	348.7	351.1	349.9	351.1	351.1	351.7	353.6	354.8	356.0	359.1
35°	322.6	320.1	322.6	321.3	324.4	322.6	324.4	326.2	326.2	328.6	330.4
37.5°	292.6	289.7	290.8	290.8	292.0	291.5	291.5	294.5	295.1	296.9	298.8
40°	257.5	256.1	258.6	258.0	258.6	258.6	259.2	261.0	262.2	262.8	263.5
42.5°	225.7	226.3	226.9	226.9	226.9	226.9	226.9	229.4	228.8	230.6	231.2
45°	199.6	197.1	198.4	197.7	199.6	197.7	199.6	201.4	200.2	202.0	200.8
47.5°	172.8	172.8	172.8	172.2	173.4	172.8	174.0	174.7	174.7	174.7	174.0
50°	151.6	149.7	150.3	150.3	151.0	150.3	151.6	152.2	152.2	151.0	148.5
52.5°	130.8	130.2	130.2	131.4	131.4	130.8	130.8	130.8	130.8	129.0	127.8
55°	113.8	112.6	113.2	113.2	113.2	113.2	113.8	113.2	113.2	111.4	109.6
57.5°	98.6	97.3	97.3	97.3	98.0	97.3	97.3	97.3	96.7	94.9	92.5
60°	84.0	83.4	84.0	84.0	84.5	84.0	84.0	84.0	82.8	81.0	78.5
62.5°	71.8	71.8	71.8	72.4	72.4	71.8	71.8	71.2	70.6	68.2	65.7
65°	61.4	60.8	61.4	61.4	62.0	62.0	61.4	60.8	60.2	57.8	55.3
67.5°	51.2	50.5	51.2	51.2	51.7	51.2	51.2	51.2	49.3	48.1	45.7
70°	41.4	40.8	40.8	40.8	41.4	40.2	40.8	40.8	39.6	37.7	35.3
72.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.0	31.0	29.8	28.0	26.8
75°	23.1	23.1	23.7	23.7	23.1	23.1	23.1	22.5	21.9	20.6	19.4
77.5°	17.1	17.1	17.1	17.1	16.5	16.5	16.5	15.8	15.3	14.6	13.4
80°	12.2	12.2	12.2	11.6	12.2	11.6	11.6	11.6	10.4	9.8	9.2
82.5°	8.5	7.9	7.9	7.9	7.9	7.9	7.9	7.3	7.3	6.7	6.1
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.3	3.7	3.7
87.5°	2.4	3.1	3.1	3.1	3.1	3.1	3.1	2.4	2.4	2.4	1.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	501.4	501.4	502.6	500.8	503.8	502.0	501.4	504.4	502.6	502.0	503.2
5°	497.1	497.8	498.3	497.1	500.2	498.3	498.3	501.4	500.2	499.5	501.4
7.5°	491.7	492.3	493.4	492.9	495.3	494.2	494.8	497.8	496.5	496.5	498.3
10°	485.0	486.2	487.4	487.4	490.5	489.3	489.3	492.9	491.7	492.3	494.8
12.5°	477.1	478.9	480.7	481.3	484.4	482.6	483.2	487.4	486.8	487.4	489.9
15°	468.5	471.0	472.8	472.8	476.5	474.6	476.5	480.7	479.5	481.9	485.0
17.5°	458.9	461.2	463.6	464.3	467.9	466.7	469.1	473.4	473.4	474.6	478.3
20°	449.7	452.8	454.0	455.8	459.4	458.9	460.1	464.9	464.9	466.7	470.4
22.5°	437.5	440.5	443.0	444.8	447.9	447.9	449.7	454.0	454.0	455.2	458.9
25°	424.2	427.7	429.6	431.4	434.4	433.8	435.7	439.3	439.9	441.2	444.8
27.5°	407.1	410.1	412.6	413.8	418.1	415.6	417.5	421.7	421.1	422.3	425.4
30°	385.8	388.9	391.3	391.3	394.9	394.9	396.7	398.5	398.5	399.8	402.2
32.5°	360.8	364.5	364.5	366.3	368.7	366.3	368.7	371.2	370.0	371.8	373.6
