

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: P856807

Luminaire Tested: **LX4C10D010 EX4C109827 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P856807  
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 EX4C109827 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

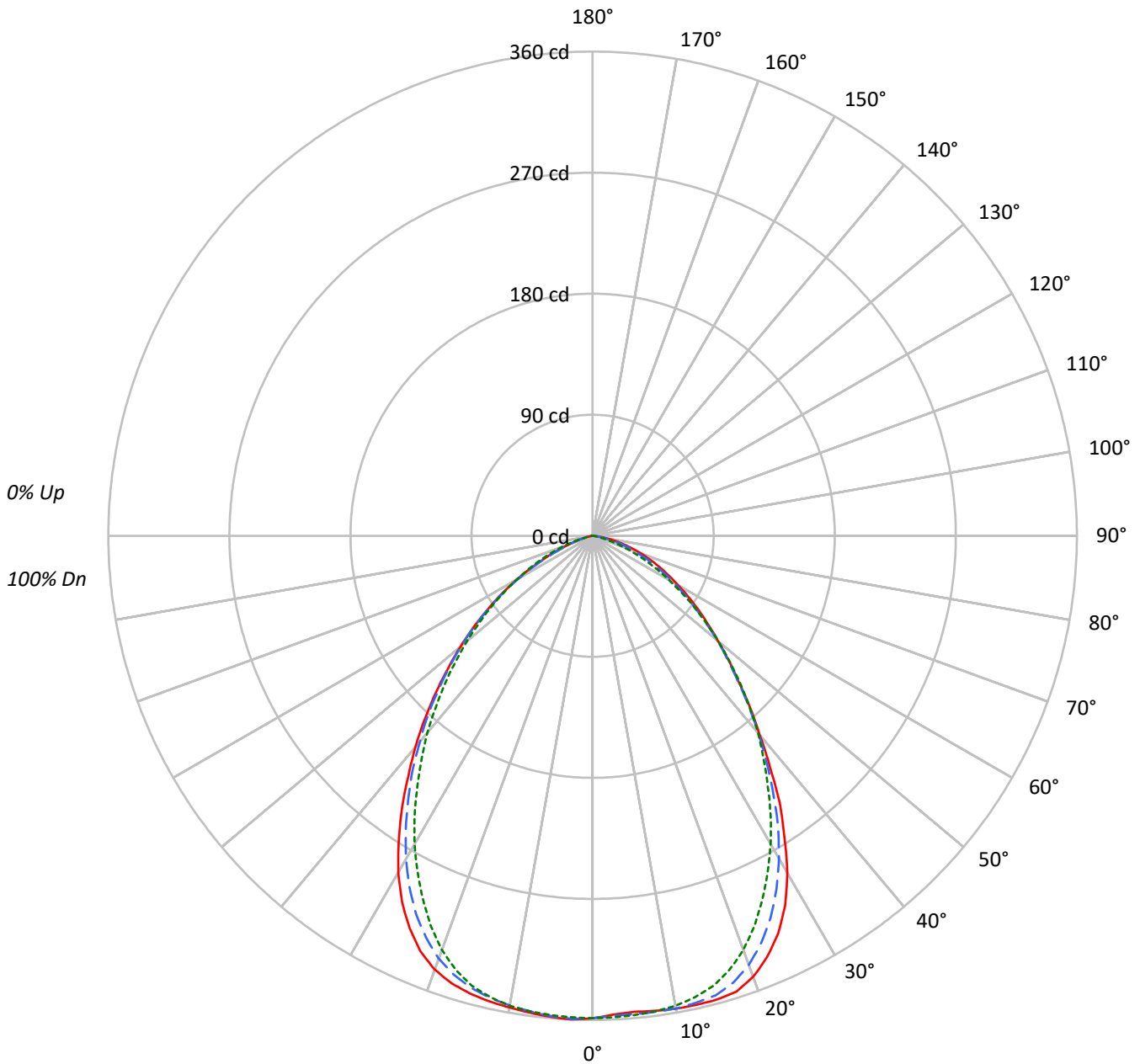
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 687.5 lumens  
Efficiency: N/A  
Efficacy: 70.2 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): 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

