

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: P859762

Luminaire Tested: **LX4C08D010 EX4C089835 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C08D010 EX4C089835 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

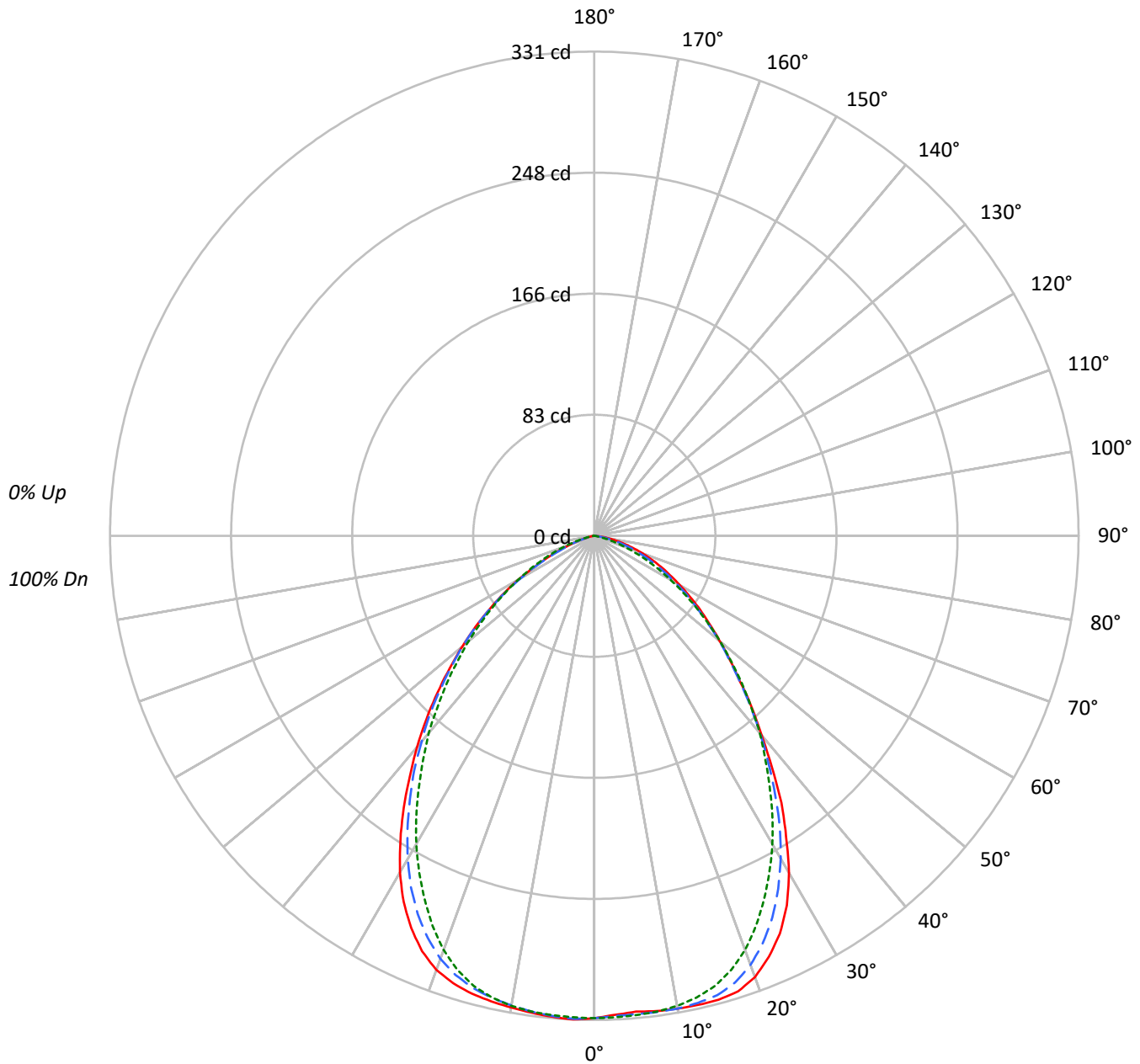
Lumens per Lamp: N/A
Luminaire Lumens: 632.2 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40517	40517	40517
5°	40277	40561	40709
10°	40955	40705	40855
15°	41756	40522	41209
20°	41967	39391	41274
25°	40680	37196	40124
30°	37749	34528	37678
35°	33430	31315	34060
40°	28498	28210	30198
45°	24480	24758	26304
50°	21368	21425	22553
55°	18891	18078	18699
60°	16536	14767	14693
65°	14651	11453	10174
70°	12500	7866	6070
75°	10110	4225	2753
80°	6933	1061	707
85°	2114	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	5.0
10°-20°	90.7	14.4
20°-30°	131.1	20.7
30°-40°	135.5	21.4
40°-50°	112.0	17.7
50°-60°	77.3	12.2
60°-70°	40.5	6.4
70°-80°	12.7	2.0
80°-90°	1.1	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°	253.2	40.0
0°-40°	388.7	61.5
0°-60°	578.0	91.4
0°-90°	632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	327	328	329	330	330	31
15°	328	325	319	320	324	93
25°	300	288	274	285	296	137
35°	223	215	209	220	227	138
45°	141	140	142	149	151	110
55°	88	85	84	87	87	79
65°	50	46	39	33	35	50
75°	21	17	9	6	6	23
85°	2	1	0	0	0	3
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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	327.7	327.8	327.8	328.1	328.1	328.1	328.2	328.2	328.3	328.4	328.5
5°	326.6	326.6	326.9	327.1	327.3	327.4	327.7	327.8	328.1	328.2	328.3
7.5°	327.7	327.7	327.8	327.9	327.9	328.1	328.1	328.2	328.3	328.4	328.4
10°	328.3	328.3	328.3	328.3	328.4	328.4	328.4	328.3	328.3	328.3	328.2
12.5°	328.5	328.5	328.4	328.3	328.4	328.3	328.3	327.9	327.7	327.4	327.1
15°	328.3	328.3	328.2	328.1	327.9	327.7	327.5	326.9	326.5	325.7	325.2
17.5°	326.6	326.5	326.2	325.9	325.5	325.0	324.9	323.7	322.8	321.6	320.2
