

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: P856847

Luminaire Tested: **LX4C10D010 EX4C109840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P856847
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 EX4C109840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

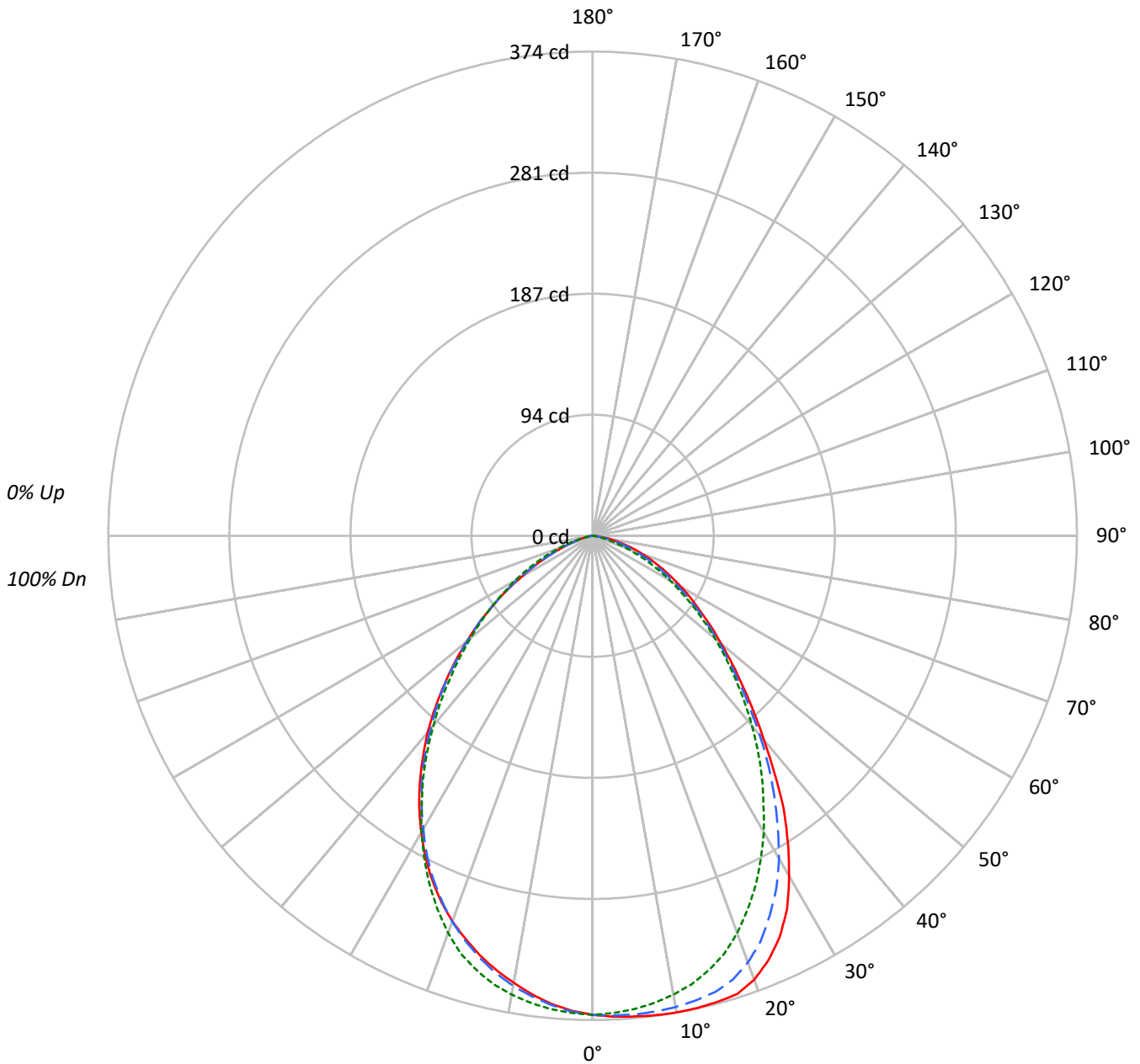
Lumens per Lamp: N/A
Luminaire Lumens: 697.3 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	45456	45456	45456
5°	45962	45259	44766
10°	46644	44885	43737
15°	47403	44159	42697
20°	47706	42673	41431
25°	46332	40368	39744
30°	43054	37508	37536
35°	38544	34195	34915
40°	33005	30647	31770
45°	28407	27017	28042
50°	24693	23528	24235
55°	21740	20241	20048
60°	19337	16905	15553
65°	16948	13517	11250
70°	14584	9555	7615
75°	11819	5554	4462
80°	8419	2405	2193
85°	3242	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	5.0
10°-20°	98.7	14.2
20°-30°	141.0	20.2
30°-40°	147.5	21.1
40°-50°	123.6	17.7
50°-60°	86.5	12.4
60°-70°	47.1	6.8
70°-80°	16.3	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°	274.5	39.4
0°-40°	422.0	60.5
0°-60°	632.0	90.6
0°-90°	697.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	373	371	367	364	363	36
15°	373	365	347	337	336	105
25°	342	324	298	292	293	156
35°	257	244	228	230	233	159
45°	164	160	156	161	161	127
55°	102	98	94	94	94	92
65°	58	53	46	39	39	58
75°	25	20	12	9	9	27
85°	2	1	1	1	1	4
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°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	371.8	371.3	371.4	371.4	371.4	371.3	371.4	371.3	371.3	371.1	370.9
5°	372.7	372.5	372.5	372.5	372.3	372.1	372.1	372.0	371.8	371.6	371.1
7.5°	373.5	373.2	373.2	373.0	372.8	372.7	372.6	372.1	371.8	371.4	370.7
10°	373.9	373.5	373.5	373.2	372.8	372.7	372.5	371.9	371.3	370.6	369.6
12.5°	373.6	373.2	373.0	372.7	372.1	371.9	371.6	370.9	369.9	368.9	367.6
15°	372.7	372.5	372.1	371.8	371.1	370.6	370.3	369.2	367.9	366.5	364.9
17.5°	371.1	370.6	370.0	369.4	368.5	368.0	367.3	365.9	364.0	362.0	359.6
