

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: P858866

Luminaire Tested: **LX4C05D010 EX4C059827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C05D010 EX4C059827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

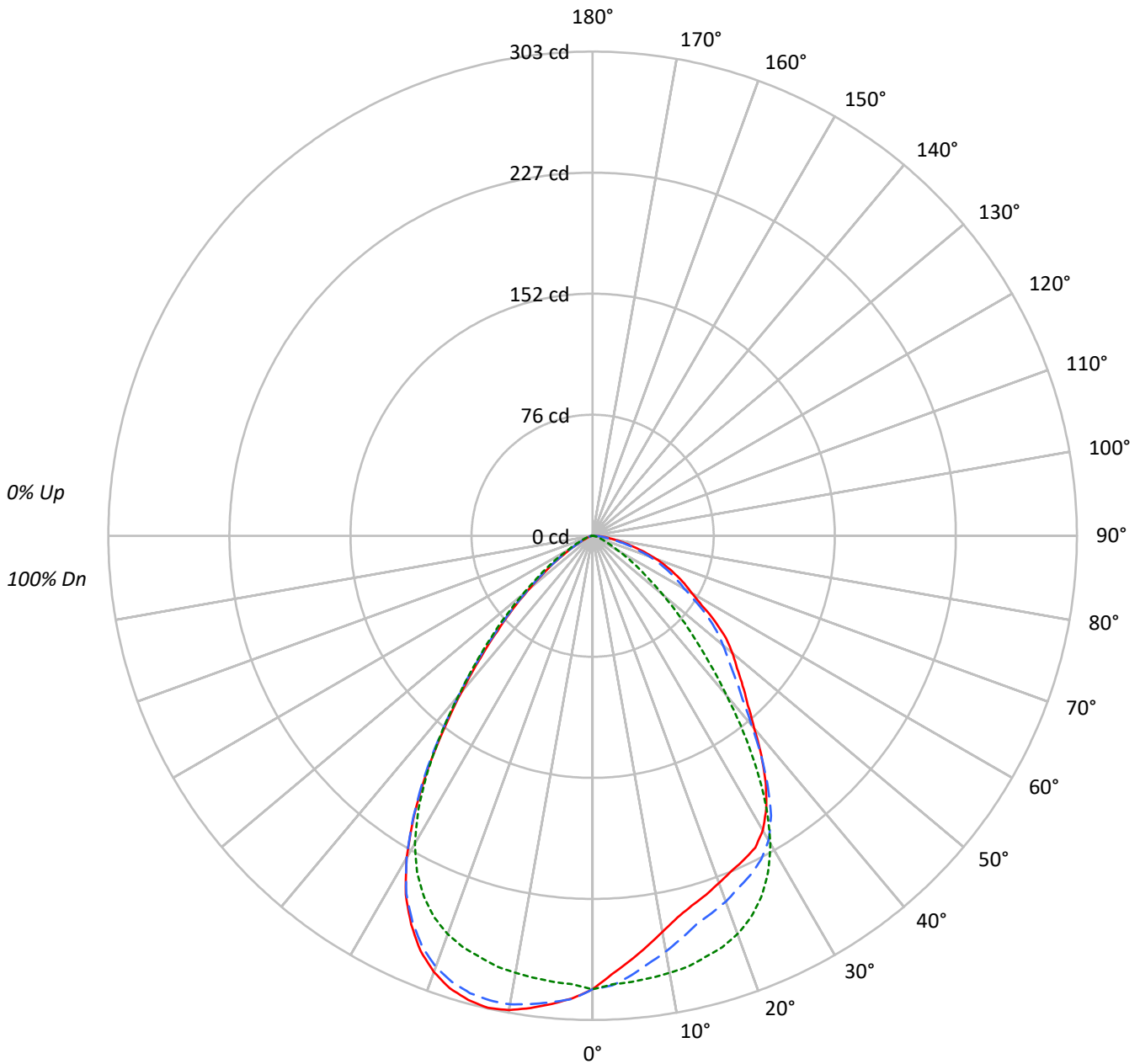
Lumens per Lamp: N/A
Luminaire Lumens: 497.6 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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				20				
RC	80				70				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			100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46			46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42			42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34866	34866	34866
5°	32940	34555	36269
10°	31387	34643	37599
15°	30474	34709	38245
20°	30227	34672	37966
25°	30337	33821	36396
30°	30202	31549	33011
35°	28316	26936	27221
40°	25227	20881	20416
45°	23073	15567	14612
50°	21807	10913	9843
55°	20048	7368	6190
60°	17519	4324	3415
65°	16599	2762	1919
70°	15122	1976	1185
75°	12484	1377	902
80°	9834	778	495
85°	8739	564	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	5.4
10°-20°	76.9	15.5
20°-30°	114.1	22.9
30°-40°	114.2	23.0
40°-50°	79.8	16.0
50°-60°	47.5	9.5
60°-70°	24.8	5.0
70°-80°	11.0	2.2
80°-90°	2.4	0.5
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°	217.8	43.8
0°-40°	332.0	66.7
0°-60°	459.4	92.3
0°-90°	497.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	284	284	284	284	284	
5°	267	276	280	293	294	25
15°	240	252	273	296	301	68
25°	224	234	250	267	268	103
35°	189	191	180	183	182	117
45°	133	126	90	87	84	103
55°	94	88	34	30	29	83
65°	57	52	10	7	7	56
75°	26	23	3	2	2	28
85°	6	5	0	0	0	7
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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	274.7	278.0	274.7	275.8	280.2	276.2	278.4	278.4	277.2	279.8	281.7
5°	267.1	270.4	267.1	268.5	273.2	269.2	271.8	271.1	271.4	273.6	276.2
7.5°	259.3	261.9	259.0	260.8	265.2	261.9	264.1	264.1	264.5	267.8	269.9
