

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: P859788

Luminaire Tested: **LX4C08D010 EX4C089850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859788
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 EX4C089850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

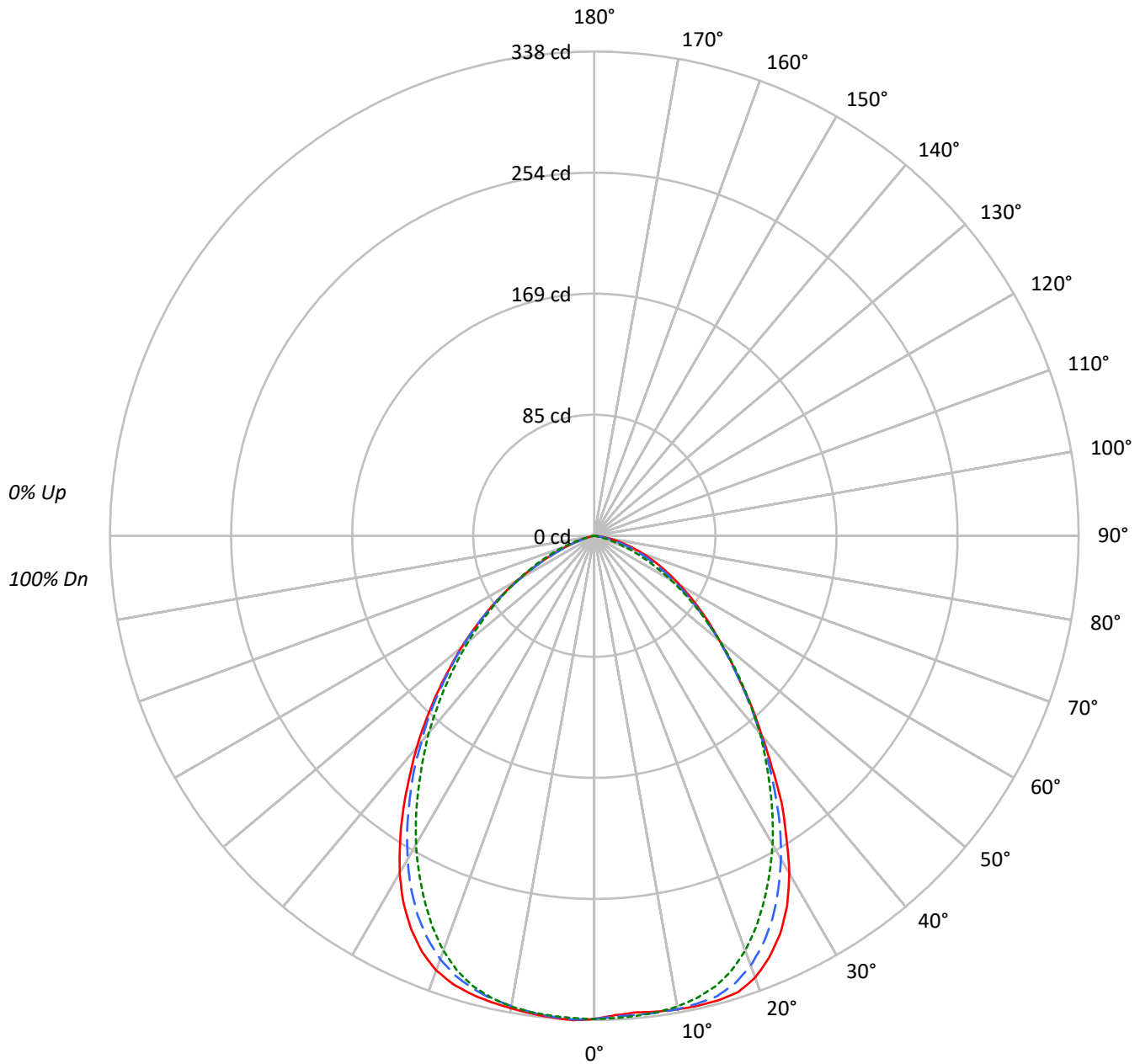
Lumens per Lamp: N/A
Luminaire Lumens: 646.5 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	41438	41438	41438
5°	41190	41486	41634
10°	41878	41629	41778
15°	42697	41438	42137
20°	42921	40280	42202
25°	41588	38036	41032
30°	38614	35295	38529
35°	34180	32020	34825
40°	29140	28835	30888
45°	25036	25314	26912
50°	21846	21903	23069
55°	19320	18484	19127
60°	16929	15086	15037
65°	14971	11715	10407
70°	12788	8046	6178
75°	10348	4319	2848
80°	7075	1061	707
85°	2114	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	5.0
10°-20°	92.8	14.4
20°-30°	134.1	20.7
30°-40°	138.6	21.4
40°-50°	114.5	17.7
50°-60°	79.0	12.2
60°-70°	41.4	6.4
70°-80°	13.0	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°	258.9	40.0
0°-40°	397.5	61.5
0°-60°	591.0	91.4
0°-90°	646.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	337	337	337	337	337	
5°	334	336	336	337	338	32
15°	336	332	326	327	331	95
25°	307	294	281	292	303	140
35°	228	220	214	225	232	141
45°	144	144	146	152	155	112
55°	90	87	86	89	89	81
65°	52	47	40	33	36	51
75°	22	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°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3
2.5°	335.0	335.2	335.2	335.5	335.5	335.5	335.6	335.6	335.7	335.8	335.9
5°	334.0	334.0	334.3	334.4	334.7	334.8	335.0	335.2	335.5	335.6	335.7
7.5°	335.0	335.0	335.2	335.3	335.3	335.5	335.5	335.6	335.7	335.8	335.8
10°	335.7	335.7	335.7	335.7	335.8	335.8	335.8	335.7	335.7	335.7	335.6
12.5°	335.9	335.9	335.8	335.7	335.8	335.7	335.7	335.3	335.0	334.8	334.4
15°	335.7	335.7	335.6	335.5	335.3	335.0	334.9	334.3	333.8	333.1	332.5
17.5°	334.0	333.8	333.5	333.3	332.8	332.4	332.2	331.0	330.1	328.9	327.4
