

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: P856820

Luminaire Tested: **LX4C10D010 EX4C109830 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P856820  
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: LX4C10D010 EX4C109830 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

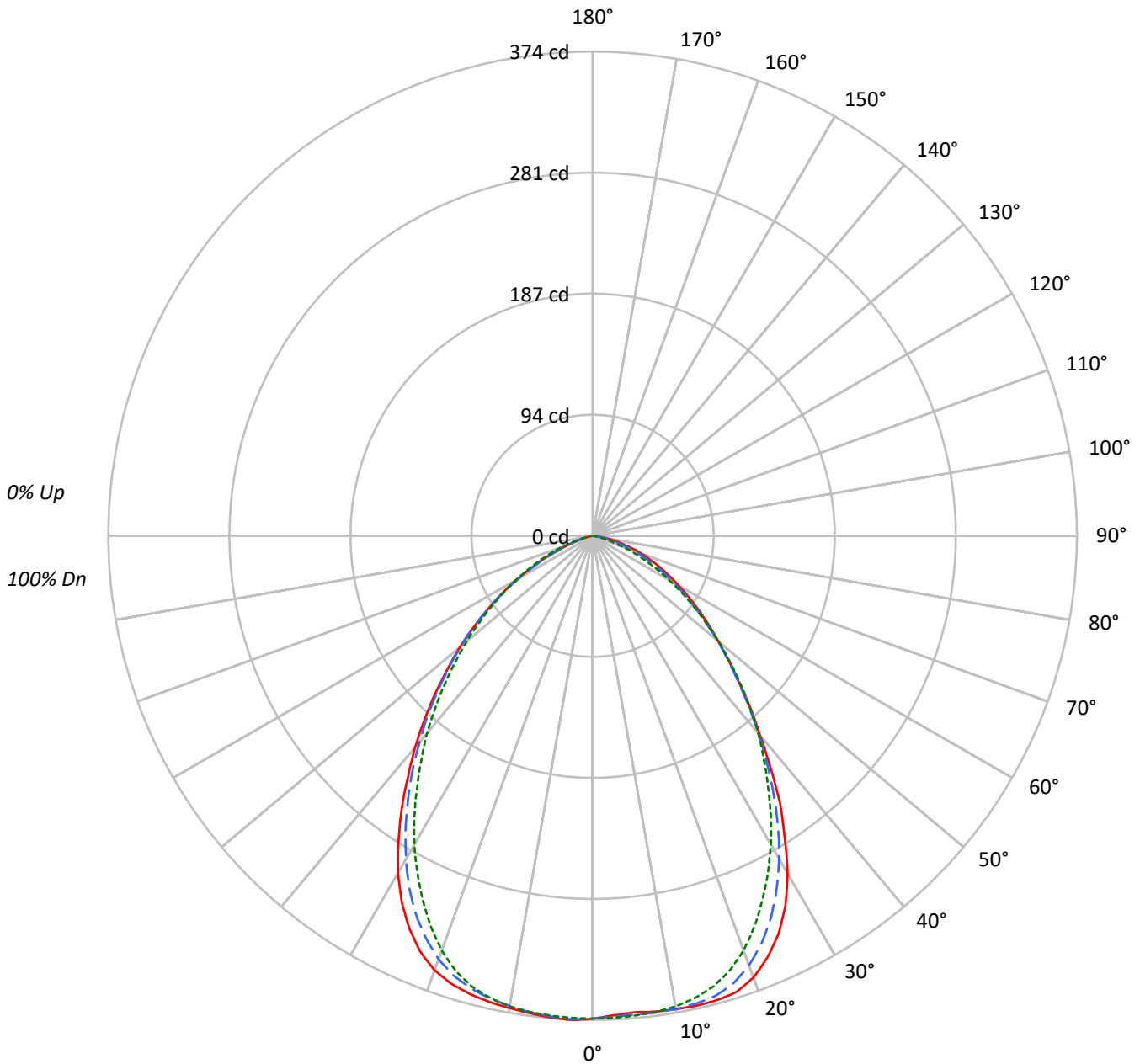
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 715.2 lumens  
Efficiency: N/A  
Efficacy: 73.0 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): 9.8  
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°	45824	45824	45824
5°	45568	45876	46061
10°	46319	46045	46219
15°	47225	45838	46601
20°	47471	44555	46687
25°	46007	42076	45383
30°	42714	39054	42629
35°	37824	35409	38529
40°	32235	31898	34160
45°	27694	28007	29762
50°	24158	24235	25515
55°	21355	20455	21140
60°	18723	16708	16634
65°	16570	12965	11541
70°	14117	8908	6861
75°	11440	4794	3133
80°	7853	1203	849
85°	2396	423	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	5.0
10°-20°	102.6	14.4
20°-30°	148.3	20.7
30°-40°	153.3	21.4
40°-50°	126.7	17.7
50°-60°	87.4	12.2
60°-70°	45.8	6.4
70°-80°	14.4	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°	286.4	40.0
0°-40°	439.7	61.5
0°-60°	653.8	91.4
0°-90°	715.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	373	373	373	373	373	
5°	370	371	372	373	374	35
15°	371	368	360	362	366	105
25°	339	326	310	323	335	155
35°	252	244	236	248	257	157
45°	159	159	161	169	171	124
55°	100	97	96	98	99	90
65°	57	52	45	37	40	56
75°	24	19	10	7	7	26
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°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	370.7	370.8	370.8	371.1	371.1	371.1	371.2	371.2	371.3	371.5	371.7
5°	369.5	369.5	369.8	370.0	370.3	370.3	370.7	370.8	371.1	371.2	371.3
7.5°	370.7	370.7	370.8	371.0	371.0	371.1	371.1	371.2	371.3	371.5	371.5
10°	371.3	371.3	371.3	371.3	371.5	371.5	371.5	371.3	371.3	371.3	371.2
12.5°	371.7	371.7	371.5	371.3	371.5	371.3	371.3	371.0	370.7	370.3	370.0
15°	371.3	371.3	371.2	371.1	371.0	370.7	370.5	369.8	369.3	368.4	367.8
