

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: P858822

Luminaire Tested: **LX4C05D010 EX4C059040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858822
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 EX4C059040 4LBLWW*
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

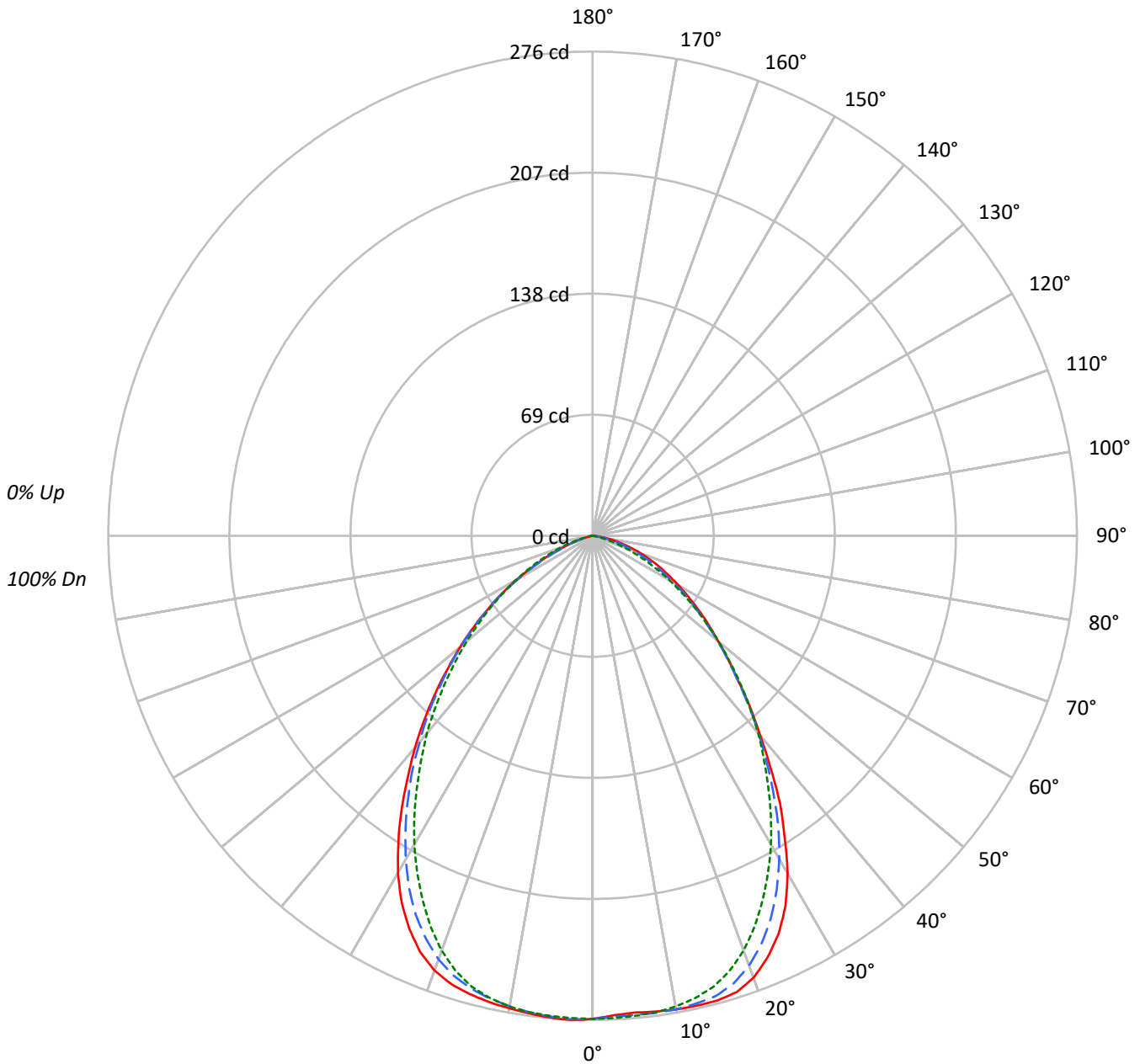
Lumens per Lamp: N/A
Luminaire Lumens: 528.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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				100				
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89				
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78				78				
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68				
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60				60				
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54				54				
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48				48				
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43				43				
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39				39				
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36				36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33834	33834	33834
5°	33642	33877	34000
10°	34206	33994	34119
15°	34875	33845	34404
20°	35051	32894	34463
25°	33970	31069	33509
30°	31521	28826	31464
35°	27926	26156	28451
40°	23799	23559	25227
45°	20449	20675	21978
50°	17851	17889	18845
55°	15764	15100	15614
60°	13833	12334	12285
65°	12238	9564	8517
70°	10453	6573	5065
75°	8449	3513	2326
80°	5801	849	566
85°	1692	282	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	5.0
10°-20°	75.8	14.4
20°-30°	109.5	20.7
30°-40°	113.2	21.4
40°-50°	93.5	17.7
50°-60°	64.5	12.2
60°-70°	33.8	6.4
70°-80°	10.6	2.0
80°-90°	0.9	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°	211.4	40.0
0°-40°	324.6	61.5
0°-60°	482.7	91.4
0°-90°	528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	273	274	275	275	276	26
15°	274	272	266	267	270	77
25°	251	240	229	238	247	114
35°	186	180	174	184	190	116
45°	118	117	119	124	126	92
55°	74	71	70	72	73	66
65°	42	38	33	27	29	42
75°	18	14	7	5	5	19
