

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: P859749

Luminaire Tested: **LX4C08D010 EX4C089830 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859749
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 EX4C089830 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

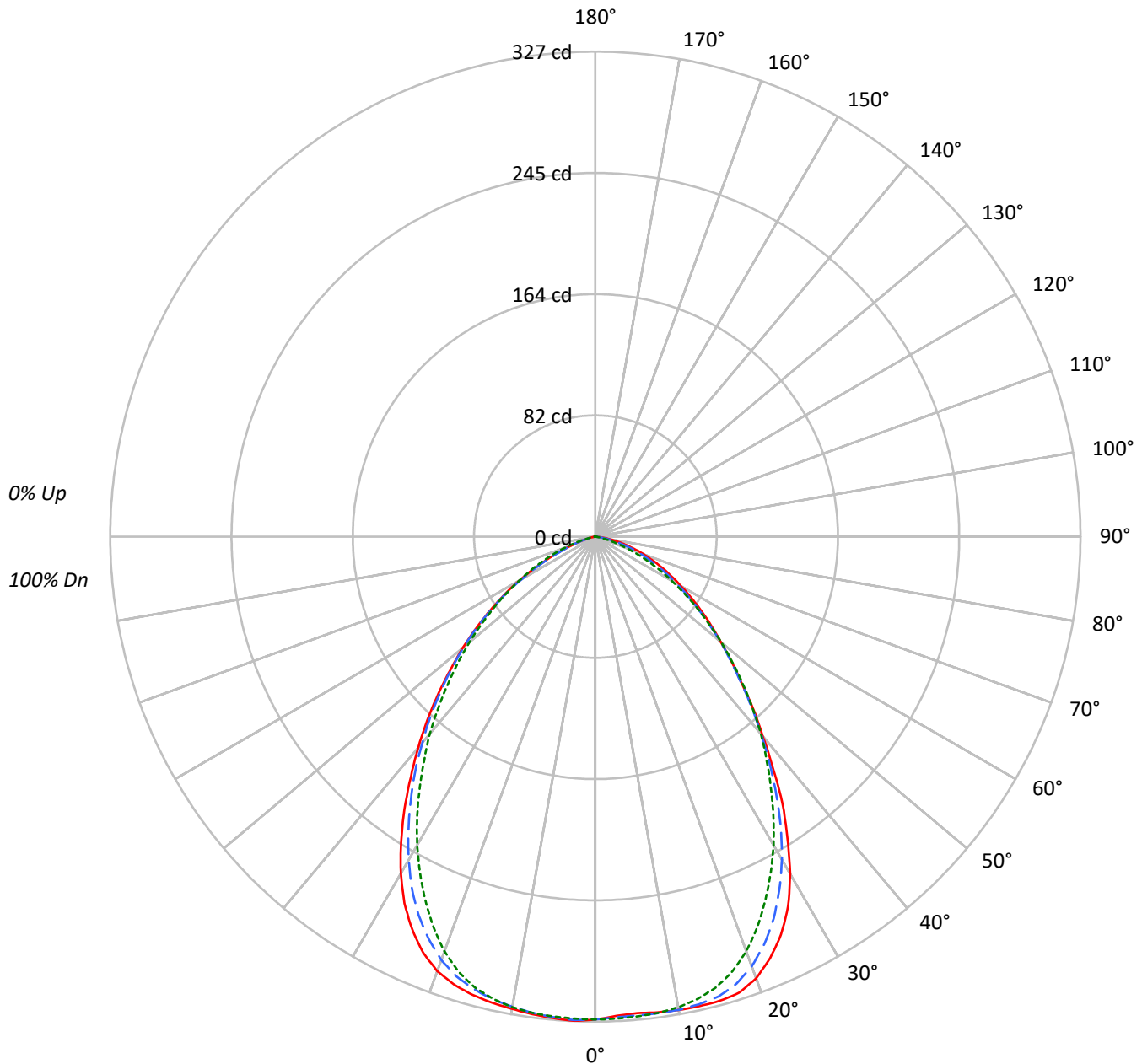
Lumens per Lamp: N/A
Luminaire Lumens: 624.2 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	40001	40001	40001
5°	39772	40055	40191
10°	40431	40194	40344
15°	41221	40013	40687
20°	41431	38895	40751
25°	40151	36722	39609
30°	37266	34075	37210
35°	33010	30925	33640
40°	28146	27841	29813
45°	24167	24445	25974
50°	21100	21158	22285
55°	18634	17863	18463
60°	16340	14570	14497
65°	14477	11308	10058
70°	12321	7795	5963
75°	9968	4177	2706
80°	6792	990	707
85°	1973	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	5.0
10°-20°	89.6	14.4
20°-30°	129.4	20.7
30°-40°	133.8	21.4
40°-50°	110.6	17.7
50°-60°	76.3	12.2
60°-70°	40.0	6.4
70°-80°	12.6	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°	250.0	40.0
0°-40°	383.8	61.5
0°-60°	570.6	91.4
0°-90°	624.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	326	326	326	326	326	
5°	322	324	325	325	326	31
15°	324	321	315	316	320	91
25°	296	284	271	282	292	135
35°	220	213	206	217	224	137
45°	139	138	141	147	150	108
55°	87	84	83	86	86	78
65°	50	45	39	32	35	49
75°	21	16	9	6	6	23
85°	1	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°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	323.5	323.6	323.6	323.9	323.9	323.9	324.0	324.0	324.1	324.2	324.3
5°	322.5	322.5	322.8	322.9	323.2	323.3	323.5	323.6	323.9	324.0	324.1
7.5°	323.5	323.5	323.6	323.8	323.8	323.9	323.9	324.0	324.1	324.2	324.2
10°	324.1	324.1	324.1	324.1	324.2	324.2	324.2	324.1	324.1	324.1	324.0
12.5°	324.3	324.3	324.2	324.1	324.2	324.1	324.1	323.8	323.5	323.3	322.9
15°	324.1	324.1	324.0	323.9	323.8	323.5	323.4	322.8	322.3	321.6	321.0
17.5°	322.5	322.3	322.0	321.8	321.3	320.9	320.7	319.6	318.7	317.5	316.2
