

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: P859625

Luminaire Tested: **LX4C08D010 EX4C089027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859625
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 EX4C089027 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

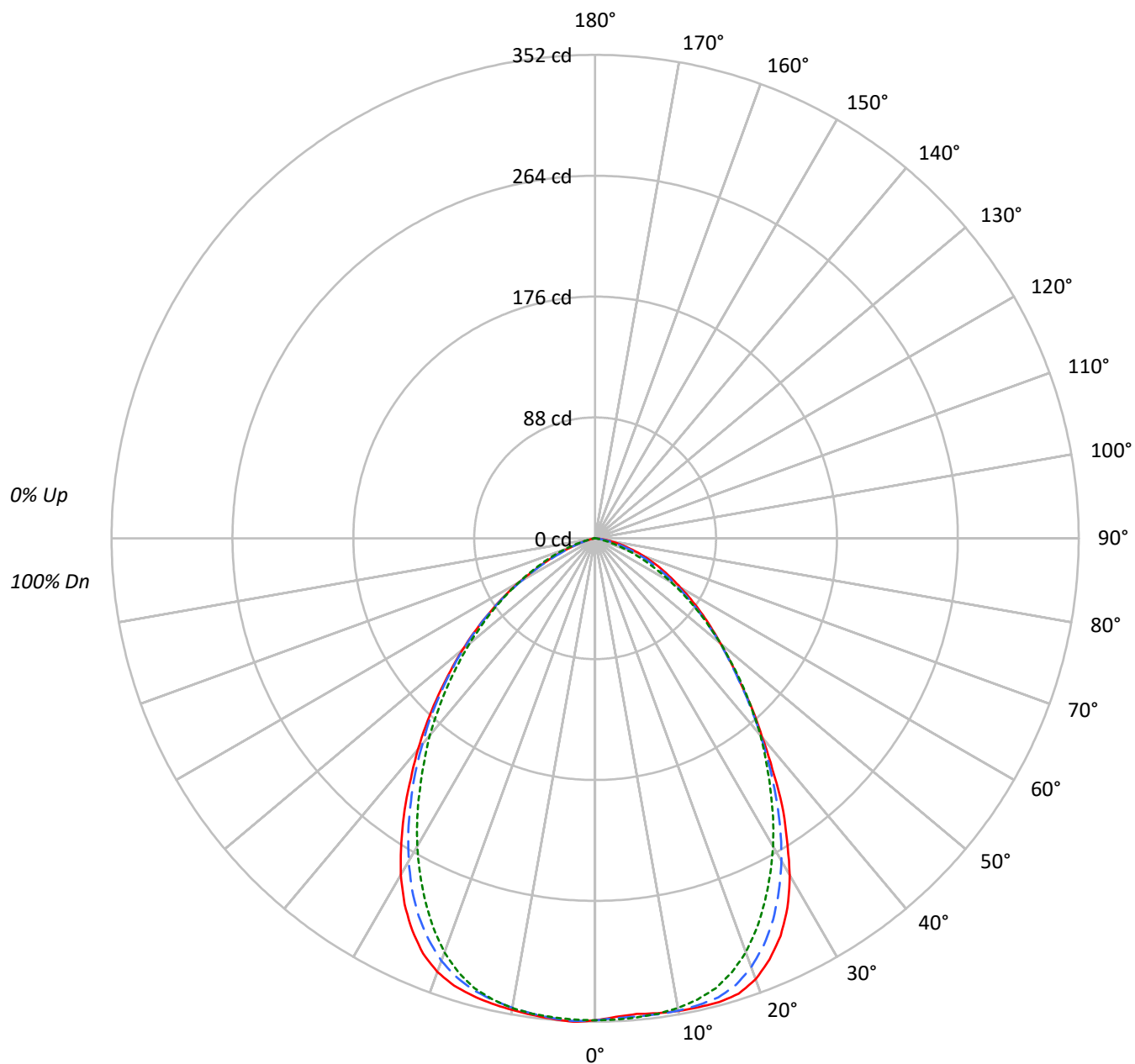
Lumens per Lamp: N/A
Luminaire Lumens: 673.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

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°	43122	43122	43122
5°	42879	43175	43336
10°	43600	43325	43500
15°	44452	43142	43854
20°	44673	41928	43928
25°	43296	39595	42699
30°	40189	36741	40118
35°	35589	33325	36264
40°	30343	30022	32155
45°	26061	26357	28007
50°	22744	22801	24005
55°	20112	19256	19898
60°	17617	15701	15652
65°	15610	12180	10843
70°	13290	8369	6430
75°	10775	4509	2943
80°	7358	1132	778
85°	2255	423	423



TEST NUMBER: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	5.0
10°-20°	96.6	14.4
20°-30°	139.5	20.7
30°-40°	144.3	21.4
40°-50°	119.2	17.7
50°-60°	82.3	12.2
60°-70°	43.1	6.4
70°-80°	13.6	2.0
80°-90°	1.2	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°	269.5	40.0
0°-40°	413.8	61.5
0°-60°	615.2	91.4
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	351	351	351	351	351	
5°	348	350	350	351	351	33
15°	350	346	339	341	345	99
25°	319	306	292	304	315	146
35°	237	229	222	234	242	147
45°	150	149	152	159	161	117
55°	94	91	90	92	93	84
65°	54	49	42	35	37	53
75°	23	18	10	6	6	24
85°	2	1	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	348.8	348.9	348.9	349.2	349.2	349.2	349.3	349.3	349.5	349.6	349.7
5°	347.7	347.7	348.0	348.1	348.4	348.5	348.8	348.9	349.2	349.3	349.5
7.5°	348.8	348.8	348.9	349.1	349.1	349.2	349.2	349.3	349.5	349.6	349.6
10°	349.5	349.5	349.5	349.5	349.6	349.6	349.6	349.5	349.5	349.5	349.3
12.5°	349.7	349.7	349.6	349.5	349.6	349.5	349.5	349.1	348.8	348.5	348.1
15°	349.5	349.5	349.3	349.2	349.1	348.8	348.7	348.0	347.5	346.7	346.2
17.5°	347.7	347.5	347.2	346.9	346.4	346.0	345.8	344.6	343.7	342.3	340.9
