

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: P858808

Luminaire Tested: **LX4C05D010 EX4C059035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858808
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: LX4C05D010 EX4C059035 4LBLWWH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

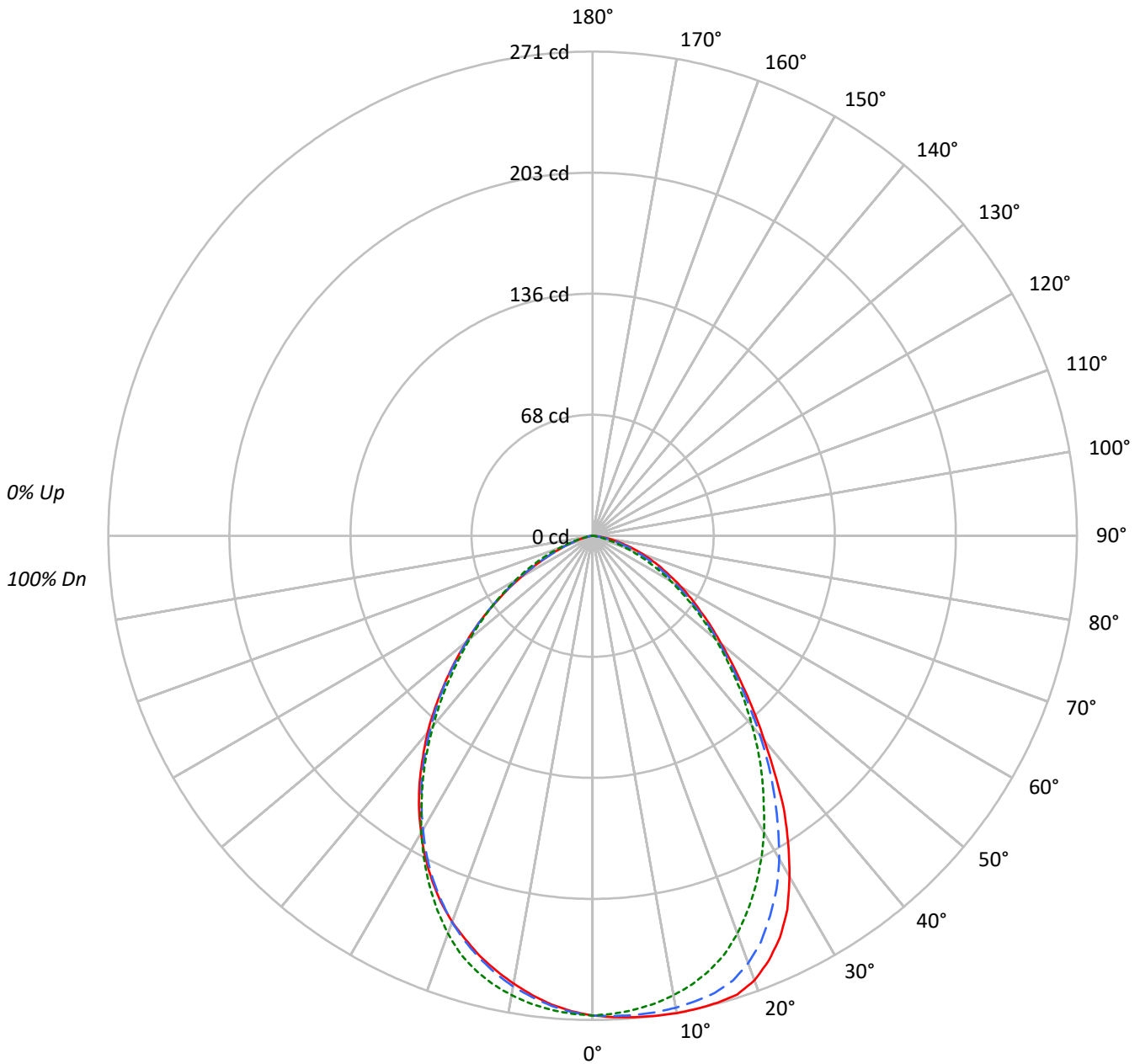
Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	32986	32986	32986
5°	33359	32841	32483
10°	33844	32572	31749
15°	34404	32051	30983
20°	34619	30959	30070
25°	33617	29280	28832
30°	31252	27223	27237
35°	27971	24806	25331
40°	23944	22244	23046
45°	20623	19615	20345
50°	17928	17068	17584
55°	15764	14693	14565
60°	14030	12261	11303
65°	12296	9826	8169
70°	10560	6933	5532
75°	8592	4035	3228
80°	6155	1769	1627
85°	2396	705	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	5.0
10°-20°	71.6	14.2
20°-30°	102.3	20.2
30°-40°	107.0	21.1
40°-50°	89.7	17.7
50°-60°	62.7	12.4
60°-70°	34.2	6.8
70°-80°	11.9	2.3
80°-90°	1.4	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°	199.2	39.4
0°-40°	306.2	60.5
0°-60°	458.6	90.6
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	268	268	268	268	268	
5°	270	269	266	264	263	26
15°	270	265	252	245	244	76
25°	248	235	216	212	213	113
35°	186	177	165	167	169	116
45°	119	116	113	117	117	92
55°	74	71	69	69	68	67
65°	42	39	34	28	28	42
75°	18	15	8	7	7	19
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°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	269.7	269.4	269.5	269.5	269.5	269.4	269.5	269.4	269.4	269.3	269.1
5°	270.5	270.3	270.3	270.3	270.1	270.0	270.0	269.9	269.7	269.6	269.2
7.5°	271.0	270.8	270.8	270.7	270.6	270.5	270.4	270.0	269.7	269.5	269.0
10°	271.3	271.0	271.0	270.8	270.6	270.5	270.3	269.8	269.4	268.9	268.2
12.5°	271.1	270.8	270.7	270.5	270.0	269.8	269.6	269.1	268.4	267.7	266.7
15°	270.5	270.3	270.0	269.7	269.2	268.9	268.7	267.9	266.9	265.9	264.8
17.5°	269.2	268.9	268.5	268.1	267.4	267.1	266.5	265.5	264.2	262.7	261.0
20°	264.8	264.6	264.2	263.4	262.3	261.9	261.2	259.8	258.1	256.3	254.5
