

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: P856834

Luminaire Tested: **LX4C10D010 EX4C109835 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P856834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109835 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

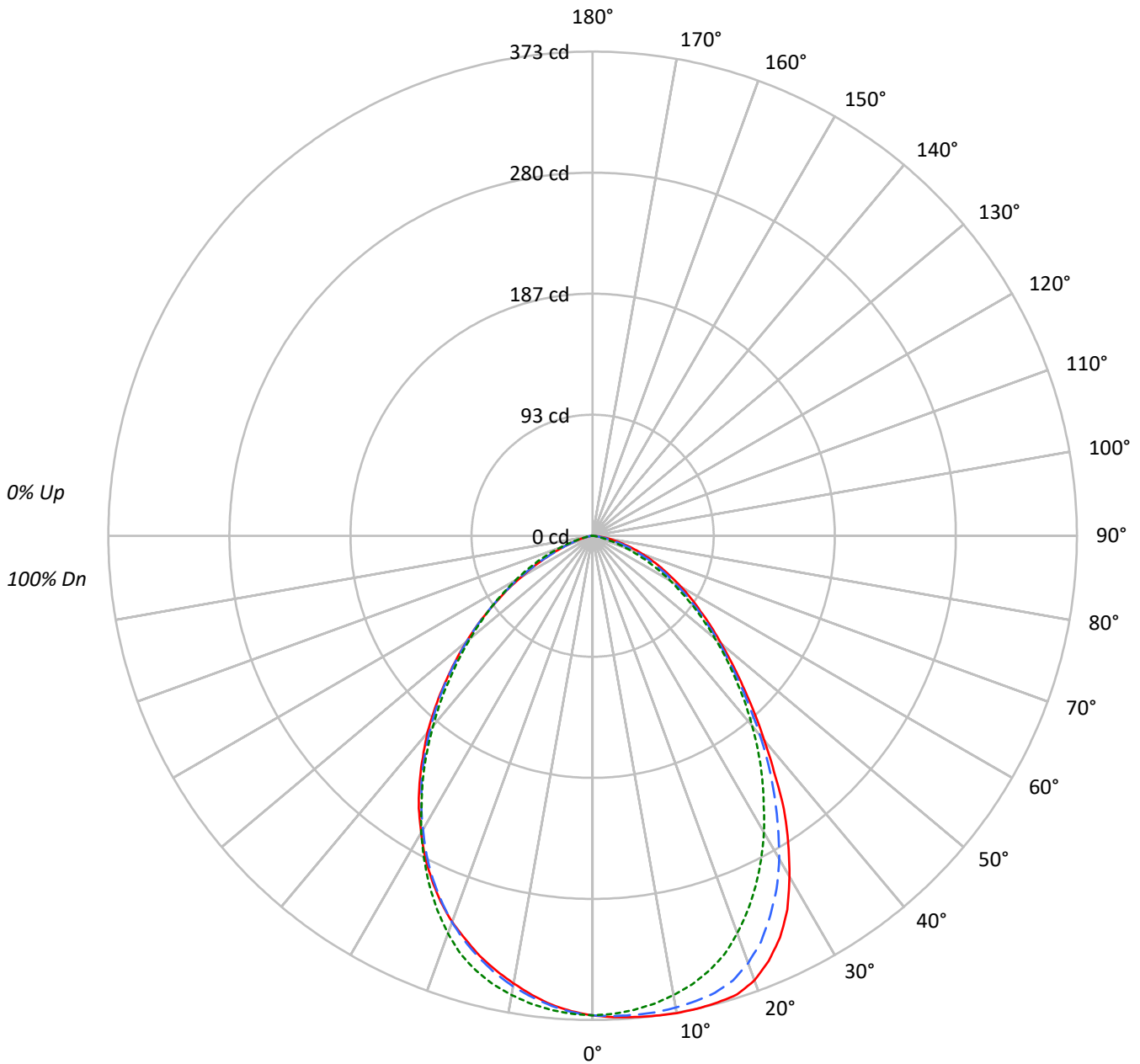
Lumens per Lamp: N/A
Luminaire Lumens: 696.5 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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				
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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			60
5	82	71	63	57	80	69	62	57	67	61	56	66	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	44	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45394	45394	45394
5°	45901	45210	44717
10°	46581	44822	43687
15°	47339	44109	42646
20°	47654	42607	41392
25°	46278	40300	39690
30°	43012	37451	37479
35°	38499	34150	34885
40°	32957	30615	31738
45°	28372	26982	27990
50°	24655	23509	24197
55°	21697	20198	20027
60°	19313	16880	15529
65°	16948	13517	11250
70°	14548	9555	7579
75°	11819	5554	4462
80°	8419	2405	2193
85°	3242	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	5.0
10°-20°	98.6	14.2
20°-30°	140.8	20.2
30°-40°	147.3	21.1
40°-50°	123.4	17.7
50°-60°	86.4	12.4
60°-70°	47.0	6.8
70°-80°	16.3	2.3
80°-90°	1.9	0.3
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°	274.2	39.4
0°-40°	421.5	60.5
0°-60°	631.2	90.6
0°-90°	696.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	372	370	367	364	363	36
15°	372	364	347	337	335	105
25°	341	323	297	292	293	156
35°	257	244	228	229	233	159
45°	163	160	155	160	161	127
55°	101	98	94	94	94	92
65°	58	53	46	39	39	58
75°	25	20	12	9	9	27
85°	2	1	1	1	1	4
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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	371.2	370.9	371.0	371.0	371.0	370.9	371.0	370.9	370.9	370.7	370.4
5°	372.2	371.9	371.9	371.9	371.9	371.7	371.7	371.5	371.2	371.1	370.5
7.5°	372.9	372.7	372.7	372.6	372.4	372.2	372.1	371.7	371.2	371.0	370.3
10°	373.4	372.9	372.9	372.7	372.4	372.2	371.9	371.4	370.9	370.2	369.1
