

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: P858777

Luminaire Tested: **LX4C05D010 EX4C059027 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858777  
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 EX4C059027 4LBLWW\*  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

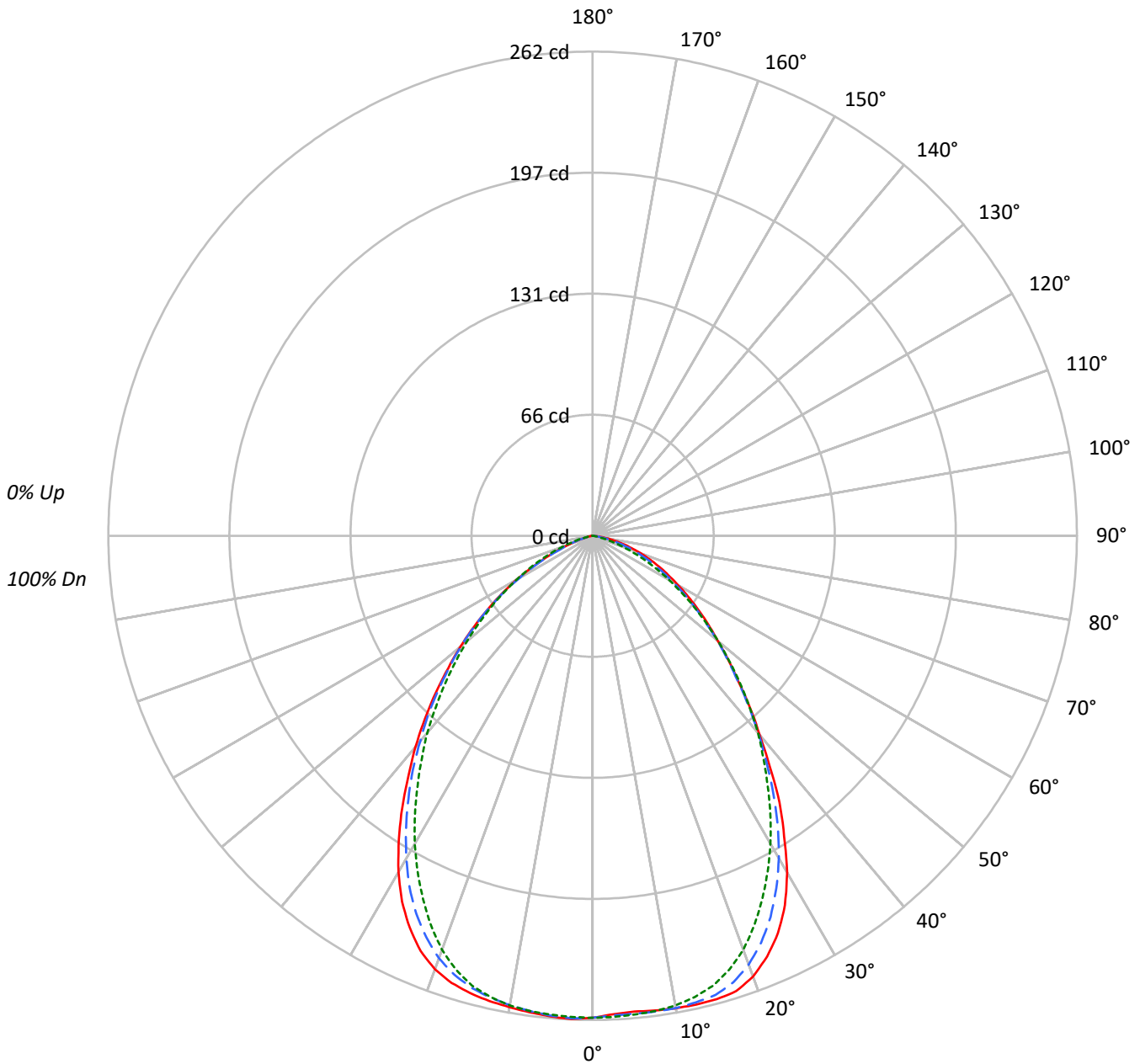
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 500.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 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<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°	32040	32040	32040
5°	31867	32076	32200
10°	32385	32198	32310
15°	33018	32051	32585
20°	33181	31155	32632
25°	32167	29415	31733
30°	29861	27294	29805
35°	26441	24761	26936
40°	22533	22308	23896
45°	19355	19581	20814
50°	16896	16934	17832
55°	14929	14308	14779
60°	13096	11671	11622
65°	11599	9041	8052
70°	9878	6214	4777
75°	7974	3370	2183
80°	5448	849	566
85°	1692	282	282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	5.0
10°-20°	71.8	14.4
20°-30°	103.7	20.7
30°-40°	107.2	21.4
40°-50°	88.6	17.7
50°-60°	61.1	12.2
60°-70°	32.0	6.4
70°-80°	10.1	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°	200.2	40.0
0°-40°	307.4	61.5
0°-60°	457.1	91.4
0°-90°	500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	261	261	261	261	261	
5°	258	260	260	261	261	25
15°	260	257	252	253	256	73
25°	237	228	217	226	234	108
35°	176	170	165	174	180	109
45°	111	111	113	118	120	87
55°	70	68	67	69	69	63
65°	40	36	31	26	28	39
75°	17	13	7	5	5	18
85°	1	1	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°	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8
2.5°	259.1	259.2	259.2	259.4	259.4	259.4	259.5	259.5	259.6	259.7	259.8
5°	258.4	258.4	258.5	258.6	258.8	258.9	259.1	259.2	259.4	259.5	259.6
7.5°	259.1	259.1	259.2	259.3	259.3	259.4	259.4	259.5	259.6	259.7	259.7
10°	259.6	259.6	259.6	259.6	259.7	259.7	259.7	259.6	259.6	259.6	259.5
12.5°	259.8	259.8	259.7	259.6	259.7	259.6	259.6	259.3	259.1	258.9	258.6