20°	321.0	320.8	320.4	319.8	319.2	318.6	317.9	316.3	315.4	313.5	312.2
22.5°	311.7	311.5	311.6	310.4	309.3	308.5	308.0	306.6	305.2	302.7	301.3
25°	300.1	299.4	299.4	297.6	297.0	296.5	295.9	294.3	292.0	289.9	287.9
27.5°	284.9	283.9	283.5	283.2	281.7	280.6	279.7	278.5	276.6	274.8	272.1
30°	266.1	266.0	265.4	264.3	263.2	262.6	261.6	259.6	257.8	256.5	254.8
32.5°	244.0	243.8	243.8	243.8	243.1	243.0	241.5	240.3	239.0	236.9	235.8
35°	222.9	222.8	222.9	221.1	220.5	220.2	220.1	219.3	217.5	216.4	215.4
37.5°	199.1	199.5	199.2	198.8	199.4	198.2	199.1	197.5	196.8	196.5	195.4
40°	177.7	178.7	177.7	177.8	178.4	177.4	177.4	177.1	176.6	176.4	176.1
42.5°	159.4	158.1	158.9	158.3	158.9	158.6	157.9	158.3	158.4	157.9	157.7
45°	140.9	141.2	141.4	141.1	141.1	140.7	141.7	141.1	141.1	141.2	140.3
47.5°	125.9	125.6	125.8	125.6	125.7	125.5	125.7	125.8	125.6	125.6	124.8
50°	111.8	111.6	112.4	111.7	111.7	111.6	111.7	111.5	111.1	111.1	111.3
52.5°	99.6	99.1	99.0	99.6	98.7	98.7	98.8	98.5	98.1	97.8	97.2
55°	88.2	88.0	88.2	87.7	87.4	87.4	86.8	86.6	86.4	85.8	85.4
57.5°	77.5	77.1	77.3	77.1	76.7	76.5	76.1	76.1	75.5	75.1	74.5
60°	67.3	67.3	67.8	67.2	66.9	66.6	66.3	66.2	65.3	64.4	63.7
62.5°	58.3	58.4	58.3	58.0	57.7	57.4	57.2	56.4	55.7	55.2	54.4
65°	50.4	50.3	49.9	49.7	49.0	49.0	48.5	48.2	47.3	46.5	45.7
67.5°	42.3	42.0	42.0	42.0	41.2	41.1	40.8	40.1	39.4	38.3	37.6
70°	34.8	35.0	34.7	34.3	34.0	33.8	33.4	32.7	31.8	30.9	30.2
72.5°	27.7	28.0	27.6	27.5	26.8	26.5	26.4	25.8	24.8	24.2	23.2
75°	21.3	21.4	21.1	21.0	20.4	20.3	19.7	19.2	18.5	17.6	16.7
77.5°	15.3	15.1	15.1	14.6	14.1	14.1	14.0	13.3	12.4	11.7	10.9
80°	9.8	9.6	9.3	9.0	8.6	8.6	8.4	7.8	7.2	6.7	6.2
82.5°	5.0	4.8	4.7	4.5	4.4	4.1	4.2	3.7	3.5	2.9	2.6
85°	1.5	1.6	1.6	1.5	1.3	1.3	1.3	1.2	1.0	0.9	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	328.7	328.8	328.9	329.1	329.1	329.1	329.3	329.4	329.5	329.5	329.7
5°	328.4	328.7	328.7	328.8	328.8	328.8	328.9	328.9	328.9	328.9	329.1
7.5°	328.5	328.5	328.5	328.4	328.4	328.3	328.3	328.3	328.1	328.1	328.1