12.5°	373.1	372.7	372.6	372.2	371.7	371.4	371.1	370.4	369.4	368.4	367.1
15°	372.2	371.9	371.7	371.2	370.5	370.2	369.8	368.7	367.4	366.0	364.5
17.5°	370.5	370.2	369.5	369.0	368.0	367.6	366.9	365.4	363.6	361.6	359.2
20°	364.5	364.2	363.6	362.6	361.1	360.4	359.5	357.6	355.2	352.8	350.2
22.5°	354.4	353.9	353.0	352.2	350.8	349.8	348.9	346.4	343.7	341.1	338.7
25°	341.4	341.0	339.8	338.7	337.3	335.6	334.8	332.7	330.0	326.7	323.3
27.5°	324.8	323.3	322.9	321.7	319.5	319.0	317.6	315.1	312.6	309.7	306.8
30°	303.2	303.2	302.3	301.8	299.8	299.2	297.8	295.1	293.7	289.6	287.4
32.5°	280.3	280.0	279.3	278.8	277.8	276.7	275.3	273.9	270.7	268.8	265.6
35°	256.7	254.9	255.3	254.4	253.7	252.5	252.5	250.8	248.0	246.9	244.1
37.5°	229.8	229.1	230.2	228.8	228.1	228.3	227.1	226.1	225.0	223.0	222.4
40°	205.5	206.1	206.0	204.8	205.4	204.7	203.5	202.5	202.0	200.7	200.3
42.5°	183.8	182.9	182.6	182.6	182.8	182.8	182.2	181.5	181.5	180.2	179.0
45°	163.3	163.3	163.0	163.9	162.6	162.6	162.2	162.0	161.5	161.1	159.6
47.5°	145.7	145.5	145.4	145.3	145.1	145.1	144.3	143.6	143.4	142.6	141.7
50°	129.0	129.9	129.7	128.9	128.6	128.8	128.2	127.8	127.6	126.2	126.4
52.5°	115.1	114.9	115.3	114.9	114.1	114.3	113.7	113.2	112.5	111.8	111.3
55°	101.3	102.0	101.7	101.3	101.2	100.9	100.5	99.8	99.6	98.1	97.9
57.5°	89.8	89.7	89.4	88.7	88.5	88.1	88.1	87.6	86.7	85.9	85.2
60°	78.6	78.6	78.2	78.0	77.5	77.3	77.1	76.6	75.6	74.9	73.7
62.5°	67.8	68.0	67.8	67.4	67.0	66.3	66.1	65.6	64.8	64.1	63.1
65°	58.3	58.1	58.0	57.4	57.2	56.7	56.5	55.7	54.8	54.3	53.1
67.5°	49.1	48.8	48.8	48.5	48.2	47.8	47.4	46.6	45.7	45.0	44.0
70°	40.5	40.2	40.2	40.2	39.5	39.1	39.0	38.5	37.1	36.6	35.4
72.5°	32.5	32.4	32.3	31.8	31.4	31.4	30.9	30.0	29.2	28.5	27.7
75°	24.9	25.1	24.9	24.3	24.2	23.9	23.5	22.7	22.0	21.1	20.2
77.5°	18.2	17.9	17.7	17.7	17.3	16.8	16.6	16.1	15.2	14.6	13.6
80°	11.9	11.8	11.5	11.2	11.1	11.0	10.8	10.3	9.4	8.9	8.1
82.5°	6.5	6.4	6.4	6.2	5.8	5.8	5.7	5.1	4.7	4.4	4.0
85°	2.3	2.3	2.3	2.1	2.1	2.1	2.0	1.9	1.7	1.6	1.2
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	370.2	369.8	369.7	369.5	369.4	369.3	369.1	368.8	368.7	368.6	368.3