15°	259.6	259.6	259.5	259.4	259.3	259.1	259.0	258.5	258.2	257.6	257.2
17.5°	258.4	258.2	258.0	257.8	257.4	257.1	256.9	256.0	255.3	254.3	253.3
20°	253.8	253.7	253.4	252.9	252.4	252.0	251.4	250.1	249.4	248.0	246.9
22.5°	246.5	246.3	246.4	245.5	244.5	244.0	243.6	242.5	241.3	239.4	238.3
25°	237.3	236.7	236.7	235.3	234.8	234.5	234.0	232.7	230.9	229.3	227.7
27.5°	225.3	224.6	224.2	224.0	222.8	221.9	221.2	220.3	218.8	217.3	215.2
30°	210.5	210.4	209.9	209.0	208.1	207.7	206.9	205.3	203.9	202.8	201.5
32.5°	192.9	192.8	192.8	192.8	192.2	192.1	191.0	190.1	189.0	187.3	186.5
35°	176.3	176.2	176.3	174.8	174.4	174.1	174.0	173.4	172.0	171.2	170.4
37.5°	157.5	157.8	157.6	157.2	157.7	156.8	157.5	156.2	155.6	155.4	154.5
40°	140.5	141.3	140.5	140.6	141.1	140.2	140.2	140.0	139.7	139.5	139.3
42.5°	126.0	125.1	125.6	125.2	125.6	125.4	124.9	125.2	125.3	124.9	124.8
45°	111.4	111.6	111.8	111.5	111.5	111.3	112.0	111.5	111.5	111.6	111.0
47.5°	99.6	99.3	99.5	99.3	99.4	99.2	99.4	99.5	99.3	99.3	98.7
50°	88.4	88.2	88.9	88.3	88.3	88.2	88.3	88.1	87.8	87.8	88.0
52.5°	78.7	78.3	78.2	78.7	78.1	78.1	78.2	78.0	77.6	77.4	76.9
55°	69.7	69.6	69.7	69.3	69.1	69.1	68.7	68.5	68.4	67.9	67.6
57.5°	61.3	61.0	61.1	61.0	60.6	60.5	60.1	60.1	59.7	59.3	58.9
60°	53.3	53.3	53.6	53.2	52.9	52.7	52.5	52.3	51.6	50.9	50.3
62.5°	46.1	46.2	46.1	45.8	45.6	45.4	45.2	44.7	44.1	43.7	43.0
65°	39.9	39.8	39.5	39.3	38.8	38.8	38.4	38.1	37.4	36.8	36.1
67.5°	33.4	33.2	33.2	33.2	32.6	32.5	32.3	31.7	31.1	30.4	29.8
70°	27.5	27.7	27.4	27.1	26.8	26.7	26.4	25.9	25.2	24.4	23.9
72.5°	21.9	22.1	21.8	21.7	21.2	21.0	20.9	20.4	19.6	19.1	18.3
75°	16.8	16.9	16.7	16.6	16.2	16.1	15.6	15.2	14.7	13.9	13.2
77.5°	12.1	11.9	11.9	11.6	11.2	11.2	11.1	10.5	9.8	9.2	8.6
80°	7.7	7.6	7.3	7.1	6.9	6.8	6.7	6.2	5.7	5.3	4.9
82.5°	3.9	3.8	3.7	3.6	3.4	3.2	3.3	2.9	2.7	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°	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8
2.5°	259.9	260.0	260.1	260.2	260.2	260.3	260.4	260.5	260.6	260.6	260.7