10°	327.9	327.8	327.7	327.4	327.3	327.2	326.9	326.6	326.5	326.3	326.0
12.5°	326.6	326.2	325.7	325.2	325.0	324.9	324.3	324.0	323.6	323.3	323.0
15°	324.2	323.4	322.6	321.6	321.4	321.1	320.2	319.5	319.0	318.6	318.0
17.5°	319.2	317.7	316.7	315.3	314.7	314.4	313.1	312.3	311.5	311.2	310.7
20°	310.4	309.1	307.2	305.9	305.2	304.4	303.3	302.3	301.3	301.3	300.7
22.5°	299.4	297.7	295.3	293.7	293.5	292.0	291.0	289.9	289.5	288.7	288.7
25°	285.5	284.1	281.5	280.0	279.3	278.8	277.2	275.8	275.0	274.4	274.9
27.5°	270.2	268.0	266.0	264.1	263.5	262.8	261.3	260.7	259.3	259.2	259.1
30°	252.6	250.4	248.4	247.5	246.3	245.7	244.6	243.8	243.4	243.4	243.1
32.5°	234.2	232.2	231.2	229.4	228.7	227.8	227.1	226.4	226.6	226.4	226.5
35°	214.2	213.8	211.9	210.8	210.8	210.6	209.4	208.9	208.7	208.8	209.4
37.5°	195.3	193.8	192.5	191.8	192.4	191.7	191.5	191.5	192.3	191.8	192.8
40°	175.1	175.0	174.5	174.7	174.9	174.0	174.2	174.3	174.9	175.9	175.9
42.5°	157.5	157.4	157.4	157.4	157.1	156.7	157.1	158.0	157.9	158.6	159.3
45°	140.5	140.3	140.8	140.4	141.2	141.4	141.1	141.3	142.1	142.5	143.6
47.5°	125.1	125.1	125.2	125.5	124.7	125.3	125.6	126.1	126.4	126.7	127.2
50°	110.8	110.8	110.5	110.5	110.5	110.8	110.3	110.9	111.1	112.1	112.7
52.5°	97.5	96.8	97.2	96.9	96.5	96.2	96.5	96.6	97.4	97.6	98.4
55°	84.8	84.8	83.8	83.6	84.0	83.8	83.7	83.7	84.1	84.4	85.1
57.5°	73.7	72.9	72.2	72.1	71.7	71.8	71.8	71.7	71.4	71.6	71.7
60°	63.1	62.7	61.5	61.5	61.4	61.3	60.6	60.5	59.9	60.1	59.6
62.5°	53.5	53.2	51.7	51.3	51.3	50.9	50.3	50.1	49.3	49.3	48.8
65°	44.9	44.1	43.2	42.4	42.4	41.8	41.5	40.4	39.8	39.4	38.6
67.5°	36.9	35.8	35.0	34.2	33.7	33.5	32.7	31.9	30.9	30.3	29.2
70°	29.2	28.4	27.5	26.8	26.2	25.8	24.9	23.8	23.0	21.9	21.1
72.5°	22.0	21.3	20.6	19.5	18.9	18.5	17.7	16.7	15.5	14.7	13.7
75°	15.9	15.0	14.0	13.1	12.8	12.4	11.4	10.6	9.8	8.9	7.9
77.5°	10.3	9.3	8.6	7.6	7.4	7.2	6.2	5.4	4.8	4.4	3.7
80°	5.4	5.0	4.4	3.7	3.5	3.1	2.6	2.2	1.9	1.5	1.2
82.5°	2.3	2.0	1.6	1.3	1.2	1.1	0.9	0.7	0.6	0.6	0.5