TEST NUMBER: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

### 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°	44068	44068	44068
5°	43817	44113	44273
10°	44535	44261	44435
15°	45406	44070	44808
20°	45628	42830	44869
25°	44231	40449	43621
30°	41054	37536	40969
35°	36354	34045	37044
40°	30984	30663	32845
45°	26635	26930	28615
50°	23241	23298	24521
55°	20541	19663	20348
60°	18010	16045	15971
65°	15930	12442	11076
70°	13578	8549	6573
75°	11012	4604	2990
80°	7499	1132	778
85°	2255	423	423



TEST NUMBER: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.1	5.0
10°-20°	98.7	14.4
20°-30°	142.6	20.7
30°-40°	147.4	21.4
40°-50°	121.8	17.7
50°-60°	84.0	12.2
60°-70°	44.0	6.4
70°-80°	13.9	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°	275.3	40.0
0°-40°	422.7	61.5
0°-60°	628.5	91.4
0°-90°	687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	359	359	359	359	359	
5°	355	357	358	358	359	34
15°	357	354	346	348	352	101
25°	326	313	298	310	322	149
35°	242	234	227	239	247	150
45°	153	153	155	162	165	119
55°	96	93	92	94	95	86
65°	55	50	43	36	38	54
75°	23	18	10	7	6	25
85°	2	1	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	356.3	356.4	356.4	356.7	356.7	356.7	356.9	356.9	357.0	357.1	357.2
5°	355.3	355.3	355.5	355.6	355.9	356.1	356.3	356.4	356.7	356.9	357.0
7.5°	356.3	356.3	356.4	356.6	356.6	356.7	356.7	356.9	357.0	357.1	357.1
10°	357.0	357.0	357.0	357.0	357.1	357.1	357.1	357.0	357.0	357.0	356.9
12.5°	357.2	357.2	357.1	357.0	357.1	357.0	357.0	356.6	356.3	356.1	355.6
15°	357.0	357.0	356.9	356.7	356.6	356.3	356.2	355.5	355.0	354.2	353.7
17.5°	355.3	355.0	354.7	354.5	353.9	353.5	353.2	352.1	351.1	349.7	348.2
20°	349.0	348.8	348.4	347.7	347.1	346.5	345.7	343.9	343.0	341.0	339.5
22.5°	339.0	338.7	338.9	337.6	336.3	335.5	334.9	333.4	331.8	329.2	327.6
25°	326.3	325.5	325.5	323.6	322.9	322.4	321.7	320.0	317.5	315.2	313.1
27.5°	309.9	308.8	308.3	308.0	306.4	305.2	304.2	302.8	300.9	298.8	295.9
30°	289.4	289.3	288.6	287.4	286.2	285.6	284.6	282.2	280.4	278.9	277.0
32.5°	265.3	265.1	265.1	265.1	264.3	264.2	262.6	261.4	259.9	257.6	256.4
35°	242.4	242.3	242.4	240.4	239.9	239.4	239.3	238.5	236.5	235.4	234.3
37.5°	216.5	217.0	216.7	216.2	216.8	215.6	216.5	214.8	214.0	213.8	212.5
40°	193.2	194.3	193.2	193.4	194.0	192.9	192.9	192.6	192.0	191.7	191.5
42.5°	173.4	171.9	172.8	172.1	172.8	172.4	171.7	172.1	172.2	171.7	171.6
45°	153.3	153.6	153.8	153.4	153.4	153.0	154.1	153.4	153.4	153.6	152.6
47.5°	137.0	136.5	136.8	136.5	136.7	136.4	136.7	136.8	136.5	136.5	135.7
50°	121.6	121.4	122.3	121.5	121.5	121.4	121.5	121.2	120.8	120.8	121.1
52.5°	108.3	107.7	107.6	108.3	107.4	107.4	107.5	107.2	106.7	106.4	105.7
55°	95.9	95.8	95.9	95.3	95.1	95.1	94.4	94.2	94.0	93.4	92.9
57.5°	84.3	83.9	84.0	83.9	83.4	83.2	82.7	82.7	82.1	81.6	81.0
60°	73.3	73.3	73.7	73.1	72.7	72.4	72.1	71.9	71.0	70.0	69.2
62.5°	63.4	63.6	63.4	63.0	62.8	62.5	62.2	61.4	60.6	60.1	59.1
65°	54.8	54.7	54.3	54.0	53.3	53.3	52.8	52.3	51.5	50.7	49.7
67.5°	45.9	45.7	45.7	45.7	44.9	44.7	44.4	43.6	42.8	41.7	40.9
70°	37.8	38.1	37.7	37.3	36.9	36.7	36.4	35.6	34.6	33.5	32.8
72.5°	30.1	30.4	30.1	29.9	29.1	28.8	28.7	28.0	26.9	26.2	25.1
75°	23.2	23.3	23.0	22.7	22.2	22.1	21.4	20.9	20.2	19.1	18.2
77.5°	16.7	16.4	16.4	15.9	15.3	15.3	15.2	14.4	13.5	12.7	11.9
80°	10.6	10.5	10.1	9.8	9.5	9.3	9.2	8.5	7.8	7.3	6.8
82.5°	5.4	5.3	5.1	5.0	4.7	4.5	4.5	4.0	3.7	3.2	2.9
85°	1.6	1.8	1.8	1.6	1.5	1.5	1.5	1.3	1.1	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