5°	370.2	369.5	369.3	368.8	368.6	368.3	367.8	367.4	367.0	366.6	366.1
7.5°	369.5	368.7	368.1	367.3	367.0	366.6	365.7	365.2	364.5	363.6	362.6
10°	368.1	367.1	366.0	364.9	364.5	363.7	362.6	361.6	360.4	359.3	358.3
12.5°	365.9	364.3	362.8	361.3	360.4	359.7	358.2	356.8	355.4	354.0	352.3
15°	362.4	360.6	358.7	356.6	355.6	354.7	352.5	350.8	348.5	346.8	345.1
17.5°	356.9	354.0	351.8	349.1	347.7	346.7	344.7	342.0	339.8	338.0	336.0
20°	347.4	344.7	341.5	338.6	337.0	335.7	332.9	330.0	327.9	325.9	323.8
22.5°	334.8	331.5	329.2	325.5	324.2	322.6	319.2	316.7	314.2	312.3	310.3
25°	319.7	316.7	313.5	310.1	308.5	306.8	303.9	301.2	299.6	297.3	294.9
27.5°	302.2	299.8	296.0	292.9	291.4	290.0	287.2	284.8	282.6	281.0	278.8
30°	283.7	280.9	277.4	274.3	273.5	271.8	269.3	267.5	265.1	264.0	263.1
32.5°	263.4	260.1	257.5	255.6	253.9	252.5	251.1	248.2	247.7	245.2	244.9
35°	241.2	239.8	237.4	235.7	234.3	233.3	231.1	229.7	228.1	227.7	226.7
37.5°	220.3	218.6	216.3	214.7	213.8	213.7	212.1	211.3	210.1	209.5	208.4
40°	198.4	197.7	195.7	195.5	193.9	193.8	192.9	191.9	190.9	190.9	191.0
42.5°	178.3	177.4	176.6	175.5	174.7	174.7	174.2	174.0	173.7	173.3	174.0
45°	159.4	158.2	157.7	156.6	157.0	156.2	156.0	156.0	155.5	155.3	156.3
47.5°	141.7	140.4	139.8	139.6	139.6	139.7	138.4	138.8	138.8	139.0	139.5
50°	125.6	124.5	123.7	123.7	123.8	123.2	122.7	123.1	122.7	123.0	124.0
52.5°	110.8	109.6	109.1	109.1	108.3	108.2	108.4	107.9	108.0	108.2	108.7
55°	96.9	96.2	95.5	94.8	95.0	94.7	94.1	94.0	94.3	94.3	95.1
57.5°	84.5	83.6	82.6	82.3	82.0	82.0	81.3	81.1	81.4	80.7	80.7
60°	72.8	72.2	70.9	70.5	70.5	69.8	69.2	69.5	68.8	68.7	68.8
62.5°	61.8	61.4	60.5	59.7	59.4	59.1	58.4	58.1	57.9	57.2	56.4
65°	52.3	51.3	50.3	49.8	49.3	48.6	48.2	47.6	46.7	46.5	45.7
67.5°	42.8	41.8	40.8	40.4	40.0	39.5	38.8	38.1	37.1	35.9	35.0
70°	34.4	33.1	32.5	31.4	31.1	30.6	29.6	28.9	27.8	26.6	25.6
72.5°	26.3	25.4	24.6	23.6	22.9	22.5	21.6	20.5	19.4	18.6	17.7
75°	18.9	18.5	17.3	16.2	16.0	15.3	14.4	13.6	12.8	11.7	10.8
77.5°	12.8	11.9	11.2	10.3	10.0	9.4	8.8	8.1	7.5	6.9	6.2
