

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: P859775

Luminaire Tested: **LX4C08D010 EX4C089840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859775
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 EX4C089840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

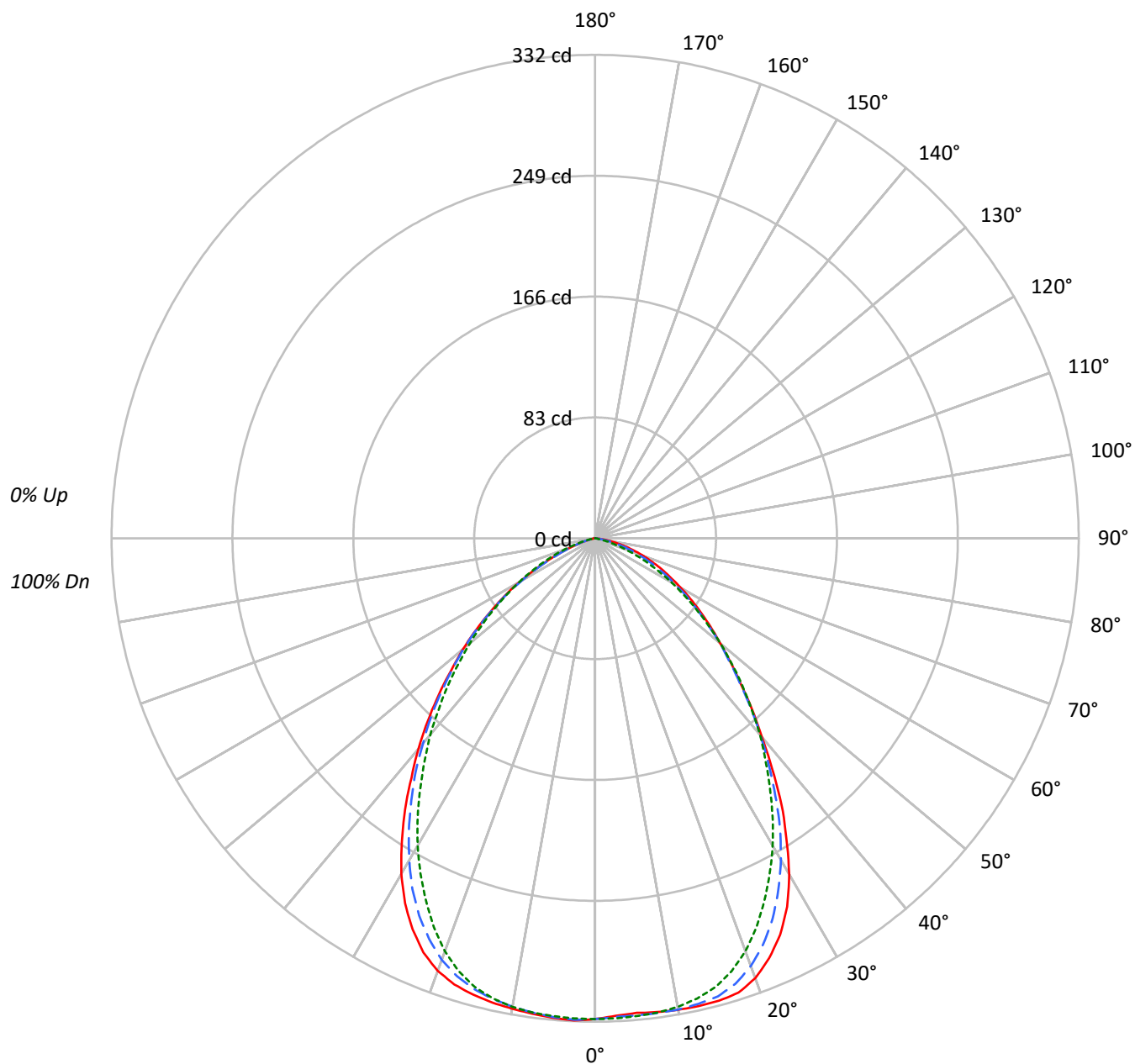
Lumens per Lamp: N/A
Luminaire Lumens: 633.1 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	40566	40566	40566
5°	40351	40623	40783
10°	41017	40755	40918
15°	41819	40585	41260
20°	42032	39444	41326
25°	40734	37250	40178
30°	37805	34571	37734
35°	33475	31360	34105
40°	28547	28242	30247
45°	24532	24810	26357
50°	21406	21463	22591
55°	18913	18099	18720
60°	16585	14767	14718
65°	14680	11453	10203
70°	12536	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°	31.4	5.0
10°-20°	90.9	14.4
20°-30°	131.3	20.7
30°-40°	135.7	21.4
40°-50°	112.1	17.7
50°-60°	77.4	12.2
60°-70°	40.5	6.4
70°-80°	12.8	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°	253.5	40.0
0°-40°	389.2	61.5
0°-60°	578.8	91.4
0°-90°	633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	327	329	329	330	331	31
15°	329	326	319	321	324	93
25°	300	288	275	286	296	137
35°	223	216	209	220	227	139
45°	141	140	143	149	152	110
55°	88	86	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°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	328.2	328.3	328.3	328.5	328.5	328.5	328.6	328.6	328.8	328.9	329.0
5°	327.2	327.2	327.4	327.5	327.8	327.9	328.2	328.3	328.5	328.6	328.8
7.5°	328.2	328.2	328.3	328.3	328.3	328.5	328.5	328.6	328.8	328.9	328.9
10°	328.8	328.8	328.8	328.8	328.9	328.9	328.9	328.8	328.8	328.8	328.6
12.5°	329.0	329.0	328.9	328.8	328.9	328.8	328.8	328.3	328.2	327.9	327.5
15°	328.8	328.8	328.6	328.5	328.3	328.2	328.0	327.4	326.9	326.1	325.7
17.5°	327.2	326.9	326.6	326.4	325.9	325.6	325.3	324.1	323.3	322.1	320.7
20°	321.5	321.2	320.8	320.2	319.6	319.1	318.4	316.7	315.9	314.0	312.6
22.5°	312.1	311.9	312.0	310.9	309.6	308.9	308.5	307.0	305.6	303.2	301.7
25°	300.5	299.7	299.7	298.0	297.4	296.9	296.2	294.6	292.4	290.4	288.3
27.5°	285.4	284.4	283.8	283.6	282.1	281.0	280.2	278.9	277.1	275.2	272.4
30°	266.5	266.4	265.7	264.7	263.5	263.1	262.0	259.9	258.2	256.8	255.1
32.5°	244.3	244.2	244.2	244.2	243.4	243.3	241.8	240.7	239.3	237.2	236.1
35°	223.2	223.1	223.2	221.3	220.9	220.5	220.3	219.6	217.8	216.8	215.8