TEST NUMBER: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	357.4	357.5	357.7	357.8	357.8	357.9	358.0	358.2	358.4	358.4	358.5
5°	357.1	357.4	357.4	357.5	357.5	357.5	357.7	357.7	357.7	357.7	357.8
7.5°	357.2	357.2	357.2	357.1	357.1	357.0	357.0	357.0	356.7	356.7	356.7
10°	356.6	356.4	356.3	356.1	355.9	355.8	355.5	355.3	355.0	354.8	354.6
12.5°	355.3	354.7	354.2	353.7	353.4	353.2	352.7	352.3	351.9	351.4	351.2
15°	352.6	351.8	350.8	349.7	349.5	349.2	348.2	347.4	346.9	346.5	345.8
17.5°	347.2	345.5	344.5	342.9	342.2	341.9	340.5	339.7	338.7	338.4	337.9
20°	337.6	336.1	334.1	332.6	331.8	331.0	329.8	328.7	327.6	327.6	327.0
22.5°	325.7	323.7	321.2	319.3	319.2	317.5	316.5	315.2	314.9	314.1	314.1
25°	310.5	308.9	306.1	304.4	303.6	303.3	301.5	299.9	299.1	298.4	299.0
27.5°	293.8	291.4	289.3	287.2	286.6	285.8	284.1	283.5	282.0	281.9	281.7
30°	274.7	272.3	270.1	269.2	267.9	267.2	266.0	265.1	264.6	264.6	264.3
32.5°	254.7	252.5	251.4	249.4	248.7	247.8	247.0	246.2	246.5	246.2	246.3
35°	233.0	232.5	230.4	229.2	229.2	229.1	227.8	227.2	226.9	227.0	227.8
37.5°	212.4	210.7	209.4	208.6	209.3	208.5	208.3	208.3	209.1	208.6	209.6
40°	190.4	190.3	189.8	190.0	190.1	189.2	189.5	189.6	190.1	191.2	191.4
42.5°	171.3	171.1	171.1	171.1	170.9	170.3	170.9	171.8	171.7	172.5	173.2
45°	152.8	152.6	153.1	152.8	153.6	153.8	153.4	153.6	154.4	155.0	156.1
47.5°	136.0	136.0	136.2	136.4	135.6	136.3	136.5	137.1	137.5	137.8	138.3
50°	120.4	120.4	120.1	120.1	120.1	120.6	120.0	120.7	120.8	121.9	122.5
52.5°	105.9	105.3	105.7	105.4	104.9	104.6	104.9	105.0	105.8	106.1	106.9
55°	92.2	92.2	91.1	90.9	91.3	91.1	91.0	91.0	91.4	91.8	92.5
57.5°	80.2	79.3	78.5	78.4	77.9	78.1	78.1	77.9	77.7	77.8	77.9
60°	68.7	68.1	67.0	67.0	66.8	66.7	66.0	65.8	65.2	65.3	64.7
62.5°	58.1	57.9	56.3	55.7	55.7	55.4	54.7	54.6	53.6	53.6	53.1
65°	48.8	48.0	47.0	46.0	46.0	45.5	45.1	43.9	43.2	42.8	42.0
67.5°	40.1	38.9	38.0	37.2	36.7	36.5	35.6	34.8	33.7	33.0	31.7
70°	31.7	30.9	29.9	29.1	28.5	28.0	27.1	25.9	25.1	23.8	23.0
72.5°	24.0	23.2	22.4	21.3	20.6	20.2	19.3	18.2	16.9	16.1	15.0
75°	17.2	16.3	15.2	14.3	13.9	13.5	12.4	11.6	10.6	9.7	8.6
77.5°	11.1	10.1	9.3	8.2	8.1	7.8	6.8	5.9	5.3	4.7	4.0
80°	5.9	5.4	4.7	4.0	3.7	3.4	2.9	2.4	2.1	1.6	1.3
82.5°	2.6	2.1	1.8	1.5	1.3	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