10°	251.6	253.9	251.6	253.2	257.9	254.9	256.5	256.8	257.9	260.8	264.1
12.5°	244.7	246.6	244.3	246.6	250.6	247.6	249.5	249.9	250.9	254.2	257.9
15°	239.6	241.4	239.3	241.0	244.7	242.6	244.0	244.7	245.5	248.4	251.6
17.5°	235.6	237.0	235.2	237.4	240.3	237.7	240.0	240.0	241.0	244.0	247.6
20°	231.2	232.7	231.2	233.0	236.3	234.1	236.0	236.0	237.0	240.3	243.6
22.5°	227.1	227.9	227.1	228.6	231.9	230.1	231.2	231.6	232.7	235.6	238.5
25°	223.8	225.3	224.6	226.1	228.3	226.4	227.6	227.9	229.0	231.6	234.1
27.5°	220.2	221.0	220.2	222.0	223.8	222.4	223.5	223.1	223.8	226.1	228.3
30°	212.9	213.7	213.7	214.7	216.2	215.4	216.5	215.4	216.2	218.0	220.2
32.5°	202.2	202.7	203.0	204.1	205.2	204.1	204.8	204.8	204.8	206.3	207.8
35°	188.8	189.5	189.1	189.9	190.9	190.6	190.6	190.2	189.5	190.2	190.9
37.5°	173.4	172.3	172.3	173.4	174.2	172.6	173.4	172.6	172.6	173.0	173.0
40°	157.3	156.2	157.3	157.7	158.0	157.3	156.9	156.2	155.1	155.4	154.7
42.5°	143.7	143.0	143.4	143.4	143.7	143.0	143.4	142.0	140.8	140.1	139.0
45°	132.8	131.7	132.8	132.1	132.1	131.7	131.4	130.6	129.1	128.1	126.2
47.5°	122.5	122.5	122.9	122.9	122.9	122.2	122.2	120.7	119.2	117.8	115.2
50°	114.1	113.4	114.9	114.9	113.8	113.4	113.8	111.9	110.8	109.0	106.5
52.5°	105.0	105.0	105.3	105.3	105.0	104.2	104.6	103.2	102.0	100.2	97.6
55°	93.6	92.9	94.0	94.0	93.6	93.3	93.6	92.6	91.5	90.0	87.7
57.5°	80.9	80.4	81.2	81.6	80.9	80.9	81.2	80.1	79.7	78.3	76.1
60°	71.3	71.0	71.7	72.1	71.3	71.3	71.3	69.8	69.1	67.7	66.2
62.5°	64.7	64.4	65.1	64.7	64.4	64.0	64.4	63.0	62.2	60.7	59.3
65°	57.1	57.4	57.8	57.8	57.4	57.1	57.1	56.4	55.6	54.1	52.3
67.5°	49.8	49.8	50.1	50.5	50.1	50.1	50.1	49.0	48.2	47.2	45.0
70°	42.1	41.7	42.8	42.8	42.1	42.4	42.1	41.7	40.9	39.5	37.7
72.5°	34.0	34.0	34.4	34.4	34.0	34.0	34.0	33.6	32.5	31.8	30.0
75°	26.3	26.3	26.7	27.1	26.3	26.3	26.7	25.9	25.2	24.2	23.0
77.5°	19.8	19.4	19.8	19.8	19.4	19.4	19.4	19.0	18.6	17.6	16.5
80°	13.9	13.6	13.9	13.9	13.9	13.6	13.6	13.2	13.2	12.4	11.3
82.5°	9.5	9.2	9.5	9.5	9.5	9.2	9.2	9.2	8.7	8.4	7.7
