

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: P858909

Luminaire Tested: **LX4C05D010 EX4C059850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858909
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: LX4C05D010 EX4C059850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

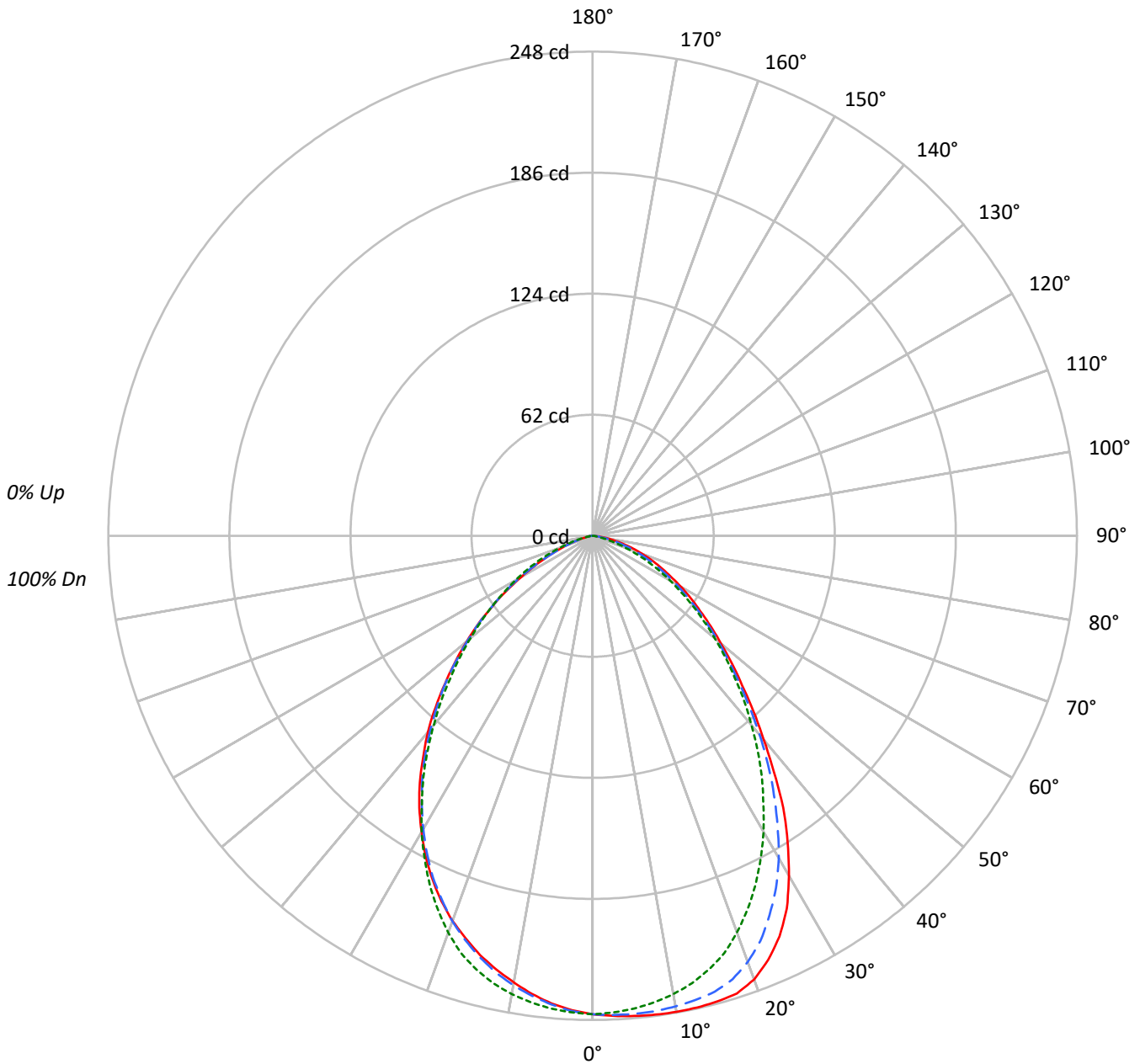
Lumens per Lamp: N/A
Luminaire Lumens: 461.9 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	45	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°	30111	30111	30111
5°	30448	29980	29659
10°	30888	29740	28979
15°	31403	29253	28286
20°	31612	28266	27442
25°	30689	26745	26325
30°	28528	24840	24854
35°	25526	22661	23141
40°	21859	20303	21057
45°	18816	17895	18573
50°	16360	15577	16055
55°	14393	13408	13301
60°	12826	11204	10295
65°	11221	8983	7471
70°	9627	6358	5065
75°	7832	3702	2943
80°	5589	1556	1486
85°	2114	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	5.0
10°-20°	65.4	14.2
20°-30°	93.4	20.2
30°-40°	97.7	21.1
40°-50°	81.8	17.7
50°-60°	57.3	12.4
60°-70°	31.2	6.8
70°-80°	10.8	2.3
80°-90°	1.2	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°	181.9	39.4
0°-40°	279.5	60.5
0°-60°	418.7	90.6
0°-90°	461.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	247	246	243	241	240	24
15°	247	242	230	223	222	70
25°	226	214	197	193	194	103
35°	170	162	151	152	154	106
45°	108	106	103	106	107	84
55°	67	65	63	63	62	61
65°	39	35	31	26	26	38
75°	16	13	8	6	6	18
85°	2	1	0	0	0	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°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	246.2	245.9	246.0	246.0	246.0	245.9	246.0	245.9	245.9	245.9	245.7
5°	246.9	246.7	246.7	246.7	246.7	246.5	246.5	246.4	246.2	246.1	245.8
7.5°	247.4	247.2	247.2	247.1	247.0	246.9	246.8	246.5	246.2	246.0	245.6
10°	247.6	247.4	247.4	247.2	247.0	246.9	246.7	246.3	245.9	245.5	244.8
12.5°	247.5	247.2	247.1	246.9	246.5	246.3	246.1	245.7	245.1	244.3	243.5
15°	246.9	246.7	246.5	246.2	245.8	245.5	245.3	244.5	243.7	242.7	241.8