20°	328.3	328.0	327.6	327.0	326.3	325.8	325.0	323.4	322.5	320.7	319.2
22.5°	318.7	318.4	318.6	317.5	316.2	315.4	315.0	313.5	312.0	309.6	308.1
25°	306.8	306.0	306.0	304.3	303.6	303.2	302.5	300.9	298.6	296.4	294.5
27.5°	291.4	290.4	289.8	289.6	288.1	287.0	286.1	284.8	282.9	281.0	278.2
30°	272.2	272.0	271.4	270.2	269.1	268.6	267.6	265.4	263.7	262.3	260.5
32.5°	249.4	249.3	249.3	249.3	248.6	248.4	246.9	245.8	244.4	242.3	241.1
35°	227.9	227.8	227.9	226.1	225.5	225.2	225.0	224.3	222.4	221.3	220.3
37.5°	203.6	204.0	203.8	203.2	203.9	202.7	203.6	202.0	201.2	201.0	199.8
40°	181.7	182.7	181.7	181.8	182.5	181.4	181.4	181.1	180.6	180.3	180.0
42.5°	163.0	161.7	162.5	161.9	162.5	162.1	161.5	161.9	161.9	161.5	161.3
45°	144.1	144.4	144.6	144.2	144.2	143.8	144.9	144.2	144.2	144.4	143.5
47.5°	128.8	128.4	128.7	128.4	128.5	128.3	128.5	128.7	128.4	128.4	127.6
50°	114.3	114.1	114.9	114.2	114.2	114.1	114.2	114.0	113.6	113.6	113.9
52.5°	101.8	101.3	101.2	101.8	100.9	100.9	101.0	100.8	100.3	100.1	99.4
55°	90.2	90.1	90.2	89.6	89.4	89.4	88.7	88.5	88.4	87.7	87.4
57.5°	79.3	78.9	79.0	78.9	78.4	78.3	77.8	77.8	77.2	76.8	76.1
60°	68.9	68.9	69.3	68.8	68.4	68.1	67.9	67.6	66.7	65.8	65.1
62.5°	59.7	59.7	59.7	59.3	59.0	58.8	58.5	57.8	57.0	56.4	55.6
65°	51.5	51.5	51.0	50.7	50.1	50.1	49.7	49.2	48.3	47.6	46.7
67.5°	43.2	42.9	42.9	42.9	42.2	42.0	41.8	41.0	40.3	39.2	38.5
70°	35.6	35.8	35.5	35.0	34.7	34.6	34.2	33.4	32.5	31.6	30.9
72.5°	28.4	28.6	28.3	28.1	27.4	27.1	26.9	26.3	25.3	24.7	23.7
75°	21.8	21.9	21.7	21.4	20.9	20.8	20.2	19.6	19.0	18.0	17.1
77.5°	15.7	15.4	15.4	15.0	14.4	14.4	14.3	13.6	12.7	11.9	11.1
80°	10.0	9.9	9.5	9.3	8.8	8.7	8.6	7.9	7.3	6.9	6.3
82.5°	5.1	4.9	4.8	4.7	4.5	4.2	4.3	3.8	3.6	3.0	2.7
85°	1.5	1.6	1.6	1.5	1.4	1.4	1.4	1.2	1.0	0.9	0.8
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°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3
2.5°	336.1	336.2	336.4	336.5	336.5	336.5	336.7	336.8	337.0	337.0	337.1
5°	335.8	336.1	336.1	336.2	336.2	336.2	336.4	336.4	336.4	336.4	336.5
