

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: P859750

Luminaire Tested: **LX4C08D010 EX4C089830 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859750
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: LX4C08D010 EX4C089830 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

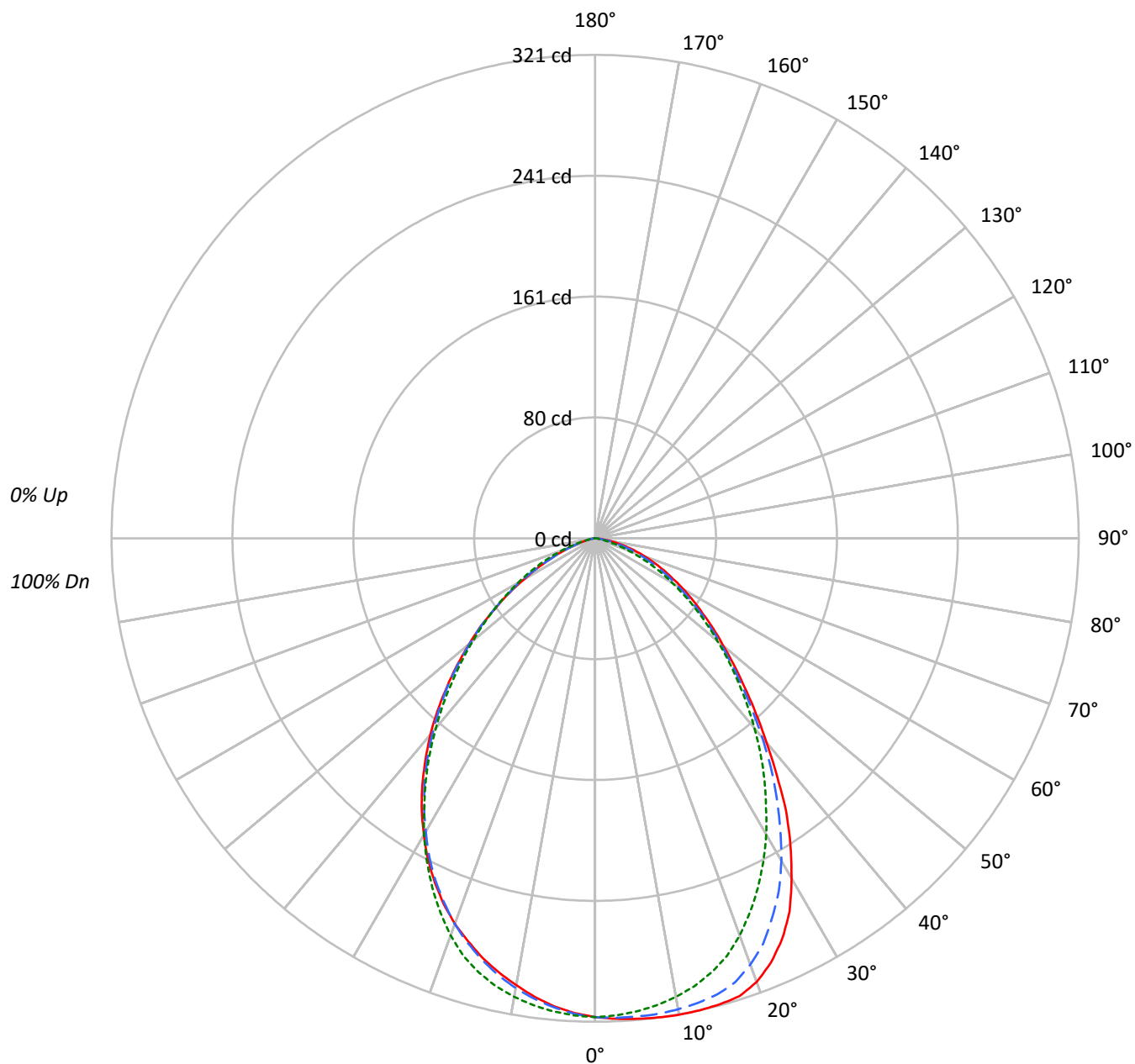
Lumens per Lamp: N/A
Luminaire Lumens: 599.2 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39067	39067	39067
5°	39500	38896	38477
10°	40082	38572	37587
15°	40738	37953	36694
20°	40986	36672	35600
25°	39812	34675	34146
30°	36997	32230	32259
35°	33130	29380	30010
40°	28354	26349	27296
45°	24411	23229	24098
50°	21215	20221	20833
55°	18677	17392	17221
60°	16610	14497	13366
65°	14564	11628	9680
70°	12536	8190	6537
75°	10158	4747	3845
80°	7287	2052	1910
85°	2819	846	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	5.0
10°-20°	84.8	14.2
20°-30°	121.1	20.2
30°-40°	126.7	21.1
40°-50°	106.2	17.7
50°-60°	74.3	12.4
60°-70°	40.5	6.8
70°-80°	14.0	2.3
80°-90°	1.6	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°	235.9	39.4
0°-40°	362.6	60.5
0°-60°	543.1	90.6
0°-90°	599.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	599.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	318	318	318	318	318	
5°	320	319	315	313	312	31
15°	320	314	298	290	288	90
25°	294	278	256	251	252	134
35°	221	210	196	197	200	137
45°	140	137	134	138	139	109
55°	87	84	81	81	80	79
65°	50	46	40	34	33	50
75°	21	17	10	8	8	23
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	319.4	319.1	319.2	319.2	319.2	319.1	319.2	319.1	319.1	319.0	318.7
5°	320.3	320.0	320.0	320.0	320.0	319.8	319.8	319.7	319.4	319.3	318.8
7.5°	320.9	320.7	320.7	320.6	320.4	320.3	320.1	319.8	319.4	319.2	318.6
10°	321.3	320.9	320.9	320.7	320.4	320.3	320.0	319.6	319.1	318.4	317.6
12.5°	321.0	320.7	320.6	320.3	319.8	319.6	319.3	318.7	317.8	317.0	315.9
15°	320.3	320.0	319.8	319.4	318.8	318.4	318.3	317.3	316.1	315.0	313.5
17.5°	318.8	318.4	318.0	317.5	316.7	316.3	315.7	314.4	312.8	311.1	309.1