17.5°	369.5	369.3	369.0	368.7	368.1	367.8	367.4	366.1	365.2	363.8	362.2
20°	363.1	362.8	362.4	361.7	361.0	360.4	359.6	357.8	356.8	354.6	353.1
22.5°	352.6	352.3	352.4	351.2	349.7	348.9	348.4	346.8	345.2	342.5	340.8
25°	339.4	338.6	338.6	336.6	335.9	335.4	334.7	332.8	330.3	327.9	325.7
27.5°	322.4	321.2	320.7	320.4	318.7	317.5	316.5	315.1	312.9	310.9	307.7
30°	301.1	300.9	300.2	298.9	297.7	297.1	296.0	293.7	291.7	290.1	288.1
32.5°	276.0	275.8	275.8	275.8	275.0	274.8	273.1	271.9	270.4	268.0	266.7
35°	252.2	252.0	252.2	250.0	249.5	249.1	248.9	248.1	245.9	244.9	243.7
37.5°	225.3	225.7	225.4	224.8	225.5	224.3	225.3	223.5	222.6	222.3	221.1
40°	201.0	202.2	201.0	201.2	201.9	200.6	200.6	200.3	199.8	199.5	199.2
42.5°	180.3	178.9	179.7	179.1	179.7	179.3	178.6	179.1	179.2	178.6	178.4
45°	159.4	159.7	160.0	159.5	159.5	159.2	160.2	159.5	159.5	159.7	158.7
47.5°	142.5	142.1	142.3	142.1	142.1	141.9	142.1	142.3	142.1	142.1	141.2
50°	126.4	126.2	127.2	126.4	126.4	126.2	126.4	126.1	125.6	125.6	125.9
52.5°	112.6	112.1	111.9	112.6	111.6	111.6	111.8	111.5	110.9	110.7	110.0
55°	99.7	99.6	99.7	99.2	98.9	98.9	98.2	97.9	97.7	97.1	96.7
57.5°	87.7	87.3	87.4	87.3	86.7	86.6	86.1	86.1	85.4	84.9	84.2
60°	76.2	76.2	76.6	76.1	75.6	75.4	75.1	74.8	73.8	72.9	72.0
62.5°	66.0	66.1	66.0	65.5	65.3	65.0	64.7	63.8	63.0	62.5	61.5
65°	57.0	56.9	56.4	56.2	55.5	55.5	54.9	54.5	53.5	52.7	51.7
67.5°	47.8	47.5	47.5	47.5	46.6	46.5	46.2	45.4	44.6	43.4	42.6
70°	39.3	39.7	39.2	38.8	38.3	38.3	37.8	37.0	36.0	34.9	34.2
72.5°	31.4	31.7	31.2	31.1	30.2	30.0	29.9	29.2	28.0	27.3	26.2
75°	24.1	24.3	24.0	23.6	23.1	23.0	22.3	21.7	21.0	19.9	18.9
77.5°	17.4	17.1	17.1	16.5	16.0	16.0	15.9	15.0	14.0	13.2	12.3
80°	11.1	11.0	10.5	10.3	9.8	9.6	9.5	8.8	8.1	7.6	7.0
82.5°	5.6	5.4	5.4	5.2	4.9	4.6	4.7	4.2	3.9	3.4	2.9
85°	1.7	1.8	1.8	1.7	1.5	1.5	1.5	1.4	1.2	1.0	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	371.8	371.9	372.0	372.2	372.2	372.3	372.5	372.7	372.7	372.7	372.9
5°	371.5	371.8	371.8	371.9	371.9	371.9	372.0	372.0	372.0	372.0	372.2
7.5°	371.7	371.7	371.7	371.5	371.5	371.3	371.3	371.3	371.1	371.1	371.1