20°	341.7	341.4	341.0	340.4	339.7	339.2	338.4	336.7	335.7	333.8	332.3
22.5°	331.8	331.5	331.7	330.5	329.2	328.4	327.8	326.4	324.8	322.3	320.7
25°	319.4	318.6	318.6	316.8	316.1	315.6	314.9	313.2	310.8	308.6	306.5
27.5°	303.3	302.3	301.7	301.5	299.9	298.7	297.8	296.5	294.5	292.5	289.6
30°	283.3	283.1	282.5	281.3	280.1	279.6	278.5	276.3	274.4	273.0	271.2
32.5°	259.7	259.6	259.6	259.6	258.8	258.6	257.0	255.9	254.4	252.2	251.0
35°	237.3	237.1	237.3	235.3	234.8	234.4	234.2	233.5	231.5	230.4	229.4
37.5°	212.0	212.4	212.1	211.6	212.2	211.0	212.0	210.3	209.5	209.2	208.0
40°	189.2	190.2	189.2	189.3	190.0	188.8	188.8	188.5	188.0	187.7	187.4
42.5°	169.7	168.3	169.1	168.5	169.1	168.7	168.1	168.5	168.6	168.1	167.9
45°	150.0	150.3	150.5	150.1	150.1	149.7	150.8	150.1	150.1	150.3	149.4
47.5°	134.1	133.7	133.9	133.7	133.8	133.5	133.8	133.9	133.7	133.7	132.9
50°	119.0	118.8	119.7	118.9	118.9	118.8	118.9	118.6	118.2	118.2	118.5
52.5°	106.0	105.5	105.3	106.0	105.1	105.1	105.2	104.9	104.4	104.1	103.5
55°	93.9	93.7	93.9	93.3	93.1	93.1	92.4	92.1	92.0	91.4	91.0
57.5°	82.5	82.1	82.3	82.1	81.6	81.5	80.9	80.9	80.4	79.9	79.2
60°	71.7	71.7	72.1	71.6	71.2	70.9	70.7	70.4	69.5	68.5	67.8
62.5°	62.1	62.2	62.1	61.7	61.4	61.2	60.9	60.1	59.3	58.8	57.9
65°	53.7	53.5	53.1	52.9	52.2	52.2	51.7	51.3	50.4	49.6	48.6
67.5°	45.0	44.7	44.7	44.7	43.9	43.8	43.5	42.7	41.9	40.9	40.1
70°	37.0	37.3	36.9	36.5	36.1	36.0	35.6	34.8	33.9	32.8	32.2
72.5°	29.5	29.8	29.4	29.3	28.5	28.2	28.1	27.4	26.4	25.7	24.7
75°	22.7	22.8	22.5	22.3	21.8	21.6	21.0	20.4	19.8	18.7	17.8
77.5°	16.3	16.1	16.1	15.6	15.0	15.0	14.9	14.1	13.2	12.4	11.6
80°	10.4	10.3	9.9	9.6	9.2	9.1	9.0	8.3	7.6	7.1	6.6
82.5°	5.3	5.1	5.0	4.9	4.6	4.4	4.5	4.0	3.7	3.2	2.8
85°	1.6	1.7	1.7	1.6	1.5	1.5	1.5	1.3	1.1	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



TEST NUMBER: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	349.8	350.0	350.1	350.2	350.2	350.4	350.5	350.6	350.8	350.8	350.9
5°	349.6	349.8	349.8	350.0	350.0	350.0	350.1	350.1	350.1	350.1	350.2
7.5°	349.7	349.7	349.7	349.6	349.6	349.5	349.5	349.5	349.2	349.2	349.2
