

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: P858857

Luminaire Tested: **LX4C05D010 EX4C059827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858857
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 EX4C059827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

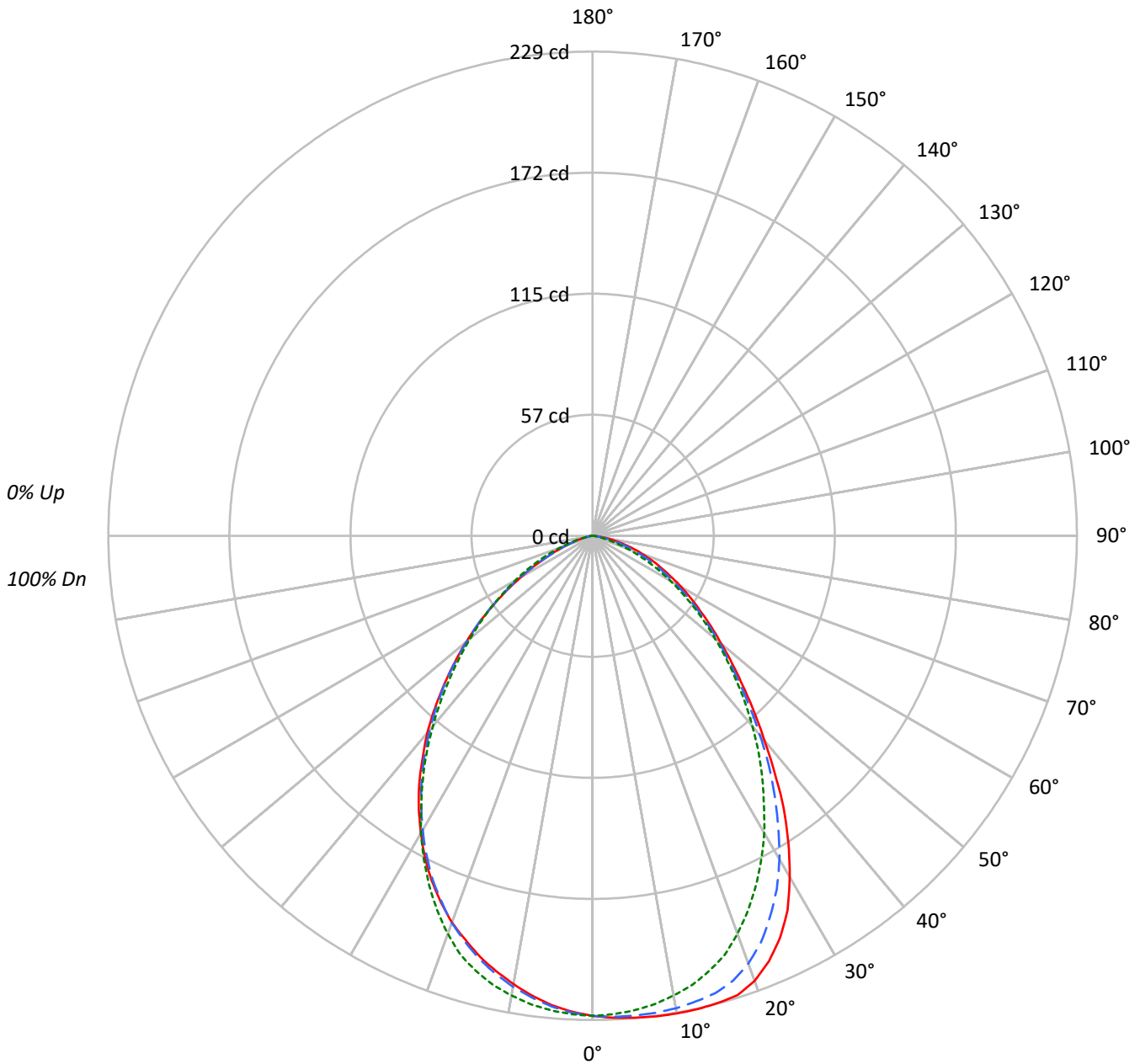
Lumens per Lamp: N/A
Luminaire Lumens: 428.1 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	27900	27900	27900
5°	28216	27785	27476
10°	28617	27545	26858
15°	29100	27104	26213
20°	29285	26187	25442
25°	28439	24766	24400
30°	26443	23024	23038
35°	23651	20982	21432
40°	20271	18828	19501
45°	17444	16592	17218
50°	15156	14430	14870
55°	13323	12423	12316
60°	11868	10369	9558
65°	10407	8285	6889
70°	8944	5855	4670
75°	7215	3370	2753
80°	5165	1486	1415
85°	1973	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	5.0
10°-20°	60.6	14.2
20°-30°	86.5	20.2
30°-40°	90.5	21.1
40°-50°	75.8	17.7
50°-60°	53.1	12.4
60°-70°	28.9	6.8
70°-80°	10.0	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°	168.5	39.4
0°-40°	259.0	60.5
0°-60°	388.0	90.6
0°-90°	428.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	227	227	227	227	227	
5°	229	228	225	223	223	22
15°	229	224	213	207	206	65
25°	210	199	183	179	180	96
35°	158	150	140	141	143	98
45°	100	98	96	99	99	78
55°	62	60	58	58	58	56
65°	36	33	28	24	24	36
75°	15	12	7	6	6	16
85°	1	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°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	228.2	227.9	228.0	228.0	228.0	227.9	228.0	227.9	227.9	227.8	227.7
5°	228.8	228.6	228.6	228.6	228.6	228.5	228.5	228.4	228.2	228.1	227.8
7.5°	229.3	229.1	229.1	229.0	228.9	228.8	228.7	228.5	228.2	228.0	227.6
10°	229.4	229.3	229.3	229.1	228.9	228.8	228.6	228.3	227.9	227.5	226.9
12.5°	229.3	229.1	229.0	228.8	228.5	228.3	228.1	227.7	227.0	226.4	225.6
15°	228.8	228.6	228.5	228.2	227.8	227.5	227.3	226.6	225.8	225.0	224.0
17.5°	227.8	227.5	227.1	226.8	226.1	225.9	225.4	224.6	223.5	222.2	220.7
20°	224.0	223.8	223.5	222.8	221.9	221.5	220.9	219.8	218.3	216.8	215.3
