

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: P858921

Luminaire Tested: **LX4C05D010 EX4C059030 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858921  
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 EX4C059030 4LBLWW\*  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LRLWW TRIM WITH \* FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

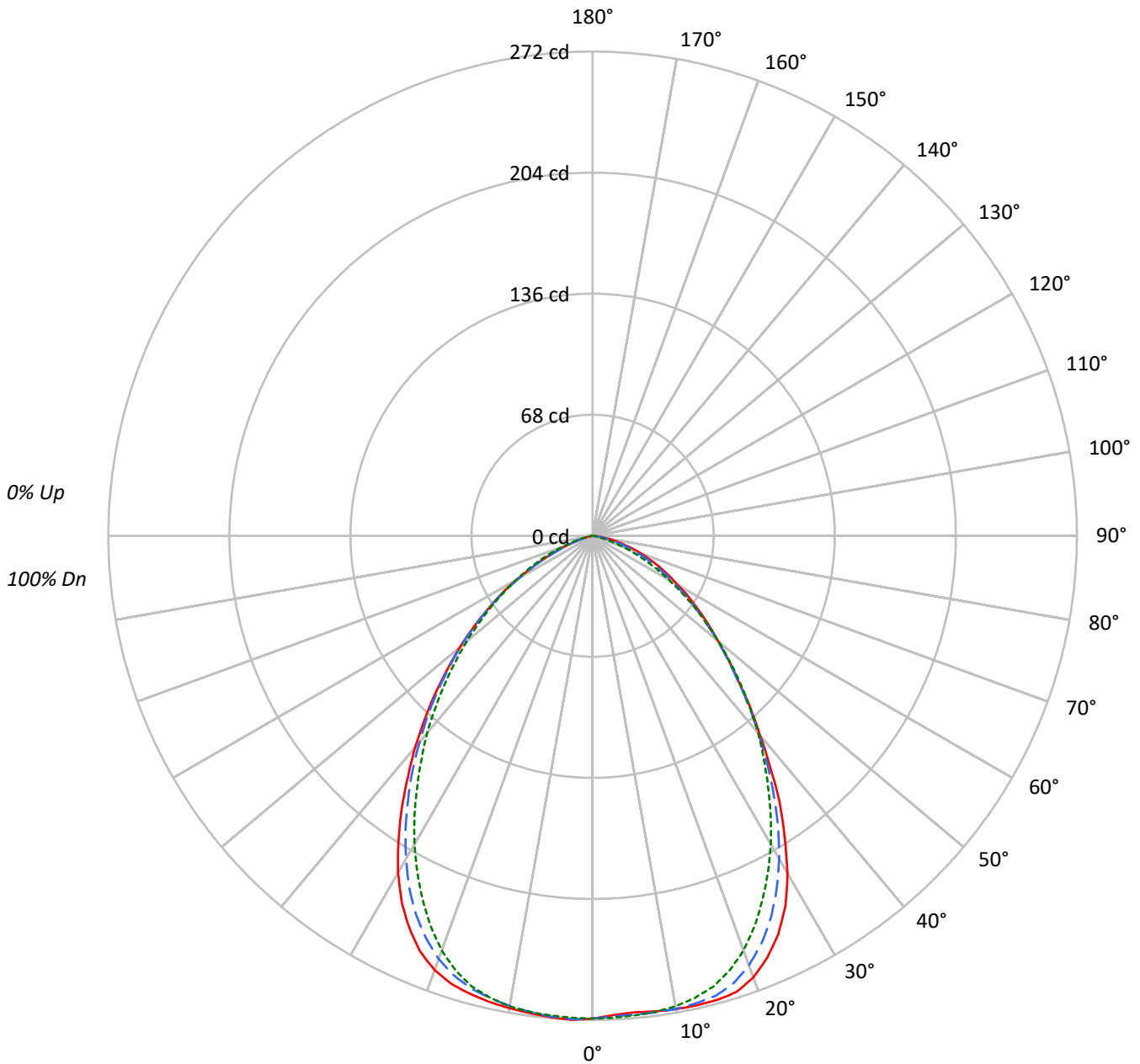
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 520.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 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<sub>in</sub>): 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°	33318	33318	33318
5°	33137	33359	33482
10°	33682	33483	33607
15°	34341	33336	33883
20°	34515	32397	33940
25°	33455	30594	32994
30°	31053	28386	30996
35°	27491	25751	28016
40°	23447	23190	24842
45°	20137	20362	21648
50°	17584	17622	18558
55°	15529	14886	15379
60°	13612	12138	12089
65°	12064	9419	8372
70°	10273	6466	4993
75°	8307	3465	2278
80°	5660	849	566
85°	1692	282	282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.8	5.0
10°-20°	74.6	14.4
20°-30°	107.8	20.7
30°-40°	111.5	21.4
40°-50°	92.1	17.7
50°-60°	63.6	12.2
60°-70°	33.3	6.4
70°-80°	10.5	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°	208.2	40.0
0°-40°	319.7	61.5
0°-60°	475.4	91.4
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	271	271	271	271	271	
5°	269	270	270	271	272	26
15°	270	268	262	263	266	76
25°	247	237	226	235	243	113
35°	183	177	172	181	187	114
45°	116	115	117	123	125	90
55°	72	70	70	71	72	65
65°	42	38	32	27	29	41
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°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	269.5	269.6	269.6	269.8	269.8	269.8	269.9	269.9	270.0	270.1	270.2
5°	268.7	268.7	268.9	269.0	269.2	269.3	269.5	269.6	269.8	269.9	270.0
7.5°	269.5	269.5	269.6	269.7	269.7	269.8	269.8	269.9	270.0	270.1	270.1
10°	270.0	270.0	270.0	270.0	270.1	270.1	270.1	270.0	270.0	270.0	269.9
12.5°	270.2	270.2	270.1	270.0	270.1	270.0	270.0	269.7	269.5	269.3	269.0