20°	316.9	316.7	316.3	315.7	315.1	314.6	313.9	312.3	311.4	309.6	308.2
22.5°	307.7	307.5	307.7	306.5	305.3	304.5	304.1	302.7	301.2	298.9	297.5
25°	296.2	295.5	295.5	293.8	293.2	292.7	292.1	290.5	288.3	286.2	284.3
27.5°	281.3	280.4	279.8	279.7	278.1	277.1	276.2	275.0	273.1	271.3	268.6
30°	262.7	262.6	262.0	260.9	259.9	259.3	258.3	256.3	254.6	253.3	251.5
32.5°	240.9	240.8	240.8	240.8	240.0	239.9	238.5	237.3	236.0	233.9	232.8
35°	220.1	220.0	220.1	218.2	217.8	217.4	217.2	216.5	214.7	213.8	212.8
37.5°	196.6	197.0	196.7	196.3	196.8	195.7	196.6	195.0	194.3	194.0	193.0
40°	175.5	176.4	175.5	175.6	176.2	175.0	175.0	174.9	174.3	174.1	173.9
42.5°	157.4	156.1	156.9	156.2	156.9	156.5	155.9	156.2	156.4	155.9	155.8
45°	139.1	139.4	139.6	139.3	139.3	138.9	139.9	139.3	139.3	139.4	138.5
47.5°	124.3	124.0	124.2	124.0	124.1	123.9	124.1	124.2	124.0	124.0	123.2
50°	110.4	110.1	111.0	110.3	110.3	110.1	110.3	110.0	109.7	109.7	110.0
52.5°	98.3	97.8	97.6	98.3	97.5	97.5	97.6	97.3	96.8	96.6	96.0
55°	87.0	86.9	87.0	86.6	86.3	86.3	85.7	85.4	85.3	84.7	84.4
57.5°	76.5	76.2	76.3	76.2	75.7	75.5	75.1	75.1	74.5	74.1	73.5
60°	66.5	66.5	66.9	66.3	66.0	65.8	65.5	65.3	64.5	63.6	62.9
62.5°	57.6	57.7	57.6	57.2	57.0	56.7	56.4	55.7	55.0	54.6	53.7
65°	49.8	49.7	49.3	49.0	48.4	48.4	47.9	47.5	46.7	46.0	45.1
67.5°	41.7	41.5	41.5	41.5	40.8	40.6	40.3	39.6	38.9	37.9	37.2
70°	34.3	34.6	34.2	33.9	33.5	33.4	33.0	32.3	31.4	30.4	29.9
72.5°	27.4	27.6	27.3	27.1	26.4	26.1	26.0	25.4	24.4	23.8	22.8
75°	21.0	21.1	20.9	20.7	20.2	20.1	19.4	19.0	18.4	17.4	16.5
77.5°	15.2	14.9	14.9	14.4	13.9	13.9	13.8	13.1	12.2	11.5	10.8
80°	9.6	9.5	9.2	8.9	8.6	8.5	8.3	7.7	7.1	6.6	6.2
82.5°	4.9	4.7	4.6	4.5	4.3	4.0	4.2	3.7	3.4	2.9	2.6
85°	1.4	1.6	1.6	1.4	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°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	324.5	324.6	324.8	324.9	324.9	325.0	325.1	325.2	325.3	325.3	325.5
5°	324.2	324.5	324.5	324.6	324.6	324.6	324.8	324.8	324.8	324.8	324.9
7.5°	324.3	324.3	324.3	324.2	324.2	324.1	324.1	324.1	323.9	323.9	323.9