10°	371.0	370.8	370.7	370.3	370.3	370.1	369.8	369.5	369.3	369.1	368.8
12.5°	369.5	369.0	368.4	367.8	367.6	367.4	366.9	366.4	366.1	365.6	365.3
15°	366.8	365.9	364.9	363.8	363.5	363.2	362.2	361.4	360.9	360.4	359.7
17.5°	361.2	359.5	358.3	356.6	356.0	355.6	354.1	353.3	352.3	352.1	351.4
20°	351.2	349.7	347.5	346.0	345.2	344.3	343.1	341.9	340.8	340.8	340.1
22.5°	338.7	336.7	334.1	332.2	332.0	330.3	329.2	327.9	327.5	326.6	326.6
25°	323.0	321.4	318.4	316.7	315.9	315.5	313.6	311.9	311.1	310.4	311.0
27.5°	305.7	303.1	300.9	298.8	298.1	297.2	295.6	294.9	293.3	293.2	293.0
30°	285.8	283.2	281.0	280.0	278.6	278.0	276.6	275.8	275.3	275.3	275.0
32.5°	264.9	262.6	261.5	259.4	258.7	257.7	256.9	256.1	256.4	256.1	256.2
35°	242.4	241.8	239.7	238.5	238.5	238.3	236.8	236.3	236.0	236.1	236.8
37.5°	220.9	219.2	217.9	217.0	217.7	216.9	216.7	216.7	217.6	217.0	218.1
40°	198.1	198.0	197.3	197.6	197.8	196.8	197.1	197.3	197.8	198.9	199.0
42.5°	178.2	178.1	178.1	178.1	177.7	177.2	177.7	178.7	178.6	179.4	180.1
45°	159.0	158.7	159.3	158.8	159.7	160.0	159.5	159.8	160.7	161.2	162.4
47.5°	141.5	141.5	141.6	141.9	141.1	141.8	142.1	142.6	143.0	143.3	143.8
50°	125.2	125.2	124.9	124.9	124.9	125.4	124.8	125.5	125.6	126.8	127.4
52.5°	110.2	109.5	110.0	109.7	109.1	108.9	109.1	109.2	110.1	110.4	111.2
55°	96.0	96.0	94.8	94.5	95.0	94.8	94.7	94.7	95.1	95.5	96.2
57.5°	83.4	82.5	81.7	81.5	81.1	81.2	81.2	81.1	80.8	81.0	81.1
60°	71.4	70.9	69.6	69.6	69.5	69.4	68.7	68.5	67.8	68.0	67.4
62.5°	60.5	60.2	58.6	58.0	58.0	57.6	56.9	56.7	55.7	55.7	55.2
65°	50.7	49.8	48.9	47.9	47.9	47.4	46.9	45.7	44.9	44.6	43.7
67.5°	41.7	40.5	39.5	38.7	38.1	38.0	37.0	36.1	35.0	34.3	33.1
70°	33.1	32.1	31.1	30.2	29.7	29.2	28.2	26.9	26.0	24.8	24.0
72.5°	25.0	24.1	23.3	22.1	21.4	21.0	20.1	18.9	17.5	16.7	15.5
75°	17.9	16.9	15.9	14.9	14.4	14.0	12.9	12.0	11.1	10.1	9.0
77.5°	11.6	10.5	9.6	8.6	8.4	8.1	7.0	6.2	5.4	4.9	4.2
80°	6.2	5.6	4.9	4.2	3.9	3.5	2.9	2.5	2.1	1.7	1.4
