

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: P859737

Luminaire Tested: **LX4C08D010 EX4C089827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859737
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: LX4C08D010 EX4C089827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

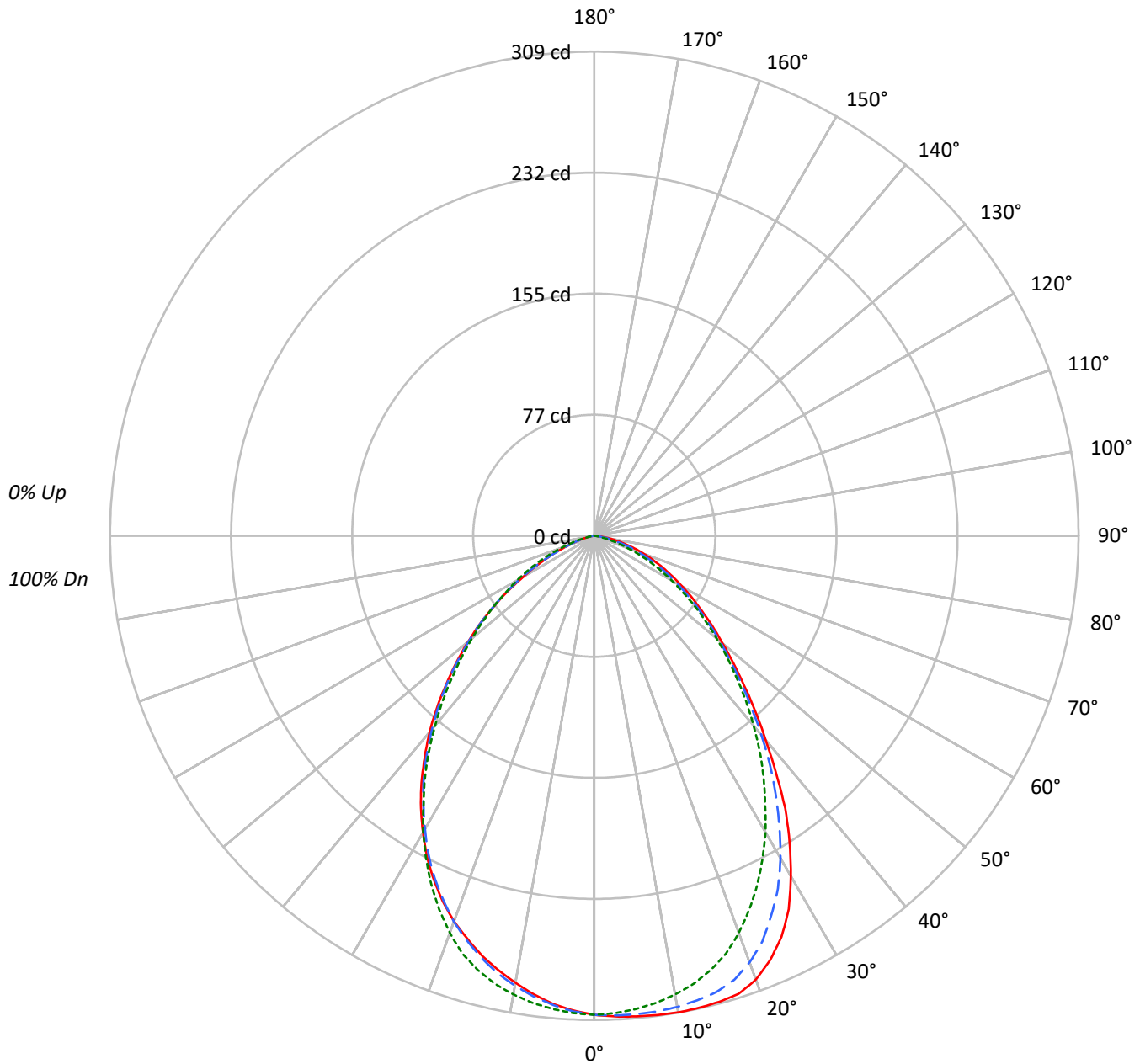
Lumens per Lamp: N/A
Luminaire Lumens: 576.1 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	49	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°	37556	37556	37556
5°	37971	37391	36984
10°	38522	37075	36140
15°	39161	36490	35269
20°	39404	35247	34227
25°	38280	33333	32831
30°	35578	30996	31010
35°	31840	28241	28840
40°	27264	25323	26237
45°	23472	22326	23160
50°	20393	19438	20030
55°	17949	16707	16578
60°	15971	13956	12850
65°	14012	11163	9302
70°	12033	7902	6286
75°	9778	4557	3702
80°	7004	2052	1839
85°	2678	846	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	5.0
10°-20°	81.5	14.2
20°-30°	116.4	20.2
30°-40°	121.8	21.1
40°-50°	102.1	17.7
50°-60°	71.4	12.4
60°-70°	38.9	6.8
70°-80°	13.5	2.3
80°-90°	1.6	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°	226.8	39.4
0°-40°	348.6	60.5
0°-60°	522.1	90.6
0°-90°	576.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	306	306	306	306	306	
5°	308	306	303	301	300	29
15°	308	301	287	279	277	87
25°	282	267	246	241	242	129
35°	212	202	188	190	192	132
45°	135	132	128	133	133	105
55°	84	81	78	78	77	76
65°	48	44	38	32	32	48
75°	21	17	10	8	8	22
85°	2	1	1	1	1	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°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	307.1	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.8	306.6	306.4
5°	307.9	307.7	307.7	307.7	307.6	307.5	307.5	307.3	307.1	306.9	306.5
7.5°	308.5	308.3	308.3	308.2	308.0	307.9	307.8	307.5	307.1	306.8	306.2
10°	308.8	308.5	308.5	308.3	308.0	307.9	307.7	307.2	306.8	306.1	305.3
12.5°	308.6	308.3	308.2	307.9	307.5	307.2	306.9	306.4	305.6	304.7	303.6
15°	307.9	307.7	307.5	307.1	306.5	306.1	305.9	305.0	303.9	302.7	301.4