17.5°	245.8	245.5	245.1	244.7	244.1	243.8	243.4	242.4	241.1	239.8	238.2
20°	241.8	241.5	241.1	240.5	239.4	239.1	238.5	237.2	235.6	234.0	232.3
22.5°	235.1	234.7	234.2	233.6	232.7	232.0	231.4	229.7	227.9	226.2	224.6
25°	226.4	226.1	225.4	224.6	223.7	222.6	222.0	220.7	218.9	216.7	214.4
27.5°	215.4	214.5	214.2	213.3	212.0	211.5	210.7	209.0	207.3	205.5	203.4
30°	201.1	201.1	200.6	200.1	198.9	198.4	197.5	195.7	194.8	192.2	190.7
32.5°	185.9	185.7	185.2	184.9	184.2	183.5	182.6	181.6	179.6	178.3	176.2
35°	170.2	169.2	169.3	168.7	168.3	167.6	167.5	166.4	164.5	163.7	161.9
37.5°	152.4	152.0	152.7	151.8	151.3	151.4	150.6	150.0	149.2	147.9	147.5
40°	136.3	136.7	136.6	135.8	136.3	135.7	135.0	134.3	133.9	133.1	132.9
42.5°	121.9	121.4	121.1	121.1	121.3	121.3	120.8	120.4	120.4	119.5	118.7
45°	108.3	108.3	108.2	108.7	107.8	107.8	107.5	107.5	107.1	106.9	105.8
47.5°	96.7	96.6	96.4	96.3	96.2	96.2	95.7	95.2	95.1	94.5	94.0
50°	85.6	86.1	86.0	85.5	85.3	85.4	85.1	84.7	84.6	83.7	83.8
52.5°	76.3	76.2	76.4	76.2	75.7	75.8	75.4	75.1	74.6	74.2	73.8
55°	67.2	67.7	67.5	67.2	67.1	67.0	66.6	66.2	66.1	65.0	64.9
57.5°	59.6	59.5	59.3	58.9	58.8	58.4	58.4	58.1	57.5	57.0	56.4
60°	52.2	52.2	51.8	51.7	51.4	51.3	51.2	50.8	50.1	49.7	49.0
62.5°	44.9	45.1	44.9	44.7	44.4	44.1	43.9	43.5	43.0	42.5	41.8
65°	38.6	38.5	38.4	38.1	38.0	37.6	37.5	36.9	36.4	36.0	35.2
67.5°	32.6	32.4	32.4	32.1	31.9	31.7	31.5	30.9	30.2	29.9	29.2
70°	26.8	26.7	26.7	26.7	26.2	25.9	25.9	25.5	24.6	24.3	23.5
72.5°	21.6	21.5	21.4	21.1	20.9	20.9	20.4	19.9	19.4	18.9	18.4
75°	16.5	16.7	16.5	16.1	16.1	15.9	15.5	15.1	14.6	14.1	13.4
77.5°	12.0	11.9	11.7	11.7	11.5	11.1	11.1	10.6	10.1	9.7	9.0
80°	7.9	7.8	7.7	7.5	7.3	7.2	7.1	6.8	6.2	6.0	5.4
82.5°	4.4	4.3	4.3	4.2	3.8	3.8	3.7	3.4	3.1	2.9	2.7
85°	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.2	1.2	1.1	0.9
87.5°	0.2	0.1	0.2	0.1	0.2	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°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	245.5	245.3	245.2	245.1	245.1	245.0	244.8	244.6	244.5	244.4	244.2