20°	313.5	313.4	312.8	312.0	310.7	310.1	309.3	307.7	305.6	303.5	301.3
22.5°	304.9	304.5	303.8	303.0	301.9	301.0	300.2	298.0	295.7	293.6	291.4
25°	293.7	293.4	292.4	291.4	290.2	288.7	288.0	286.3	284.0	281.2	278.1
27.5°	279.5	278.2	277.9	276.8	274.9	274.5	273.3	271.2	268.9	266.5	264.0
30°	260.8	260.8	260.1	259.7	257.9	257.4	256.2	253.9	252.6	249.2	247.3
32.5°	241.2	240.9	240.3	240.0	239.0	238.1	236.9	235.7	233.0	231.2	228.6
35°	220.9	219.4	219.6	218.9	218.3	217.3	217.2	215.9	213.4	212.4	210.0
37.5°	197.8	197.2	198.0	196.9	196.3	196.5	195.5	194.6	193.6	191.9	191.4
40°	176.8	177.4	177.2	176.2	176.7	176.1	175.1	174.2	173.8	172.7	172.3
42.5°	158.1	157.4	157.1	157.1	157.3	157.3	156.8	156.1	156.1	155.1	154.0
45°	140.5	140.5	140.3	141.0	139.9	139.9	139.6	139.4	138.9	138.7	137.3
47.5°	125.4	125.2	125.1	125.0	124.8	124.8	124.1	123.5	123.4	122.7	121.9
50°	111.0	111.8	111.6	110.9	110.7	110.8	110.3	110.0	109.9	108.6	108.7
52.5°	99.1	99.0	99.2	98.8	98.2	98.4	97.8	97.4	96.8	96.2	95.8
55°	87.2	87.8	87.6	87.2	87.0	86.9	86.5	85.9	85.7	84.4	84.3
57.5°	77.3	77.1	77.0	76.3	76.2	75.8	75.8	75.4	74.6	73.8	73.3
60°	67.6	67.6	67.2	67.1	66.6	66.5	66.4	65.9	65.1	64.5	63.5
62.5°	58.3	58.6	58.3	58.0	57.6	57.1	56.9	56.5	55.7	55.2	54.3
65°	50.1	50.0	49.9	49.4	49.3	48.8	48.7	48.0	47.2	46.7	45.7
67.5°	42.4	41.9	41.9	41.7	41.5	41.1	40.8	40.1	39.2	38.8	37.8
70°	34.9	34.6	34.6	34.6	34.0	33.6	33.5	33.2	31.9	31.4	30.4
72.5°	28.0	27.9	27.7	27.4	27.0	27.0	26.6	25.8	25.2	24.6	23.8
75°	21.4	21.7	21.4	21.0	20.8	20.5	20.2	19.5	19.0	18.2	17.4
77.5°	15.7	15.4	15.2	15.2	14.9	14.4	14.3	13.8	13.1	12.6	11.8
80°	10.3	10.2	9.9	9.6	9.5	9.5	9.3	8.8	8.1	7.7	7.0
82.5°	5.6	5.5	5.5	5.4	5.0	5.0	4.9	4.4	4.0	3.8	3.4
85°	2.0	2.0	2.0	1.9	1.9	1.9	1.7	1.6	1.4	1.3	1.1
87.5°	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	318.4	318.3	318.1	318.0	317.8	317.7	317.6	317.4	317.3	317.1	316.8
5°	318.4	318.0	317.7	317.4	317.1	316.8	316.5	316.1	315.8	315.4	315.1
7.5°	318.0	317.3	316.7	316.0	315.8	315.4	314.7	314.2	313.5	312.8	312.0