TEST NUMBER: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	358.7	358.7	358.9	358.9	359.0	359.2	359.2	359.3	359.5	359.6	359.6
5°	357.9	357.9	357.9	358.0	358.0	358.0	358.0	358.4	358.4	358.5	358.7
7.5°	356.6	356.6	356.6	356.6	356.4	356.6	356.4	356.4	356.7	356.9	357.0
10°	354.5	354.3	354.3	354.2	354.2	354.2	354.3	354.5	354.6	354.7	355.1
12.5°	351.1	350.9	350.9	350.8	350.8	350.9	351.1	351.3	351.9	352.1	352.7
15°	345.7	345.5	345.7	345.8	346.1	346.5	346.9	347.3	348.1	348.8	349.5
17.5°	337.9	338.0	338.1	338.4	338.9	339.4	340.5	341.5	342.4	343.5	344.6
20°	327.1	327.6	327.8	328.7	329.0	330.2	331.4	333.1	334.5	335.8	337.3
22.5°	314.2	314.6	315.1	316.2	316.8	318.4	320.0	321.8	323.4	325.2	327.4
25°	299.5	299.6	301.2	301.2	302.8	304.2	306.0	308.0	310.4	312.7	314.2
27.5°	282.8	283.5	284.6	285.2	286.4	288.6	290.1	292.5	294.9	297.0	298.6
30°	265.3	265.8	267.9	268.1	269.0	270.9	273.0	275.3	277.2	279.5	280.9
32.5°	246.8	248.4	249.5	250.5	250.8	253.6	254.7	256.3	258.4	260.7	262.2
35°	228.9	229.6	231.3	231.9	232.7	234.3	236.5	237.8	238.9	240.4	242.1
37.5°	209.9	212.0	212.4	214.0	214.3	215.7	216.8	218.4	219.8	221.2	221.4
40°	192.3	193.0	194.5	194.8	195.1	197.2	198.5	198.9	199.6	200.8	202.4
42.5°	174.4	175.0	176.7	176.3	177.5	178.4	179.1	180.8	181.4	181.8	181.8
45°	156.8	157.0	158.1	158.6	159.4	159.9	161.0	161.9	162.1	163.4	163.7
47.5°	139.9	140.2	141.0	142.0	141.7	142.3	143.7	144.1	144.2	145.0	145.4
50°	123.3	124.0	125.1	124.8	125.6	126.0	127.3	127.5	127.5	127.7	127.8
52.5°	107.9	108.4	108.7	109.0	109.3	110.0	110.6	110.3	110.8	111.4	110.9
55°	92.5	92.9	93.6	93.9	93.9	94.0	93.7	95.0	94.4	94.3	94.4
57.5°	78.5	77.9	77.8	78.5	78.7	78.7	78.2	78.7	78.7	78.5	78.1
60°	64.9	64.5	64.4	64.5	63.9	63.6	63.8	63.6	62.9	62.6	62.8
62.5°	52.5	52.1	51.0	51.0	50.7	50.7	49.6	49.7	49.1	48.3	48.6
65°	41.1	40.0	39.4	39.3	38.3	37.5	37.3	36.4	35.6	35.4	35.6
67.5°	30.9	29.6	28.7	28.3	27.7	27.1	26.1	25.3	25.6	25.4	25.9
70°	21.4	20.6	19.6	19.0	19.3	18.5	17.9	17.9	18.0	18.2	18.5
72.5°	14.3	13.2	12.8	12.4	12.1	11.6	11.9	11.9	11.7	11.9	11.6
75°	8.1	7.6	7.1	7.0	6.8	6.8	6.8	6.8	6.6	6.4	6.4
77.5°	3.7	3.4	3.2	3.1	3.1	3.1	2.9	2.9	2.9	2.9	2.7
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: P856807