22.5°	257.4	257.1	256.5	255.9	254.9	254.1	253.5	251.7	249.7	247.8	246.1
25°	248.0	247.7	246.9	246.1	245.1	243.8	243.2	241.7	239.8	237.4	234.8
27.5°	236.0	234.9	234.6	233.7	232.1	231.7	230.8	228.9	227.1	225.0	222.9
30°	220.3	220.3	219.7	219.2	217.8	217.4	216.3	214.4	213.4	210.5	208.8
32.5°	203.6	203.4	202.9	202.6	201.8	201.1	200.0	199.0	196.7	195.3	193.0
35°	186.5	185.3	185.5	184.8	184.3	183.5	183.4	182.3	180.2	179.4	177.3
37.5°	167.0	166.5	167.2	166.3	165.7	165.8	165.0	164.3	163.5	162.0	161.6
40°	149.3	149.7	149.6	148.8	149.2	148.7	147.9	147.2	146.7	145.8	145.5
42.5°	133.5	132.9	132.7	132.7	132.8	132.8	132.4	131.9	131.9	130.9	130.0
45°	118.7	118.7	118.4	119.1	118.1	118.1	117.8	117.7	117.3	117.1	116.0
47.5°	105.8	105.7	105.6	105.5	105.4	105.4	104.8	104.3	104.2	103.6	103.0
50°	93.8	94.4	94.2	93.7	93.5	93.6	93.1	92.8	92.7	91.7	91.8
52.5°	83.6	83.5	83.8	83.4	82.9	83.0	82.6	82.2	81.8	81.3	80.9
55°	73.6	74.1	73.9	73.6	73.5	73.3	73.0	72.5	72.4	71.3	71.2
57.5°	65.3	65.2	65.0	64.4	64.3	64.0	64.0	63.6	63.0	62.4	61.9
60°	57.1	57.1	56.8	56.7	56.3	56.2	56.1	55.7	54.9	54.4	53.6
62.5°	49.3	49.5	49.3	48.9	48.6	48.2	48.0	47.7	47.1	46.6	45.9
65°	42.3	42.2	42.1	41.7	41.6	41.2	41.1	40.5	39.9	39.4	38.6
67.5°	35.7	35.4	35.4	35.2	35.0	34.7	34.5	33.9	33.1	32.7	31.9
70°	29.4	29.2	29.2	29.2	28.7	28.4	28.3	28.0	27.0	26.5	25.7
72.5°	23.6	23.5	23.4	23.1	22.8	22.8	22.4	21.8	21.3	20.8	20.1
75°	18.1	18.3	18.1	17.7	17.6	17.3	17.0	16.5	16.0	15.4	14.7
77.5°	13.2	13.0	12.8	12.8	12.6	12.2	12.1	11.7	11.0	10.6	9.9
80°	8.7	8.6	8.4	8.2	8.1	8.0	7.8	7.4	6.8	6.5	5.9
82.5°	4.8	4.6	4.6	4.5	4.2	4.2	4.1	3.7	3.4	3.2	2.9
85°	1.7	1.7	1.7	1.5	1.5	1.5	1.4	1.3	1.2	1.1	0.9
87.5°	0.2	0.1	0.2	0.1	0.2	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°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	268.9	268.7	268.6	268.5	268.4	268.3	268.2	268.0	267.9	267.8	267.6
5°	268.9	268.5	268.3	268.0	267.8	267.6	267.3	266.9	266.6	266.3	266.0
7.5°	268.5	267.9	267.5	266.8	266.6	266.3	265.7	265.3	264.8	264.2	263.4
