

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: P859763

Luminaire Tested: **LX4C08D010 EX4C089835 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859763
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 EX4C089835 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

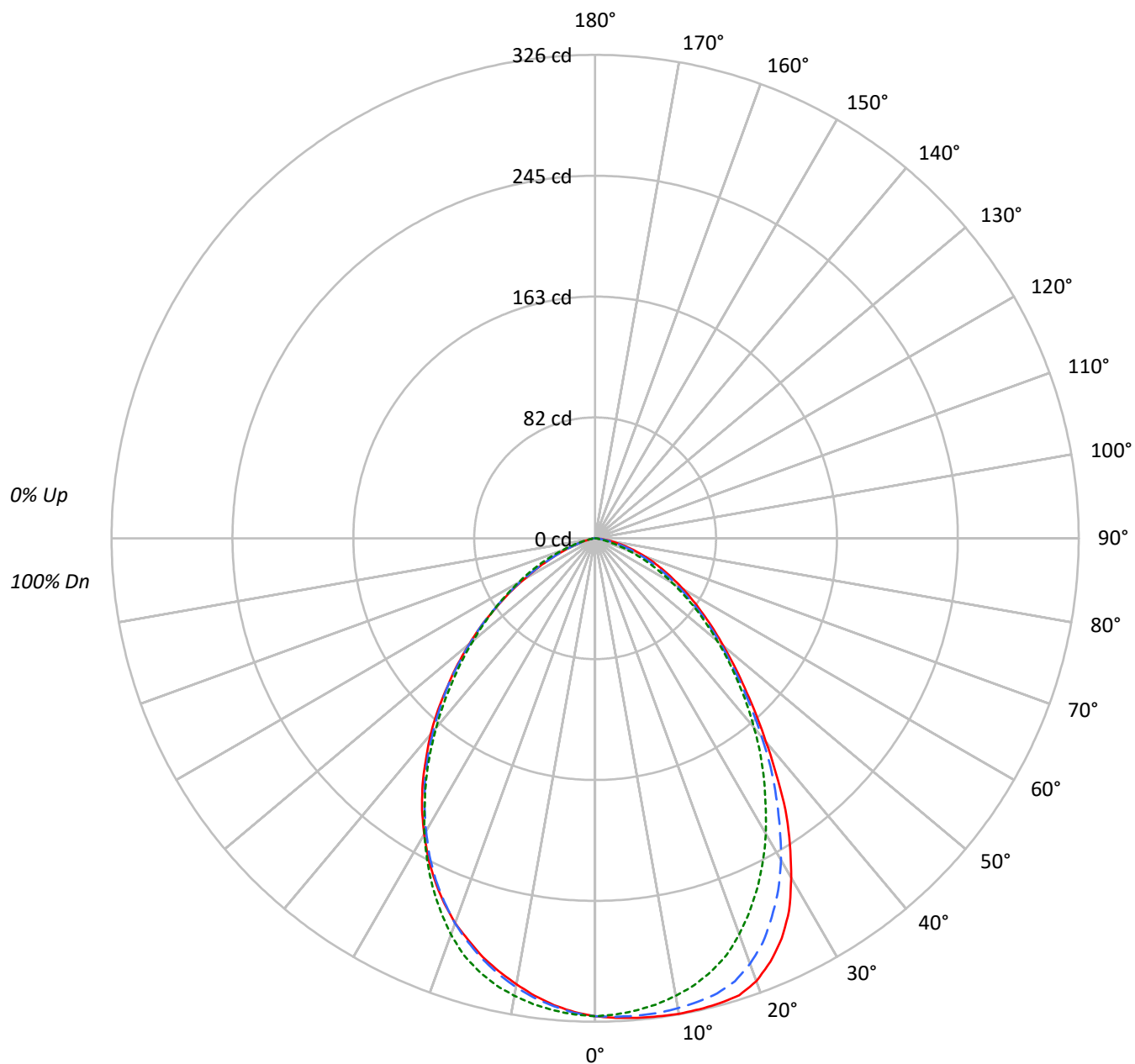
Lumens per Lamp: N/A
Luminaire Lumens: 607.3 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	39596	39596	39596
5°	40031	39414	38982
10°	40618	39084	38098
15°	41285	38461	37190
20°	41549	37156	36084
25°	40354	35149	34607
30°	37508	32656	32684
35°	33565	29785	30415
40°	28739	26702	27681
45°	24741	23542	24411
50°	21502	20489	21100
55°	18934	17628	17478
60°	16855	14693	13538
65°	14767	11773	9796
70°	12680	8333	6645
75°	10300	4842	3892
80°	7358	2052	1981
85°	2819	846	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	5.0
10°-20°	86.0	14.2
20°-30°	122.8	20.2
30°-40°	128.4	21.1
40°-50°	107.6	17.7
50°-60°	75.3	12.4
60°-70°	41.0	6.8
70°-80°	14.2	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°	239.1	39.4
0°-40°	367.5	60.5
0°-60°	550.4	90.6
0°-90°	607.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	607.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	325	323	320	317	316	31
15°	325	318	302	294	292	92
25°	298	282	259	254	255	136
35°	224	213	199	200	203	139
45°	142	139	136	140	140	111
55°	88	85	82	82	82	80
65°	51	46	40	34	34	51
75°	22	18	10	8	8	23
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°	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3
2.5°	323.7	323.3	323.4	323.4	323.4	323.3	323.4	323.3	323.3	323.3	323.0
5°	324.6	324.3	324.3	324.3	324.2	324.1	324.1	324.0	323.7	323.6	323.1
7.5°	325.2	325.0	325.0	324.9	324.7	324.6	324.5	324.1	323.7	323.4	322.9
10°	325.6	325.2	325.2	325.0	324.7	324.6	324.3	323.9	323.3	322.7	321.8
12.5°	325.3	325.0	324.9	324.6	324.1	323.9	323.6	323.0	322.1	321.2	320.1
15°	324.6	324.3	324.1	323.7	323.1	322.7	322.5	321.5	320.4	319.2	317.8
17.5°	323.1	322.7	322.3	321.7	320.8	320.5	319.9	318.6	317.0	315.3	313.2