20°	364.9	364.6	364.0	363.0	361.5	360.9	359.9	358.0	355.6	353.2	350.6
22.5°	354.8	354.4	353.5	352.7	351.3	350.3	349.4	346.8	344.1	341.5	339.1
25°	341.8	341.4	340.3	339.1	337.7	336.0	335.1	333.2	330.5	327.2	323.6
27.5°	325.2	323.8	323.3	322.1	320.0	319.3	318.1	315.5	313.0	310.1	307.1
30°	303.5	303.5	302.7	302.1	300.2	299.5	298.2	295.4	294.0	290.1	287.8
32.5°	280.6	280.4	279.7	279.2	278.0	277.1	275.6	274.2	271.1	269.1	266.0
35°	257.0	255.3	255.6	254.8	254.1	252.9	252.7	251.2	248.4	247.2	244.3
37.5°	230.2	229.4	230.4	229.1	228.5	228.6	227.4	226.4	225.3	223.3	222.8
40°	205.8	206.3	206.3	205.1	205.6	204.9	203.8	202.8	202.2	200.9	200.6
42.5°	184.1	183.2	182.9	182.9	183.0	183.0	182.5	181.7	181.7	180.5	179.2
45°	163.5	163.5	163.3	164.1	162.8	162.8	162.4	162.2	161.7	161.4	159.8
47.5°	145.9	145.7	145.6	145.4	145.3	145.3	144.5	143.7	143.6	142.8	141.9
50°	129.2	130.1	129.8	129.1	128.8	128.9	128.4	128.0	127.8	126.4	126.5
52.5°	115.3	115.1	115.4	115.0	114.3	114.4	113.9	113.3	112.7	112.0	111.5
55°	101.5	102.2	101.9	101.5	101.3	101.0	100.6	99.9	99.8	98.2	98.1
57.5°	90.0	89.8	89.5	88.8	88.6	88.2	88.2	87.7	86.9	86.0	85.3
60°	78.7	78.7	78.3	78.1	77.6	77.4	77.3	76.7	75.7	75.0	73.8
62.5°	67.9	68.1	67.9	67.4	67.1	66.4	66.2	65.7	64.9	64.2	63.2
65°	58.3	58.2	58.1	57.5	57.3	56.8	56.6	55.8	54.9	54.4	53.2
67.5°	49.2	48.8	48.8	48.5	48.2	47.8	47.5	46.6	45.7	45.1	44.0
70°	40.6	40.3	40.3	40.3	39.6	39.1	39.0	38.6	37.2	36.6	35.4
72.5°	32.5	32.5	32.3	31.8	31.5	31.5	30.9	30.1	29.3	28.6	27.7
75°	24.9	25.1	24.9	24.3	24.2	23.9	23.5	22.7	22.0	21.2	20.2
77.5°	18.2	17.9	17.7	17.7	17.4	16.8	16.7	16.1	15.2	14.6	13.6
80°	11.9	11.8	11.5	11.2	11.1	11.0	10.8	10.3	9.4	9.0	8.1
82.5°	6.5	6.4	6.4	6.2	5.8	5.8	5.7	5.1	4.7	4.4	4.0
85°	2.3	2.3	2.3	2.1	2.1	2.1	2.0	1.9	1.7	1.6	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	370.6	370.3	370.2	370.0	369.9	369.7	369.6	369.4	369.2	369.0	368.7
5°	370.6	370.0	369.7	369.4	369.0	368.7	368.3	367.9	367.5	367.0	366.6
7.5°	370.0	369.2	368.6	367.8	367.5	367.0	366.1	365.6	364.9	364.0	363.0