17.5°	306.5	306.1	305.7	305.2	304.4	304.0	303.5	302.3	300.7	299.1	297.1
20°	301.4	301.2	300.7	299.9	298.6	298.1	297.3	295.8	293.8	291.8	289.7
22.5°	293.1	292.8	292.0	291.3	290.2	289.4	288.7	286.5	284.3	282.1	280.2
25°	282.4	282.1	281.1	280.2	279.0	277.6	276.9	275.2	273.0	270.3	267.3
27.5°	268.7	267.4	267.1	266.1	264.3	263.8	262.8	260.7	258.5	256.2	253.7
30°	250.8	250.8	250.0	249.6	248.0	247.5	246.3	244.1	242.9	239.6	237.7
32.5°	231.9	231.6	231.1	230.7	229.7	228.9	227.8	226.6	224.0	222.3	219.7
35°	212.3	210.9	211.2	210.5	209.8	208.9	208.8	207.5	205.2	204.2	201.9
37.5°	190.1	189.5	190.3	189.3	188.7	188.8	187.9	187.1	186.1	184.5	184.0
40°	170.0	170.5	170.3	169.4	169.9	169.3	168.4	167.6	167.0	166.0	165.7
42.5°	152.0	151.3	151.1	151.1	151.2	151.2	150.7	150.2	150.2	149.1	148.0
45°	135.1	135.1	134.8	135.5	134.5	134.5	134.1	134.0	133.6	133.3	132.1
47.5°	120.5	120.4	120.3	120.1	120.0	120.0	119.3	118.8	118.6	117.9	117.2
50°	106.7	107.5	107.2	106.7	106.4	106.5	106.0	105.7	105.6	104.4	104.5
52.5°	95.2	95.1	95.3	95.0	94.4	94.5	94.1	93.5	93.1	92.6	92.0
55°	83.8	84.4	84.2	83.8	83.7	83.5	83.1	82.6	82.4	81.1	81.0
57.5°	74.3	74.2	73.9	73.4	73.2	72.9	72.9	72.4	71.7	71.0	70.4
60°	65.0	65.0	64.7	64.6	64.1	63.9	63.8	63.4	62.5	62.0	61.0
62.5°	56.1	56.4	56.1	55.7	55.4	54.9	54.7	54.3	53.6	53.1	52.2
65°	48.2	48.1	48.0	47.5	47.4	46.9	46.8	46.1	45.4	44.9	44.0
67.5°	40.7	40.3	40.3	40.1	39.9	39.5	39.2	38.5	37.7	37.3	36.3
70°	33.5	33.3	33.3	33.3	32.7	32.4	32.2	31.8	30.7	30.2	29.2
72.5°	26.9	26.8	26.7	26.3	25.9	25.9	25.5	24.8	24.3	23.6	22.9
75°	20.6	20.8	20.6	20.1	20.0	19.7	19.4	18.8	18.2	17.5	16.7
77.5°	15.1	14.8	14.5	14.5	14.4	13.9	13.7	13.3	12.6	12.1	11.3
80°	9.9	9.7	9.5	9.3	9.2	9.1	8.9	8.5	7.8	7.4	6.7
82.5°	5.4	5.3	5.3	5.2	4.8	4.8	4.7	4.2	3.9	3.7	3.3
85°	1.9	1.9	1.9	1.8	1.8	1.8	1.6	1.5	1.4	1.3	1.1
87.5°	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
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°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	306.1	305.9	305.8	305.7	305.6	305.4	305.3	305.1	305.0	304.9	304.6