5°	245.5	245.1	245.0	244.6	244.4	244.2	244.0	243.7	243.4	243.1	242.8
7.5°	245.1	244.5	244.2	243.6	243.4	243.1	242.6	242.2	241.8	241.1	240.5
10°	244.2	243.5	242.7	242.0	241.8	241.2	240.5	239.8	239.1	238.4	237.6
12.5°	242.6	241.7	240.7	239.6	239.1	238.6	237.6	236.6	235.7	234.8	233.7
15°	240.4	239.2	237.9	236.5	235.9	235.3	233.8	232.7	231.1	230.0	228.9
17.5°	236.8	234.8	233.3	231.5	230.6	229.9	228.6	226.9	225.4	224.2	222.8
20°	230.4	228.6	226.5	224.5	223.6	222.7	220.8	218.9	217.5	216.2	214.7
22.5°	222.1	219.8	218.3	215.9	215.0	214.0	211.7	210.0	208.4	207.2	205.8
25°	212.1	210.0	208.0	205.7	204.7	203.4	201.5	199.8	198.8	197.3	195.6
27.5°	200.5	198.9	196.3	194.3	193.2	192.3	190.6	189.0	187.4	186.4	184.9
30°	188.2	186.3	184.1	181.9	181.4	180.2	178.6	177.5	175.9	175.1	174.5
32.5°	174.7	172.6	170.9	169.5	168.4	167.5	166.6	164.6	164.3	162.7	162.4
35°	160.0	159.0	157.4	156.3	155.3	154.7	153.3	152.3	151.3	151.1	150.3
37.5°	146.2	145.0	143.5	142.4	141.8	141.7	140.6	140.1	139.3	138.9	138.2
40°	131.6	131.2	129.8	129.7	128.6	128.5	128.0	127.3	126.6	126.6	126.7
42.5°	118.2	117.6	117.1	116.5	115.8	115.8	115.6	115.4	115.2	114.9	115.4
45°	105.7	105.0	104.5	103.9	104.2	103.6	103.4	103.4	103.2	103.0	103.7
47.5°	94.0	93.1	92.7	92.6	92.6	92.7	91.8	92.1	92.0	92.2	92.5
50°	83.4	82.6	82.0	82.0	82.1	81.8	81.3	81.7	81.3	81.5	82.2
52.5°	73.5	72.7	72.4	72.4	71.9	71.8	72.0	71.5	71.6	71.8	72.1
55°	64.3	63.8	63.3	62.9	63.0	62.8	62.4	62.3	62.5	62.6	63.0
57.5°	56.1	55.5	54.8	54.6	54.4	54.4	54.0	53.9	54.0	53.5	53.5
60°	48.2	47.9	47.1	46.7	46.7	46.3	45.9	46.1	45.7	45.6	45.7
62.5°	41.0	40.8	40.1	39.6	39.4	39.2	38.7	38.5	38.3	38.0	37.5
65°	34.7	34.1	33.4	33.0	32.7	32.3	31.9	31.6	31.0	30.9	30.2
67.5°	28.4	27.7	27.0	26.8	26.5	26.2	25.8	25.2	24.6	23.8	23.2
70°	22.8	21.9	21.6	20.9	20.7	20.2	19.6	19.2	18.5	17.7	16.9
72.5°	17.5	16.9	16.3	15.6	15.2	14.9	14.4	13.6	12.8	12.3	11.7
75°	12.6	12.2	11.5	10.8	10.5	10.2	9.5	9.0	8.5	7.8	7.1