85°	1	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°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	273.6	273.7	273.7	274.0	274.0	274.0	274.1	274.1	274.2	274.3	274.4
5°	272.8	272.8	273.0	273.1	273.3	273.4	273.6	273.7	274.0	274.1	274.2
7.5°	273.6	273.6	273.7	273.9	273.9	274.0	274.0	274.1	274.2	274.3	274.3
10°	274.2	274.2	274.2	274.2	274.3	274.3	274.3	274.2	274.2	274.2	274.1
12.5°	274.4	274.4	274.3	274.2	274.3	274.2	274.2	273.9	273.6	273.4	273.1
15°	274.2	274.2	274.1	274.0	273.9	273.6	273.5	273.0	272.6	272.0	271.6
17.5°	272.8	272.6	272.4	272.2	271.8	271.5	271.3	270.3	269.6	268.6	267.4
20°	268.1	267.9	267.5	267.0	266.5	266.1	265.5	264.1	263.4	261.9	260.7
22.5°	260.3	260.1	260.2	259.3	258.2	257.6	257.2	256.1	254.8	252.9	251.6
25°	250.6	250.0	250.0	248.5	248.0	247.6	247.1	245.7	243.9	242.1	240.4
27.5°	238.0	237.1	236.7	236.5	235.3	234.3	233.6	232.6	231.0	229.5	227.2
30°	222.2	222.1	221.6	220.7	219.8	219.4	218.5	216.8	215.3	214.2	212.7
32.5°	203.7	203.6	203.6	203.6	203.0	202.9	201.7	200.7	199.6	197.8	196.9
35°	186.2	186.1	186.2	184.6	184.2	183.9	183.8	183.2	181.6	180.8	179.9
37.5°	166.3	166.6	166.4	166.0	166.5	165.6	166.3	165.0	164.3	164.1	163.2
40°	148.4	149.2	148.4	148.5	149.0	148.1	148.1	147.9	147.5	147.3	147.1
42.5°	133.1	132.1	132.7	132.2	132.7	132.4	131.9	132.2	132.3	131.9	131.8
45°	117.7	117.9	118.1	117.8	117.8	117.5	118.3	117.8	117.8	117.9	117.2
47.5°	105.2	104.9	105.1	104.9	105.0	104.8	105.0	105.1	104.9	104.9	104.2
50°	93.4	93.2	93.9	93.3	93.3	93.2	93.3	93.1	92.8	92.8	93.0
52.5°	83.1	82.7	82.6	83.1	82.4	82.4	82.5	82.3	81.9	81.7	81.2
55°	73.6	73.5	73.6	73.2	73.0	73.0	72.5	72.3	72.2	71.7	71.4
57.5°	64.7	64.4	64.5	64.4	64.0	63.9	63.5	63.5	63.1	62.7	62.2
60°	56.3	56.3	56.6	56.2	55.8	55.6	55.4	55.2	54.5	53.8	53.2
62.5°	48.7	48.8	48.7	48.4	48.2	48.0	47.8	47.2	46.5	46.1	45.4
65°	42.1	42.0	41.7	41.5	41.0	41.0	40.5	40.2	39.5	38.9	38.2
67.5°	35.3	35.1	35.1	35.1	34.4	34.3	34.1	33.5	32.9	32.1	31.4
70°	29.1	29.3	29.0	28.6	28.3	28.2	27.9	27.3	26.6	25.8	25.2
72.5°	23.2	23.4	23.1	23.0	22.3	22.1	22.0	21.5	20.7	20.2	19.3
75°	17.8	17.9	17.7	17.5	17.1	17.0	16.4	16.0	15.5	14.7	14.0
77.5°	12.8	12.6	12.6	12.2	11.8	11.8	11.7	11.1	10.3	9.7	9.1
80°	8.2	8.1	7.8	7.5	7.2	7.1	7.0	6.5	6.0	5.6	5.2