80°	7.5	6.9	6.4	5.7	5.4	5.1	4.7	4.1	3.7	3.4	3.3
82.5°	3.7	3.1	2.9	2.6	2.4	2.3	2.0	1.9	1.6	1.6	1.6
85°	1.2	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	368.1	368.0	367.8	367.7	367.7	367.6	367.6	367.4	367.4	367.3	367.3
5°	365.6	365.2	364.9	364.5	364.5	364.2	363.8	363.6	363.5	363.5	363.1
7.5°	362.0	361.4	360.9	360.4	360.4	359.6	359.0	359.0	358.5	358.2	357.9
10°	357.3	356.3	355.4	355.1	354.5	354.0	353.3	353.0	352.5	351.8	351.6
12.5°	350.9	350.2	348.9	348.4	348.0	347.2	346.1	345.5	345.4	344.8	344.4
15°	343.7	342.2	341.0	340.3	340.3	338.9	338.3	337.4	336.9	336.5	336.3
17.5°	334.3	332.7	331.6	330.6	330.3	329.2	328.3	328.1	327.4	327.6	326.9
20°	322.2	320.9	320.0	318.8	318.8	318.1	317.8	317.1	316.8	316.6	316.8
22.5°	309.3	307.7	306.3	306.1	306.1	305.2	305.1	304.9	304.4	304.7	304.6
25°	294.1	292.9	292.0	292.0	292.0	291.4	290.8	291.1	291.5	291.4	291.8
27.5°	278.3	277.2	276.9	276.7	276.4	276.4	276.6	276.6	277.1	277.6	278.1
30°	261.3	260.9	260.6	260.4	260.1	260.8	261.1	261.5	261.4	262.3	262.8
32.5°	244.2	243.6	243.4	243.8	244.2	244.1	244.9	245.2	245.5	246.5	246.9
35°	226.9	226.9	226.6	226.6	226.7	227.8	227.8	228.8	229.4	229.7	230.9
37.5°	208.5	209.1	209.4	209.8	209.9	210.4	210.6	211.6	212.2	212.8	213.3
40°	191.6	191.3	192.6	191.7	192.0	193.3	193.9	193.8	194.6	195.5	196.0
42.5°	173.5	174.0	174.2	174.5	175.2	175.4	176.1	177.1	177.4	178.3	178.7
45°	156.1	156.2	156.8	157.3	157.7	158.9	159.2	159.6	160.5	160.5	160.9
47.5°	139.6	140.2	140.2	141.0	141.7	141.6	142.6	142.9	142.7	143.4	143.7
50°	123.8	124.7	124.5	125.1	125.4	125.5	126.4	126.6	126.1	126.8	126.9
52.5°	108.7	109.1	109.8	109.9	109.6	110.3	110.0	110.6	110.4	111.0	110.4
55°	95.0	94.8	94.8	95.1	94.8	95.1	95.4	94.8	94.3	95.0	94.8
57.5°	81.1	81.1	80.9	81.3	80.9	80.4	80.3	79.9	79.5	79.5	79.3
60°	68.2	68.0	67.4	67.2	67.2	66.5	66.3	65.6	65.6	65.1	64.6
62.5°	56.2	55.5	55.0	55.0	54.8	54.0	52.7	51.9	51.6	50.7	50.6
65°	44.8	44.1	43.6	42.8	42.1	41.8	40.5	39.5	39.1	38.3	38.3
67.5°	34.4	33.3	32.0	31.4	30.9	30.0	29.6	28.9	28.4	28.4	28.4
70°	24.7	23.7	22.5	22.0	21.8	20.9	20.5	20.3	20.8	20.6	20.8