35°	332.2	334.0	334.7	334.7	336.5	335.9	335.3	337.1	335.9	338.9	340.8
37.5°	297.5	300.0	298.8	300.0	299.4	297.5	297.5	300.6	298.1	298.8	300.6
40°	264.1	264.1	263.5	260.4	261.0	259.2	258.6	259.2	256.7	256.1	258.6
42.5°	229.4	228.8	226.9	222.8	223.3	220.2	217.9	217.9	216.7	216.1	216.7
45°	198.4	196.5	193.5	188.7	187.4	185.0	180.1	178.9	177.1	177.1	177.7
47.5°	169.8	167.3	162.4	157.0	154.0	151.0	146.1	144.2	141.2	140.0	141.2
50°	146.1	141.8	135.7	127.8	124.7	121.0	116.3	113.2	110.2	108.9	108.3
52.5°	124.1	118.1	112.0	102.2	99.8	96.1	89.4	86.4	83.4	81.0	81.0
55°	105.3	99.8	91.2	82.2	78.5	74.9	68.2	63.9	60.8	59.6	58.4
57.5°	88.2	82.2	74.3	64.5	60.8	57.2	50.5	46.3	43.2	41.4	40.2
60°	74.3	67.5	59.6	51.2	46.9	43.2	36.5	32.2	29.2	27.4	26.1
62.5°	60.8	55.3	47.5	39.6	35.9	32.2	26.8	22.5	19.4	18.3	16.5
65°	51.2	45.7	38.3	31.6	28.6	24.9	20.1	16.5	14.0	12.2	11.0
67.5°	41.4	37.1	31.0	24.9	21.9	19.4	15.3	12.2	9.8	8.5	7.9
70°	32.9	28.6	23.7	18.8	17.1	14.6	11.6	8.5	7.3	6.1	5.5
72.5°	24.3	21.3	17.6	14.0	12.2	11.0	7.9	6.7	4.9	4.3	3.7
75°	17.6	15.3	12.8	9.8	8.5	7.9	6.1	4.3	3.7	3.1	2.4
77.5°	12.2	11.0	8.5	6.7	6.1	5.5	4.3	3.1	2.4	1.8	1.8
80°	7.9	6.7	5.5	4.3	4.3	3.7	2.4	1.8	1.8	1.2	1.2
82.5°	4.9	4.3	3.7	3.1	2.4	2.4	1.8	1.2	1.2	0.6	0.6
85°	3.1	2.4	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	503.2	503.2	504.4	502.6	503.8	503.8	505.0	502.6	503.8	504.4	505.7
5°	500.8	501.4	502.6	502.0	502.6	502.6	503.8	500.8	503.2	503.2	505.0
7.5°	498.3	498.3	499.5	498.9	500.2	500.8	502.0	499.5	502.0	502.0	503.8
10°	495.3	495.3	497.1	496.5	498.3	498.9	500.8	498.3	500.8	501.4	503.2
12.5°	491.1	491.7	493.4	493.4	495.3	496.5	498.3	497.1	500.2	500.8	503.2
15°	486.2	487.4	489.9	489.3	491.1	492.9	495.3	493.4	497.8	498.9	501.4
17.5°	480.1	481.3	483.2	483.2	485.0	486.2	489.3	488.1	491.7	492.3	495.3
20°	471.0	472.8	475.2	474.6	476.5	477.7	480.1	478.9	482.6	483.8	486.8
22.5°	460.1	461.2	463.0	463.0	464.9	466.1	468.5	466.7	470.4	471.0	473.4
25°	445.4	446.7	447.9	448.5	450.3	450.9	452.1	450.9	454.0	454.6	457.5
27.5°	426.5	427.2	429.1	429.1	430.2	430.8	432.6	430.2	434.4	434.4	436.3
30°	404.0	403.4	405.9	404.6	405.9	405.9	407.7	406.5	409.5	408.3	410.1
32.5°	374.2	375.4	375.4	374.2	376.7	376.1	376.1	374.8	376.7	377.3	378.5
35°	339.5	341.4	341.4	342.0	342.6	340.8	341.4	337.7	340.8	341.4	342.0
37.5°	301.8	300.0	301.2	299.4	302.4	298.8	298.8	296.3	298.8	298.8	299.4
40°	258.6	258.0	259.2	258.0	257.5	256.7	255.6	253.8	256.1	254.9	256.7