CATALOG NUMBER: LX4C10D010 EX4C109827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	359.7	359.8	359.8	359.8	360.0	360.0	360.0	360.0
5°	358.7	358.9	358.9	358.9	359.0	359.0	359.0	359.0
7.5°	357.1	357.2	357.2	357.4	357.4	357.5	357.5	357.7
10°	355.3	355.5	355.6	355.8	355.9	356.1	356.1	356.2
12.5°	353.2	353.5	353.7	353.9	354.2	354.3	354.5	354.6
15°	350.3	350.8	351.1	351.2	351.8	352.1	352.1	352.3
17.5°	345.5	346.6	347.1	347.3	347.9	348.4	348.8	348.9
20°	338.9	340.0	340.6	341.3	342.1	342.7	343.0	343.2
22.5°	329.4	330.7	331.5	332.4	333.1	333.7	334.8	334.4
25°	315.9	318.2	319.2	319.6	321.0	321.8	322.4	321.8
27.5°	300.9	302.2	303.0	303.9	305.0	305.9	306.1	306.9
30°	282.7	284.9	284.8	285.8	287.1	287.9	288.2	288.8
32.5°	263.8	264.8	265.7	265.6	266.1	267.6	267.1	268.2
35°	243.7	243.9	245.2	245.1	246.2	246.2	246.2	247.0
37.5°	222.3	223.9	223.3	224.9	224.4	224.7	224.7	225.0
40°	202.8	203.3	203.3	203.9	204.3	203.9	204.1	204.8
42.5°	182.6	183.2	183.3	183.0	183.4	184.6	183.7	184.5
45°	163.7	164.2	164.7	164.3	165.0	164.5	165.0	164.7
47.5°	146.0	145.8	145.7	146.8	145.8	146.0	146.5	145.5
50°	127.8	128.6	128.1	128.5	128.8	128.8	128.3	128.3
52.5°	111.6	111.5	111.1	111.5	111.2	111.4	111.6	111.4
55°	95.0	95.5	95.2	95.1	95.2	95.2	96.0	95.0
57.5°	78.5	78.2	78.7	79.5	78.7	79.3	79.7	79.9
60°	62.9	62.9	63.7	63.3	64.1	64.7	65.3	65.0
62.5°	48.0	48.6	48.9	49.0	49.8	50.4	50.4	50.2
65°	35.6	36.5	36.5	37.0	37.3	37.3	37.5	38.1
67.5°	26.2	26.2	26.4	26.7	26.5	26.5	26.8	26.9
70°	18.3	18.0	18.5	18.3	18.3	18.2	18.3	18.3
72.5°	11.6	11.6	11.7	11.6	11.3	11.4	11.4	11.7
75°	6.2	6.4	6.2	6.2	6.3	6.1	6.2	6.3
77.5°	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1
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)