15°	270.0	270.0	269.9	269.8	269.7	269.5	269.4	268.9	268.5	267.9	267.5
17.5°	268.7	268.5	268.3	268.1	267.7	267.4	267.2	266.2	265.5	264.5	263.4
20°	264.0	263.8	263.5	263.0	262.5	262.1	261.5	260.1	259.4	257.9	256.8
22.5°	256.4	256.2	256.3	255.3	254.3	253.7	253.3	252.2	251.0	249.0	247.8
25°	246.8	246.2	246.2	244.7	244.2	243.8	243.3	242.0	240.2	238.4	236.8
27.5°	234.4	233.5	233.1	232.9	231.7	230.8	230.1	229.1	227.5	226.0	223.8
30°	218.9	218.8	218.3	217.4	216.4	216.0	215.2	213.5	212.1	210.9	209.5
32.5°	200.6	200.5	200.5	200.5	199.9	199.8	198.6	197.7	196.6	194.8	193.9
35°	183.3	183.2	183.3	181.8	181.4	181.1	181.0	180.4	178.9	178.0	177.2
37.5°	163.8	164.1	163.9	163.5	164.0	163.1	163.8	162.5	161.8	161.6	160.7
40°	146.2	147.0	146.2	146.3	146.8	145.9	145.9	145.6	145.2	145.0	144.8
42.5°	131.1	130.1	130.7	130.2	130.7	130.4	129.9	130.2	130.3	129.9	129.8
45°	115.9	116.1	116.3	116.0	116.0	115.7	116.5	116.0	116.0	116.1	115.4
47.5°	103.6	103.3	103.5	103.3	103.4	103.2	103.4	103.5	103.3	103.3	102.7
50°	92.0	91.8	92.5	91.9	91.9	91.8	91.9	91.7	91.4	91.4	91.6
52.5°	81.9	81.5	81.4	81.9	81.2	81.2	81.3	81.1	80.7	80.5	80.0
55°	72.5	72.4	72.5	72.1	71.9	71.9	71.4	71.2	71.1	70.6	70.3
57.5°	63.8	63.5	63.6	63.5	63.0	62.9	62.5	62.5	62.1	61.7	61.2
60°	55.4	55.4	55.7	55.3	55.0	54.8	54.6	54.4	53.7	53.0	52.4
62.5°	48.0	48.1	48.0	47.7	47.5	47.3	47.1	46.4	45.8	45.4	44.7
65°	41.5	41.4	41.0	40.8	40.3	40.3	39.9	39.6	38.9	38.3	37.6
67.5°	34.7	34.5	34.5	34.5	33.9	33.8	33.6	33.0	32.4	31.6	31.0
70°	28.6	28.8	28.5	28.2	27.9	27.8	27.5	26.9	26.2	25.4	24.9
72.5°	22.8	23.0	22.7	22.6	22.0	21.8	21.7	21.2	20.4	19.9	19.0
75°	17.5	17.6	17.4	17.2	16.8	16.7	16.2	15.8	15.3	14.5	13.7
77.5°	12.6	12.4	12.4	12.0	11.6	11.6	11.5	10.9	10.2	9.6	9.0
80°	8.0	7.9	7.6	7.4	7.1	7.0	6.9	6.4	5.9	5.5	5.1
82.5°	4.1	4.0	3.9	3.8	3.6	3.4	3.5	3.1	2.9	2.4	2.1
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°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	270.3	270.4	270.5	270.6	270.6	270.7	270.8	270.9	271.0	271.0	271.1
