

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: P858895

Luminaire Tested: **LX4C05D010 EX4C059840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858895
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: LX4C05D010 EX4C059840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

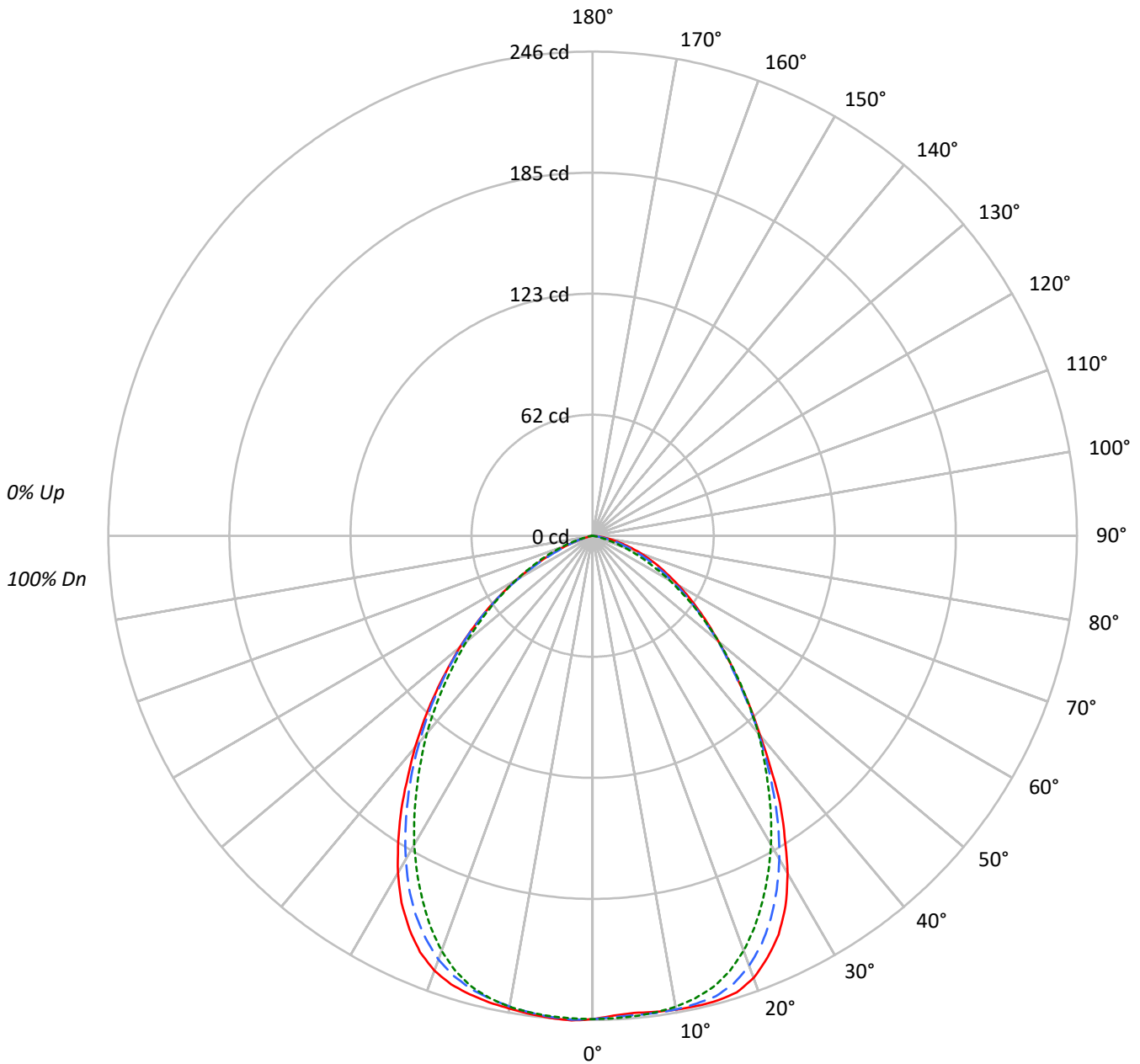
Lumens per Lamp: N/A
Luminaire Lumens: 470.8 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	30173	30173	30173
5°	30004	30214	30325
10°	30501	30314	30426
15°	31097	30182	30678
20°	31259	29338	30736
25°	30296	27707	29876
30°	28102	25705	28060
35°	24896	23321	25376
40°	21217	21009	22500
45°	18243	18434	19598
50°	15921	15959	16800
55°	14051	13472	13922
60°	12334	11008	10959
65°	10901	8517	7587
70°	9303	5855	4526
75°	7547	3133	2089
80°	5165	778	495
85°	1551	282	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	5.0
10°-20°	67.6	14.4
20°-30°	97.6	20.7
30°-40°	100.9	21.4
40°-50°	83.4	17.7
50°-60°	57.6	12.2
60°-70°	30.1	6.4
70°-80°	9.5	2.0
80°-90°	0.8	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°	188.5	40.0
0°-40°	289.5	61.5
0°-60°	430.4	91.4
0°-90°	470.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	246	246	246	246	246	
5°	243	244	245	245	246	23
15°	244	242	237	238	241	69
25°	224	214	204	213	220	102
35°	166	160	156	164	169	103
45°	105	104	106	111	113	82
55°	66	64	63	65	65	59
65°	38	34	29	24	26	37
75°	16	12	7	4	4	17
85°	1	0	0	0	0	2
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°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	244.0	244.1	244.1	244.3	244.3	244.3	244.4	244.4	244.5	244.6	244.7
5°	243.3	243.3	243.4	243.5	243.7	243.8	244.0	244.1	244.3	244.4	244.5
7.5°	244.0	244.0	244.1	244.2	244.2	244.3	244.3	244.4	244.5	244.6	244.6
10°	244.5	244.5	244.5	244.5	244.6	244.6	244.6	244.5	244.5	244.5	244.4
12.5°	244.7	244.7	244.6	244.5	244.6	244.5	244.5	244.2	244.0	243.8	243.5
15°	244.5	244.5	244.4	244.3	244.2	244.0	243.9	243.4	243.1	242.6	242.2