7.5°	335.9	335.9	335.9	335.8	335.8	335.7	335.7	335.7	335.5	335.5	335.5
10°	335.3	335.2	335.0	334.8	334.7	334.6	334.3	334.0	333.8	333.7	333.4
12.5°	334.0	333.5	333.1	332.5	332.3	332.2	331.6	331.3	330.9	330.5	330.2
15°	331.5	330.7	329.9	328.9	328.6	328.3	327.4	326.7	326.2	325.8	325.2
17.5°	326.5	325.0	323.9	322.4	321.7	321.6	320.1	319.3	318.4	318.3	317.7
20°	317.5	316.0	314.2	312.8	312.0	311.2	310.1	309.1	308.1	308.1	307.5
22.5°	306.2	304.4	302.0	300.2	300.2	298.6	297.6	296.4	296.1	295.3	295.3
25°	292.0	290.5	287.9	286.3	285.5	285.2	283.5	282.0	281.3	280.6	281.2
27.5°	276.4	274.0	272.0	270.1	269.5	268.7	267.2	266.5	265.2	265.0	264.9
30°	258.3	256.0	254.1	253.2	251.8	251.2	250.1	249.3	248.8	248.8	248.6
32.5°	239.4	237.5	236.4	234.5	233.9	233.0	232.2	231.5	231.8	231.5	231.6
35°	219.1	218.6	216.7	215.5	215.5	215.4	214.1	213.7	213.4	213.5	214.1
37.5°	199.7	198.1	196.9	196.2	196.8	196.0	195.9	195.9	196.6	196.2	197.2
40°	179.1	179.0	178.4	178.7	178.8	177.9	178.2	178.3	178.8	179.8	180.0
42.5°	161.0	161.0	161.0	161.0	160.7	160.2	160.7	161.6	161.5	162.2	162.8
45°	143.7	143.5	144.0	143.6	144.4	144.6	144.2	144.5	145.3	145.7	146.8
47.5°	127.9	127.9	128.1	128.3	127.5	128.1	128.4	128.9	129.3	129.6	130.0
50°	113.3	113.3	113.0	113.0	113.0	113.3	112.8	113.4	113.6	114.6	115.2
52.5°	99.7	99.0	99.4	99.2	98.6	98.4	98.6	98.8	99.5	99.8	100.6
55°	86.8	86.8	85.7	85.5	85.9	85.7	85.6	85.6	86.0	86.3	87.0
57.5°	75.4	74.5	73.8	73.7	73.3	73.5	73.5	73.3	73.0	73.2	73.3
60°	64.6	64.1	63.0	63.0	62.8	62.7	62.1	61.9	61.3	61.4	60.9
62.5°	54.7	54.5	53.0	52.4	52.4	52.1	51.5	51.3	50.4	50.4	49.8
65°	45.8	45.1	44.2	43.3	43.3	42.8	42.4	41.3	40.7	40.3	39.5
67.5°	37.7	36.6	35.7	35.0	34.4	34.3	33.4	32.6	31.7	31.0	29.9
70°	29.9	29.0	28.1	27.4	26.8	26.3	25.4	24.3	23.5	22.4	21.7
72.5°	22.6	21.8	21.0	20.0	19.4	19.0	18.1	17.1	15.9	15.1	14.1
75°	16.2	15.3	14.3	13.5	13.0	12.7	11.7	10.9	10.0	9.1	8.1
77.5°	10.5	9.5	8.7	7.8	7.6	7.3	6.3	5.5	4.9	4.5	3.8
80°	5.5	5.1	4.5	3.8	3.6	3.2	2.7	2.3	1.9	1.5	1.2