5°	270.1	270.3	270.3	270.4	270.4	270.4	270.5	270.5	270.5	270.5	270.6
7.5°	270.2	270.2	270.2	270.1	270.1	270.0	270.0	270.0	269.8	269.8	269.8
10°	269.7	269.6	269.5	269.3	269.2	269.1	268.9	268.7	268.5	268.4	268.2
12.5°	268.7	268.3	267.9	267.5	267.3	267.2	266.7	266.4	266.1	265.8	265.6
15°	266.6	266.0	265.3	264.5	264.3	264.1	263.4	262.8	262.4	262.1	261.6
17.5°	262.6	261.4	260.5	259.3	258.8	258.6	257.5	256.9	256.2	256.0	255.5
20°	255.3	254.2	252.7	251.6	251.0	250.4	249.4	248.6	247.8	247.8	247.3
22.5°	246.3	244.9	242.9	241.5	241.4	240.2	239.4	238.4	238.1	237.5	237.5
25°	234.9	233.6	231.5	230.3	229.7	229.4	228.0	226.8	226.2	225.7	226.1
27.5°	222.2	220.4	218.8	217.2	216.7	216.1	214.9	214.4	213.3	213.2	213.1
30°	207.8	205.9	204.3	203.6	202.6	202.1	201.2	200.5	200.1	200.1	199.9
32.5°	192.6	191.0	190.2	188.6	188.1	187.4	186.8	186.2	186.4	186.2	186.3
35°	176.2	175.8	174.3	173.4	173.4	173.2	172.2	171.8	171.6	171.7	172.2
37.5°	160.6	159.4	158.4	157.8	158.3	157.7	157.6	157.6	158.2	157.8	158.6
40°	144.0	143.9	143.5	143.7	143.8	143.1	143.3	143.4	143.8	144.6	144.7
42.5°	129.6	129.5	129.5	129.5	129.2	128.8	129.2	130.0	129.9	130.5	131.0
45°	115.6	115.4	115.8	115.5	116.1	116.3	116.0	116.2	116.8	117.2	118.0
47.5°	102.9	102.9	103.0	103.2	102.6	103.1	103.3	103.7	104.0	104.2	104.6
50°	91.1	91.1	90.9	90.9	90.9	91.2	90.7	91.3	91.4	92.2	92.7
52.5°	80.2	79.6	80.0	79.7	79.3	79.1	79.3	79.4	80.1	80.3	80.9
55°	69.8	69.8	69.0	68.7	69.1	69.0	68.9	68.9	69.2	69.5	70.0
57.5°	60.6	60.0	59.4	59.3	59.0	59.1	59.1	59.0	58.8	58.9	59.0
60°	51.9	51.5	50.6	50.6	50.5	50.4	49.9	49.8	49.3	49.4	49.0
62.5°	44.0	43.8	42.6	42.2	42.2	41.9	41.4	41.2	40.5	40.5	40.1
65°	36.9	36.3	35.5	34.8	34.8	34.4	34.1	33.2	32.7	32.4	31.8
67.5°	30.4	29.4	28.7	28.1	27.7	27.6	26.9	26.3	25.5	25.0	24.0
70°	24.0	23.3	22.6	22.0	21.6	21.2	20.5	19.6	18.9	18.0	17.4
72.5°	18.1	17.5	16.9	16.1	15.6	15.3	14.6	13.7	12.7	12.1	11.3
75°	13.0	12.3	11.5	10.8	10.5	10.2	9.4	8.8	8.0	7.3	6.5
77.5°	8.5	7.6	7.0	6.2	6.1	5.9	5.1	4.5	4.0	3.6	3.1