77.5°	8.5	7.9	7.5	6.8	6.6	6.2	5.9	5.4	5.0	4.5	4.2
80°	5.0	4.5	4.3	3.7	3.6	3.4	3.1	2.8	2.4	2.2	2.1
82.5°	2.4	2.1	2.0	1.7	1.6	1.5	1.3	1.2	1.1	1.1	1.1
85°	0.9	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	244.2	244.1	244.0	243.9	243.9	243.8	243.8	243.7	243.7	243.6	243.6
5°	242.5	242.2	242.0	241.8	241.8	241.5	241.3	241.1	241.0	241.0	240.9
7.5°	240.1	239.7	239.3	239.1	239.0	238.5	238.1	238.1	237.7	237.6	237.4
10°	237.0	236.3	235.8	235.5	235.2	234.8	234.3	234.1	233.8	233.3	233.2
12.5°	232.7	232.3	231.4	231.1	230.9	230.3	229.5	229.2	229.1	228.7	228.5
15°	227.9	226.9	226.1	225.7	225.7	224.7	224.4	223.8	223.4	223.1	223.0
17.5°	221.7	220.7	219.9	219.3	219.1	218.3	217.8	217.6	217.1	217.3	216.8
20°	213.8	212.9	212.3	211.4	211.4	211.0	210.8	210.4	210.1	209.9	210.1
22.5°	205.1	204.1	203.1	203.0	203.0	202.4	202.3	202.2	201.8	202.2	202.1
25°	195.0	194.3	193.7	193.6	193.6	193.2	192.9	193.1	193.3	193.2	193.5
27.5°	184.6	183.8	183.6	183.5	183.3	183.3	183.4	183.4	183.7	184.1	184.5
30°	173.3	173.1	172.8	172.7	172.6	173.0	173.2	173.4	173.4	173.9	174.3
32.5°	161.9	161.6	161.5	161.7	161.9	161.9	162.4	162.7	162.8	163.5	163.7
35°	150.5	150.4	150.3	150.3	150.3	151.2	151.2	151.8	152.1	152.3	153.1
37.5°	138.3	138.7	138.8	139.1	139.2	139.6	139.7	140.4	140.7	141.2	141.5
40°	127.1	126.9	127.7	127.2	127.3	128.2	128.6	128.5	129.0	129.7	130.0
42.5°	115.1	115.4	115.6	115.7	116.2	116.4	116.8	117.4	117.6	118.3	118.5
45°	103.5	103.6	104.0	104.3	104.6	105.4	105.6	105.8	106.5	106.5	106.7
47.5°	92.6	92.9	92.9	93.5	94.0	93.9	94.5	94.7	94.6	95.1	95.3
50°	82.1	82.7	82.6	82.9	83.1	83.2	83.8	84.0	83.6	84.1	84.2
52.5°	72.1	72.4	72.8	72.9	72.7	73.1	72.9	73.3	73.2	73.7	73.2
55°	63.0	62.9	62.9	63.0	62.9	63.0	63.2	62.9	62.6	63.0	62.9
57.5°	53.9	53.9	53.7	54.0	53.7	53.3	53.2	53.0	52.7	52.7	52.6
60°	45.2	45.0	44.7	44.6	44.6	44.1	44.0	43.5	43.5	43.2	42.8
62.5°	37.3	36.7	36.5	36.5	36.3	35.8	35.0	34.4	34.2	33.6	33.5
65°	29.7	29.2	29.0	28.4	27.9	27.7	26.8	26.2	25.9	25.3	25.4