22.5°	217.8	217.5	217.0	216.4	215.6	215.0	214.5	212.9	211.3	209.6	208.1
25°	209.8	209.6	208.8	208.1	207.3	206.3	205.7	204.5	202.9	200.8	198.7
27.5°	199.6	198.8	198.5	197.7	196.4	196.0	195.2	193.7	192.1	190.4	188.5
30°	186.4	186.4	185.8	185.5	184.2	183.9	183.0	181.4	180.5	178.0	176.7
32.5°	172.3	172.1	171.7	171.4	170.7	170.1	169.3	168.4	166.4	165.2	163.3
35°	157.7	156.7	156.9	156.4	156.0	155.3	155.2	154.2	152.4	151.8	150.0
37.5°	141.3	140.8	141.4	140.6	140.2	140.3	139.6	139.0	138.3	137.1	136.7
40°	126.4	126.6	126.5	125.9	126.3	125.8	125.1	124.5	124.1	123.3	123.1
42.5°	113.0	112.4	112.3	112.3	112.4	112.4	112.0	111.6	111.6	110.8	110.0
45°	100.4	100.4	100.2	100.7	100.0	100.0	99.7	99.6	99.3	99.1	98.1
47.5°	89.5	89.4	89.4	89.3	89.2	89.2	88.6	88.2	88.1	87.7	87.1
50°	79.3	79.8	79.6	79.3	79.1	79.2	78.8	78.6	78.5	77.6	77.7
52.5°	70.7	70.7	70.8	70.6	70.2	70.3	69.9	69.6	69.2	68.8	68.4
55°	62.2	62.7	62.5	62.2	62.2	62.1	61.8	61.4	61.3	60.3	60.2
57.5°	55.2	55.1	54.9	54.5	54.4	54.1	54.1	53.8	53.3	52.8	52.3
60°	48.3	48.3	48.1	48.0	47.6	47.5	47.4	47.1	46.5	46.0	45.3
62.5°	41.6	41.8	41.6	41.4	41.1	40.8	40.7	40.4	39.9	39.4	38.8
65°	35.8	35.8	35.7	35.3	35.2	34.9	34.8	34.2	33.7	33.4	32.6
67.5°	30.2	30.0	30.0	29.8	29.6	29.3	29.2	28.6	28.0	27.7	27.0
70°	24.9	24.7	24.7	24.7	24.3	24.0	23.9	23.6	22.8	22.5	21.8
72.5°	20.0	19.9	19.8	19.5	19.3	19.3	19.0	18.5	18.0	17.6	17.0
75°	15.2	15.4	15.2	15.0	14.9	14.7	14.4	14.0	13.6	13.0	12.4
77.5°	11.1	11.0	10.8	10.8	10.7	10.3	10.3	9.9	9.4	9.0	8.4
80°	7.3	7.2	7.0	6.9	6.8	6.7	6.6	6.3	5.8	5.5	5.0
82.5°	4.0	3.9	3.9	3.8	3.6	3.6	3.5	3.1	2.9	2.7	2.4
85°	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.8
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°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	227.5	227.3	227.2	227.1	227.0	226.9	226.9	226.7	226.6	226.5	226.3
5°	227.5	227.1	226.9	226.7	226.5	226.3	226.1	225.8	225.5	225.3	225.0
7.5°	227.1	226.6	226.2	225.7	225.5	225.3	224.8	224.5	224.0	223.5	222.8