17.5°	243.3	243.1	242.9	242.7	242.4	242.1	241.9	241.0	240.4	239.5	238.5
20°	239.1	238.9	238.5	238.1	237.6	237.3	236.8	235.5	234.9	233.5	232.5
22.5°	232.1	231.9	232.0	231.2	230.2	229.7	229.4	228.4	227.2	225.5	224.4
25°	223.5	222.9	222.9	221.6	221.2	220.8	220.3	219.1	217.5	215.9	214.4
27.5°	212.2	211.4	211.1	210.9	209.8	208.9	208.3	207.4	206.0	204.7	202.6
30°	198.1	198.1	197.6	196.8	196.0	195.6	194.8	193.3	192.0	191.0	189.7
32.5°	181.6	181.6	181.6	181.6	181.0	180.9	179.9	179.0	178.0	176.4	175.6
35°	166.0	166.0	166.0	164.6	164.3	164.0	163.9	163.4	161.9	161.2	160.4
37.5°	148.3	148.6	148.4	148.0	148.5	147.7	148.3	147.1	146.5	146.3	145.5
40°	132.3	133.0	132.3	132.4	132.9	132.1	132.1	131.9	131.5	131.4	131.2
42.5°	118.7	117.8	118.3	117.9	118.3	118.1	117.6	117.9	118.0	117.6	117.5
45°	105.0	105.1	105.3	105.0	105.0	104.8	105.5	105.0	105.0	105.1	104.5
47.5°	93.8	93.5	93.7	93.5	93.6	93.5	93.6	93.7	93.5	93.5	92.9
50°	83.3	83.1	83.7	83.2	83.2	83.1	83.2	83.0	82.8	82.8	82.9
52.5°	74.1	73.7	73.7	74.1	73.5	73.5	73.6	73.4	73.0	72.9	72.4
55°	65.6	65.5	65.6	65.3	65.1	65.1	64.7	64.5	64.4	63.9	63.7
57.5°	57.7	57.4	57.5	57.4	57.1	57.0	56.6	56.6	56.3	55.9	55.5
60°	50.2	50.2	50.5	50.1	49.8	49.6	49.4	49.2	48.6	48.0	47.4
62.5°	43.4	43.5	43.4	43.2	43.0	42.8	42.6	42.1	41.5	41.1	40.5
65°	37.5	37.5	37.2	37.0	36.6	36.6	36.1	35.8	35.2	34.7	34.1
67.5°	31.5	31.3	31.3	31.3	30.7	30.6	30.4	29.9	29.3	28.6	28.0
70°	25.9	26.1	25.9	25.5	25.2	25.1	24.9	24.3	23.7	23.0	22.5
72.5°	20.7	20.9	20.6	20.5	19.9	19.7	19.6	19.2	18.5	18.0	17.2
75°	15.9	16.0	15.8	15.6	15.2	15.2	14.6	14.3	13.8	13.1	12.5
77.5°	11.4	11.2	11.2	10.9	10.5	10.5	10.4	9.9	9.2	8.6	8.1
80°	7.3	7.2	7.0	6.7	6.4	6.3	6.2	5.8	5.4	5.0	4.6
82.5°	3.7	3.6	3.5	3.4	3.2	3.0	3.1	2.8	2.6	2.2	2.0
85°	1.1	1.2	1.2	1.1	1.0	1.0	1.0	0.9	0.7	0.6	0.5
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°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	244.8	244.9	245.0	245.1	245.1	245.1	245.2	245.3	245.4	245.4	245.5