5°	306.1	305.7	305.4	305.1	304.9	304.6	304.3	303.9	303.5	303.2	302.8
7.5°	305.7	305.0	304.5	303.8	303.5	303.2	302.5	302.0	301.4	300.7	299.9
10°	304.5	303.6	302.7	301.8	301.4	300.9	299.9	299.1	298.1	297.2	296.4
12.5°	302.7	301.3	300.2	298.8	298.1	297.6	296.2	295.1	293.9	292.8	291.4
15°	299.8	298.3	296.8	295.0	294.2	293.5	291.6	290.2	288.3	286.9	285.4
17.5°	295.2	292.8	291.0	288.7	287.6	286.8	285.1	282.9	281.1	279.6	278.0
20°	287.3	285.1	282.5	280.0	278.8	277.7	275.4	273.0	271.3	269.6	267.8
22.5°	277.0	274.2	272.2	269.2	268.1	266.9	264.0	261.9	259.9	258.3	256.6
25°	264.4	261.9	259.3	256.6	255.2	253.7	251.4	249.2	247.8	245.9	244.0
27.5°	250.0	248.0	244.8	242.3	241.0	239.9	237.6	235.6	233.7	232.4	230.5
30°	234.7	232.3	229.5	226.9	226.2	224.8	222.8	221.2	219.3	218.5	217.6
32.5°	217.9	215.2	213.0	211.3	210.0	208.8	207.8	205.3	204.9	202.8	202.6
35°	199.5	198.3	196.4	194.9	193.8	192.9	191.2	190.0	188.7	188.3	187.5
37.5°	182.3	180.8	179.0	177.6	176.8	176.7	175.4	174.7	173.8	173.3	172.4
40°	164.1	163.5	161.9	161.7	160.3	160.2	159.5	158.7	157.9	157.9	158.0
42.5°	147.4	146.7	146.0	145.2	144.5	144.5	144.1	143.9	143.7	143.3	143.9
45°	131.8	130.8	130.4	129.6	129.9	129.2	128.9	128.9	128.6	128.5	129.3
47.5°	117.2	116.2	115.7	115.5	115.5	115.6	114.5	114.9	114.8	114.9	115.3
50°	103.9	103.0	102.3	102.3	102.4	101.9	101.5	101.8	101.5	101.7	102.6
52.5°	91.6	90.6	90.3	90.3	89.6	89.4	89.7	89.3	89.4	89.4	90.0
55°	80.2	79.6	79.0	78.4	78.6	78.3	77.8	77.7	77.9	78.0	78.7
57.5°	69.9	69.1	68.3	68.0	67.9	67.9	67.2	67.1	67.3	66.8	66.8
60°	60.2	59.7	58.7	58.3	58.3	57.7	57.2	57.5	56.9	56.8	56.9
62.5°	51.2	50.8	50.1	49.4	49.1	48.9	48.3	48.1	47.9	47.4	46.6
65°	43.2	42.4	41.6	41.1	40.8	40.2	39.9	39.4	38.7	38.4	37.7
67.5°	35.4	34.6	33.7	33.4	33.0	32.7	32.1	31.5	30.7	29.8	28.9
70°	28.4	27.4	26.9	25.9	25.8	25.2	24.4	23.9	23.0	22.0	21.1
72.5°	21.8	21.0	20.3	19.5	18.9	18.5	17.8	16.9	16.0	15.4	14.5
75°	15.6	15.2	14.4	13.4	13.2	12.7	11.9	11.3	10.6	9.6	8.9
77.5°	10.6	9.9	9.3	8.5	8.2	7.8	7.3	6.7	6.2	5.6	5.2
80°	6.2	5.6	5.3	4.7	4.5	4.2	3.9	3.4	3.0	2.9	2.7