10°	323.8	323.6	323.5	323.3	323.2	323.0	322.8	322.5	322.3	322.2	321.9
12.5°	322.5	322.0	321.6	321.0	320.8	320.7	320.2	319.9	319.5	319.2	318.9
15°	320.0	319.3	318.5	317.5	317.3	317.0	316.2	315.4	315.0	314.6	314.0
17.5°	315.2	313.7	312.7	311.3	310.7	310.4	309.1	308.4	307.5	307.3	306.8
20°	306.5	305.2	303.4	302.0	301.2	300.5	299.4	298.5	297.5	297.5	296.9
22.5°	295.6	293.9	291.6	289.9	289.7	288.3	287.3	286.2	285.9	285.1	285.1
25°	282.0	280.5	277.9	276.4	275.7	275.4	273.8	272.2	271.5	270.9	271.4
27.5°	266.8	264.6	262.6	260.8	260.2	259.4	258.0	257.4	256.0	255.9	255.8
30°	249.4	247.2	245.2	244.4	243.2	242.6	241.5	240.8	240.2	240.2	240.0
32.5°	231.2	229.3	228.3	226.4	225.8	225.0	224.3	223.5	223.7	223.5	223.6
35°	211.5	211.0	209.2	208.1	208.1	208.0	206.7	206.3	206.0	206.2	206.7
37.5°	192.8	191.4	190.1	189.4	190.0	189.2	189.1	189.1	189.9	189.4	190.4
40°	172.9	172.7	172.3	172.6	172.6	171.7	172.0	172.1	172.6	173.6	173.7
42.5°	155.5	155.4	155.4	155.4	155.2	154.6	155.2	156.0	155.9	156.6	157.2
45°	138.8	138.5	139.0	138.7	139.4	139.6	139.3	139.5	140.3	140.7	141.7
47.5°	123.5	123.5	123.6	123.9	123.1	123.8	124.0	124.5	124.8	125.1	125.6
50°	109.3	109.3	109.1	109.1	109.1	109.4	109.0	109.5	109.7	110.7	111.3
52.5°	96.2	95.6	96.0	95.8	95.2	95.0	95.2	95.3	96.1	96.3	97.1
55°	83.7	83.7	82.8	82.5	82.9	82.8	82.7	82.7	83.0	83.4	84.0
57.5°	72.8	72.1	71.3	71.2	70.8	70.9	70.9	70.8	70.5	70.6	70.8
60°	62.3	61.9	60.7	60.7	60.6	60.5	59.9	59.7	59.2	59.3	58.8
62.5°	52.8	52.6	51.1	50.7	50.7	50.3	49.7	49.5	48.7	48.7	48.2
65°	44.2	43.5	42.7	41.8	41.8	41.3	40.9	39.9	39.2	38.9	38.2
67.5°	36.5	35.3	34.5	33.7	33.3	33.2	32.3	31.6	30.6	30.0	28.9
70°	28.9	28.0	27.1	26.4	25.9	25.4	24.6	23.5	22.7	21.7	20.9
72.5°	21.8	21.0	20.3	19.4	18.7	18.4	17.5	16.5	15.2	14.5	13.6
75°	15.6	14.8	13.8	12.9	12.6	12.2	11.2	10.5	9.6	8.8	7.8
77.5°	10.2	9.2	8.5	7.5	7.3	7.1	6.2	5.4	4.7	4.3	3.7
80°	5.4	4.9	4.3	3.7	3.4	3.0	2.6	2.2	1.9	1.4	1.2
82.5°	2.3	2.0	1.6	1.3	1.2	1.1	0.9	0.7	0.6	0.6	0.4