80°	4.5	4.1	3.6	3.1	2.9	2.5	2.1	1.8	1.5	1.2	1.0
82.5°	1.9	1.6	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°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	271.2	271.3	271.4	271.4	271.5	271.6	271.6	271.7	271.8	271.9	271.9
5°	270.7	270.7	270.7	270.8	270.8	270.8	270.8	271.0	271.0	271.1	271.2
7.5°	269.7	269.7	269.7	269.7	269.6	269.7	269.6	269.6	269.8	269.9	270.0
10°	268.1	268.0	268.0	267.9	267.9	267.9	268.0	268.1	268.2	268.3	268.6
12.5°	265.5	265.4	265.4	265.3	265.3	265.4	265.5	265.7	266.1	266.3	266.7
15°	261.5	261.4	261.5	261.6	261.8	262.1	262.4	262.7	263.3	263.8	264.3
17.5°	255.5	255.6	255.7	256.0	256.3	256.7	257.5	258.3	259.0	259.8	260.6
20°	247.4	247.8	247.9	248.6	248.8	249.7	250.7	251.9	253.0	254.0	255.1
22.5°	237.6	237.9	238.3	239.1	239.7	240.9	242.0	243.4	244.6	246.0	247.6
25°	226.5	226.6	227.8	227.8	229.1	230.1	231.4	232.9	234.8	236.5	237.6
27.5°	213.9	214.4	215.3	215.7	216.6	218.3	219.4	221.2	223.1	224.6	225.8
30°	200.6	201.1	202.6	202.8	203.5	204.9	206.5	208.2	209.6	211.3	212.5
32.5°	186.7	187.8	188.7	189.4	189.6	191.8	192.6	193.8	195.5	197.2	198.3
35°	173.1	173.7	175.0	175.4	176.0	177.2	178.9	179.9	180.7	181.8	183.1
37.5°	158.8	160.3	160.6	161.8	162.0	163.2	164.0	165.2	166.2	167.2	167.4
40°	145.4	146.0	147.1	147.4	147.6	149.1	150.1	150.4	150.9	151.9	153.1
42.5°	131.9	132.4	133.6	133.3	134.2	135.0	135.5	136.7	137.2	137.5	137.5
45°	118.6	118.8	119.6	120.0	120.5	120.9	121.8	122.4	122.6	123.5	123.9
47.5°	105.8	106.0	106.6	107.4	107.1	107.7	108.7	109.0	109.1	109.7	110.0
50°	93.3	93.8	94.6	94.4	95.0	95.3	96.2	96.5	96.5	96.6	96.7
52.5°	81.6	82.0	82.2	82.4	82.7	83.2	83.6	83.4	83.8	84.2	83.9
55°	70.0	70.3	70.8	71.0	71.0	71.1	70.9	71.8	71.4	71.3	71.4
57.5°	59.4	59.0	58.9	59.4	59.6	59.5	59.2	59.6	59.6	59.4	59.1
60°	49.1	48.8	48.7	48.8	48.4	48.1	48.3	48.1	47.6	47.4	47.5
62.5°	39.7	39.4	38.6	38.6	38.4	38.3	37.5	37.6	37.2	36.6	36.8
65°	31.1	30.2	29.8	29.7	29.0	28.4	28.2	27.5	26.9	26.8	26.9
67.5°	23.3	22.4	21.7	21.4	21.0	20.5	19.8	19.1	19.4	19.2	19.7