10°	226.2	225.6	225.0	224.3	224.0	223.6	222.8	222.2	221.5	220.8	220.3
12.5°	224.9	223.9	223.0	222.0	221.5	221.1	220.2	219.3	218.4	217.6	216.5
15°	222.8	221.6	220.5	219.2	218.6	218.0	216.6	215.6	214.2	213.1	212.1
17.5°	219.4	217.6	216.2	214.6	213.7	213.0	211.9	210.2	208.8	207.8	206.5
20°	213.5	211.9	209.9	208.0	207.2	206.3	204.6	202.9	201.5	200.3	199.0
22.5°	205.8	203.7	202.3	200.0	199.3	198.3	196.2	194.7	193.2	191.9	190.7
25°	196.5	194.7	192.7	190.7	189.7	188.5	186.7	185.1	184.1	182.7	181.3
27.5°	185.7	184.2	181.9	180.0	179.1	178.2	176.6	175.0	173.6	172.7	171.3
30°	174.3	172.6	170.5	168.6	168.1	167.0	165.5	164.4	162.9	162.3	161.7
32.5°	161.9	159.9	158.3	157.0	156.1	155.2	154.4	152.5	152.2	150.7	150.5
35°	148.2	147.4	145.9	144.8	143.9	143.4	142.1	141.2	140.2	139.9	139.3
37.5°	135.4	134.4	133.0	132.0	131.4	131.3	130.4	129.8	129.1	128.8	128.1
40°	122.0	121.5	120.3	120.1	119.1	119.0	118.5	117.9	117.4	117.4	117.4
42.5°	109.5	109.1	108.5	107.9	107.4	107.4	107.1	106.9	106.7	106.5	106.9
45°	97.9	97.2	96.8	96.3	96.5	96.0	95.9	95.9	95.6	95.5	96.1
47.5°	87.1	86.3	86.0	85.8	85.8	85.9	85.1	85.3	85.3	85.4	85.7
50°	77.2	76.5	76.0	76.0	76.1	75.7	75.4	75.6	75.4	75.5	76.2
52.5°	68.0	67.3	67.1	67.1	66.5	66.4	66.6	66.3	66.4	66.4	66.8
55°	59.6	59.1	58.7	58.2	58.3	58.1	57.9	57.8	57.9	58.0	58.4
57.5°	52.0	51.4	50.7	50.6	50.4	50.4	49.9	49.8	50.0	49.6	49.6
60°	44.8	44.4	43.6	43.3	43.3	42.9	42.5	42.7	42.3	42.2	42.3
62.5°	38.0	37.7	37.2	36.7	36.5	36.4	35.9	35.8	35.6	35.2	34.7
65°	32.1	31.6	30.9	30.6	30.3	29.9	29.6	29.2	28.7	28.5	28.0
67.5°	26.3	25.7	25.1	24.8	24.5	24.3	23.8	23.5	22.8	22.1	21.5
70°	21.1	20.3	20.0	19.3	19.2	18.8	18.2	17.7	17.1	16.3	15.7
72.5°	16.1	15.6	15.1	14.5	14.1	13.8	13.3	12.6	11.9	11.4	10.8
75°	11.6	11.3	10.7	10.0	9.8	9.5	8.8	8.4	7.8	7.1	6.6
77.5°	7.8	7.3	6.9	6.3	6.2	5.8	5.4	5.0	4.6	4.2	3.8
80°	4.6	4.2	3.9	3.5	3.3	3.1	2.9	2.5	2.2	2.1	2.1
82.5°	2.2	2.0	1.9	1.6	1.5	1.4	1.2	1.2	1.0	1.0	1.0