67.5°	22.8	22.0	21.2	20.9	20.5	19.9	19.6	19.2	18.8	18.8	18.8
70°	16.4	15.8	14.9	14.6	14.4	13.8	13.6	13.5	13.7	13.6	13.7
72.5°	11.1	10.3	10.0	9.8	9.6	9.4	9.5	9.6	9.5	9.5	9.6
75°	6.7	6.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3
77.5°	3.8	3.7	3.7	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	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°	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1
2.5°	243.4	243.4	243.4	243.2	243.4	243.4	243.2	243.2
5°	240.8	240.7	240.5	240.5	240.3	240.5	240.4	240.5
7.5°	237.2	237.2	236.9	236.9	236.8	236.8	236.6	236.8
10°	232.9	232.9	232.7	232.7	232.7	232.4	232.4	232.3
12.5°	228.2	228.0	227.8	227.9	227.8	227.6	227.5	227.6
15°	222.8	222.5	222.6	222.3	222.3	222.2	222.4	222.4
17.5°	216.7	216.5	216.3	216.4	216.2	216.3	216.2	216.2
20°	210.0	209.9	209.9	209.6	209.6	209.6	209.6	209.9
22.5°	202.3	202.2	202.3	202.1	202.2	202.2	202.5	202.5
25°	193.9	193.7	194.0	194.0	194.1	194.4	194.1	194.2
27.5°	184.4	184.7	184.9	185.0	185.4	185.1	184.9	185.2
30°	174.9	174.9	174.8	175.1	175.4	175.8	175.2	175.2
32.5°	163.9	164.4	164.4	164.5	164.8	164.8	164.8	165.2
35°	153.5	153.7	153.8	153.5	153.6	153.6	154.3	154.3
37.5°	141.8	141.8	141.9	142.5	142.5	142.2	142.4	142.4
40°	130.6	130.7	130.4	130.6	131.0	130.8	131.0	131.3
42.5°	118.5	119.1	118.8	119.0	118.9	119.0	119.0	119.0
45°	106.9	107.1	107.1	107.2	107.4	107.5	107.0	106.9
47.5°	95.6	95.7	96.0	95.5	96.0	95.5	96.0	95.4
50°	84.2	84.5	84.3	84.4	84.2	84.2	84.1	84.0
52.5°	73.3	73.2	73.2	73.1	73.1	73.3	73.1	73.5
55°	62.5	62.6	62.4	62.3	62.2	62.5	62.2	62.1
57.5°	52.3	52.4	52.1	52.3	51.5	51.8	51.9	52.1
60°	42.7	42.4	42.4	42.0	42.0	42.4	41.9	41.9
62.5°	33.1	33.3	33.0	33.4	33.4	33.7	33.5	33.7
65°	25.3	25.4	25.5	25.5	25.5	26.1	25.9	25.7
67.5°	19.2	19.3	19.4	19.3	19.5	19.4	19.4	19.4
70°	13.8	13.9	14.1	14.1	13.9	14.1	14.1	14.1
72.5°	9.6	9.7	9.6	9.7	9.8	9.7	9.7	9.8
75°	6.3	6.3	6.2	6.2	6.2	6.2	6.3	6.2
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)