20°	317.8	317.5	317.0	316.1	314.8	314.3	313.4	311.8	309.7	307.7	305.4
22.5°	309.0	308.6	307.8	307.1	305.9	305.0	304.3	302.0	299.7	297.5	295.3
25°	297.7	297.3	296.3	295.3	294.1	292.6	291.9	290.2	287.8	284.9	281.8
27.5°	283.2	282.0	281.6	280.5	278.6	278.1	277.0	274.7	272.5	270.0	267.4
30°	264.4	264.4	263.6	263.2	261.4	260.9	259.7	257.3	256.0	252.5	250.6
32.5°	244.4	244.2	243.5	243.2	242.2	241.3	240.1	238.8	236.1	234.3	231.7
35°	223.8	222.3	222.6	221.9	221.2	220.3	220.1	218.7	216.2	215.3	212.8
37.5°	200.4	199.8	200.6	199.6	198.9	199.0	198.1	197.2	196.2	194.5	194.0
40°	179.2	179.7	179.6	178.6	179.1	178.4	177.5	176.7	176.1	175.0	174.6
42.5°	160.2	159.5	159.3	159.3	159.4	159.4	158.9	158.3	158.3	157.1	156.1
45°	142.4	142.4	142.1	142.9	141.8	141.8	141.4	141.3	140.8	140.5	139.2
47.5°	127.1	126.9	126.8	126.6	126.5	126.5	125.8	125.2	125.0	124.3	123.6
50°	112.5	113.3	113.1	112.4	112.2	112.3	111.8	111.4	111.3	110.0	110.2
52.5°	100.4	100.2	100.5	100.1	99.5	99.6	99.2	98.6	98.2	97.6	97.0
55°	88.4	89.0	88.7	88.4	88.3	88.0	87.7	87.0	86.9	85.5	85.4
57.5°	78.3	78.2	77.9	77.3	77.2	76.9	76.9	76.3	75.6	74.8	74.3
60°	68.6	68.6	68.1	68.0	67.5	67.4	67.3	66.8	65.9	65.3	64.3
62.5°	59.1	59.4	59.1	58.8	58.4	57.9	57.6	57.2	56.5	55.9	55.0
65°	50.8	50.7	50.6	50.0	49.9	49.5	49.3	48.6	47.8	47.4	46.4
67.5°	42.9	42.5	42.5	42.3	42.0	41.6	41.4	40.7	39.8	39.3	38.3
70°	35.3	35.0	35.0	35.0	34.4	34.1	34.0	33.6	32.4	31.8	30.9
72.5°	28.4	28.3	28.1	27.7	27.4	27.4	26.9	26.1	25.5	24.9	24.2
75°	21.7	21.9	21.7	21.2	21.0	20.8	20.4	19.8	19.2	18.5	17.6
77.5°	15.9	15.6	15.3	15.3	15.2	14.6	14.5	14.0	13.3	12.8	11.9
80°	10.4	10.3	10.1	9.8	9.6	9.5	9.5	8.9	8.2	7.8	7.0
82.5°	5.7	5.6	5.6	5.4	5.1	5.1	5.0	4.5	4.1	3.8	3.5
85°	2.0	2.0	2.0	1.9	1.9	1.9	1.7	1.6	1.5	1.3	1.2
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°	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3
2.5°	322.7	322.5	322.4	322.3	322.1	322.0	321.8	321.7	321.5	321.4	321.1
5°	322.7	322.3	322.0	321.7	321.4	321.1	320.8	320.4	320.0	319.6	319.2
7.5°	322.3	321.5	321.0	320.2	320.0	319.6	318.9	318.4	317.8	317.0	316.1
