

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: P856821

Luminaire Tested: **LX4C10D010 EX4C109830 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P856821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109830 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

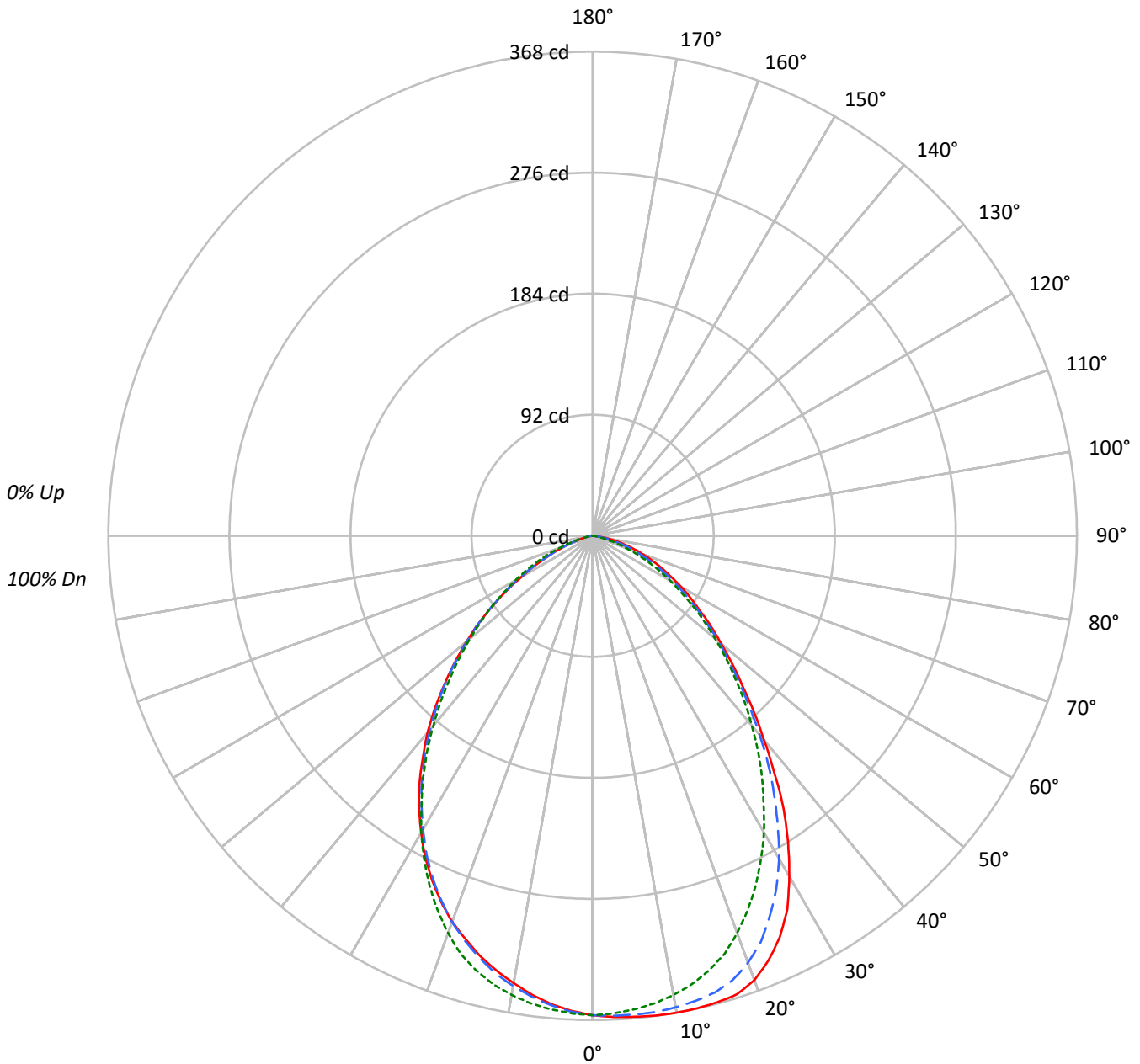
Lumens per Lamp: N/A
Luminaire Lumens: 686.6 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

TEST NUMBER: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P856821

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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	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44768	44768	44768
5°	45259	44569	44088
10°	45920	44198	43076
15°	46678	43485	42048
20°	46974	42006	40803
25°	45627	39744	39134
30°	42402	36940	36954
35°	37959	33670	34390
40°	32492	30182	31273
45°	27972	26617	27607
50°	24330	23164	23853
55°	21397	19920	19748
60°	19042	16634	15308
65°	16686	13314	11076
70°	14368	9411	7507
75°	11629	5459	4414
80°	8348	2405	2193
85°	3101	987	987



TEST NUMBER: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	5.0
10°-20°	97.2	14.2
20°-30°	138.8	20.2
30°-40°	145.2	21.1
40°-50°	121.7	17.7
50°-60°	85.1	12.4
60°-70°	46.4	6.8
70°-80°	16.1	2.3
80°-90°	1.9	0.3
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°	270.3	39.4
0°-40°	415.5	60.5
0°-60°	622.3	90.6
0°-90°	686.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	364	364	364	364	364	
5°	367	365	361	358	358	35
15°	367	359	342	332	331	104
25°	337	319	293	287	289	154
35°	253	241	224	226	229	157
45°	161	157	153	158	159	125
55°	100	97	93	93	92	90
65°	57	52	46	38	38	57
75°	24	20	12	9	9	26
85°	2	1	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	366.1	365.6	365.8	365.8	365.8	365.6	365.8	365.6	365.6	365.4	365.2
5°	367.0	366.8	366.8	366.8	366.6	366.4	366.4	366.3	366.1	365.9	365.3
7.5°	367.8	367.4	367.4	367.3	367.1	367.0	366.9	366.4	366.1	365.8	365.1
10°	368.1	367.8	367.8	367.4	367.1	367.0	366.8	366.1	365.6	364.9	363.9
12.5°	367.8	367.4	367.3	367.0	366.4	366.1	365.9	365.2	364.2	363.2	362.0