10°	267.5	266.7	265.9	265.1	264.8	264.3	263.4	262.7	261.9	261.1	260.3
12.5°	265.8	264.7	263.6	262.5	261.9	261.4	260.2	259.2	258.2	257.2	256.0
15°	263.3	262.0	260.6	259.1	258.4	257.8	256.1	254.9	253.2	252.0	250.7
17.5°	259.3	257.2	255.6	253.6	252.6	251.9	250.4	248.5	246.9	245.6	244.1
20°	252.4	250.4	248.2	246.0	244.8	243.9	241.9	239.8	238.2	236.8	235.2
22.5°	243.3	240.8	239.2	236.5	235.6	234.4	231.9	230.1	228.3	226.9	225.4
25°	232.2	230.1	227.8	225.3	224.2	222.9	220.8	218.8	217.7	216.0	214.3
27.5°	219.5	217.8	215.0	212.8	211.7	210.7	208.7	206.9	205.3	204.2	202.5
30°	206.1	204.1	201.6	199.3	198.7	197.4	195.7	194.3	192.6	191.9	191.1
32.5°	191.4	189.0	187.1	185.7	184.4	183.4	182.5	180.3	180.0	178.1	177.9
35°	175.2	174.2	172.5	171.2	170.2	169.5	167.9	166.9	165.7	165.4	164.7
37.5°	160.1	158.8	157.2	156.0	155.3	155.2	154.1	153.5	152.6	152.2	151.4
40°	144.2	143.6	142.2	142.0	140.9	140.8	140.1	139.4	138.7	138.7	138.8
42.5°	129.5	128.9	128.3	127.5	126.9	126.9	126.6	126.4	126.2	125.9	126.4
45°	115.8	114.9	114.5	113.8	114.1	113.5	113.3	113.3	113.0	112.9	113.6
47.5°	103.0	102.0	101.6	101.4	101.4	101.5	100.6	100.9	100.8	101.0	101.3
50°	91.3	90.5	89.8	89.8	89.9	89.5	89.1	89.4	89.1	89.3	90.0
52.5°	80.4	79.6	79.3	79.3	78.7	78.6	78.8	78.4	78.5	78.6	79.0
55°	70.4	69.9	69.4	68.9	69.0	68.8	68.4	68.3	68.5	68.6	69.1
57.5°	61.4	60.7	60.0	59.8	59.6	59.6	59.1	59.0	59.2	58.7	58.7
60°	52.9	52.5	51.5	51.2	51.2	50.7	50.3	50.5	50.0	49.9	50.0
62.5°	44.9	44.6	44.0	43.4	43.2	43.0	42.4	42.2	42.0	41.6	41.0
65°	38.0	37.3	36.6	36.1	35.8	35.3	35.0	34.6	34.0	33.8	33.1
67.5°	31.1	30.4	29.6	29.3	29.0	28.7	28.2	27.7	27.0	26.1	25.4
70°	25.0	24.1	23.6	22.8	22.6	22.2	21.5	21.0	20.2	19.3	18.6
72.5°	19.1	18.5	17.9	17.1	16.6	16.3	15.7	14.9	14.0	13.5	12.8
75°	13.7	13.4	12.6	11.8	11.6	11.2	10.4	9.9	9.3	8.5	7.8
77.5°	9.3	8.7	8.2	7.4	7.2	6.8	6.4	5.9	5.5	5.0	4.5
80°	5.5	5.0	4.6	4.1	3.9	3.7	3.4	3.0	2.7	2.5	2.4
82.5°	2.7	2.3	2.2	1.9	1.8	1.7	1.4	1.3	1.1	1.1	1.1