85°	0.6	0.4	0.4	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°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	325.6	325.8	325.8	325.8	325.9	326.1	326.1	326.2	326.3	326.5	326.5
5°	325.0	325.0	325.0	325.1	325.1	325.1	325.1	325.3	325.3	325.5	325.6
7.5°	323.8	323.8	323.8	323.8	323.6	323.8	323.6	323.6	323.9	324.0	324.1
10°	321.8	321.7	321.7	321.6	321.6	321.6	321.7	321.8	321.9	322.0	322.5
12.5°	318.7	318.6	318.6	318.5	318.5	318.6	318.7	319.0	319.5	319.7	320.2
15°	313.9	313.7	313.9	314.0	314.2	314.6	315.0	315.3	316.0	316.7	317.3
17.5°	306.8	306.8	307.0	307.3	307.7	308.1	309.1	310.1	311.0	311.9	312.9
20°	297.0	297.5	297.6	298.5	298.7	299.8	300.9	302.4	303.7	304.9	306.3
22.5°	285.3	285.6	286.1	287.1	287.7	289.2	290.5	292.2	293.7	295.3	297.2
25°	271.9	272.1	273.5	273.5	275.0	276.2	277.8	279.7	281.8	283.9	285.3
27.5°	256.7	257.4	258.4	259.0	260.0	262.0	263.3	265.6	267.8	269.6	271.1
30°	240.9	241.4	243.2	243.4	244.2	246.0	247.8	249.9	251.6	253.7	255.0
32.5°	224.1	225.4	226.6	227.4	227.7	230.2	231.2	232.7	234.6	236.7	238.0
35°	207.9	208.5	210.1	210.5	211.3	212.8	214.7	215.9	216.9	218.2	219.8
37.5°	190.7	192.4	192.8	194.3	194.5	195.8	196.8	198.3	199.6	200.7	201.0
40°	174.6	175.2	176.6	176.9	177.2	179.0	180.2	180.6	181.2	182.3	183.8
42.5°	158.4	158.9	160.4	160.1	161.1	162.0	162.7	164.1	164.7	165.1	165.1
45°	142.3	142.6	143.6	144.0	144.6	145.1	146.2	147.0	147.2	148.3	148.7
47.5°	127.1	127.3	128.1	128.9	128.6	129.2	130.5	130.8	130.9	131.7	132.1
50°	112.0	112.6	113.6	113.3	114.1	114.4	115.6	115.7	115.7	115.9	116.0
52.5°	97.9	98.4	98.6	98.9	99.3	99.9	100.4	100.1	100.6	101.1	100.8
55°	84.0	84.4	85.0	85.3	85.3	85.3	85.1	86.2	85.7	85.6	85.7
57.5°	71.3	70.8	70.6	71.3	71.5	71.4	71.1	71.5	71.5	71.3	70.9
60°	58.9	58.6	58.4	58.6	58.1	57.7	58.0	57.7	57.1	56.9	57.0
62.5°	47.7	47.4	46.4	46.4	46.1	46.0	45.0	45.1	44.6	43.9	44.1
65°	37.3	36.3	35.8	35.7	34.9	34.2	33.9	33.0	32.3	32.2	32.3
67.5°	28.0	26.9	26.0	25.7	25.1	24.6	23.7	23.0	23.3	23.1	23.6
70°	19.4	18.7	17.8	17.2	17.5	16.8	16.2	16.2	16.4	16.5	16.8