15°	367.0	366.8	366.4	366.1	365.3	364.9	364.6	363.5	362.2	360.9	359.3
17.5°	365.3	364.9	364.4	363.8	362.8	362.4	361.7	360.3	358.5	356.5	354.1
20°	359.3	359.0	358.5	357.5	356.0	355.4	354.4	352.6	350.2	347.8	345.3
22.5°	349.4	348.9	348.1	347.2	345.8	344.8	344.0	341.5	338.9	336.4	334.0
25°	336.6	336.2	335.0	334.0	332.5	330.8	330.0	328.1	325.4	322.2	318.7
27.5°	320.2	318.8	318.4	317.1	315.1	314.4	313.2	310.7	308.2	305.3	302.4
30°	298.9	298.9	298.1	297.5	295.5	295.0	293.6	290.9	289.5	285.6	283.4
32.5°	276.4	276.1	275.4	274.9	273.9	272.9	271.4	270.0	267.0	265.0	261.9
35°	253.1	251.4	251.6	250.8	250.1	249.0	248.9	247.4	244.5	243.4	240.6
37.5°	226.6	225.9	226.9	225.6	224.9	225.1	223.9	222.9	221.9	219.9	219.3
40°	202.6	203.2	203.0	201.9	202.5	201.8	200.6	199.7	199.1	197.9	197.4
42.5°	181.2	180.3	180.0	180.0	180.2	180.2	179.7	179.0	179.0	177.7	176.4
45°	161.0	161.0	160.7	161.6	160.3	160.3	159.9	159.7	159.2	158.9	157.4
47.5°	143.7	143.5	143.4	143.2	143.0	143.0	142.2	141.5	141.4	140.5	139.7
50°	127.3	128.1	127.8	127.1	126.8	127.0	126.4	126.0	125.8	124.4	124.6
52.5°	113.5	113.3	113.6	113.3	112.5	112.6	112.1	111.6	111.0	110.3	109.7
55°	99.9	100.6	100.3	99.9	99.8	99.5	99.1	98.4	98.3	96.7	96.6
57.5°	88.5	88.5	88.1	87.5	87.3	86.9	86.9	86.3	85.5	84.6	83.9
60°	77.5	77.5	77.0	77.0	76.3	76.2	76.1	75.5	74.5	73.8	72.8
62.5°	66.9	67.1	66.9	66.4	66.0	65.5	65.2	64.7	63.9	63.2	62.2
65°	57.4	57.3	57.2	56.6	56.4	55.9	55.7	54.9	54.1	53.5	52.4
67.5°	48.5	48.1	48.1	47.8	47.5	47.1	46.8	45.9	44.9	44.4	43.3
70°	40.0	39.7	39.7	39.7	39.0	38.5	38.4	38.0	36.6	36.0	34.9
72.5°	32.1	31.9	31.8	31.4	30.9	30.9	30.4	29.6	28.9	28.2	27.3
75°	24.5	24.8	24.5	24.0	23.8	23.5	23.1	22.4	21.8	20.9	19.9
77.5°	17.9	17.7	17.4	17.4	17.1	16.5	16.4	15.9	15.0	14.4	13.5
80°	11.8	11.6	11.3	11.1	11.0	10.8	10.6	10.1	9.3	8.8	8.0
82.5°	6.4	6.3	6.3	6.2	5.7	5.7	5.6	5.1	4.6	4.4	3.9
85°	2.2	2.2	2.2	2.1	2.1	2.1	2.0	1.8	1.7	1.5	1.2
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
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: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	364.9	364.6	364.5	364.4	364.2	364.1	363.9	363.7	363.5	363.4	363.1