10°	316.7	315.9	315.0	314.0	313.5	313.0	312.0	311.1	310.1	309.2	308.3
12.5°	314.8	313.4	312.2	310.9	310.1	309.5	308.2	306.9	305.8	304.6	303.2
15°	311.8	310.2	308.7	306.8	306.0	305.2	303.3	301.9	299.9	298.4	297.0
17.5°	307.1	304.6	302.7	300.3	299.2	298.3	296.6	294.3	292.4	290.8	289.1
20°	298.9	296.6	293.9	291.3	290.0	288.8	286.4	284.0	282.1	280.5	278.6
22.5°	288.1	285.2	283.2	280.1	278.9	277.6	274.7	272.5	270.4	268.7	267.0
25°	275.0	272.5	269.8	266.9	265.5	264.0	261.5	259.1	257.8	255.8	253.8
27.5°	260.0	257.9	254.6	252.1	250.7	249.5	247.2	245.1	243.1	241.8	239.8
30°	244.1	241.7	238.7	236.0	235.3	233.8	231.8	230.2	228.1	227.2	226.4
32.5°	226.6	223.8	221.6	219.9	218.4	217.2	216.1	213.6	213.1	211.0	210.7
35°	207.5	206.3	204.2	202.8	201.5	200.7	198.9	197.6	196.3	195.9	195.0
37.5°	189.6	188.1	186.1	184.8	184.0	183.8	182.5	181.7	180.8	180.3	179.3
40°	170.8	170.1	168.5	168.2	166.8	166.7	166.0	165.1	164.3	164.3	164.3
42.5°	153.4	152.7	151.9	151.1	150.3	150.3	149.9	149.7	149.5	149.1	149.7
45°	137.1	136.1	135.6	134.7	135.1	134.4	134.1	134.1	133.8	133.7	134.6
47.5°	121.9	120.8	120.4	120.1	120.1	120.2	119.1	119.5	119.4	119.6	119.9
50°	108.1	107.1	106.4	106.4	106.6	106.0	105.6	105.9	105.6	105.8	106.7
52.5°	95.2	94.3	93.9	93.9	93.2	93.1	93.3	92.8	92.9	93.1	93.5
55°	83.4	82.8	82.2	81.6	81.7	81.4	81.0	80.9	81.1	81.2	81.9
57.5°	72.8	71.9	71.1	70.8	70.5	70.5	69.9	69.8	70.1	69.5	69.5
60°	62.6	62.2	61.0	60.6	60.6	60.0	59.6	59.8	59.2	59.0	59.2
62.5°	53.2	52.8	52.1	51.4	51.1	50.9	50.3	50.0	49.8	49.3	48.5
65°	45.0	44.1	43.2	42.8	42.4	41.8	41.5	40.9	40.2	40.0	39.2
67.5°	36.8	35.9	35.1	34.7	34.3	34.0	33.4	32.8	31.9	30.9	30.1
70°	29.6	28.5	28.0	27.0	26.8	26.3	25.4	24.8	24.0	22.8	22.0
72.5°	22.7	21.8	21.1	20.3	19.7	19.4	18.5	17.6	16.7	16.1	15.2
75°	16.2	15.9	14.9	13.9	13.7	13.2	12.4	11.8	11.0	10.0	9.3
77.5°	11.0	10.3	9.6	8.8	8.6	8.1	7.6	7.0	6.5	5.9	5.4
80°	6.5	5.9	5.5	4.9	4.6	4.4	4.0	3.6	3.2	2.9	2.9
82.5°	3.2	2.7	2.6	2.2	2.1	2.0	1.7	1.6	1.3	1.3	1.3