10°	349.1	348.9	348.8	348.5	348.4	348.3	348.0	347.7	347.5	347.3	347.1
12.5°	347.7	347.2	346.7	346.2	345.9	345.8	345.2	344.8	344.4	344.0	343.8
15°	345.1	344.3	343.4	342.3	342.1	341.8	340.9	340.1	339.6	339.2	338.5
17.5°	339.8	338.2	337.2	335.6	335.0	334.7	333.2	332.4	331.5	331.3	330.7
20°	330.5	329.0	327.0	325.6	324.8	324.0	322.8	321.8	320.7	320.7	320.1
22.5°	318.7	316.9	314.4	312.5	312.4	310.8	309.8	308.6	308.2	307.4	307.4
25°	304.0	302.4	299.6	298.0	297.3	296.9	295.1	293.6	292.8	292.1	292.6
27.5°	287.6	285.3	283.1	281.2	280.5	279.7	278.1	277.5	276.0	275.9	275.8
30°	268.9	266.5	264.4	263.5	262.2	261.5	260.3	259.6	259.0	259.0	258.8
32.5°	249.3	247.2	246.1	244.1	243.5	242.5	241.8	241.0	241.2	241.0	241.1
35°	228.0	227.5	225.5	224.4	224.4	224.2	222.9	222.4	222.1	222.2	222.9
37.5°	207.9	206.3	205.0	204.2	204.8	204.1	203.9	203.9	204.7	204.2	205.2
40°	186.4	186.3	185.7	186.0	186.1	185.2	185.5	185.6	186.1	187.2	187.3
42.5°	167.7	167.5	167.5	167.5	167.3	166.8	167.3	168.2	168.1	168.9	169.5
45°	149.6	149.4	149.9	149.5	150.3	150.5	150.1	150.4	151.2	151.7	152.8
47.5°	133.1	133.1	133.3	133.5	132.7	133.4	133.7	134.2	134.6	134.9	135.4
50°	117.8	117.8	117.6	117.6	117.6	118.0	117.5	118.1	118.2	119.3	120.0
52.5°	103.7	103.1	103.5	103.2	102.7	102.4	102.7	102.8	103.6	103.9	104.7
55°	90.3	90.3	89.2	89.0	89.4	89.2	89.1	89.1	89.5	89.9	90.6
57.5°	78.4	77.6	76.9	76.7	76.3	76.5	76.5	76.3	76.1	76.2	76.3
60°	67.2	66.7	65.5	65.5	65.4	65.3	64.6	64.5	63.8	63.9	63.4
62.5°	56.9	56.7	55.1	54.6	54.6	54.2	53.5	53.4	52.5	52.5	51.9
65°	47.7	46.9	46.0	45.1	45.1	44.6	44.2	43.0	42.3	41.9	41.1
67.5°	39.3	38.1	37.2	36.4	35.9	35.7	34.8	34.0	33.0	32.3	31.1
70°	31.1	30.2	29.3	28.5	27.9	27.4	26.5	25.3	24.5	23.3	22.5
72.5°	23.5	22.7	21.9	20.8	20.2	19.8	18.9	17.8	16.5	15.7	14.6
75°	16.9	16.0	14.9	14.0	13.6	13.2	12.1	11.3	10.4	9.5	8.4
77.5°	10.9	9.9	9.1	8.0	7.9	7.6	6.6	5.8	5.1	4.6	4.0
80°	5.8	5.3	4.6	4.0	3.7	3.3	2.8	2.4	2.0	1.6	1.3
82.5°	2.5	2.1	1.7	1.5	1.3	1.2	0.9	0.8	0.7	0.7	0.5