82.5°	2.7	2.2	1.8	1.5	1.4	1.2	1.0	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	0.2	0.2	0.2	0.0	0.2	0.2	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°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	373.0	373.2	373.3	373.3	373.5	373.6	373.6	373.7	373.9	374.0	374.0
5°	372.3	372.3	372.3	372.5	372.5	372.5	372.5	372.7	372.7	372.9	373.0
7.5°	371.0	371.0	371.0	371.0	370.8	371.0	370.8	370.8	371.1	371.2	371.3
10°	368.7	368.6	368.6	368.4	368.4	368.4	368.6	368.7	368.8	369.0	369.4
12.5°	365.2	365.1	365.1	364.9	364.9	365.1	365.2	365.4	366.1	366.3	366.9
15°	359.6	359.5	359.6	359.7	360.0	360.4	360.9	361.2	362.1	362.8	363.5
17.5°	351.4	351.6	351.7	352.1	352.4	353.0	354.1	355.3	356.3	357.3	358.5
20°	340.3	340.8	340.9	341.9	342.3	343.5	344.7	346.4	348.0	349.4	350.9
22.5°	326.8	327.3	327.8	328.9	329.6	331.3	332.8	334.8	336.5	338.3	340.6
25°	311.6	311.7	313.4	313.4	315.1	316.5	318.3	320.4	322.9	325.3	326.8
27.5°	294.2	294.9	296.1	296.7	297.9	300.2	301.8	304.3	306.8	308.9	310.6
30°	276.0	276.5	278.6	278.9	279.9	281.9	283.9	286.3	288.3	290.7	292.2
32.5°	256.7	258.3	259.6	260.6	260.8	263.8	264.9	266.5	268.8	271.2	272.7
35°	238.1	238.8	240.7	241.2	242.0	243.7	245.9	247.4	248.5	250.0	251.8
37.5°	218.4	220.5	220.9	222.6	222.8	224.5	225.5	227.2	228.6	230.0	230.3
40°	200.0	200.7	202.2	202.7	203.0	205.1	206.4	206.9	207.6	208.8	210.5
42.5°	181.4	182.1	183.8	183.3	184.6	185.6	186.3	188.0	188.7	189.1	189.1
45°	163.0	163.4	164.4	165.0	165.7	166.3	167.6	168.4	168.6	169.9	170.3
47.5°	145.5	145.8	146.7	147.7	147.4	148.0	149.5	149.9	150.0	150.9	151.3
50°	128.3	129.0	130.1	129.8	130.7	131.1	132.3	132.7	132.7	132.8	133.0
52.5°	112.2	112.8	113.1	113.3	113.8	114.4	115.0	114.8	115.3	115.8	115.4
55°	96.2	96.7	97.4	97.6	97.6	97.7	97.5	98.7	98.2	98.1	98.2
57.5°	81.7	81.1	81.0	81.7	82.0	81.8	81.4	82.0	82.0	81.7	81.2
60°	67.5	67.1	67.0	67.1	66.5	66.1	66.4	66.1	65.5	65.1	65.3
62.5°	54.7	54.2	53.1	53.1	52.8	52.7	51.5	51.7	51.1	50.3	50.6
65°	42.7	41.6	41.0	40.9	40.0	39.1	38.8	37.8	37.0	36.8	37.0
67.5°	32.1	30.9	29.9	29.4	28.9	28.2	27.2	26.3	26.6	26.5	27.0
70°	22.3	21.4	20.4	19.7	20.1	19.2	18.6	18.6	18.7	18.9	19.2
72.5°	14.9	13.7	13.3	12.9	12.6	12.0	12.3	12.3	12.2	12.3	12.0