37.5°	199.4	199.8	199.6	199.0	199.7	198.5	199.4	197.8	197.1	196.8	195.6
40°	178.0	179.0	178.0	178.1	178.7	177.5	177.5	177.4	176.8	176.6	176.4
42.5°	159.6	158.4	159.1	158.5	159.1	158.7	158.1	158.5	158.6	158.1	158.0
45°	141.2	141.3	141.6	141.3	141.3	140.9	141.9	141.3	141.3	141.3	140.5
47.5°	126.1	125.7	126.0	125.7	125.9	125.6	125.9	126.0	125.7	125.7	125.0
50°	112.0	111.7	112.6	111.8	111.8	111.7	111.8	111.6	111.2	111.2	111.5
52.5°	99.7	99.3	99.1	99.7	98.8	98.8	99.0	98.7	98.2	98.0	97.4
55°	88.3	88.2	88.3	87.8	87.6	87.6	86.9	86.7	86.6	86.0	85.6
57.5°	77.7	77.2	77.4	77.2	76.8	76.6	76.2	76.2	75.6	75.2	74.5
60°	67.5	67.5	67.9	67.3	67.0	66.7	66.4	66.3	65.4	64.5	63.8
62.5°	58.4	58.5	58.4	58.1	57.8	57.5	57.2	56.5	55.8	55.3	54.5
65°	50.5	50.4	49.9	49.8	49.1	49.1	48.6	48.2	47.4	46.6	45.7
67.5°	42.3	42.0	42.0	42.0	41.3	41.2	40.9	40.2	39.4	38.4	37.7
70°	34.9	35.1	34.7	34.3	34.0	33.9	33.4	32.7	31.8	30.9	30.2
72.5°	27.8	28.0	27.6	27.6	26.8	26.6	26.4	25.8	24.8	24.2	23.2
75°	21.3	21.5	21.2	21.0	20.4	20.3	19.7	19.3	18.6	17.6	16.8
77.5°	15.3	15.2	15.2	14.6	14.2	14.2	14.0	13.3	12.4	11.7	10.9
80°	9.8	9.6	9.3	9.1	8.6	8.6	8.5	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°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	329.1	329.2	329.4	329.5	329.5	329.6	329.8	329.9	330.0	330.0	330.1
5°	328.9	329.1	329.1	329.2	329.2	329.2	329.4	329.4	329.4	329.4	329.5
7.5°	329.0	329.0	329.0	328.9	328.9	328.8	328.8	328.8	328.5	328.5	328.5
10°	328.3	328.3	328.2	327.9	327.8	327.6	327.4	327.2	326.9	326.7	326.6
12.5°	327.2	326.6	326.1	325.7	325.4	325.3	324.8	324.4	324.1	323.7	323.4
15°	324.7	323.9	323.1	322.1	321.8	321.6	320.7	320.0	319.4	319.1	318.4
17.5°	319.7	318.2	317.2	315.8	315.1	314.9	313.5	312.7	311.9	311.7	311.1
20°	310.9	309.5	307.7	306.3	305.6	304.8	303.7	302.7	301.7	301.7	301.1
22.5°	299.9	298.1	295.8	294.0	293.9	292.4	291.4	290.4	289.9	289.2	289.2
25°	286.0	284.5	281.9	280.4	279.7	279.3	277.7	276.2	275.5	274.8	275.3
27.5°	270.6	268.3	266.4	264.5	263.9	263.2	261.6	261.0	259.7	259.6	259.4
30°	253.0	250.8	248.8	247.9	246.7	246.0	245.0	244.2	243.7	243.7	243.4
32.5°	234.5	232.6	231.5	229.7	229.1	228.2	227.4	226.7	226.9	226.7	226.9
35°	214.6	214.0	212.1	211.1	211.1	211.0	209.7	209.2	208.9	209.1	209.7
37.5°	195.6	194.0	192.8	192.1	192.7	192.0	191.8	191.8	192.6	192.1	193.1
40°	175.3	175.2	174.7	175.0	175.1	174.2	174.5	174.6	175.1	176.1	176.2