72.5°	12.9	11.9	11.6	11.2	11.0	10.5	10.8	10.8	10.6	10.8	10.5
75°	7.3	6.9	6.5	6.3	6.2	6.2	6.2	6.2	6.0	5.9	5.9
77.5°	3.3	3.0	2.9	2.9	2.9	2.9	2.7	2.6	2.6	2.6	2.4
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°	0.4	0.4	0.6	0.6	0.6	0.4	0.6	0.6	0.4	0.4	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°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	326.6	326.7	326.7	326.7	326.8	326.8	326.8	326.8
5°	325.8	325.8	325.8	325.8	325.9	325.9	325.9	325.9
7.5°	324.2	324.3	324.3	324.5	324.5	324.6	324.6	324.8
10°	322.5	322.8	322.9	323.0	323.2	323.3	323.3	323.4
12.5°	320.7	320.9	321.0	321.3	321.6	321.7	321.8	321.9
15°	318.0	318.5	318.7	318.9	319.3	319.6	319.7	319.9
17.5°	313.7	314.7	315.1	315.3	315.9	316.3	316.7	316.7
20°	307.7	308.7	309.2	309.8	310.6	311.1	311.4	311.7
22.5°	299.1	300.2	301.1	301.8	302.4	303.0	304.0	303.5
25°	286.9	288.9	289.7	290.2	291.5	292.2	292.7	292.2
27.5°	273.1	274.4	275.1	276.0	276.9	277.7	277.9	278.7
30°	256.6	258.7	258.6	259.4	260.7	261.4	261.6	262.3
32.5°	239.5	240.5	241.2	241.1	241.6	242.9	242.5	243.5
35°	221.3	221.4	222.7	222.5	223.5	223.5	223.5	224.3
37.5°	201.9	203.3	202.7	204.2	203.7	204.0	204.0	204.3
40°	184.1	184.6	184.6	185.1	185.5	185.1	185.4	185.9
42.5°	165.8	166.3	166.4	166.1	166.5	167.6	166.8	167.5
45°	148.7	149.0	149.5	149.2	149.8	149.4	149.8	149.5
47.5°	132.5	132.4	132.3	133.2	132.4	132.5	133.0	132.2
50°	116.0	116.7	116.3	116.6	116.9	116.9	116.6	116.6
52.5°	101.4	101.2	100.9	101.2	101.0	101.1	101.4	101.1
55°	86.2	86.7	86.4	86.3	86.4	86.4	87.2	86.2
57.5°	71.3	71.1	71.4	72.2	71.4	72.1	72.4	72.5
60°	57.1	57.1	57.9	57.4	58.2	58.8	59.3	59.0
62.5°	43.5	44.1	44.4	44.5	45.2	45.7	45.7	45.6
65°	32.3	33.2	33.2	33.6	33.9	33.9	34.2	34.6
67.5°	23.8	23.8	24.0	24.2	24.1	24.1	24.3	24.4
70°	16.6	16.4	16.8	16.6	16.6	16.5	16.6	16.6
72.5°	10.5	10.5	10.6	10.5	10.3	10.4	10.4	10.6
75°	5.6	5.9	5.6	5.6	5.7	5.5	5.6	5.7
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°	0.4	0.6	0.4	0.6	0.4	0.4	0.4	0.4
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)