72.5°	16.6	15.6	15.1	14.8	14.5	14.1	14.4	14.5	14.2	14.4	14.5
75°	10.1	9.8	9.4	9.3	9.3	9.4	9.3	9.3	9.4	9.4	9.5
77.5°	5.8	5.5	5.5	5.4	5.7	5.5	5.5	5.5	5.7	5.7	5.7
80°	3.1	3.1	3.1	3.1	3.3	3.1	3.3	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
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: LX4C10D010 EX4C109835 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	367.0	367.0	367.0	366.7	366.9	366.9	366.7	366.7
5°	363.0	362.8	362.6	362.6	362.3	362.6	362.4	362.6
7.5°	357.6	357.6	357.2	357.2	357.1	356.9	356.8	356.9
10°	351.3	351.3	350.9	350.8	350.9	350.4	350.4	350.2
12.5°	344.1	343.9	343.5	343.7	343.5	343.1	343.0	343.1
15°	335.8	335.5	335.6	335.1	335.1	335.0	335.3	335.3
17.5°	326.7	326.5	326.2	326.4	326.0	326.2	326.0	325.9
20°	316.7	316.6	316.6	315.9	316.1	315.9	316.1	316.6
22.5°	305.1	304.9	305.1	304.6	304.9	304.9	305.3	305.3
25°	292.2	292.0	292.4	292.5	292.7	293.1	292.7	292.8
27.5°	278.0	278.4	278.8	279.0	279.6	279.1	278.8	279.3
30°	263.7	263.7	263.5	264.0	264.5	264.9	264.2	264.2
32.5°	247.2	247.9	247.9	248.0	248.4	248.4	248.4	249.1
35°	231.4	231.9	231.9	231.4	231.7	231.5	232.6	232.6
37.5°	213.8	213.8	213.9	214.9	214.9	214.5	214.7	214.7
40°	197.0	197.2	196.5	196.9	197.6	197.3	197.6	197.9
42.5°	178.7	179.7	179.1	179.4	179.2	179.4	179.5	179.5
45°	161.1	161.5	161.5	161.6	161.9	162.2	161.3	161.1
47.5°	144.1	144.3	144.7	144.0	144.8	144.0	144.8	143.8
50°	126.9	127.5	127.1	127.3	126.9	126.9	126.8	126.6
52.5°	110.6	110.4	110.4	110.3	110.3	110.6	110.3	110.8
55°	94.3	94.3	94.1	94.0	93.8	94.3	93.8	93.5
57.5°	78.7	79.0	78.5	78.7	77.8	78.2	78.3	78.5
60°	64.4	63.9	63.9	63.4	63.4	63.8	63.2	63.2
62.5°	49.8	50.2	49.8	50.3	50.3	50.9	50.6	50.9
65°	38.3	38.3	38.5	38.5	38.5	39.4	39.1	38.7
67.5°	28.9	29.0	29.2	29.0	29.4	29.2	29.2	29.2
70°	20.9	21.0	21.1	21.1	21.0	21.1	21.1	21.1
72.5°	14.5	14.6	14.5	14.6	14.8	14.6	14.6	14.8
75°	9.5	9.5	9.4	9.4	9.4	9.4	9.5	9.4
77.5°	5.5	5.7	5.5	5.7	5.7	5.7	5.7	5.7
80°	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.1
82.5°	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)