82.5°	4.1	4.0	3.9	3.8	3.6	3.4	3.5	3.1	2.9	2.5	2.2
85°	1.2	1.3	1.3	1.2	1.1	1.1	1.1	1.0	0.8	0.7	0.6
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°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	274.5	274.6	274.7	274.8	274.8	274.9	275.0	275.1	275.2	275.2	275.3
5°	274.3	274.5	274.5	274.6	274.6	274.6	274.7	274.7	274.7	274.7	274.8
7.5°	274.4	274.4	274.4	274.3	274.3	274.2	274.2	274.2	274.0	274.0	274.0
10°	273.9	273.7	273.6	273.4	273.3	273.2	273.0	272.8	272.6	272.5	272.3
12.5°	272.8	272.4	272.0	271.6	271.4	271.3	270.9	270.5	270.2	269.9	269.7
15°	270.8	270.1	269.4	268.6	268.4	268.2	267.4	266.8	266.4	266.1	265.6
17.5°	266.6	265.4	264.5	263.3	262.8	262.6	261.4	260.8	260.1	259.9	259.5
20°	259.3	258.1	256.6	255.4	254.8	254.2	253.3	252.4	251.6	251.6	251.1
22.5°	250.1	248.6	246.7	245.2	245.1	243.9	243.0	242.1	241.8	241.2	241.2
25°	238.5	237.2	235.1	233.8	233.2	232.9	231.6	230.3	229.7	229.2	229.6
27.5°	225.7	223.8	222.1	220.6	220.1	219.5	218.2	217.7	216.6	216.5	216.4
30°	211.0	209.1	207.5	206.7	205.7	205.2	204.3	203.6	203.2	203.2	203.0
32.5°	195.6	193.9	193.1	191.5	191.0	190.3	189.7	189.0	189.3	189.0	189.2
35°	178.9	178.5	176.9	176.0	176.0	175.9	174.9	174.5	174.3	174.4	174.9
37.5°	163.1	161.9	160.8	160.2	160.7	160.1	160.0	160.0	160.6	160.2	161.0
40°	146.2	146.1	145.7	145.9	146.0	145.3	145.5	145.6	146.0	146.9	147.0
42.5°	131.5	131.4	131.4	131.4	131.2	130.8	131.2	132.0	131.9	132.5	133.0
45°	117.4	117.2	117.6	117.3	117.9	118.1	117.8	118.0	118.6	119.0	119.9
47.5°	104.5	104.5	104.6	104.8	104.1	104.7	104.9	105.3	105.6	105.8	106.2
50°	92.5	92.5	92.2	92.2	92.2	92.6	92.1	92.7	92.8	93.6	94.1
52.5°	81.4	80.9	81.2	81.0	80.6	80.4	80.6	80.7	81.3	81.5	82.1
55°	70.8	70.8	70.0	69.8	70.1	70.0	69.9	69.9	70.2	70.5	71.0
57.5°	61.5	60.9	60.3	60.2	59.9	60.0	60.0	59.9	59.7	59.8	59.9
60°	52.7	52.3	51.4	51.4	51.3	51.2	50.7	50.6	50.1	50.2	49.7
62.5°	44.7	44.5	43.2	42.8	42.8	42.5	42.0	41.9	41.2	41.2	40.7
65°	37.4	36.8	36.1	35.4	35.4	35.0	34.6	33.7	33.2	32.9	32.3
67.5°	30.8	29.9	29.2	28.5	28.1	28.0	27.3	26.7	25.9	25.3	24.4
70°	24.4	23.7	23.0	22.3	21.9	21.5	20.8	19.9	19.2	18.3	17.7