10°	368.6	367.6	366.5	365.3	364.9	364.2	363.0	362.0	360.9	359.8	358.7
12.5°	366.3	364.7	363.3	361.8	360.9	360.2	358.7	357.2	355.8	354.6	352.8
15°	362.9	361.1	359.2	357.1	356.1	355.3	353.0	351.3	348.9	347.2	345.5
17.5°	357.3	354.6	352.2	349.6	348.1	347.2	345.1	342.4	340.3	338.4	336.5
20°	347.9	345.1	342.0	339.0	337.4	336.2	333.3	330.5	328.3	326.4	324.2
22.5°	335.3	331.9	329.6	325.9	324.6	323.1	319.7	317.1	314.7	312.6	310.7
25°	320.0	317.1	314.0	310.5	309.0	307.1	304.3	301.6	300.0	297.8	295.3
27.5°	302.6	300.2	296.3	293.3	291.8	290.4	287.6	285.2	282.9	281.3	279.1
30°	284.1	281.3	277.8	274.7	273.9	272.1	269.7	267.9	265.4	264.4	263.4
32.5°	263.7	260.5	257.9	255.9	254.1	252.7	251.5	248.5	248.1	245.5	245.2
35°	241.5	240.1	237.6	236.0	234.5	233.5	231.4	230.0	228.5	228.0	227.0
37.5°	220.6	218.9	216.6	215.0	214.0	213.9	212.3	211.5	210.4	209.7	208.7
40°	198.7	198.0	196.0	195.6	194.1	194.0	193.2	192.2	191.1	191.1	191.3
42.5°	178.4	177.6	176.7	175.8	174.9	174.9	174.5	174.2	173.9	173.4	174.2
45°	159.5	158.4	157.8	156.9	157.3	156.4	156.1	156.1	155.7	155.5	156.6
47.5°	141.9	140.6	140.0	139.7	139.7	139.9	138.6	139.0	138.9	139.2	139.6
50°	125.8	124.7	123.8	123.8	124.0	123.4	122.8	123.2	122.8	123.1	124.1
52.5°	110.8	109.7	109.3	109.3	108.4	108.3	108.6	108.0	108.2	108.3	108.9
55°	97.0	96.3	95.6	95.0	95.1	94.8	94.3	94.1	94.3	94.5	95.2
57.5°	84.7	83.6	82.7	82.4	82.1	82.1	81.4	81.2	81.5	80.9	80.9
60°	72.9	72.3	71.0	70.6	70.6	69.9	69.3	69.6	68.8	68.8	68.8
62.5°	61.9	61.4	60.6	59.7	59.5	59.2	58.5	58.2	58.0	57.3	56.5
65°	52.3	51.4	50.4	49.8	49.4	48.7	48.2	47.7	46.8	46.5	45.7
67.5°	42.8	41.8	40.8	40.4	40.0	39.6	38.9	38.2	37.2	36.0	35.0
70°	34.4	33.2	32.5	31.5	31.2	30.6	29.6	28.9	27.9	26.6	25.6
72.5°	26.3	25.5	24.6	23.6	22.9	22.5	21.7	20.5	19.4	18.6	17.7
75°	18.9	18.5	17.4	16.2	16.0	15.3	14.4	13.6	12.8	11.7	10.8
77.5°	12.8	11.9	11.2	10.3	10.0	9.4	8.8	8.1	7.6	6.9	6.2
80°	7.6	6.9	6.4	5.7	5.4	5.1	4.7	4.1	3.7	3.4	3.3
82.5°	3.7	3.1	3.0	2.6	2.4	2.3	2.0	1.9	1.6	1.6	1.6