85°	6.2	5.9	5.9	6.2	5.9	5.9	5.9	5.9	5.5	5.1	4.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.6	2.6	2.6	2.2
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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	280.2	279.5	281.7	281.0	281.3	279.5	282.4	281.0	282.8	281.0	284.6
5°	275.5	274.7	278.0	277.7	278.0	276.5	279.8	279.5	281.7	280.2	284.2
7.5°	270.4	269.6	273.2	273.6	274.4	272.9	277.2	277.2	279.5	279.1	283.5
10°	264.5	264.8	268.5	269.2	270.7	269.9	274.0	275.1	278.0	277.7	283.1
12.5°	259.0	259.0	263.8	265.2	266.3	265.9	270.7	272.2	275.5	276.2	281.3
15°	253.5	253.9	258.2	260.5	261.9	261.5	266.7	268.5	272.5	272.9	279.1
17.5°	249.2	248.7	253.5	255.3	257.5	257.2	262.6	264.8	268.9	269.9	275.8
20°	245.5	245.1	249.5	251.6	253.2	252.8	258.2	260.8	264.5	265.2	271.1
22.5°	241.0	240.3	244.7	246.6	248.0	247.6	252.5	254.2	257.9	258.6	264.1
25°	236.0	235.2	239.3	240.3	241.4	240.7	244.7	245.9	248.7	249.5	254.9
27.5°	230.1	228.3	231.6	231.6	232.3	231.2	234.1	235.2	237.7	237.7	242.9
30°	221.0	218.4	220.2	219.8	220.2	218.7	220.6	221.0	222.8	222.4	226.1
32.5°	208.1	204.5	205.5	204.5	203.4	201.2	203.4	202.7	204.1	202.7	205.9
35°	190.6	186.9	186.6	185.1	184.0	182.2	182.2	180.3	180.7	179.6	181.8
37.5°	171.6	166.8	166.0	163.2	161.3	159.1	159.1	157.7	155.8	155.1	156.9
40°	152.9	147.8	146.0	141.2	139.4	137.1	135.7	133.9	133.1	130.2	131.7
42.5°	136.8	131.4	127.3	122.2	120.4	117.1	114.9	112.6	111.6	108.3	109.8
45°	123.2	116.7	112.3	105.7	103.2	99.5	96.2	93.6	91.0	89.6	88.9
47.5°	111.9	105.0	99.2	91.8	87.7	84.5	80.1	77.6	74.3	72.4	71.3
50°	102.5	94.7	88.2	79.7	75.7	72.1	67.0	63.0	60.0	57.1	56.4
52.5°	94.0	86.0	78.7	69.1	64.4	60.0	54.5	50.1	47.5	44.2	43.9
55°	84.1	77.2	69.1	59.3	54.5	50.1	44.2	39.9	36.6	34.4	33.6
57.5°	73.6	67.0	59.3	49.4	44.6	39.9	34.4	30.3	27.5	25.6	25.2
60°	63.7	57.4	50.1	40.2	35.5	31.5	25.6	21.6	19.0	17.6	16.9
62.5°	56.4	50.5	43.5	34.4	30.0	25.9	20.5	16.9	14.6	13.2	12.4
65°	49.4	43.5	37.3	28.9	25.2	21.6	16.5	13.2	11.0	9.5	8.7