85°	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	329.8	329.9	330.0	330.0	330.1	330.3	330.3	330.4	330.5	330.7	330.7
5°	329.1	329.1	329.1	329.3	329.3	329.3	329.3	329.5	329.5	329.7	329.8
7.5°	327.9	327.9	327.9	327.9	327.8	327.9	327.8	327.8	328.1	328.2	328.3
10°	325.9	325.8	325.8	325.7	325.7	325.7	325.8	325.9	326.0	326.2	326.6
12.5°	322.8	322.7	322.7	322.6	322.6	322.7	322.8	323.1	323.6	323.8	324.3
15°	317.9	317.7	317.9	318.0	318.3	318.6	319.0	319.3	320.1	320.8	321.4
17.5°	310.7	310.9	311.0	311.2	311.6	312.1	313.1	314.1	314.9	315.9	316.9
20°	300.8	301.3	301.4	302.3	302.6	303.6	304.8	306.2	307.7	308.8	310.2
22.5°	288.9	289.3	289.8	290.8	291.4	292.8	294.3	296.0	297.5	299.1	301.1
25°	275.4	275.5	277.1	277.1	278.5	279.7	281.3	283.2	285.4	287.6	288.9
27.5°	260.0	260.7	261.8	262.3	263.4	265.4	266.7	268.9	271.2	273.1	274.6
30°	244.0	244.4	246.3	246.6	247.5	249.2	251.0	253.2	254.9	257.0	258.3
32.5°	227.0	228.4	229.4	230.3	230.6	233.2	234.2	235.7	237.6	239.8	241.1
35°	210.5	211.2	212.8	213.2	214.0	215.4	217.5	218.7	219.7	221.1	222.7
37.5°	193.1	194.9	195.3	196.8	197.0	198.4	199.4	200.8	202.1	203.3	203.6
40°	176.8	177.5	178.8	179.2	179.4	181.3	182.5	182.9	183.5	184.7	186.1
42.5°	160.3	161.0	162.5	162.1	163.2	164.1	164.7	166.2	166.8	167.2	167.2
45°	144.1	144.4	145.4	145.9	146.5	147.0	148.1	148.8	149.1	150.3	150.6
47.5°	128.7	128.9	129.7	130.6	130.3	130.9	132.2	132.5	132.6	133.4	133.8
50°	113.4	114.1	115.0	114.8	115.6	115.9	117.0	117.3	117.3	117.4	117.5
52.5°	99.2	99.7	100.0	100.1	100.6	101.2	101.7	101.4	101.9	102.4	102.0
55°	85.1	85.4	86.1	86.3	86.3	86.4	86.2	87.3	86.8	86.7	86.8
57.5°	72.2	71.7	71.6	72.2	72.4	72.3	72.0	72.4	72.4	72.2	71.8
60°	59.7	59.3	59.2	59.3	58.9	58.4	58.7	58.4	57.9	57.6	57.7
62.5°	48.3	47.9	46.9	46.9	46.7	46.5	45.6	45.7	45.2	44.5	44.7
65°	37.8	36.7	36.3	36.2	35.3	34.5	34.3	33.4	32.7	32.5	32.7
67.5°	28.4	27.3	26.4	26.0	25.5	24.9	24.0	23.3	23.5	23.4	23.9
70°	19.7	18.9	18.1	17.5	17.7	16.9	16.5	16.5	16.6	16.7	16.9