5°	364.9	364.4	364.1	363.7	363.4	363.1	362.7	362.2	361.9	361.4	361.0
7.5°	364.4	363.5	362.9	362.1	361.9	361.4	360.5	360.0	359.3	358.5	357.5
10°	362.9	362.0	360.9	359.7	359.3	358.6	357.5	356.5	355.4	354.3	353.3
12.5°	360.7	359.2	357.8	356.3	355.4	354.6	353.1	351.7	350.4	349.1	347.4
15°	357.3	355.5	353.7	351.6	350.6	349.7	347.5	345.8	343.6	341.9	340.3
17.5°	351.9	349.1	346.8	344.2	342.8	341.8	339.8	337.2	335.0	333.2	331.3
20°	342.5	339.8	336.7	333.8	332.3	331.0	328.2	325.4	323.3	321.3	319.2
22.5°	330.1	326.8	324.6	320.9	319.7	318.1	314.8	312.2	309.9	307.9	306.0
25°	315.1	312.2	309.2	305.8	304.3	302.4	299.6	297.0	295.4	293.2	290.8
27.5°	297.9	295.5	291.8	288.8	287.3	285.9	283.2	280.8	278.6	277.1	274.8
30°	279.7	276.9	273.5	270.5	269.6	268.0	265.6	263.7	261.4	260.4	259.4
32.5°	259.7	256.5	253.9	251.9	250.3	248.9	247.6	244.7	244.2	241.8	241.5
35°	237.8	236.4	234.0	232.3	231.0	230.0	227.8	226.4	224.9	224.5	223.5
37.5°	217.2	215.5	213.3	211.7	210.7	210.6	209.1	208.2	207.2	206.5	205.5
40°	195.6	194.9	193.0	192.7	191.1	191.0	190.1	189.1	188.2	188.2	188.3
42.5°	175.8	174.9	174.1	173.1	172.2	172.2	171.8	171.5	171.2	170.9	171.5
45°	157.1	156.0	155.4	154.4	154.8	154.0	153.7	153.7	153.3	153.2	154.2
47.5°	139.7	138.5	137.9	137.6	137.6	137.8	136.5	136.9	136.8	137.1	137.5
50°	123.9	122.8	121.9	121.9	122.1	121.5	120.9	121.4	120.9	121.2	122.2
52.5°	109.1	108.1	107.6	107.6	106.7	106.7	106.9	106.4	106.5	106.7	107.2
55°	95.6	94.9	94.2	93.5	93.6	93.4	92.7	92.7	92.9	93.0	93.7
57.5°	83.4	82.4	81.4	81.1	80.9	80.9	80.2	80.0	80.3	79.6	79.6
60°	71.8	71.2	69.9	69.5	69.5	68.8	68.2	68.5	67.9	67.7	67.9
62.5°	61.0	60.5	59.7	58.9	58.6	58.3	57.6	57.3	57.1	56.4	55.6
65°	51.5	50.6	49.6	49.0	48.6	47.9	47.5	46.9	46.1	45.8	44.9
67.5°	42.2	41.2	40.2	39.8	39.4	39.0	38.3	37.5	36.6	35.5	34.5
70°	33.9	32.6	32.1	30.9	30.7	30.1	29.2	28.4	27.5	26.2	25.2
72.5°	25.9	25.1	24.3	23.3	22.6	22.1	21.3	20.2	19.1	18.4	17.4
75°	18.6	18.2	17.1	16.0	15.7	15.2	14.2	13.5	12.6	11.5	10.6
77.5°	12.6	11.8	11.1	10.1	9.8	9.3	8.6	8.0	7.4	6.7	6.2
80°	7.4	6.7	6.3	5.6	5.4	5.1	4.6	4.1	3.7	3.4	3.2