82.5°	3.0	2.6	2.5	2.1	2.0	1.9	1.6	1.5	1.3	1.3	1.3
85°	1.1	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
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°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	304.5	304.4	304.3	304.2	304.2	304.0	304.0	303.9	303.9	303.8	303.8
5°	302.4	302.0	301.8	301.6	301.6	301.2	301.0	300.7	300.6	300.6	300.4
7.5°	299.4	299.0	298.5	298.1	298.0	297.5	297.0	297.0	296.5	296.2	296.1
10°	295.5	294.7	294.0	293.7	293.2	292.8	292.3	292.0	291.6	291.0	290.9
12.5°	290.3	289.7	288.7	288.1	287.9	287.2	286.2	285.8	285.7	285.2	284.8
15°	284.3	282.9	282.1	281.4	281.4	280.3	279.8	279.1	278.7	278.3	278.1
17.5°	276.5	275.2	274.3	273.5	273.2	272.2	271.5	271.4	270.7	271.0	270.4
20°	266.5	265.5	264.8	263.7	263.7	263.2	262.9	262.3	262.1	261.8	262.1
22.5°	255.8	254.5	253.3	253.3	253.3	252.5	252.3	252.2	251.7	252.1	251.9
25°	243.3	242.3	241.6	241.5	241.5	241.0	240.5	240.8	241.1	241.0	241.4
27.5°	230.2	229.3	229.0	228.9	228.6	228.6	228.8	228.8	229.2	229.6	230.1
30°	216.1	215.9	215.5	215.4	215.2	215.7	216.0	216.3	216.2	216.9	217.4
32.5°	202.0	201.5	201.4	201.6	202.0	201.9	202.6	202.8	203.0	203.9	204.2
35°	187.7	187.6	187.4	187.4	187.5	188.4	188.4	189.3	189.8	190.0	190.9
37.5°	172.5	172.9	173.2	173.5	173.6	174.0	174.2	175.0	175.5	176.0	176.5
40°	158.5	158.3	159.3	158.6	158.8	159.9	160.3	160.2	161.0	161.7	162.1
42.5°	143.6	143.9	144.1	144.4	145.0	145.1	145.6	146.5	146.7	147.6	147.8
45°	129.1	129.2	129.7	130.1	130.5	131.4	131.7	132.1	132.7	132.7	133.0
47.5°	115.5	115.9	115.9	116.6	117.2	117.1	117.9	118.2	118.1	118.6	118.9
50°	102.4	103.1	103.0	103.4	103.7	103.8	104.5	104.8	104.2	104.9	105.0
52.5°	90.0	90.3	90.8	90.9	90.6	91.2	91.0	91.5	91.3	91.8	91.3
55°	78.6	78.4	78.4	78.7	78.4	78.7	78.9	78.4	78.0	78.6	78.4
57.5°	67.1	67.1	66.9	67.2	66.9	66.5	66.4	66.1	65.7	65.7	65.6
60°	56.4	56.2	55.7	55.6	55.6	55.0	54.8	54.3	54.3	53.9	53.4
62.5°	46.5	45.8	45.5	45.5	45.3	44.7	43.6	42.9	42.7	42.0	41.8
65°	37.0	36.5	36.1	35.4	34.8	34.6	33.5	32.7	32.4	31.7	31.7