10°	321.0	320.1	319.2	318.2	317.8	317.2	316.1	315.3	314.3	313.3	312.5
12.5°	319.0	317.6	316.4	315.1	314.3	313.7	312.3	311.0	309.9	308.7	307.2
15°	316.0	314.4	312.8	311.0	310.1	309.3	307.4	305.9	303.9	302.4	301.0
17.5°	311.2	308.7	306.8	304.4	303.2	302.3	300.5	298.2	296.3	294.7	293.0
20°	302.9	300.5	297.8	295.3	293.8	292.8	290.3	287.8	285.9	284.2	282.3
22.5°	292.0	289.0	287.1	283.8	282.7	281.3	278.4	276.2	274.0	272.2	270.6
25°	278.8	276.2	273.4	270.5	269.0	267.4	264.9	262.6	261.3	259.3	257.2
27.5°	263.5	261.4	258.1	255.4	254.1	252.8	250.5	248.4	246.4	245.1	243.0
30°	247.4	244.9	241.9	239.2	238.5	236.9	234.9	233.3	231.1	230.2	229.4
32.5°	229.6	226.8	224.5	222.8	221.3	220.1	219.0	216.4	216.0	213.8	213.6
35°	210.4	209.1	207.0	205.5	204.2	203.4	201.5	200.3	198.9	198.6	197.7
37.5°	192.1	190.7	188.6	187.3	186.4	186.3	184.9	184.1	183.2	182.7	181.6
40°	173.0	172.4	170.7	170.4	169.1	168.9	168.2	167.3	166.5	166.5	166.6
42.5°	155.4	154.7	153.9	153.0	152.3	152.3	152.0	151.7	151.4	151.1	151.7
45°	138.9	138.0	137.4	136.6	137.0	136.2	136.0	136.0	135.5	135.5	136.3
47.5°	123.6	122.4	122.0	121.7	121.7	121.8	120.7	121.1	120.9	121.2	121.5
50°	109.6	108.5	107.8	107.8	108.0	107.5	106.9	107.4	106.9	107.2	108.1
52.5°	96.6	95.6	95.1	95.1	94.4	94.3	94.5	94.1	94.2	94.3	94.8
55°	84.5	83.9	83.3	82.7	82.8	82.6	82.0	82.0	82.1	82.3	82.9
57.5°	73.7	72.9	72.0	71.8	71.5	71.5	70.9	70.8	71.0	70.4	70.4
60°	63.5	63.0	61.9	61.4	61.4	60.8	60.4	60.6	60.0	59.8	60.0
62.5°	54.0	53.5	52.8	52.1	51.8	51.5	50.9	50.7	50.5	49.9	49.2
65°	45.6	44.8	43.9	43.3	43.0	42.4	42.0	41.6	40.8	40.5	39.8
67.5°	37.3	36.5	35.6	35.2	34.9	34.4	33.8	33.2	32.4	31.4	30.5
70°	30.0	28.9	28.4	27.4	27.1	26.7	25.8	25.1	24.3	23.2	22.3
72.5°	22.9	22.2	21.4	20.6	20.0	19.6	18.8	17.8	16.9	16.2	15.3
75°	16.5	16.1	15.2	14.1	13.9	13.4	12.5	11.9	11.1	10.2	9.5
77.5°	11.1	10.4	9.8	8.9	8.6	8.2	7.7	7.0	6.6	6.0	5.4
80°	6.6	6.0	5.6	5.0	4.7	4.5	4.1	3.6	3.2	2.9	2.9
82.5°	3.2	2.8	2.6	2.2	2.1	2.0	1.7	1.6	1.3	1.3	1.3