82.5°	3.7	3.1	2.9	2.5	2.4	2.2	2.0	1.8	1.5	1.5	1.5
85°	1.2	1.0	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	362.9	362.8	362.7	362.5	362.5	362.4	362.4	362.2	362.2	362.1	362.1
5°	360.4	360.0	359.7	359.5	359.5	359.0	358.7	358.5	358.3	358.3	358.0
7.5°	357.0	356.3	355.8	355.4	355.3	354.6	354.0	354.0	353.4	353.1	352.9
10°	352.3	351.3	350.5	350.1	349.5	349.1	348.4	348.0	347.5	346.8	346.7
12.5°	346.0	345.3	344.0	343.5	343.2	342.3	341.3	340.6	340.6	339.9	339.6
15°	338.9	337.3	336.2	335.5	335.5	334.0	333.5	332.7	332.1	331.7	331.5
17.5°	329.6	328.1	326.9	325.9	325.7	324.6	323.7	323.4	322.7	323.0	322.3
20°	317.7	316.4	315.6	314.3	314.3	313.6	313.4	312.6	312.4	312.1	312.4
22.5°	305.0	303.4	302.0	301.9	301.9	300.9	300.7	300.6	300.1	300.4	300.3
25°	289.9	288.8	287.9	287.9	287.9	287.3	286.7	287.0	287.4	287.3	287.7
27.5°	274.4	273.2	273.0	272.9	272.5	272.4	272.7	272.7	273.1	273.7	274.2
30°	257.5	257.3	256.8	256.7	256.5	257.2	257.4	257.8	257.7	258.5	259.1
32.5°	240.8	240.1	240.1	240.3	240.8	240.6	241.5	241.8	242.0	243.0	243.4
35°	223.8	223.6	223.4	223.4	223.5	224.6	224.6	225.6	226.1	226.4	227.6
37.5°	205.5	206.2	206.4	206.8	207.0	207.4	207.7	208.7	209.2	209.7	210.4
40°	188.9	188.6	189.9	189.0	189.3	190.6	191.1	191.0	191.8	192.7	193.2
42.5°	171.1	171.5	171.8	172.1	172.8	172.9	173.6	174.6	174.9	175.9	176.1
45°	153.8	154.0	154.5	155.2	155.5	156.7	156.9	157.4	158.2	158.2	158.6
47.5°	137.6	138.1	138.1	139.0	139.7	139.6	140.5	140.8	140.7	141.4	141.7
50°	122.1	122.9	122.8	123.3	123.6	123.8	124.6	124.8	124.3	125.0	125.1
52.5°	107.2	107.6	108.2	108.3	108.1	108.7	108.4	109.1	108.9	109.4	108.9
55°	93.6	93.5	93.5	93.7	93.5	93.7	94.0	93.5	93.0	93.6	93.5
57.5°	80.0	80.0	79.7	80.2	79.7	79.3	79.2	78.7	78.3	78.3	78.2
60°	67.2	67.0	66.4	66.3	66.3	65.5	65.3	64.7	64.7	64.2	63.6
62.5°	55.4	54.7	54.2	54.2	54.0	53.2	52.0	51.2	50.8	50.0	49.8
65°	44.1	43.4	43.0	42.2	41.5	41.2	40.0	39.0	38.5	37.7	37.8
67.5°	33.9	32.8	31.6	30.9	30.6	29.6	29.2	28.4	28.0	28.0	28.0
70°	24.3	23.4	22.1	21.8	21.4	20.6	20.2	20.1	20.4	20.3	20.4
72.5°	16.4	15.4	14.9	14.5	14.3	13.9	14.2	14.3	14.0	14.2	14.3