85°	0.9	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	267.5	267.4	267.3	267.2	267.2	267.1	267.1	266.9	266.9	266.8	266.8
5°	265.6	265.3	265.1	264.9	264.9	264.6	264.4	264.2	264.1	264.1	263.8
7.5°	263.0	262.6	262.2	261.9	261.8	261.3	260.9	260.9	260.4	260.2	260.0
10°	259.6	258.9	258.3	258.0	257.5	257.2	256.7	256.4	256.1	255.6	255.5
12.5°	255.0	254.5	253.5	253.1	252.9	252.3	251.5	251.0	250.9	250.5	250.2
15°	249.7	248.6	247.7	247.2	247.2	246.2	245.8	245.2	244.7	244.4	244.3
17.5°	242.9	241.7	240.9	240.2	240.0	239.2	238.5	238.3	237.8	238.0	237.5
20°	234.1	233.2	232.6	231.6	231.6	231.1	230.9	230.4	230.2	230.0	230.2
22.5°	224.7	223.6	222.5	222.4	222.4	221.7	221.6	221.5	221.1	221.4	221.3
25°	213.7	212.8	212.2	212.1	212.1	211.7	211.3	211.5	211.8	211.7	212.0
27.5°	202.2	201.4	201.2	201.1	200.9	200.8	201.0	201.0	201.3	201.7	202.1
30°	189.8	189.6	189.3	189.2	189.0	189.5	189.7	190.0	189.9	190.5	190.9
32.5°	177.4	177.0	176.9	177.1	177.4	177.3	177.9	178.1	178.3	179.1	179.4
35°	164.9	164.8	164.6	164.6	164.7	165.5	165.5	166.3	166.7	166.9	167.7
37.5°	151.5	151.9	152.1	152.4	152.5	152.8	153.0	153.8	154.2	154.6	155.0
40°	139.2	139.0	139.9	139.3	139.5	140.4	140.9	140.8	141.4	142.0	142.4
42.5°	126.1	126.4	126.6	126.8	127.3	127.4	127.9	128.7	128.9	129.6	129.8
45°	113.4	113.5	113.9	114.3	114.6	115.5	115.7	116.0	116.6	116.6	116.9
47.5°	101.4	101.8	101.8	102.4	103.0	102.9	103.6	103.8	103.7	104.2	104.4
50°	89.9	90.6	90.5	90.9	91.1	91.2	91.8	92.0	91.6	92.1	92.2
52.5°	79.0	79.3	79.7	79.8	79.6	80.1	79.9	80.3	80.2	80.7	80.2
55°	69.0	68.9	68.9	69.1	68.9	69.1	69.3	68.9	68.6	69.0	68.9
57.5°	59.0	59.0	58.8	59.1	58.8	58.4	58.3	58.0	57.7	57.7	57.6
60°	49.6	49.4	48.9	48.8	48.8	48.3	48.1	47.7	47.7	47.3	46.9
62.5°	40.8	40.3	40.0	40.0	39.8	39.2	38.3	37.7	37.5	36.9	36.8
65°	32.5	32.0	31.7	31.1	30.6	30.4	29.4	28.7	28.4	27.8	27.9
67.5°	25.0	24.2	23.2	22.8	22.5	21.8	21.5	21.0	20.7	20.7	20.7
70°	18.0	17.2	16.3	16.0	15.8	15.2	14.9	14.8	15.1	15.0	15.1
72.5°	12.1	11.4	10.9	10.7	10.5	10.2	10.4	10.5	10.3	10.4	10.5