82.5°	2.4	2.1	1.6	1.4	1.2	1.2	0.9	0.8	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°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3
2.5°	337.3	337.3	337.4	337.4	337.6	337.7	337.7	337.9	338.0	338.1	338.1
5°	336.5	336.5	336.5	336.7	336.7	336.7	336.7	337.0	337.0	337.1	337.3
7.5°	335.3	335.3	335.3	335.3	335.2	335.3	335.2	335.2	335.5	335.6	335.7
10°	333.3	333.2	333.2	333.1	333.1	333.1	333.2	333.3	333.4	333.5	334.0
12.5°	330.1	330.0	330.0	329.9	329.9	330.0	330.1	330.4	330.9	331.1	331.6
15°	325.0	325.0	325.0	325.2	325.5	325.8	326.2	326.6	327.4	328.0	328.6
17.5°	317.7	317.8	318.0	318.3	318.6	319.2	320.1	321.1	322.0	323.1	324.1
20°	307.6	308.1	308.2	309.1	309.3	310.5	311.7	313.2	314.5	315.9	317.2
22.5°	295.4	295.8	296.3	297.3	297.9	299.4	300.9	302.7	304.2	305.8	307.8
25°	281.6	281.8	283.3	283.3	284.8	286.1	287.7	289.6	291.9	294.0	295.4
27.5°	265.9	266.5	267.7	268.2	269.3	271.4	272.8	275.0	277.3	279.2	280.7
30°	249.4	250.0	251.8	252.1	253.0	254.8	256.6	258.9	260.6	262.8	264.1
32.5°	232.1	233.5	234.6	235.5	235.8	238.5	239.4	240.9	243.0	245.1	246.6
35°	215.3	215.9	217.6	218.0	218.8	220.3	222.4	223.6	224.6	226.1	227.7
37.5°	197.4	199.3	199.7	201.2	201.4	202.9	203.9	205.4	206.7	208.0	208.2
40°	180.8	181.5	182.9	183.3	183.5	185.4	186.6	187.0	187.7	188.8	190.3
42.5°	164.0	164.6	166.1	165.8	166.9	167.8	168.5	170.0	170.6	170.9	170.9
45°	147.4	147.7	148.7	149.2	149.8	150.3	151.4	152.2	152.5	153.6	154.0
47.5°	131.5	131.8	132.6	133.5	133.2	133.9	135.1	135.5	135.6	136.3	136.8
50°	116.0	116.6	117.6	117.4	118.2	118.5	119.7	119.9	119.9	120.0	120.2
52.5°	101.4	101.9	102.2	102.5	102.8	103.4	104.0	103.7	104.2	104.7	104.3
55°	87.0	87.4	88.0	88.3	88.3	88.4	88.1	89.3	88.7	88.6	88.7
57.5°	73.8	73.3	73.2	73.8	74.1	73.9	73.6	74.1	74.1	73.8	73.5
60°	61.0	60.6	60.5	60.6	60.2	59.7	60.0	59.7	59.1	58.9	59.0
62.5°	49.4	49.0	48.0	48.0	47.7	47.6	46.6	46.7	46.2	45.5	45.7
65°	38.6	37.6	37.1	37.0	36.1	35.3	35.0	34.2	33.4	33.3	33.4
67.5°	29.0	27.8	26.9	26.6	26.1	25.4	24.5	23.8	24.1	23.9	24.4