85°	0.8	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°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	226.2	226.1	226.1	226.0	226.0	225.9	225.9	225.8	225.8	225.7	225.7
5°	224.7	224.5	224.3	224.1	224.1	223.8	223.6	223.5	223.4	223.4	223.2
7.5°	222.5	222.1	221.8	221.5	221.4	221.0	220.7	220.7	220.3	220.2	220.0
10°	219.6	219.0	218.5	218.2	217.9	217.6	217.1	216.9	216.6	216.2	216.2
12.5°	215.7	215.3	214.5	214.1	213.9	213.4	212.7	212.3	212.2	212.0	211.7
15°	211.3	210.3	209.6	209.1	209.1	208.2	207.9	207.4	207.1	206.8	206.7
17.5°	205.5	204.5	203.8	203.2	203.0	202.3	201.8	201.6	201.2	201.4	200.9
20°	198.1	197.3	196.7	195.9	195.9	195.5	195.3	194.9	194.8	194.6	194.8
22.5°	190.1	189.1	188.2	188.2	188.2	187.5	187.4	187.4	187.0	187.3	187.2
25°	180.8	180.0	179.5	179.4	179.4	179.1	178.7	178.9	179.2	179.1	179.3
27.5°	171.0	170.3	170.1	170.1	169.9	169.8	170.0	170.0	170.2	170.6	170.9
30°	160.6	160.4	160.2	160.1	159.9	160.3	160.5	160.7	160.7	161.1	161.5
32.5°	150.1	149.7	149.6	149.8	150.1	150.0	150.5	150.7	150.9	151.5	151.8
35°	139.5	139.4	139.3	139.3	139.3	140.0	140.0	140.6	141.0	141.2	141.9
37.5°	128.1	128.5	128.7	128.9	129.0	129.3	129.5	130.1	130.5	130.7	131.1
40°	117.8	117.6	118.3	117.8	118.0	118.8	119.1	119.0	119.6	120.1	120.5
42.5°	106.7	106.9	107.1	107.3	107.7	107.8	108.3	108.9	109.1	109.6	109.8
45°	96.0	96.0	96.4	96.7	96.9	97.6	97.8	98.1	98.6	98.6	98.9
47.5°	85.8	86.1	86.1	86.7	87.1	87.0	87.7	87.8	87.7	88.1	88.3
50°	76.1	76.6	76.5	76.9	77.0	77.1	77.7	77.8	77.5	77.9	78.0
52.5°	66.8	67.1	67.4	67.5	67.3	67.8	67.6	68.0	67.9	68.2	67.9
55°	58.3	58.2	58.2	58.4	58.2	58.4	58.6	58.2	58.0	58.3	58.2
57.5°	49.8	49.8	49.7	49.9	49.7	49.4	49.3	49.1	48.9	48.9	48.8
60°	41.9	41.7	41.4	41.3	41.3	40.8	40.8	40.4	40.4	40.0	39.7
62.5°	34.5	34.1	33.8	33.8	33.6	33.2	32.4	31.9	31.7	31.2	31.1
65°	27.6	27.1	26.8	26.3	25.9	25.7	24.9	24.3	24.0	23.5	23.5
67.5°	21.1	20.4	19.6	19.3	19.1	18.5	18.2	17.7	17.5	17.5	17.5
70°	15.2	14.6	13.8	13.6	13.4	12.8	12.6	12.5	12.8	12.7	12.8
72.5°	10.3	9.6	9.3	9.1	8.9	8.6	8.8	8.9	8.7	8.8	8.9
75°	6.2	6.1	5.8	5.7	5.7	5.8	5.7	5.7	5.8	5.8	5.9