75°	8.4	7.8	7.4	7.3	7.0	7.0	7.0	7.0	6.9	6.7	6.7
77.5°	3.7	3.5	3.4	3.2	3.2	3.2	3.1	2.9	2.9	2.9	2.8
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°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	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: P856820

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	374.2	374.3	374.3	374.3	374.4	374.4	374.4	374.4
5°	373.2	373.3	373.3	373.3	373.5	373.5	373.5	373.5
7.5°	371.5	371.7	371.7	371.8	371.8	371.9	371.9	372.0
10°	369.5	369.8	370.0	370.1	370.3	370.3	370.3	370.5
12.5°	367.4	367.8	367.8	368.1	368.4	368.6	368.7	368.8
15°	364.4	364.9	365.2	365.3	365.9	366.1	366.3	366.4
17.5°	359.5	360.5	361.0	361.2	361.9	362.4	362.8	362.9
20°	352.4	353.7	354.3	355.0	355.8	356.5	356.8	357.1
22.5°	342.6	344.0	344.8	345.7	346.4	347.2	348.2	347.8
25°	328.6	331.0	332.0	332.4	334.0	334.8	335.4	334.8
27.5°	312.9	314.3	315.1	316.1	317.3	318.1	318.4	319.2
30°	294.0	296.4	296.2	297.2	298.6	299.5	299.8	300.5
32.5°	274.4	275.5	276.4	276.3	276.8	278.3	277.8	279.0
35°	253.5	253.7	255.1	254.9	256.1	256.1	256.1	256.9
37.5°	231.3	232.9	232.2	233.9	233.4	233.8	233.8	234.1
40°	211.0	211.5	211.5	212.1	212.5	212.1	212.3	213.0
42.5°	189.9	190.5	190.7	190.4	190.8	192.1	191.1	191.9
45°	170.3	170.8	171.3	170.9	171.6	171.2	171.6	171.3
47.5°	151.9	151.7	151.6	152.7	151.7	151.9	152.4	151.4
50°	133.0	133.8	133.2	133.7	133.9	133.9	133.5	133.5
52.5°	116.1	116.0	115.6	116.0	115.7	115.8	116.1	115.8
55°	98.7	99.3	99.1	98.9	99.1	99.1	99.9	98.7
57.5°	81.7	81.4	81.8	82.8	81.8	82.5	82.9	83.1
60°	65.5	65.5	66.3	65.8	66.7	67.4	68.0	67.7
62.5°	49.8	50.6	50.8	51.0	51.8	52.4	52.4	52.3
65°	37.0	38.0	38.0	38.5	38.8	38.8	39.1	39.7
67.5°	27.3	27.3	27.5	27.7	27.6	27.6	27.9	28.0
70°	19.1	18.7	19.2	19.1	19.1	18.9	19.1	19.1
72.5°	12.0	12.0	12.2	12.0	11.8	11.9	11.9	12.2
75°	6.4	6.7	6.4	6.4	6.6	6.3	6.4	6.6
77.5°	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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	0.2	0.0	0.2	0.0	0.0	0.0	0.2
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)