85°	1.2	0.9	0.9	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°	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3
2.5°	321.0	320.8	320.8	320.6	320.6	320.5	320.5	320.4	320.4	320.2	320.2
5°	318.8	318.4	318.2	317.9	317.9	317.5	317.3	317.0	316.9	316.9	316.7
7.5°	315.7	315.1	314.7	314.3	314.2	313.5	313.1	313.1	312.6	312.3	312.1
10°	311.6	310.7	310.0	309.6	309.1	308.7	308.1	307.7	307.4	306.8	306.6
12.5°	306.0	305.4	304.3	303.7	303.5	302.7	301.8	301.3	301.1	300.7	300.3
15°	299.7	298.3	297.3	296.7	296.7	295.4	295.0	294.2	293.7	293.4	293.2
17.5°	291.5	290.2	289.1	288.3	288.0	287.1	286.3	286.1	285.4	285.7	285.1
20°	281.0	279.8	279.1	278.0	278.0	277.3	277.2	276.5	276.3	276.0	276.3
22.5°	269.7	268.3	267.1	267.0	267.0	266.1	266.0	265.8	265.4	265.7	265.6
25°	256.5	255.4	254.7	254.6	254.6	254.1	253.6	253.8	254.2	254.1	254.4
27.5°	242.6	241.7	241.4	241.3	241.0	240.9	241.2	241.2	241.6	242.0	242.6
30°	227.8	227.6	227.2	227.0	226.8	227.4	227.7	228.0	227.9	228.6	229.2
32.5°	212.9	212.4	212.3	212.6	212.9	212.8	213.6	213.8	214.0	214.9	215.3
35°	198.0	197.8	197.5	197.5	197.7	198.7	198.7	199.6	200.0	200.3	201.3
37.5°	181.8	182.3	182.5	182.9	183.1	183.4	183.7	184.5	185.0	185.6	186.0
40°	167.0	166.8	167.9	167.2	167.5	168.5	169.1	168.9	169.7	170.4	170.9
42.5°	151.3	151.7	152.0	152.2	152.8	152.9	153.6	154.4	154.7	155.5	155.8
45°	136.1	136.2	136.7	137.2	137.6	138.6	138.8	139.2	139.9	139.9	140.3
47.5°	121.7	122.2	122.2	123.0	123.6	123.4	124.3	124.6	124.4	125.0	125.3
50°	108.0	108.7	108.5	109.1	109.3	109.4	110.2	110.4	110.0	110.6	110.7
52.5°	94.8	95.1	95.7	95.8	95.6	96.2	96.0	96.4	96.3	96.8	96.3
55°	82.8	82.7	82.7	82.9	82.7	82.9	83.2	82.7	82.3	82.8	82.7
57.5°	70.8	70.8	70.5	70.9	70.5	70.2	70.0	69.6	69.3	69.3	69.2
60°	59.5	59.2	58.8	58.6	58.6	58.0	57.8	57.2	57.2	56.8	56.3
62.5°	49.0	48.3	48.0	48.0	47.7	47.1	46.0	45.2	45.0	44.2	44.1
65°	39.1	38.4	38.1	37.3	36.7	36.5	35.3	34.4	34.1	33.4	33.4
67.5°	30.0	29.0	27.9	27.4	27.0	26.1	25.8	25.1	24.8	24.8	24.8
70°	21.6	20.7	19.6	19.2	19.0	18.2	17.8	17.7	18.1	18.0	18.1
72.5°	14.5	13.6	13.1	12.9	12.7	12.3	12.5	12.7	12.4	12.5	12.7