42.5°	157.7	157.7	157.7	157.7	157.4	156.9	157.4	158.2	158.1	158.8	159.4
45°	140.7	140.5	141.0	140.6	141.3	141.6	141.3	141.5	142.2	142.8	143.7
47.5°	125.3	125.3	125.4	125.6	124.8	125.5	125.7	126.3	126.6	126.9	127.3
50°	110.8	110.8	110.6	110.6	110.6	111.0	110.5	111.1	111.2	112.3	112.9
52.5°	97.6	97.0	97.4	97.1	96.6	96.4	96.6	96.8	97.5	97.7	98.4
55°	85.0	85.0	83.9	83.7	84.1	83.9	83.8	83.8	84.2	84.5	85.2
57.5°	73.7	73.0	72.3	72.1	71.8	72.0	72.0	71.8	71.5	71.7	71.8
60°	63.2	62.8	61.6	61.6	61.5	61.4	60.7	60.6	60.0	60.1	59.7
62.5°	53.6	53.3	51.8	51.4	51.4	51.0	50.4	50.2	49.3	49.3	48.9
65°	44.9	44.1	43.2	42.4	42.4	41.9	41.6	40.4	39.8	39.4	38.7
67.5°	36.9	35.8	35.0	34.2	33.7	33.6	32.7	32.0	31.0	30.4	29.2
70°	29.2	28.4	27.6	26.8	26.3	25.8	25.0	23.8	23.1	21.9	21.2
72.5°	22.1	21.3	20.6	19.6	19.0	18.6	17.7	16.8	15.5	14.7	13.7
75°	15.9	15.0	14.0	13.1	12.8	12.4	11.4	10.7	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	1.2	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°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	330.2	330.4	330.5	330.5	330.7	330.7	330.7	330.8	331.0	331.1	331.1
5°	329.6	329.6	329.6	329.8	329.8	329.8	329.8	330.0	330.0	330.1	330.2
7.5°	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.5	328.6	328.8
10°	326.4	326.3	326.3	326.1	326.1	326.1	326.3	326.4	326.6	326.6	327.0
12.5°	323.3	323.2	323.2	323.1	323.1	323.2	323.3	323.5	324.1	324.3	324.8
15°	318.4	318.2	318.4	318.4	318.7	319.1	319.4	319.9	320.6	321.2	321.8
17.5°	311.1	311.3	311.4	311.7	312.0	312.5	313.5	314.5	315.3	316.4	317.4
20°	301.2	301.7	301.9	302.7	302.9	304.1	305.2	306.7	308.0	309.3	310.7
22.5°	289.3	289.7	290.2	291.2	291.8	293.3	294.6	296.4	297.8	299.4	301.5
25°	275.8	275.9	277.4	277.4	278.9	280.2	281.8	283.6	285.8	287.9	289.3
27.5°	260.4	261.0	262.2	262.6	263.8	265.7	267.1	269.4	271.6	273.4	274.9
30°	244.3	244.8	246.7	246.9	247.8	249.5	251.4	253.5	255.2	257.4	258.7
32.5°	227.3	228.6	229.8	230.7	230.9	233.5	234.5	236.0	238.0	240.1	241.5
35°	210.8	211.4	213.0	213.6	214.3	215.8	217.8	219.0	220.0	221.3	222.9
37.5°	193.3	195.2	195.6	197.1	197.3	198.7	199.7	201.2	202.4	203.6	203.9
40°	177.1	177.7	179.1	179.4	179.7	181.6	182.8	183.2	183.8	184.9	186.4
42.5°	160.6	161.2	162.7	162.3	163.5	164.3	165.0	166.4	167.0	167.4	167.4
45°	144.4	144.6	145.6	146.1	146.7	147.2	148.3	149.1	149.3	150.4	150.8
47.5°	128.9	129.1	129.8	130.7	130.5	131.1	132.3	132.7	132.8	133.6	133.9