85°	1.2	1.0	1.0	0.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	368.6	368.5	368.3	368.2	368.2	368.0	368.0	367.9	367.9	367.8	367.8
5°	366.1	365.6	365.3	365.1	365.1	364.6	364.4	364.0	363.9	363.9	363.7
7.5°	362.5	362.0	361.3	360.9	360.8	360.1	359.5	359.5	358.9	358.7	358.4
10°	357.8	356.8	355.9	355.5	354.9	354.6	353.8	353.4	353.0	352.2	352.1
12.5°	351.3	350.6	349.4	348.8	348.5	347.7	346.5	346.0	345.8	345.3	344.8
15°	344.1	342.5	341.4	340.7	340.7	339.3	338.7	337.9	337.3	336.9	336.7
17.5°	334.8	333.2	332.0	331.0	330.7	329.6	328.8	328.4	327.7	328.1	327.4
20°	322.6	321.4	320.5	319.2	319.2	318.5	318.3	317.5	317.2	316.9	317.2
22.5°	309.7	308.1	306.7	306.6	306.6	305.6	305.4	305.2	304.7	305.2	305.0
25°	294.5	293.3	292.5	292.3	292.3	291.8	291.2	291.5	291.9	291.8	292.1
27.5°	278.7	277.5	277.2	277.1	276.8	276.7	277.0	277.0	277.4	278.0	278.5
30°	261.5	261.3	260.8	260.7	260.5	261.2	261.5	261.9	261.7	262.6	263.2
32.5°	244.5	243.9	243.8	244.1	244.5	244.3	245.2	245.5	245.8	246.7	247.2
35°	227.3	227.1	226.9	226.9	227.0	228.1	228.1	229.1	229.7	230.0	231.1
37.5°	208.8	209.4	209.6	210.1	210.2	210.6	210.9	211.9	212.5	213.0	213.7
40°	191.8	191.5	192.9	192.0	192.3	193.5	194.1	194.0	194.8	195.6	196.3
42.5°	173.8	174.2	174.5	174.8	175.5	175.6	176.3	177.4	177.6	178.6	178.9
45°	156.2	156.4	156.9	157.6	158.0	159.1	159.4	159.8	160.7	160.7	161.1
47.5°	139.7	140.4	140.4	141.2	141.9	141.8	142.8	143.0	142.9	143.6	143.9
50°	124.0	124.8	124.7	125.2	125.6	125.6	126.5	126.8	126.3	127.0	127.1
52.5°	108.9	109.3	109.9	110.0	109.7	110.4	110.1	110.8	110.6	111.1	110.6
55°	95.1	95.0	95.0	95.2	95.0	95.2	95.5	95.0	94.5	95.1	95.0
57.5°	81.2	81.2	81.0	81.4	81.0	80.5	80.4	80.0	79.5	79.5	79.5
60°	68.3	68.0	67.4	67.3	67.3	66.6	66.3	65.7	65.7	65.2	64.7
62.5°	56.2	55.5	55.1	55.1	54.8	54.0	52.8	52.0	51.6	50.8	50.7
65°	44.9	44.1	43.7	42.8	42.1	41.8	40.6	39.6	39.1	38.3	38.4
67.5°	34.4	33.3	32.0	31.5	31.0	30.1	29.6	28.9	28.4	28.4	28.4
70°	24.8	23.8	22.5	22.0	21.8	21.0	20.5	20.3	20.8	20.6	20.8
72.5°	16.7	15.7	15.1	14.8	14.5	14.1	14.4	14.5	14.3	14.4	14.5