75°	7.3	7.1	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.8	6.9
77.5°	4.2	4.0	4.0	3.9	4.1	4.0	4.0	4.0	4.1	4.1	4.1
80°	2.3	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.4
82.5°	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	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°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	266.6	266.6	266.6	266.4	266.5	266.5	266.4	266.4
5°	263.7	263.6	263.4	263.4	263.2	263.4	263.3	263.4
7.5°	259.8	259.8	259.5	259.5	259.4	259.3	259.2	259.3
10°	255.2	255.2	255.0	254.9	255.0	254.6	254.6	254.5
12.5°	250.0	249.8	249.6	249.7	249.6	249.3	249.2	249.3
15°	244.0	243.7	243.8	243.5	243.5	243.4	243.6	243.6
17.5°	237.4	237.2	237.0	237.1	236.9	237.0	236.9	236.8
20°	230.1	230.0	230.0	229.6	229.7	229.6	229.7	230.0
22.5°	221.6	221.5	221.6	221.3	221.5	221.5	221.8	221.8
25°	212.3	212.2	212.4	212.5	212.6	212.9	212.6	212.7
27.5°	202.0	202.3	202.6	202.7	203.1	202.8	202.6	202.9
30°	191.6	191.6	191.5	191.9	192.2	192.5	192.0	192.0
32.5°	179.6	180.1	180.1	180.2	180.5	180.5	180.5	180.9
35°	168.1	168.4	168.5	168.1	168.3	168.2	168.9	168.9
37.5°	155.3	155.3	155.4	156.1	156.1	155.8	156.0	156.0
40°	143.1	143.2	142.8	143.0	143.5	143.3	143.5	143.7
42.5°	129.8	130.5	130.1	130.3	130.2	130.3	130.4	130.4
45°	117.1	117.3	117.3	117.4	117.6	117.8	117.2	117.1
47.5°	104.7	104.8	105.1	104.6	105.2	104.6	105.2	104.5
50°	92.2	92.6	92.3	92.5	92.2	92.2	92.1	92.0
52.5°	80.3	80.2	80.2	80.1	80.1	80.3	80.1	80.4
55°	68.5	68.6	68.4	68.3	68.2	68.5	68.2	68.0
57.5°	57.2	57.4	57.0	57.2	56.5	56.8	56.9	57.0
60°	46.8	46.5	46.5	46.1	46.1	46.4	46.0	46.0
62.5°	36.2	36.5	36.1	36.6	36.6	37.0	36.8	37.0
65°	27.8	27.9	28.0	28.0	28.0	28.6	28.4	28.1
67.5°	21.0	21.1	21.2	21.1	21.4	21.2	21.2	21.3
70°	15.2	15.3	15.4	15.4	15.3	15.4	15.4	15.4
72.5°	10.5	10.6	10.5	10.6	10.7	10.6	10.6	10.7
75°	6.9	6.9	6.8	6.8	6.8	6.8	6.9	6.8
77.5°	4.0	4.1	4.0	4.1	4.1	4.1	4.1	4.1
80°	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.3
82.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)