5°	259.7	259.9	259.9	260.0	260.0	260.0	260.1	260.1	260.1	260.1	260.2
7.5°	259.8	259.8	259.8	259.7	259.7	259.6	259.6	259.6	259.4	259.4	259.4
10°	259.3	259.2	259.1	258.9	258.8	258.7	258.5	258.4	258.2	258.1	257.9
12.5°	258.4	258.0	257.6	257.2	257.0	256.9	256.5	256.2	255.9	255.6	255.4
15°	256.4	255.8	255.1	254.3	254.1	253.9	253.3	252.7	252.3	252.0	251.5
17.5°	252.5	251.3	250.5	249.3	248.9	248.7	247.6	247.0	246.3	246.1	245.7
20°	245.5	244.4	243.0	241.9	241.3	240.7	239.8	239.1	238.3	238.3	237.8
22.5°	236.8	235.4	233.6	232.2	232.1	230.9	230.1	229.3	229.0	228.4	228.4
25°	225.8	224.7	222.6	221.4	220.8	220.5	219.3	218.1	217.5	217.0	217.4
27.5°	213.7	211.9	210.4	208.9	208.4	207.8	206.6	206.2	205.1	205.0	204.9
30°	199.8	198.0	196.5	195.8	194.8	194.3	193.4	192.8	192.4	192.4	192.2
32.5°	185.2	183.6	182.8	181.4	180.9	180.2	179.6	179.0	179.2	179.0	179.1
35°	169.4	169.0	167.6	166.7	166.7	166.6	165.6	165.2	165.0	165.1	165.6
37.5°	154.4	153.3	152.3	151.7	152.2	151.6	151.5	151.5	152.1	151.7	152.5
40°	138.5	138.4	138.0	138.2	138.3	137.6	137.8	137.9	138.3	139.1	139.2
42.5°	124.6	124.5	124.5	124.5	124.3	123.9	124.3	125.0	124.9	125.5	125.9
45°	111.2	111.0	111.4	111.1	111.6	111.8	111.5	111.7	112.3	112.7	113.5
47.5°	98.9	98.9	99.0	99.2	98.6	99.1	99.3	99.7	100.0	100.2	100.6
50°	87.6	87.6	87.4	87.4	87.4	87.7	87.3	87.7	87.8	88.6	89.1
52.5°	77.1	76.6	76.9	76.7	76.3	76.1	76.3	76.4	77.0	77.2	77.8
55°	67.1	67.1	66.3	66.1	66.4	66.3	66.2	66.2	66.5	66.8	67.3
57.5°	58.3	57.7	57.1	57.0	56.7	56.8	56.8	56.7	56.5	56.6	56.7
60°	49.9	49.6	48.7	48.7	48.6	48.5	48.0	47.9	47.4	47.5	47.1
62.5°	42.3	42.1	40.9	40.5	40.5	40.3	39.8	39.7	39.0	39.0	38.6
65°	35.5	34.9	34.2	33.5	33.5	33.1	32.8	31.9	31.4	31.1	30.6
67.5°	29.2	28.3	27.6	27.0	26.6	26.5	25.9	25.3	24.5	24.0	23.1
70°	23.1	22.4	21.7	21.2	20.8	20.4	19.7	18.8	18.2	17.3	16.7
72.5°	17.4	16.8	16.3	15.5	15.0	14.7	14.0	13.2	12.2	11.7	10.9
75°	12.5	11.9	11.1	10.4	10.1	9.8	9.0	8.4	7.7	7.1	6.3