70°	16.2	15.6	14.9	14.4	14.6	14.0	13.5	13.5	13.6	13.7	14.0
72.5°	10.8	10.0	9.7	9.4	9.2	8.8	9.0	9.0	8.9	9.0	8.8
75°	6.1	5.7	5.4	5.3	5.1	5.1	5.1	5.1	5.0	4.9	4.9
77.5°	2.7	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.0
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





TEST NUMBER: P858921

CATALOG NUMBER: LX4C05D010 EX4C059030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	272.0	272.1	272.1	272.1	272.2	272.2	272.2	272.2
5°	271.3	271.4	271.4	271.4	271.5	271.5	271.5	271.5
7.5°	270.1	270.2	270.2	270.3	270.3	270.4	270.4	270.5
10°	268.7	268.9	269.0	269.1	269.2	269.3	269.3	269.4
12.5°	267.2	267.4	267.5	267.7	267.9	268.0	268.1	268.2
15°	264.9	265.3	265.5	265.6	266.0	266.2	266.3	266.4
17.5°	261.4	262.2	262.5	262.7	263.1	263.5	263.8	263.9
20°	256.3	257.2	257.6	258.1	258.7	259.2	259.4	259.6
22.5°	249.1	250.1	250.8	251.4	251.9	252.4	253.2	252.9
25°	238.9	240.7	241.4	241.7	242.8	243.4	243.8	243.4
27.5°	227.5	228.6	229.2	229.9	230.7	231.3	231.5	232.1
30°	213.8	215.5	215.4	216.1	217.1	217.8	218.0	218.5
32.5°	199.5	200.3	201.0	200.9	201.3	202.4	202.0	202.9
35°	184.4	184.5	185.5	185.4	186.2	186.2	186.2	186.8
37.5°	168.2	169.4	168.9	170.1	169.7	170.0	170.0	170.2
40°	153.4	153.8	153.8	154.2	154.5	154.2	154.4	154.9
42.5°	138.1	138.5	138.6	138.4	138.7	139.6	138.9	139.5
45°	123.9	124.2	124.6	124.3	124.8	124.5	124.8	124.6
47.5°	110.4	110.3	110.2	111.0	110.3	110.4	110.8	110.1
50°	96.7	97.3	96.9	97.2	97.4	97.4	97.1	97.1
52.5°	84.4	84.3	84.0	84.3	84.1	84.2	84.4	84.2
55°	71.8	72.2	72.0	71.9	72.0	72.0	72.6	71.8
57.5°	59.4	59.2	59.5	60.2	59.5	60.0	60.3	60.4
60°	47.6	47.6	48.2	47.9	48.5	49.0	49.4	49.2
62.5°	36.3	36.8	37.0	37.1	37.7	38.1	38.1	38.0
65°	26.9	27.6	27.6	28.0	28.2	28.2	28.4	28.8
67.5°	19.9	19.9	20.0	20.2	20.1	20.1	20.3	20.4
70°	13.9	13.6	14.0	13.9	13.9	13.7	13.9	13.9
72.5°	8.8	8.8	8.9	8.8	8.6	8.7	8.7	8.9
75°	4.7	4.9	4.7	4.7	4.8	4.6	4.7	4.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8
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)