72.5°	18.4	17.8	17.2	16.3	15.8	15.5	14.8	14.0	12.9	12.3	11.5
75°	13.2	12.5	11.7	11.0	10.7	10.3	9.5	8.9	8.2	7.4	6.6
77.5°	8.6	7.8	7.1	6.3	6.2	6.0	5.2	4.6	4.0	3.6	3.1
80°	4.6	4.1	3.6	3.1	2.9	2.6	2.2	1.9	1.6	1.2	1.0
82.5°	2.0	1.7	1.3	1.1	1.0	0.9	0.7	0.6	0.5	0.5	0.4
85°	0.5	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°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	275.4	275.5	275.6	275.6	275.7	275.8	275.8	275.9	276.0	276.1	276.1
5°	274.9	274.9	274.9	275.0	275.0	275.0	275.0	275.2	275.2	275.3	275.4
7.5°	273.9	273.9	273.9	273.9	273.7	273.9	273.7	273.7	274.0	274.1	274.2
10°	272.2	272.1	272.1	272.0	272.0	272.0	272.1	272.2	272.3	272.4	272.7
12.5°	269.6	269.5	269.5	269.4	269.4	269.5	269.6	269.8	270.2	270.4	270.9
15°	265.5	265.4	265.5	265.6	265.8	266.1	266.4	266.7	267.3	267.9	268.4
17.5°	259.5	259.6	259.7	259.9	260.2	260.6	261.4	262.3	263.0	263.8	264.6
20°	251.2	251.6	251.7	252.4	252.7	253.6	254.5	255.8	256.9	257.9	259.1
22.5°	241.3	241.6	242.0	242.8	243.3	244.6	245.7	247.2	248.4	249.8	251.4
25°	230.0	230.1	231.3	231.3	232.6	233.6	235.0	236.5	238.4	240.1	241.3
27.5°	217.2	217.7	218.6	219.0	220.0	221.6	222.8	224.6	226.5	228.0	229.3
30°	203.7	204.1	205.7	205.9	206.6	208.1	209.6	211.4	212.8	214.6	215.7
32.5°	189.6	190.7	191.6	192.4	192.6	194.7	195.6	196.8	198.5	200.2	201.4
35°	175.8	176.3	177.7	178.1	178.7	179.9	181.6	182.6	183.5	184.6	185.9
37.5°	161.2	162.8	163.1	164.3	164.5	165.7	166.5	167.7	168.8	169.8	170.0
40°	147.7	148.2	149.3	149.6	149.9	151.4	152.4	152.7	153.3	154.2	155.4
42.5°	133.9	134.4	135.7	135.4	136.3	137.0	137.5	138.8	139.3	139.6	139.6
45°	120.4	120.6	121.4	121.8	122.3	122.8	123.7	124.3	124.5	125.4	125.8
47.5°	107.5	107.7	108.3	109.0	108.8	109.3	110.3	110.7	110.8	111.4	111.7
50°	94.7	95.2	96.1	95.9	96.5	96.8	97.7	97.9	97.9	98.0	98.1
52.5°	82.8	83.3	83.5	83.7	84.0	84.5	84.9	84.7	85.1	85.5	85.2
55°	71.0	71.4	71.9	72.1	72.1	72.2	72.0	72.9	72.5	72.4	72.5
57.5°	60.3	59.9	59.8	60.3	60.5	60.4	60.1	60.5	60.5	60.3	60.0
60°	49.8	49.5	49.4	49.5	49.1	48.8	49.0	48.8	48.3	48.1	48.2
62.5°	40.3	40.0	39.2	39.2	39.0	38.9	38.1	38.2	37.7	37.1	37.3
65°	31.5	30.7	30.3	30.2	29.5	28.9	28.6	27.9	27.3	27.2	27.3