75°	8.8	8.6	8.2	8.0	8.0	8.2	8.0	8.0	8.2	8.2	8.3
77.5°	5.1	4.8	4.8	4.7	5.0	4.8	4.8	4.8	5.0	5.0	5.0
80°	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9	2.9	2.9
82.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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°	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3
2.5°	320.0	320.0	320.0	319.8	319.9	319.9	319.8	319.8
5°	316.6	316.4	316.1	316.1	315.9	316.1	316.0	316.1
7.5°	311.8	311.8	311.5	311.5	311.3	311.2	311.0	311.2
10°	306.2	306.2	306.0	305.9	306.0	305.5	305.5	305.4
12.5°	300.1	299.8	299.5	299.7	299.5	299.2	299.1	299.2
15°	292.8	292.5	292.6	292.2	292.2	292.1	292.4	292.4
17.5°	284.9	284.6	284.5	284.6	284.3	284.5	284.3	284.2
20°	276.2	276.0	276.0	275.5	275.6	275.5	275.6	276.0
22.5°	266.0	265.8	266.0	265.6	265.8	265.8	266.2	266.2
25°	254.8	254.7	254.9	255.0	255.2	255.6	255.2	255.3
27.5°	242.5	242.8	243.2	243.3	243.8	243.4	243.2	243.5
30°	229.9	229.9	229.8	230.2	230.6	231.1	230.4	230.4
32.5°	215.5	216.2	216.2	216.2	216.6	216.6	216.6	217.1
35°	201.8	202.2	202.2	201.8	202.0	201.9	202.8	202.8
37.5°	186.4	186.4	186.6	187.4	187.4	187.0	187.3	187.3
40°	171.7	171.9	171.4	171.7	172.3	172.0	172.3	172.6
42.5°	155.8	156.7	156.1	156.4	156.3	156.4	156.5	156.5
45°	140.5	140.8	140.8	140.9	141.2	141.4	140.6	140.5
47.5°	125.6	125.8	126.2	125.6	126.3	125.6	126.3	125.5
50°	110.7	111.2	110.8	111.0	110.7	110.7	110.6	110.4
52.5°	96.4	96.3	96.3	96.2	96.2	96.4	96.2	96.6
55°	82.1	82.3	82.0	82.0	81.8	82.1	81.8	81.6
57.5°	68.7	68.9	68.4	68.7	67.8	68.1	68.3	68.4
60°	56.2	55.7	55.7	55.3	55.3	55.6	55.1	55.1
62.5°	43.5	43.8	43.3	43.9	43.9	44.4	44.1	44.4
65°	33.4	33.4	33.6	33.6	33.6	34.3	34.1	33.7
67.5°	25.1	25.3	25.4	25.3	25.7	25.4	25.4	25.5
70°	18.2	18.4	18.5	18.5	18.4	18.5	18.5	18.5
72.5°	12.7	12.8	12.7	12.8	12.9	12.8	12.8	12.9
75°	8.3	8.3	8.2	8.2	8.2	8.2	8.3	8.2
77.5°	4.8	5.0	4.8	5.0	5.0	5.0	5.0	5.0
80°	2.9	2.9	2.9	2.8	2.9	2.9	2.9	2.8
82.5°	1.5	1.5	1.3	1.3	1.5	1.5	1.5	1.5
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)