85°	1.1	0.9	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	316.7	316.7	316.5	316.4	316.4	316.3	316.3	316.1	316.1	316.0	316.0
5°	314.5	314.2	314.0	313.7	313.7	313.4	313.1	312.8	312.7	312.7	312.5
7.5°	311.5	311.0	310.5	310.1	310.1	309.4	308.9	308.9	308.5	308.2	307.9
10°	307.5	306.6	305.9	305.5	305.0	304.6	304.0	303.6	303.3	302.7	302.6
12.5°	301.9	301.3	300.2	299.7	299.5	298.7	297.8	297.3	297.2	296.7	296.3
15°	295.7	294.4	293.4	292.8	292.8	291.6	291.1	290.4	289.8	289.5	289.4
17.5°	287.7	286.3	285.4	284.5	284.2	283.2	282.5	282.2	281.6	281.9	281.3
20°	277.2	276.2	275.5	274.3	274.3	273.7	273.5	272.9	272.6	272.3	272.6
22.5°	266.1	264.8	263.5	263.4	263.4	262.6	262.4	262.4	261.8	262.2	262.1
25°	253.1	252.1	251.3	251.2	251.2	250.7	250.2	250.5	250.8	250.7	251.1
27.5°	239.4	238.5	238.3	238.1	237.8	237.7	238.0	238.0	238.4	238.8	239.3
30°	224.8	224.5	224.2	224.1	223.8	224.5	224.6	225.0	224.9	225.6	226.1
32.5°	210.1	209.6	209.5	209.7	210.1	210.0	210.7	211.0	211.3	212.1	212.4
35°	195.3	195.2	194.9	194.9	195.0	196.0	196.0	196.9	197.4	197.6	198.6
37.5°	179.4	179.9	180.1	180.5	180.7	181.0	181.3	182.1	182.6	183.1	183.6
40°	164.9	164.6	165.7	165.0	165.2	166.3	166.8	166.7	167.5	168.2	168.6
42.5°	149.4	149.7	149.9	150.2	150.8	150.9	151.5	152.4	152.7	153.5	153.7
45°	134.3	134.4	134.9	135.4	135.7	136.7	137.0	137.3	138.0	138.0	138.4
47.5°	120.1	120.6	120.6	121.3	121.9	121.8	122.7	122.9	122.8	123.4	123.7
50°	106.6	107.3	107.1	107.6	107.9	108.0	108.7	109.0	108.4	109.1	109.2
52.5°	93.5	93.9	94.4	94.5	94.3	94.9	94.7	95.1	95.1	95.5	95.1
55°	81.7	81.6	81.6	81.9	81.6	81.9	82.0	81.6	81.2	81.7	81.6
57.5°	69.8	69.8	69.6	69.9	69.6	69.2	69.1	68.8	68.4	68.4	68.2
60°	58.7	58.5	58.0	57.9	57.9	57.2	57.0	56.5	56.5	56.0	55.6
62.5°	48.3	47.7	47.4	47.4	47.1	46.5	45.4	44.7	44.4	43.7	43.5
65°	38.5	37.9	37.5	36.8	36.2	35.9	34.9	34.0	33.6	32.9	33.0
67.5°	29.6	28.6	27.6	27.0	26.7	25.8	25.4	24.8	24.4	24.4	24.4
70°	21.3	20.4	19.4	19.0	18.7	18.0	17.6	17.5	17.8	17.7	17.8
72.5°	14.3	13.5	12.9	12.8	12.5	12.1	12.4	12.5	12.2	12.4	12.5