67.5°	23.7	22.8	22.0	21.7	21.3	20.8	20.1	19.4	19.6	19.5	20.0
70°	16.4	15.8	15.1	14.6	14.8	14.2	13.8	13.8	13.9	14.0	14.2
72.5°	11.0	10.1	9.8	9.5	9.3	8.9	9.1	9.1	9.0	9.1	8.9
75°	6.2	5.8	5.5	5.4	5.2	5.2	5.2	5.2	5.1	5.0	5.0
77.5°	2.8	2.6	2.5	2.4	2.4	2.4	2.3	2.2	2.2	2.2	2.1
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.5
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



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CATALOG NUMBER: LX4C05D010 EX4C059040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	276.2	276.3	276.3	276.3	276.4	276.4	276.4	276.4
5°	275.5	275.6	275.6	275.6	275.7	275.7	275.7	275.7
7.5°	274.3	274.4	274.4	274.5	274.5	274.6	274.6	274.7
10°	272.8	273.0	273.1	273.2	273.3	273.4	273.4	273.5
12.5°	271.3	271.5	271.6	271.8	272.0	272.1	272.2	272.3
15°	269.0	269.4	269.6	269.7	270.1	270.3	270.4	270.5
17.5°	265.4	266.2	266.5	266.7	267.1	267.5	267.9	268.0
20°	260.2	261.1	261.5	262.1	262.7	263.2	263.4	263.6
22.5°	253.0	254.0	254.6	255.2	255.8	256.3	257.1	256.8
25°	242.6	244.4	245.1	245.4	246.6	247.2	247.6	247.2
27.5°	231.0	232.1	232.7	233.4	234.2	234.9	235.1	235.7
30°	217.1	218.8	218.7	219.5	220.5	221.1	221.3	221.8
32.5°	202.6	203.4	204.0	203.9	204.4	205.5	205.1	206.0
35°	187.2	187.3	188.3	188.2	189.0	189.0	189.0	189.7
37.5°	170.7	172.0	171.5	172.7	172.3	172.6	172.6	172.8
40°	155.7	156.2	156.2	156.6	156.9	156.6	156.8	157.3
42.5°	140.2	140.6	140.8	140.5	140.9	141.8	141.1	141.7
45°	125.8	126.1	126.5	126.2	126.7	126.4	126.7	126.5
47.5°	112.1	112.0	111.9	112.7	112.0	112.1	112.5	111.8
50°	98.1	98.8	98.4	98.7	98.9	98.9	98.6	98.6
52.5°	85.7	85.6	85.3	85.6	85.4	85.5	85.7	85.5
55°	72.9	73.3	73.1	73.0	73.1	73.1	73.7	72.9
57.5°	60.3	60.1	60.4	61.1	60.4	60.9	61.2	61.3
60°	48.3	48.3	48.9	48.6	49.2	49.7	50.2	50.0
62.5°	36.8	37.3	37.5	37.6	38.3	38.7	38.7	38.6
65°	27.3	28.0	28.0	28.4	28.6	28.6	28.9	29.3
67.5°	20.2	20.2	20.3	20.5	20.4	20.4	20.6	20.7
70°	14.1	13.9	14.2	14.1	14.1	14.0	14.1	14.1
72.5°	8.9	8.9	9.0	8.9	8.7	8.8	8.8	9.0
75°	4.8	5.0	4.8	4.8	4.9	4.7	4.8	4.9
77.5°	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8
82.5°	0.4	0.5	0.4	0.5	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)