75°	10.1	9.8	9.4	9.3	9.3	9.4	9.3	9.3	9.4	9.4	9.5
77.5°	5.8	5.5	5.5	5.4	5.7	5.5	5.5	5.5	5.7	5.7	5.7
80°	3.1	3.1	3.1	3.1	3.3	3.1	3.3	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
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: P856847

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0
2.5°	367.5	367.5	367.5	367.2	367.3	367.3	367.2	367.2
5°	363.5	363.3	363.0	363.0	362.8	363.0	362.9	363.0
7.5°	358.0	358.0	357.7	357.7	357.5	357.3	357.2	357.3
10°	351.7	351.7	351.3	351.3	351.3	350.8	350.8	350.6
12.5°	344.6	344.3	343.9	344.1	343.9	343.6	343.4	343.6
15°	336.3	335.8	336.0	335.6	335.6	335.5	335.7	335.7
17.5°	327.2	326.9	326.6	326.7	326.5	326.6	326.5	326.4
20°	317.1	316.9	316.9	316.4	316.5	316.4	316.5	316.9
22.5°	305.4	305.2	305.4	305.0	305.2	305.2	305.7	305.7
25°	292.6	292.5	292.8	292.8	293.0	293.5	293.0	293.2
27.5°	278.4	278.8	279.2	279.4	279.9	279.5	279.2	279.7
30°	264.0	264.0	263.9	264.4	264.8	265.3	264.6	264.6
32.5°	247.5	248.2	248.2	248.4	248.8	248.8	248.8	249.3
35°	231.7	232.1	232.3	231.7	231.9	231.9	232.8	232.8
37.5°	214.0	214.0	214.2	215.2	215.2	214.7	215.0	215.0
40°	197.3	197.4	196.8	197.1	197.8	197.5	197.8	198.1
42.5°	178.9	179.9	179.3	179.6	179.4	179.6	179.8	179.8
45°	161.4	161.7	161.7	161.9	162.1	162.4	161.5	161.4
47.5°	144.3	144.5	144.9	144.2	145.0	144.2	145.0	144.0
50°	127.1	127.7	127.3	127.5	127.1	127.1	127.0	126.8
52.5°	110.8	110.6	110.6	110.4	110.4	110.8	110.4	110.8
55°	94.3	94.5	94.3	94.1	93.9	94.3	93.9	93.6
57.5°	78.8	79.1	78.6	78.8	77.8	78.3	78.4	78.6
60°	64.5	64.0	64.0	63.5	63.5	63.9	63.3	63.3
62.5°	49.9	50.2	49.8	50.4	50.4	50.9	50.7	50.9
65°	38.3	38.4	38.6	38.6	38.6	39.4	39.1	38.7
67.5°	28.9	29.1	29.2	29.1	29.4	29.2	29.2	29.3
70°	21.0	21.0	21.2	21.2	21.0	21.2	21.2	21.2
72.5°	14.5	14.6	14.5	14.6	14.8	14.6	14.6	14.8
75°	9.5	9.5	9.4	9.4	9.4	9.4	9.5	9.4
77.5°	5.5	5.7	5.5	5.7	5.7	5.7	5.7	5.7
80°	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.1
82.5°	1.7	1.7	1.6	1.6	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)