75°	8.6	8.5	8.1	7.9	7.9	8.1	7.9	7.9	8.1	8.1	8.2
77.5°	5.0	4.7	4.7	4.6	4.9	4.7	4.7	4.7	4.9	4.9	4.9
80°	2.7	2.7	2.7	2.7	2.9	2.7	2.9	2.9	2.9	2.9	2.9
82.5°	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
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°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	315.8	315.8	315.8	315.5	315.7	315.7	315.5	315.5
5°	312.4	312.2	312.0	312.0	311.8	312.0	311.8	312.0
7.5°	307.7	307.7	307.3	307.3	307.2	307.1	306.9	307.1
10°	302.2	302.2	301.9	301.9	301.9	301.5	301.5	301.3
12.5°	296.1	295.9	295.6	295.7	295.6	295.3	295.1	295.3
15°	289.0	288.7	288.7	288.4	288.4	288.3	288.5	288.5
17.5°	281.2	280.9	280.7	280.8	280.5	280.7	280.5	280.5
20°	272.5	272.3	272.3	271.9	272.0	271.9	272.0	272.3
22.5°	262.4	262.4	262.4	262.1	262.4	262.4	262.7	262.7
25°	251.5	251.3	251.6	251.6	251.8	252.2	251.8	251.9
27.5°	239.3	239.6	240.0	240.1	240.6	240.2	240.0	240.3
30°	226.9	226.9	226.8	227.2	227.6	227.9	227.4	227.4
32.5°	212.7	213.3	213.3	213.4	213.8	213.8	213.8	214.3
35°	199.1	199.5	199.6	199.1	199.3	199.2	200.1	200.1
37.5°	184.0	184.0	184.1	184.9	184.9	184.6	184.8	184.8
40°	169.5	169.6	169.2	169.3	170.0	169.8	170.0	170.2
42.5°	153.7	154.6	154.1	154.4	154.2	154.4	154.4	154.4
45°	138.7	138.9	138.9	139.0	139.3	139.6	138.8	138.7
47.5°	124.0	124.1	124.5	123.9	124.7	123.9	124.7	123.8
50°	109.2	109.7	109.3	109.6	109.2	109.2	109.1	109.0
52.5°	95.1	95.1	95.1	94.9	94.9	95.1	94.9	95.2
55°	81.1	81.2	81.0	80.9	80.7	81.1	80.7	80.4
57.5°	67.8	68.0	67.5	67.8	66.9	67.2	67.4	67.5
60°	55.4	55.0	55.0	54.6	54.6	54.9	54.4	54.4
62.5°	42.9	43.2	42.8	43.2	43.2	43.8	43.5	43.8
65°	32.9	33.0	33.2	33.2	33.2	33.9	33.6	33.3
67.5°	24.8	25.0	25.1	25.0	25.3	25.1	25.1	25.2
70°	18.0	18.1	18.2	18.2	18.1	18.2	18.2	18.2
72.5°	12.5	12.6	12.5	12.6	12.8	12.6	12.6	12.8
75°	8.2	8.2	8.1	8.1	8.1	8.1	8.2	8.1
77.5°	4.7	4.9	4.7	4.9	4.9	4.9	4.9	4.9
80°	2.9	2.9	2.9	2.7	2.9	2.9	2.9	2.7
82.5°	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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)