67.5°	42.1	36.9	31.1	24.2	20.5	17.6	13.2	10.3	8.4	7.3	6.6
70°	34.8	30.0	25.2	19.4	16.9	13.9	10.3	8.0	6.2	5.5	4.7
72.5°	27.5	23.8	19.8	15.0	12.8	11.0	8.0	5.9	4.7	4.0	3.3
75°	20.5	17.9	14.6	11.3	9.5	8.0	5.9	4.4	3.7	2.9	2.6
77.5°	14.6	12.4	10.3	7.7	7.0	5.9	4.0	3.3	2.6	1.9	1.4
80°	9.9	8.7	7.0	5.5	4.4	4.0	2.9	2.2	1.4	1.1	1.1
82.5°	6.6	5.5	4.4	3.3	2.9	2.6	1.9	1.4	1.1	0.7	0.7
85°	4.0	3.3	2.6	1.9	1.9	1.4	1.1	0.7	0.4	0.4	0.4
87.5°	1.9	1.4	1.1	0.7	0.7	0.4	0.4	0.4	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	287.5	285.4	283.8	285.7	286.4	285.4	286.4	288.3	290.1	290.4	285.4
5°	287.9	285.7	285.0	287.1	287.5	287.1	288.3	290.8	293.0	293.7	288.7
7.5°	287.9	286.4	286.1	288.7	289.0	288.7	290.4	293.4	295.6	297.0	292.0
10°	287.1	286.4	286.8	289.0	289.7	289.7	292.3	295.6	297.8	299.3	294.1
12.5°	286.1	286.1	286.1	288.7	289.4	289.7	292.0	296.3	297.8	300.0	294.8
15°	284.2	284.2	284.2	286.8	287.9	287.9	290.4	294.5	296.3	298.5	293.4
17.5°	281.0	281.0	281.3	283.5	284.6	284.6	287.1	291.5	292.7	295.3	290.1
20°	276.2	276.2	276.5	278.8	279.8	279.1	282.4	286.1	287.1	289.4	284.2
22.5°	269.2	269.2	269.2	271.4	272.2	271.8	275.1	278.4	278.4	281.3	275.8
25°	259.0	259.8	259.0	261.2	261.9	261.5	264.5	267.4	266.7	269.9	264.5
27.5°	246.6	246.2	246.2	248.0	248.0	247.6	249.9	253.2	252.5	254.6	249.5
30°	229.4	230.4	228.6	231.2	230.1	229.4	230.8	233.7	232.7	234.4	230.4
32.5°	209.6	208.1	208.1	208.1	208.8	207.1	208.5	210.0	208.8	210.7	206.3
35°	183.6	184.0	182.9	183.3	183.6	181.5	182.9	184.3	182.9	184.0	180.0
37.5°	157.7	158.0	155.4	156.9	155.4	154.7	156.2	156.9	155.4	156.6	152.1
40°	131.7	131.0	130.6	130.6	131.0	129.1	130.2	131.4	130.2	131.0	126.9
42.5°	109.0	108.6	107.9	108.3	107.2	106.8	107.2	108.3	107.2	107.9	105.0
45°	89.3	88.5	87.4	87.7	87.7	86.0	87.0	87.7	86.7	87.0	84.5
47.5°	71.0	69.8	69.8	69.5	69.5	68.8	69.8	69.5	68.4	69.1	66.6
50°	55.2	54.5	54.5	54.5	54.5	53.4	53.8	54.5	53.4	53.4	51.9
52.5°	43.2	42.1	41.4	41.4	41.4	40.9	40.9	41.4	40.2	40.2	39.9