75°	10.0	9.6	9.3	9.1	9.1	9.3	9.1	9.1	9.3	9.3	9.4
77.5°	5.7	5.4	5.4	5.4	5.6	5.4	5.4	5.4	5.6	5.6	5.6
80°	3.1	3.1	3.1	3.1	3.2	3.1	3.2	3.2	3.2	3.2	3.2
82.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
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: P856821

CATALOG NUMBER: LX4C10D010 EX4C109830 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	361.9	361.9	361.9	361.5	361.7	361.7	361.5	361.5
5°	357.9	357.8	357.5	357.5	357.2	357.5	357.3	357.5
7.5°	352.6	352.6	352.1	352.1	352.1	351.9	351.7	351.9
10°	346.3	346.3	346.0	345.8	346.0	345.5	345.5	345.3
12.5°	339.3	339.0	338.7	338.9	338.7	338.3	338.1	338.3
15°	331.1	330.7	330.8	330.5	330.5	330.3	330.6	330.6
17.5°	322.2	321.9	321.7	321.7	321.5	321.7	321.5	321.3
20°	312.2	312.1	312.1	311.5	311.7	311.5	311.7	312.1
22.5°	300.7	300.6	300.7	300.3	300.6	300.6	301.1	301.1
25°	288.1	287.9	288.3	288.4	288.6	288.9	288.6	288.7
27.5°	274.1	274.5	274.9	275.1	275.6	275.2	274.9	275.4
30°	259.9	259.9	259.8	260.4	260.7	261.2	260.5	260.5
32.5°	243.7	244.4	244.4	244.5	245.0	245.0	245.0	245.5
35°	228.1	228.6	228.7	228.1	228.4	228.3	229.3	229.3
37.5°	210.7	210.7	210.9	211.9	211.9	211.4	211.7	211.7
40°	194.2	194.4	193.8	194.0	194.8	194.5	194.8	195.0
42.5°	176.1	177.1	176.6	176.8	176.7	176.8	177.0	177.0
45°	158.9	159.2	159.2	159.4	159.6	159.9	159.1	158.9
47.5°	142.1	142.2	142.7	142.0	142.8	142.0	142.8	141.8
50°	125.1	125.7	125.3	125.6	125.1	125.1	125.0	124.8
52.5°	109.1	108.9	108.9	108.7	108.7	109.1	108.7	109.1
55°	92.9	93.0	92.7	92.7	92.5	92.9	92.5	92.2
57.5°	77.7	77.9	77.3	77.7	76.7	77.0	77.2	77.3
60°	63.5	63.0	63.0	62.5	62.5	63.0	62.3	62.3
62.5°	49.2	49.5	49.0	49.6	49.6	50.2	49.8	50.2
65°	37.7	37.8	38.0	38.0	38.0	38.8	38.5	38.1
67.5°	28.4	28.6	28.7	28.6	29.0	28.7	28.7	28.9
70°	20.6	20.8	20.9	20.9	20.8	20.9	20.9	20.9
72.5°	14.3	14.4	14.3	14.4	14.5	14.4	14.4	14.5
75°	9.4	9.4	9.3	9.3	9.3	9.3	9.4	9.3
77.5°	5.4	5.6	5.4	5.6	5.6	5.6	5.6	5.6
80°	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.1
82.5°	1.7	1.7	1.5	1.5	1.7	1.7	1.7	1.7
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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)