70°	20.2	19.4	18.5	17.8	18.1	17.4	16.9	16.9	16.9	17.1	17.4
72.5°	13.5	12.4	12.0	11.7	11.4	10.9	11.1	11.1	11.1	11.1	10.9
75°	7.6	7.1	6.7	6.6	6.3	6.3	6.3	6.3	6.2	6.1	6.1
77.5°	3.4	3.2	3.0	2.9	2.9	2.9	2.8	2.7	2.7	2.7	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



TEST NUMBER: P859788

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	337.3
2.5°	338.2	338.3	338.3	338.3	338.5	338.5	338.5	338.5
5°	337.3	337.4	337.4	337.4	337.6	337.6	337.6	337.6
7.5°	335.8	335.9	335.9	336.1	336.1	336.2	336.2	336.4
10°	334.0	334.3	334.4	334.6	334.7	334.8	334.8	334.9
12.5°	332.2	332.4	332.5	332.8	333.1	333.2	333.3	333.4
15°	329.4	329.9	330.1	330.2	330.7	331.0	331.1	331.3
17.5°	325.0	325.9	326.3	326.6	327.1	327.6	328.0	328.1
20°	318.6	319.8	320.2	320.8	321.7	322.3	322.5	322.8
22.5°	309.7	311.0	311.8	312.6	313.2	313.8	314.8	314.4
25°	297.0	299.3	300.2	300.5	301.9	302.7	303.2	302.7
27.5°	282.9	284.2	284.9	285.8	286.8	287.6	287.9	288.6
30°	265.8	268.0	267.8	268.7	270.0	270.7	271.0	271.6
32.5°	248.1	249.1	249.9	249.7	250.2	251.6	251.1	252.3
35°	229.2	229.4	230.6	230.4	231.5	231.5	231.5	232.2
37.5°	209.0	210.6	209.9	211.4	211.0	211.3	211.3	211.6
40°	190.7	191.2	191.2	191.7	192.1	191.7	192.0	192.6
42.5°	171.7	172.2	172.4	172.1	172.5	173.6	172.7	173.4
45°	154.0	154.4	154.9	154.4	155.2	154.7	155.2	154.9
47.5°	137.2	137.1	137.0	138.0	137.1	137.2	137.8	136.9
50°	120.2	120.9	120.4	120.8	121.1	121.1	120.7	120.7
52.5°	105.0	104.9	104.5	104.9	104.6	104.7	105.0	104.7
55°	89.3	89.8	89.5	89.4	89.5	89.5	90.2	89.3
57.5°	73.8	73.6	73.9	74.8	73.9	74.5	75.0	75.1
60°	59.1	59.1	59.9	59.5	60.3	60.9	61.4	61.2
62.5°	45.1	45.7	45.9	46.1	46.8	47.4	47.4	47.3
65°	33.4	34.3	34.3	34.9	35.0	35.0	35.3	35.8
67.5°	24.7	24.7	24.8	25.1	25.0	25.0	25.2	25.3
70°	17.2	16.9	17.4	17.2	17.2	17.1	17.2	17.2
72.5°	10.9	10.9	11.1	10.9	10.6	10.8	10.8	11.1
75°	5.8	6.1	5.8	5.8	6.0	5.7	5.8	6.0
77.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3
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)