85°	0.7	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



TEST NUMBER: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	351.0	351.2	351.3	351.3	351.4	351.6	351.6	351.7	351.8	352.0	352.0
5°	350.4	350.4	350.4	350.5	350.5	350.5	350.5	350.8	350.8	350.9	351.0
7.5°	349.1	349.1	349.1	349.1	348.9	349.1	348.9	348.9	349.2	349.3	349.5
10°	346.9	346.8	346.8	346.7	346.7	346.7	346.8	346.9	347.1	347.2	347.6
12.5°	343.7	343.5	343.5	343.4	343.4	343.5	343.7	343.9	344.4	344.7	345.2
15°	338.4	338.2	338.4	338.5	338.8	339.2	339.6	340.0	340.8	341.4	342.1
17.5°	330.7	330.9	331.0	331.3	331.7	332.2	333.2	334.3	335.2	336.3	337.3
20°	320.2	320.7	320.8	321.8	322.0	323.2	324.4	326.0	327.4	328.8	330.2
22.5°	307.5	307.9	308.5	309.5	310.2	311.8	313.2	315.0	316.6	318.3	320.5
25°	293.2	293.3	294.9	294.9	296.5	297.8	299.5	301.5	303.8	306.1	307.5
27.5°	276.8	277.5	278.7	279.2	280.4	282.5	283.9	286.3	288.7	290.7	292.2
30°	259.7	260.2	262.2	262.5	263.4	265.2	267.2	269.4	271.3	273.5	275.0
32.5°	241.6	243.1	244.3	245.2	245.4	248.2	249.3	250.9	253.0	255.2	256.7
35°	224.1	224.8	226.5	227.0	227.8	229.4	231.5	232.8	233.8	235.3	237.0
37.5°	205.5	207.5	207.9	209.5	209.7	211.2	212.2	213.8	215.1	216.4	216.7
40°	188.2	188.9	190.3	190.7	191.0	193.0	194.3	194.7	195.4	196.5	198.1
42.5°	170.7	171.4	172.9	172.6	173.7	174.7	175.3	176.9	177.6	178.0	178.0
45°	153.4	153.7	154.8	155.3	155.9	156.5	157.7	158.4	158.7	159.9	160.3
47.5°	137.0	137.2	138.0	138.9	138.7	139.3	140.7	141.0	141.2	142.0	142.4
50°	120.7	121.4	122.5	122.2	123.0	123.4	124.6	124.8	124.8	125.0	125.1
52.5°	105.6	106.1	106.4	106.6	107.0	107.7	108.2	108.0	108.5	109.0	108.6
55°	90.6	91.0	91.6	91.9	91.9	92.0	91.7	92.9	92.4	92.3	92.4
57.5°	76.9	76.3	76.2	76.9	77.1	77.0	76.6	77.1	77.1	76.9	76.5
60°	63.5	63.1	63.0	63.1	62.6	62.2	62.5	62.2	61.6	61.3	61.4
62.5°	51.4	51.0	50.0	50.0	49.7	49.6	48.5	48.6	48.1	47.3	47.6
65°	40.2	39.2	38.6	38.5	37.6	36.8	36.5	35.6	34.8	34.7	34.8
67.5°	30.2	29.0	28.1	27.7	27.2	26.5	25.6	24.8	25.0	24.9	25.4
70°	21.0	20.2	19.2	18.6	18.9	18.1	17.5	17.5	17.7	17.8	18.1