50°	113.6	114.2	115.2	114.9	115.7	116.1	117.2	117.4	117.4	117.5	117.7
52.5°	99.3	99.8	100.1	100.3	100.7	101.3	101.8	101.6	102.1	102.6	102.2
55°	85.2	85.6	86.2	86.4	86.4	86.6	86.3	87.4	86.9	86.8	86.9
57.5°	72.3	71.8	71.7	72.3	72.6	72.4	72.1	72.6	72.6	72.3	72.0
60°	59.7	59.4	59.3	59.4	58.9	58.5	58.8	58.5	57.9	57.7	57.8
62.5°	48.3	48.0	47.0	47.0	46.7	46.6	45.7	45.7	45.3	44.5	44.8
65°	37.8	36.8	36.3	36.2	35.3	34.6	34.3	33.4	32.7	32.6	32.7
67.5°	28.4	27.3	26.4	26.0	25.5	25.0	24.1	23.3	23.5	23.5	23.9
70°	19.7	19.0	18.1	17.5	17.7	17.0	16.5	16.5	16.6	16.8	17.0
72.5°	13.1	12.1	11.8	11.4	11.1	10.7	10.9	10.9	10.8	10.9	10.7
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°	3.4	3.1	2.9	2.9	2.9	2.9	2.8	2.6	2.6	2.6	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	331.2	331.4	331.4	331.4	331.5	331.5	331.5	331.5
5°	330.4	330.5	330.5	330.5	330.7	330.7	330.7	330.7
7.5°	328.9	329.0	329.0	329.1	329.1	329.2	329.2	329.4
10°	327.2	327.4	327.5	327.6	327.8	327.9	327.9	328.0
12.5°	325.3	325.6	325.7	325.9	326.1	326.3	326.4	326.6
15°	322.5	323.1	323.3	323.4	323.9	324.1	324.3	324.4
17.5°	318.2	319.2	319.6	319.9	320.3	320.8	321.2	321.3
20°	312.0	313.1	313.6	314.2	315.0	315.6	315.9	316.1
22.5°	303.4	304.5	305.3	306.0	306.7	307.3	308.3	307.9
25°	291.0	293.0	293.9	294.3	295.6	296.4	296.9	296.4
27.5°	277.1	278.3	279.0	279.9	280.9	281.6	281.9	282.6
30°	260.3	262.4	262.3	263.2	264.4	265.1	265.4	266.0
32.5°	242.9	243.9	244.7	244.5	245.1	246.4	245.9	247.0
35°	224.5	224.5	225.8	225.7	226.7	226.7	226.7	227.4
37.5°	204.7	206.3	205.6	207.1	206.6	207.0	207.0	207.2
40°	186.7	187.3	187.3	187.7	188.2	187.7	188.0	188.6
42.5°	168.2	168.6	168.8	168.5	168.9	170.1	169.2	169.9
45°	150.8	151.2	151.7	151.3	152.0	151.5	152.0	151.7
47.5°	134.4	134.3	134.2	135.2	134.3	134.4	134.9	134.0
50°	117.7	118.4	118.0	118.3	118.5	118.5	118.2	118.2
52.5°	102.8	102.6	102.3	102.6	102.5	102.6	102.8	102.6
55°	87.4	87.9	87.7	87.6	87.7	87.7	88.5	87.4
57.5°	72.3	72.1	72.4	73.3	72.4	73.0	73.4	73.6
60°	57.9	57.9	58.7	58.3	59.0	59.7	60.1	59.9
62.5°	44.1	44.8	45.0	45.1	45.9	46.4	46.4	46.3
65°	32.7	33.6	33.6	34.1	34.3	34.3	34.6	35.1
67.5°	24.2	24.2	24.3	24.5	24.4	24.4	24.7	24.8
70°	16.9	16.6	17.0	16.9	16.9	16.8	16.9	16.9
72.5°	10.7	10.7	10.8	10.7	10.4	10.5	10.5	10.8
75°	5.7	6.0	5.7	5.7	5.8	5.6	5.7	5.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	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)