77.5°	8.1	7.3	6.8	6.0	5.9	5.7	4.9	4.3	3.8	3.4	2.9
80°	4.3	3.9	3.4	2.9	2.7	2.4	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°	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8
2.5°	260.8	260.9	261.0	261.0	261.1	261.2	261.2	261.3	261.4	261.5	261.5
5°	260.3	260.3	260.3	260.4	260.4	260.4	260.4	260.6	260.6	260.7	260.8
7.5°	259.3	259.3	259.3	259.3	259.2	259.3	259.2	259.2	259.4	259.5	259.6
10°	257.8	257.7	257.7	257.6	257.6	257.6	257.7	257.8	257.9	258.0	258.3
12.5°	255.3	255.2	255.2	255.1	255.1	255.2	255.3	255.5	255.9	256.1	256.5
15°	251.4	251.3	251.4	251.5	251.7	252.0	252.3	252.6	253.2	253.7	254.1
17.5°	245.7	245.8	245.9	246.1	246.4	246.8	247.6	248.4	249.0	249.8	250.6
20°	237.9	238.3	238.4	239.1	239.3	240.1	241.0	242.2	243.3	244.2	245.3
22.5°	228.5	228.8	229.2	229.9	230.4	231.6	232.7	234.1	235.2	236.5	238.1
25°	217.8	217.9	219.1	219.1	220.3	221.2	222.5	224.0	225.7	227.4	228.5
27.5°	205.7	206.2	207.0	207.4	208.3	209.9	211.0	212.7	214.5	215.9	217.1
30°	192.9	193.3	194.8	195.0	195.7	197.0	198.5	200.2	201.5	203.2	204.3
32.5°	179.5	180.6	181.5	182.2	182.4	184.4	185.2	186.4	187.9	189.6	190.7
35°	166.5	167.0	168.3	168.6	169.2	170.4	172.0	173.0	173.7	174.8	176.1
37.5°	152.7	154.1	154.4	155.6	155.8	156.9	157.7	158.8	159.8	160.8	161.0
40°	139.9	140.3	141.4	141.7	141.9	143.4	144.4	144.6	145.1	146.0	147.2
42.5°	126.8	127.3	128.5	128.2	129.1	129.8	130.3	131.4	131.9	132.2	132.2
45°	114.0	114.2	115.0	115.4	115.9	116.2	117.1	117.7	117.9	118.8	119.1
47.5°	101.8	101.9	102.5	103.2	103.0	103.5	104.5	104.8	104.9	105.5	105.8
50°	89.7	90.2	91.0	90.8	91.4	91.7	92.5	92.7	92.7	92.8	92.9
52.5°	78.4	78.8	79.0	79.2	79.5	80.0	80.4	80.2	80.6	81.0	80.7
55°	67.3	67.6	68.1	68.3	68.3	68.4	68.2	69.0	68.7	68.6	68.7
57.5°	57.1	56.7	56.6	57.1	57.3	57.2	56.9	57.3	57.3	57.1	56.8
60°	47.2	46.9	46.8	46.9	46.5	46.2	46.4	46.2	45.7	45.5	45.6
62.5°	38.2	37.9	37.1	37.1	36.9	36.8	36.0	36.1	35.7	35.2	35.4
65°	29.9	29.1	28.7	28.6	27.9	27.3	27.1	26.4	25.9	25.8	25.9