67.5°	28.4	27.6	26.5	25.9	25.6	24.8	24.4	23.9	23.5	23.5	23.5
70°	20.4	19.6	18.5	18.2	18.0	17.3	16.9	16.9	17.1	17.0	17.1
72.5°	13.7	12.9	12.5	12.2	11.9	11.7	11.9	11.9	11.8	11.9	11.9
75°	8.4	8.1	7.8	7.7	7.7	7.8	7.7	7.7	7.8	7.8	7.8
77.5°	4.8	4.5	4.5	4.5	4.7	4.5	4.5	4.5	4.7	4.7	4.7
80°	2.6	2.6	2.6	2.6	2.7	2.6	2.7	2.7	2.7	2.7	2.7
82.5°	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	303.5	303.5	303.5	303.3	303.5	303.5	303.3	303.3
5°	300.2	300.2	299.9	299.9	299.7	299.9	299.8	299.9
7.5°	295.8	295.8	295.4	295.4	295.3	295.2	295.1	295.2
10°	290.5	290.5	290.3	290.2	290.3	289.8	289.8	289.7
12.5°	284.6	284.4	284.2	284.3	284.2	283.8	283.7	283.8
15°	277.8	277.4	277.6	277.2	277.2	277.1	277.3	277.3
17.5°	270.3	270.0	269.8	269.9	269.7	269.8	269.7	269.6
20°	261.9	261.8	261.8	261.4	261.5	261.4	261.5	261.8
22.5°	252.3	252.2	252.3	251.9	252.2	252.2	252.5	252.5
25°	241.8	241.6	241.8	241.9	242.1	242.5	242.1	242.2
27.5°	230.0	230.3	230.7	230.8	231.2	230.9	230.7	231.1
30°	218.1	218.1	217.9	218.5	218.8	219.1	218.6	218.6
32.5°	204.5	205.0	205.0	205.2	205.5	205.5	205.5	206.0
35°	191.4	191.7	191.9	191.4	191.6	191.5	192.3	192.3
37.5°	176.8	176.8	176.9	177.7	177.7	177.4	177.6	177.6
40°	162.9	163.1	162.6	162.8	163.5	163.2	163.5	163.6
42.5°	147.8	148.6	148.1	148.4	148.2	148.4	148.5	148.5
45°	133.3	133.6	133.6	133.7	133.9	134.1	133.4	133.3
47.5°	119.2	119.3	119.7	119.1	119.8	119.1	119.8	119.0
50°	105.0	105.5	105.1	105.3	105.0	105.0	104.9	104.8
52.5°	91.5	91.3	91.3	91.2	91.2	91.5	91.2	91.6
55°	77.9	78.0	77.8	77.7	77.6	77.9	77.6	77.4
57.5°	65.1	65.4	64.9	65.1	64.3	64.7	64.7	64.9
60°	53.2	52.9	52.9	52.4	52.4	52.8	52.3	52.3
62.5°	41.3	41.5	41.1	41.6	41.6	42.1	41.8	42.1
65°	31.7	31.7	31.8	31.8	31.8	32.5	32.4	32.0
67.5°	23.9	24.0	24.1	24.0	24.3	24.1	24.1	24.3
70°	17.3	17.4	17.5	17.5	17.4	17.5	17.5	17.5
72.5°	11.9	12.1	11.9	12.1	12.2	12.1	12.1	12.2
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	4.5	4.7	4.5	4.7	4.7	4.7	4.7	4.7
80°	2.7	2.7	2.7	2.6	2.7	2.7	2.7	2.6
82.5°	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)