5°	244.6	244.8	244.8	244.9	244.9	244.9	245.0	245.0	245.0	245.0	245.1
7.5°	244.7	244.7	244.7	244.6	244.6	244.5	244.5	244.5	244.3	244.3	244.3
10°	244.2	244.1	244.0	243.8	243.7	243.6	243.4	243.3	243.1	243.0	242.8
12.5°	243.3	242.9	242.6	242.2	242.0	241.9	241.6	241.2	240.9	240.7	240.5
15°	241.5	240.9	240.2	239.5	239.3	239.2	238.5	237.9	237.6	237.3	236.8
17.5°	237.7	236.7	235.9	234.8	234.3	234.2	233.1	232.6	231.9	231.8	231.4
20°	231.2	230.2	228.8	227.8	227.2	226.7	225.9	225.1	224.4	224.4	223.9
22.5°	223.0	221.7	220.0	218.7	218.6	217.5	216.7	215.9	215.6	215.1	215.1
25°	212.7	211.5	209.6	208.5	208.0	207.7	206.5	205.4	204.8	204.4	204.7
27.5°	201.3	199.6	198.1	196.7	196.3	195.7	194.6	194.1	193.2	193.1	193.0
30°	188.2	186.5	185.0	184.3	183.4	183.0	182.2	181.6	181.2	181.2	181.0
32.5°	174.4	172.9	172.2	170.8	170.3	169.7	169.2	168.5	168.8	168.5	168.7
35°	159.5	159.2	157.7	156.9	156.9	156.9	156.0	155.6	155.4	155.5	156.0
37.5°	145.4	144.4	143.4	142.9	143.3	142.8	142.7	142.7	143.2	142.9	143.6
40°	130.4	130.3	129.9	130.1	130.2	129.6	129.7	129.8	130.2	131.0	131.1
42.5°	117.3	117.2	117.2	117.2	117.0	116.6	117.0	117.7	117.6	118.2	118.6
45°	104.7	104.5	104.9	104.6	105.1	105.3	105.0	105.2	105.8	106.1	106.9
47.5°	93.2	93.2	93.3	93.5	92.8	93.4	93.5	93.9	94.2	94.3	94.7
50°	82.5	82.5	82.2	82.2	82.2	82.6	82.1	82.7	82.8	83.5	83.9
52.5°	72.6	72.1	72.4	72.2	71.9	71.7	71.9	72.0	72.5	72.7	73.2
55°	63.1	63.1	62.4	62.2	62.5	62.4	62.3	62.3	62.6	62.9	63.3
57.5°	54.8	54.3	53.8	53.7	53.4	53.5	53.5	53.4	53.2	53.3	53.4
60°	47.0	46.6	45.8	45.8	45.7	45.7	45.2	45.1	44.7	44.8	44.3
62.5°	39.9	39.7	38.5	38.2	38.2	37.9	37.5	37.4	36.7	36.7	36.3
65°	33.4	32.8	32.2	31.6	31.6	31.2	30.9	30.1	29.6	29.3	28.8
67.5°	27.5	26.7	26.0	25.4	25.1	25.0	24.3	23.8	23.1	22.6	21.8
70°	21.8	21.1	20.5	19.9	19.5	19.2	18.5	17.7	17.1	16.3	15.8
72.5°	16.4	15.9	15.3	14.5	14.1	13.8	13.2	12.5	11.5	11.0	10.3
75°	11.8	11.1	10.4	9.8	9.5	9.2	8.5	7.9	7.3	6.6	5.9