55°	32.5	32.2	31.1	31.1	31.1	30.0	30.3	30.3	30.0	30.0	28.9
57.5°	24.2	23.0	22.3	22.3	21.6	21.6	21.2	21.6	20.9	20.9	20.2
60°	16.1	15.3	15.0	14.6	14.6	14.3	14.6	14.3	14.3	13.9	13.6
62.5°	11.7	11.0	10.3	10.3	10.3	9.9	9.9	9.9	9.9	9.9	9.5
65°	8.4	7.7	7.7	7.3	7.3	7.0	7.0	7.0	7.0	7.0	6.6
67.5°	5.9	5.5	5.1	5.1	5.1	5.1	5.1	5.1	4.7	4.7	4.7
70°	4.4	4.0	3.7	3.7	3.7	3.7	3.7	3.3	3.7	3.7	3.3
72.5°	2.9	2.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
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: P858866

CATALOG NUMBER: LX4C05D010 EX4C059827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	290.8	290.4	289.7	290.8	287.9	286.8	286.4	289.7
5°	294.8	294.1	294.1	295.3	292.0	291.2	290.4	294.1
7.5°	298.5	297.8	297.8	298.9	296.0	295.3	294.5	298.1
10°	300.7	300.7	300.7	301.4	298.9	298.1	297.8	301.4
12.5°	301.8	301.8	301.4	302.9	299.6	299.6	298.9	302.6
15°	300.3	300.3	300.3	301.4	298.5	297.8	297.8	300.7
17.5°	296.7	296.7	296.3	297.4	294.1	294.1	293.7	297.0
20°	291.2	291.2	290.4	292.0	288.7	287.5	287.1	290.4
22.5°	282.4	282.1	281.7	282.4	279.5	278.8	278.4	281.3
25°	271.1	270.7	269.9	270.7	267.4	266.3	266.3	268.5
27.5°	254.9	254.9	253.9	254.9	251.3	250.9	250.6	253.2
30°	235.2	233.7	233.0	234.4	230.8	230.8	230.1	232.7
32.5°	210.7	209.2	208.8	209.6	206.3	205.2	206.7	208.1
35°	182.5	182.9	181.5	181.5	178.5	178.9	179.2	181.5
37.5°	155.4	154.7	154.4	154.7	152.6	151.8	151.1	153.3
40°	130.2	128.4	128.1	128.1	126.2	125.8	126.2	127.3
42.5°	106.5	106.1	104.6	105.3	103.5	104.2	103.9	103.9
45°	86.0	86.3	84.9	86.0	84.5	83.4	83.4	84.1
47.5°	68.0	68.0	67.7	67.7	66.6	67.0	66.2	67.3
50°	52.7	52.7	51.9	52.3	51.5	51.5	51.2	51.5
52.5°	40.2	39.9	39.9	39.5	38.8	39.1	39.5	38.8
55°	29.2	29.6	28.9	29.2	28.5	28.9	28.5	28.9
57.5°	20.2	20.5	19.8	20.5	19.8	20.2	19.8	19.8
60°	13.9	13.9	13.6	13.9	13.6	13.6	13.2	13.9
62.5°	9.5	9.5	9.5	9.5	9.5	9.2	9.5	9.5
65°	7.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.0	0.4	0.0	0.0	0.0
87.5°	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)