72.5°	13.1	12.1	11.8	11.4	11.1	10.6	10.9	10.9	10.8	10.9	10.6
75°	7.4	7.0	6.6	6.4	6.2	6.2	6.2	6.2	6.1	6.0	6.0
77.5°	3.3	3.1	2.9	2.9	2.9	2.9	2.8	2.6	2.6	2.6	2.5
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.6
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	330.7	330.9	330.9	330.9	331.0	331.0	331.0	331.0
5°	329.9	330.0	330.0	330.0	330.1	330.1	330.1	330.1
7.5°	328.4	328.5	328.5	328.7	328.7	328.8	328.8	328.9
10°	326.6	326.9	327.1	327.2	327.3	327.4	327.4	327.5
12.5°	324.9	325.0	325.2	325.5	325.7	325.8	325.9	326.0
15°	322.1	322.6	322.8	323.0	323.4	323.7	323.8	324.0
17.5°	317.7	318.8	319.2	319.3	319.9	320.4	320.8	320.8
20°	311.6	312.6	313.2	313.8	314.5	315.1	315.4	315.7
22.5°	302.9	304.2	304.9	305.6	306.2	306.8	307.8	307.5
25°	290.5	292.7	293.5	293.8	295.3	296.0	296.5	296.0
27.5°	276.6	277.9	278.7	279.5	280.5	281.3	281.5	282.2
30°	259.9	262.1	261.9	262.8	264.0	264.8	265.0	265.6
32.5°	242.6	243.6	244.3	244.2	244.7	246.0	245.6	246.7
35°	224.2	224.3	225.5	225.3	226.4	226.4	226.4	227.1
37.5°	204.5	205.9	205.3	206.8	206.3	206.7	206.7	207.0
40°	186.5	187.0	187.0	187.5	187.9	187.5	187.7	188.3
42.5°	167.9	168.5	168.5	168.3	168.6	169.8	168.9	169.7
45°	150.6	151.0	151.4	151.1	151.7	151.3	151.7	151.4
47.5°	134.2	134.1	134.0	135.0	134.1	134.2	134.7	133.9
50°	117.5	118.2	117.8	118.2	118.4	118.4	118.0	118.0
52.5°	102.6	102.6	102.2	102.6	102.3	102.4	102.6	102.4
55°	87.3	87.8	87.6	87.4	87.6	87.6	88.3	87.3
57.5°	72.2	72.0	72.3	73.2	72.3	72.9	73.3	73.5
60°	57.9	57.9	58.6	58.2	58.9	59.6	60.1	59.8
62.5°	44.1	44.7	44.9	45.0	45.8	46.3	46.3	46.2
65°	32.7	33.5	33.5	34.1	34.3	34.3	34.5	35.0
67.5°	24.2	24.2	24.3	24.5	24.4	24.4	24.6	24.8
70°	16.9	16.6	16.9	16.9	16.9	16.7	16.9	16.9
72.5°	10.6	10.6	10.8	10.6	10.4	10.5	10.5	10.8
75°	5.7	6.0	5.7	5.7	5.8	5.5	5.7	5.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
82.5°	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
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)