77.5°	7.7	7.0	6.3	5.6	5.5	5.4	4.6	4.1	3.6	3.2	2.8
80°	4.1	3.7	3.2	2.8	2.6	2.3	2.0	1.7	1.4	1.1	0.9
82.5°	1.8	1.5	1.2	1.0	0.9	0.8	0.6	0.5	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	245.6	245.7	245.8	245.8	245.9	245.9	245.9	246.0	246.1	246.2	246.2
5°	245.1	245.1	245.1	245.2	245.2	245.2	245.2	245.4	245.4	245.5	245.6
7.5°	244.2	244.2	244.2	244.2	244.1	244.2	244.1	244.1	244.3	244.4	244.5
10°	242.7	242.6	242.6	242.6	242.6	242.6	242.6	242.7	242.8	242.9	243.2
12.5°	240.4	240.3	240.3	240.2	240.2	240.3	240.4	240.6	240.9	241.1	241.6
15°	236.8	236.7	236.8	236.8	237.0	237.3	237.6	237.8	238.4	238.9	239.3
17.5°	231.4	231.5	231.6	231.8	232.0	232.4	233.1	233.9	234.5	235.2	236.0
20°	224.0	224.4	224.5	225.1	225.3	226.1	226.9	228.1	229.1	230.0	231.1
22.5°	215.2	215.4	215.8	216.5	217.0	218.1	219.1	220.4	221.5	222.8	224.2
25°	205.1	205.2	206.3	206.3	207.4	208.3	209.6	210.9	212.6	214.1	215.2
27.5°	193.7	194.1	194.9	195.3	196.2	197.6	198.7	200.3	202.0	203.3	204.5
30°	181.6	182.0	183.4	183.6	184.2	185.6	186.9	188.5	189.8	191.4	192.3
32.5°	169.1	170.1	170.9	171.6	171.7	173.6	174.4	175.5	177.0	178.5	179.6
35°	156.8	157.2	158.5	158.8	159.4	160.4	161.9	162.8	163.6	164.6	165.8
37.5°	143.7	145.2	145.4	146.5	146.7	147.8	148.5	149.5	150.5	151.4	151.6
40°	131.7	132.2	133.1	133.4	133.7	135.0	135.9	136.2	136.7	137.5	138.6
42.5°	119.4	119.9	121.0	120.7	121.5	122.2	122.6	123.8	124.2	124.5	124.5
45°	107.4	107.5	108.3	108.6	109.1	109.5	110.3	110.8	111.0	111.8	112.2
47.5°	95.9	96.0	96.6	97.2	97.0	97.5	98.4	98.7	98.8	99.3	99.6
50°	84.4	84.9	85.7	85.5	86.1	86.3	87.1	87.3	87.3	87.4	87.5
52.5°	73.8	74.3	74.5	74.6	74.9	75.4	75.7	75.5	75.9	76.2	76.0
55°	63.3	63.7	64.1	64.3	64.3	64.4	64.2	65.0	64.7	64.6	64.7
57.5°	53.8	53.4	53.3	53.8	54.0	53.9	53.6	54.0	54.0	53.8	53.5
60°	44.4	44.1	44.1	44.1	43.8	43.5	43.7	43.5	43.1	42.9	43.0
62.5°	35.9	35.7	35.0	35.0	34.8	34.7	34.0	34.1	33.6	33.1	33.3
65°	28.1	27.4	27.0	26.9	26.3	25.8	25.5	24.9	24.3	24.3	24.3