72.5°	14.0	12.9	12.5	12.1	11.9	11.3	11.6	11.6	11.5	11.6	11.3
75°	7.9	7.4	7.0	6.9	6.6	6.6	6.6	6.6	6.5	6.3	6.3
77.5°	3.6	3.3	3.2	3.0	3.0	3.0	2.9	2.8	2.8	2.8	2.6
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	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.5	0.7
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: P859625

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	352.1	352.2	352.2	352.2	352.4	352.4	352.4	352.4
5°	351.2	351.3	351.3	351.3	351.4	351.4	351.4	351.4
7.5°	349.6	349.7	349.7	349.8	349.8	350.0	350.0	350.1
10°	347.7	348.0	348.1	348.3	348.4	348.5	348.5	348.7
12.5°	345.8	346.0	346.2	346.4	346.7	346.8	346.9	347.1
15°	342.9	343.4	343.7	343.8	344.3	344.6	344.7	344.8
17.5°	338.2	339.3	339.7	340.0	340.5	341.0	341.4	341.5
20°	331.7	332.8	333.4	334.0	334.8	335.5	335.7	336.0
22.5°	322.4	323.7	324.5	325.3	326.0	326.6	327.7	327.3
25°	309.2	311.5	312.4	312.8	314.3	315.0	315.6	315.0
27.5°	294.5	295.8	296.6	297.5	298.6	299.4	299.6	300.4
30°	276.7	278.9	278.8	279.7	281.0	281.8	282.1	282.8
32.5°	258.2	259.3	260.1	259.9	260.5	261.9	261.4	262.6
35°	238.6	238.7	240.0	239.9	241.0	241.0	241.0	241.8
37.5°	217.6	219.2	218.6	220.1	219.6	220.0	220.0	220.3
40°	198.5	199.0	199.0	199.6	200.0	199.6	199.8	200.5
42.5°	178.7	179.3	179.4	179.1	179.5	180.7	179.8	180.6
45°	160.3	160.7	161.2	160.8	161.5	161.1	161.5	161.2
47.5°	142.9	142.8	142.6	143.7	142.8	142.9	143.4	142.5
50°	125.1	125.9	125.4	125.8	126.0	126.0	125.6	125.6
52.5°	109.3	109.1	108.8	109.1	108.9	109.0	109.3	109.0
55°	92.9	93.5	93.2	93.1	93.2	93.2	94.0	92.9
57.5°	76.9	76.6	77.0	77.9	77.0	77.6	78.0	78.2
60°	61.6	61.6	62.4	62.0	62.7	63.4	63.9	63.7
62.5°	46.9	47.6	47.9	48.0	48.8	49.3	49.3	49.2
65°	34.8	35.7	35.7	36.3	36.5	36.5	36.8	37.3
67.5°	25.7	25.7	25.8	26.1	26.0	26.0	26.2	26.4
70°	17.9	17.7	18.1	17.9	17.9	17.8	17.9	17.9
72.5°	11.3	11.3	11.5	11.3	11.1	11.2	11.2	11.5
75°	6.1	6.3	6.1	6.1	6.2	5.9	6.1	6.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1
82.5°	0.5	0.7	0.5	0.7	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)