42.5°	217.9	217.3	217.3	216.1	215.4	215.4	214.2	213.0	212.4	212.4	215.4
45°	175.9	177.1	175.9	175.3	176.5	175.3	175.9	173.4	174.7	173.4	174.7
47.5°	140.6	141.2	140.0	138.7	140.6	138.7	138.7	136.9	139.4	139.4	138.1
50°	108.9	108.3	107.1	108.3	107.7	107.7	107.7	105.9	107.1	105.3	106.5
52.5°	80.4	79.7	79.7	79.1	79.7	79.1	79.1	78.5	78.5	77.9	78.5
55°	58.4	57.8	56.6	56.6	56.6	57.2	56.6	55.9	55.9	55.3	55.9
57.5°	39.6	38.3	38.3	38.3	38.3	37.7	37.7	37.1	37.7	37.1	37.7
60°	25.5	25.5	24.3	24.3	24.3	24.3	24.3	23.7	24.3	24.3	24.3
62.5°	15.8	15.8	15.3	14.6	15.3	14.6	14.6	14.6	15.3	14.6	15.3
65°	10.4	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	7.3	6.7	6.7	6.7	6.7	6.7	6.7	6.1	6.7	6.7	6.7
70°	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	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	0.0	0.0	0.0



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CATALOG NUMBER: LX6C08D010 EX6C089030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	503.8	504.4	503.2	503.8	502.6	503.8	504.4	505.7
5°	502.6	503.2	502.0	503.2	502.0	503.2	503.8	505.0
7.5°	501.4	502.6	501.4	502.6	501.4	502.6	503.2	504.4
10°	501.4	503.2	502.0	503.8	502.0	503.2	504.4	505.0
12.5°	501.4	503.2	502.6	503.8	503.2	504.4	505.7	506.9
15°	500.2	502.0	500.8	502.6	502.0	502.6	505.0	505.0
17.5°	493.4	495.3	495.3	496.5	496.5	498.3	499.5	500.8
20°	485.0	486.8	486.2	488.1	488.1	489.9	491.1	492.3
22.5°	472.2	474.6	474.0	475.8	475.2	476.5	478.9	478.3
25°	455.8	458.9	458.2	459.4	458.9	458.9	460.1	460.6
27.5°	435.7	437.5	436.9	438.1	436.9	438.1	439.3	439.9
30°	409.5	410.7	410.1	410.7	410.1	411.4	412.0	413.2
32.5°	377.9	379.7	377.9	379.1	378.5	378.5	380.9	379.7
35°	340.2	340.8	341.4	341.4	340.2	340.8	342.0	342.0
37.5°	298.1	301.2	297.5	299.4	298.8	298.8	298.8	300.6
40°	254.4	254.9	253.8	253.8	253.8	253.1	255.6	254.9
42.5°	213.0	213.6	213.0	211.2	211.8	211.8	213.6	211.2
45°	172.8	174.0	173.4	173.4	172.2	172.2	172.8	171.6
47.5°	136.9	138.1	136.3	136.9	135.7	136.9	136.3	137.5
50°	104.1	105.3	104.7	105.3	105.3	104.1	105.9	103.4
52.5°	77.9	78.5	77.9	77.3	76.7	76.7	77.9	77.3
55°	55.3	54.7	54.7	54.7	55.3	55.3	54.7	54.1
57.5°	37.1	37.1	36.5	36.5	37.1	35.9	36.5	35.9
60°	23.7	23.7	23.7	23.7	23.1	23.7	23.7	23.7
62.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
65°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	6.1	6.7	6.7	6.7	6.1	6.1	6.1	6.1
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
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)