67.5°	22.4	21.5	20.9	20.6	20.2	19.7	19.0	18.4	18.6	18.5	18.9
70°	15.6	15.0	14.3	13.8	14.0	13.4	13.0	13.0	13.1	13.2	13.4
72.5°	10.4	9.6	9.3	9.0	8.8	8.4	8.6	8.6	8.5	8.6	8.4
75°	5.9	5.5	5.2	5.1	4.9	4.9	4.9	4.9	4.8	4.7	4.7
77.5°	2.6	2.4	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: P858777

CATALOG NUMBER: LX4C05D010 EX4C059027 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	260.8	260.8	260.8	260.8	260.8	260.8	260.8	260.8
2.5°	261.6	261.7	261.7	261.7	261.8	261.8	261.8	261.8
5°	260.9	261.0	261.0	261.0	261.1	261.1	261.1	261.1
7.5°	259.7	259.8	259.8	259.9	259.9	260.0	260.0	260.1
10°	258.4	258.5	258.6	258.7	258.8	258.9	258.9	259.0
12.5°	256.9	257.1	257.2	257.4	257.6	257.7	257.8	257.9
15°	254.7	255.1	255.3	255.4	255.8	256.0	256.1	256.2
17.5°	251.3	252.1	252.4	252.6	253.0	253.4	253.7	253.7
20°	246.4	247.3	247.7	248.2	248.8	249.2	249.4	249.6
22.5°	239.5	240.5	241.1	241.7	242.2	242.7	243.5	243.2
25°	229.8	231.4	232.1	232.4	233.5	234.1	234.5	234.1
27.5°	218.8	219.8	220.4	221.0	221.8	222.4	222.6	223.2
30°	205.6	207.2	207.1	207.8	208.8	209.4	209.6	210.1
32.5°	191.9	192.6	193.2	193.1	193.5	194.6	194.2	195.1
35°	177.3	177.4	178.3	178.2	179.0	179.0	179.0	179.6
37.5°	161.7	162.9	162.4	163.6	163.2	163.5	163.5	163.6
40°	147.5	147.9	147.9	148.3	148.6	148.3	148.5	149.0
42.5°	132.8	133.2	133.3	133.1	133.4	134.3	133.6	134.2
45°	119.1	119.4	119.8	119.5	120.0	119.7	120.0	119.8
47.5°	106.2	106.1	106.0	106.7	106.1	106.2	106.6	105.9
50°	92.9	93.5	93.1	93.4	93.6	93.6	93.3	93.3
52.5°	81.2	81.1	80.8	81.1	80.9	81.0	81.2	81.0
55°	69.0	69.4	69.2	69.1	69.2	69.2	69.8	69.0
57.5°	57.1	56.9	57.2	57.9	57.2	57.7	58.0	58.1
60°	45.7	45.7	46.3	46.0	46.6	47.1	47.5	47.3
62.5°	34.9	35.4	35.6	35.6	36.2	36.6	36.6	36.5
65°	25.9	26.5	26.5	26.9	27.1	27.1	27.3	27.7
67.5°	19.1	19.1	19.2	19.4	19.3	19.3	19.5	19.6
70°	13.3	13.1	13.4	13.3	13.3	13.2	13.3	13.3
72.5°	8.4	8.4	8.5	8.4	8.2	8.3	8.3	8.5
75°	4.5	4.7	4.5	4.5	4.6	4.4	4.5	4.6
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)