77.5°	3.6	3.4	3.4	3.3	3.5	3.4	3.4	3.4	3.5	3.5	3.5
80°	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
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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CATALOG NUMBER: LX4C05D010 EX4C059827 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
2.5°	225.5	225.5	225.5	225.3	225.4	225.4	225.3	225.3
5°	223.1	223.0	222.8	222.8	222.7	222.8	222.8	222.8
7.5°	219.8	219.8	219.5	219.5	219.5	219.4	219.3	219.4
10°	215.9	215.9	215.7	215.6	215.7	215.4	215.4	215.3
12.5°	211.5	211.3	211.2	211.3	211.2	210.9	210.8	210.9
15°	206.4	206.2	206.3	206.0	206.0	205.9	206.1	206.1
17.5°	200.8	200.6	200.5	200.6	200.4	200.5	200.4	200.3
20°	194.7	194.6	194.6	194.2	194.3	194.2	194.3	194.6
22.5°	187.4	187.4	187.4	187.2	187.4	187.4	187.6	187.6
25°	179.6	179.5	179.7	179.8	179.9	180.1	179.9	180.0
27.5°	170.9	171.1	171.4	171.5	171.8	171.6	171.4	171.7
30°	162.0	162.0	161.9	162.3	162.6	162.8	162.4	162.4
32.5°	152.0	152.3	152.3	152.4	152.7	152.7	152.7	153.0
35°	142.2	142.5	142.6	142.2	142.4	142.3	142.9	142.9
37.5°	131.4	131.4	131.4	132.1	132.1	131.8	132.0	132.0
40°	121.1	121.2	120.8	121.0	121.5	121.3	121.5	121.6
42.5°	109.8	110.4	110.0	110.2	110.1	110.2	110.3	110.3
45°	99.1	99.3	99.3	99.3	99.5	99.7	99.2	99.1
47.5°	88.5	88.6	88.9	88.5	89.0	88.5	89.0	88.4
50°	78.0	78.4	78.1	78.3	78.0	78.0	77.9	77.8
52.5°	68.0	67.9	67.9	67.8	67.8	68.0	67.8	68.0
55°	57.9	58.0	57.9	57.8	57.7	57.9	57.7	57.5
57.5°	48.4	48.6	48.2	48.4	47.8	48.1	48.2	48.2
60°	39.6	39.3	39.3	39.0	39.0	39.2	38.9	38.9
62.5°	30.7	30.9	30.6	30.9	30.9	31.3	31.1	31.3
65°	23.5	23.5	23.6	23.6	23.6	24.2	24.0	23.7
67.5°	17.7	17.8	17.9	17.8	18.1	17.9	17.9	18.0
70°	12.8	12.9	13.0	13.0	12.9	13.0	13.0	13.0
72.5°	8.9	9.0	8.9	9.0	9.1	9.0	9.0	9.1
75°	5.9	5.9	5.8	5.8	5.8	5.8	5.9	5.8
77.5°	3.4	3.5	3.4	3.5	3.5	3.5	3.5	3.5
80°	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0
82.5°	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
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)