67.5°	21.1	20.3	19.6	19.4	19.0	18.5	17.9	17.3	17.5	17.4	17.8
70°	14.6	14.1	13.5	13.0	13.2	12.7	12.3	12.3	12.4	12.5	12.7
72.5°	9.8	9.0	8.7	8.5	8.3	7.9	8.1	8.1	8.0	8.1	7.9
75°	5.5	5.2	4.9	4.8	4.6	4.6	4.6	4.6	4.5	4.5	4.5
77.5°	2.5	2.3	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P858895

CATALOG NUMBER: LX4C05D010 EX4C059840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	246.3	246.4	246.4	246.4	246.5	246.5	246.5	246.5
5°	245.7	245.8	245.8	245.8	245.9	245.9	245.9	245.9
7.5°	244.6	244.7	244.7	244.8	244.8	244.9	244.9	245.0
10°	243.3	243.4	243.5	243.6	243.7	243.8	243.8	243.9
12.5°	241.9	242.1	242.2	242.4	242.6	242.6	242.7	242.8
15°	239.9	240.2	240.4	240.5	240.9	241.0	241.1	241.2
17.5°	236.7	237.4	237.6	237.8	238.2	238.5	238.9	239.0
20°	232.0	232.8	233.2	233.7	234.3	234.7	234.9	235.1
22.5°	225.6	226.5	227.0	227.6	228.1	228.6	229.3	229.0
25°	216.3	217.9	218.6	218.8	219.9	220.4	220.8	220.4
27.5°	206.0	207.0	207.5	208.1	208.8	209.5	209.6	210.2
30°	193.6	195.1	195.0	195.7	196.6	197.2	197.3	197.8
32.5°	180.7	181.4	181.9	181.8	182.3	183.3	182.9	183.7
35°	166.9	167.0	167.9	167.8	168.5	168.5	168.5	169.2
37.5°	152.2	153.4	152.9	154.0	153.6	153.9	153.9	154.1
40°	138.8	139.3	139.3	139.6	139.9	139.6	139.8	140.3
42.5°	125.0	125.4	125.6	125.3	125.6	126.4	125.8	126.4
45°	112.2	112.4	112.8	112.5	113.0	112.7	113.0	112.8
47.5°	100.0	99.9	99.8	100.5	99.9	100.0	100.3	99.7
50°	87.5	88.1	87.7	88.0	88.2	88.2	87.9	87.9
52.5°	76.4	76.3	76.1	76.3	76.2	76.2	76.4	76.2
55°	65.0	65.4	65.2	65.1	65.2	65.2	65.7	65.0
57.5°	53.8	53.6	53.9	54.5	53.9	54.3	54.6	54.7
60°	43.1	43.1	43.6	43.3	43.9	44.3	44.8	44.6
62.5°	32.8	33.3	33.4	33.5	34.2	34.5	34.5	34.4
65°	24.3	25.0	25.0	25.3	25.5	25.5	25.8	26.1
67.5°	18.0	18.0	18.1	18.3	18.2	18.2	18.4	18.5
70°	12.6	12.4	12.7	12.6	12.6	12.5	12.6	12.6
72.5°	7.9	7.9	8.0	7.9	7.8	7.8	7.8	8.0
75°	4.3	4.5	4.3	4.3	4.4	4.2	4.3	4.4
77.5°	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)