

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: P858896

Luminaire Tested: **LX4C05D010 EX4C059840 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858896  
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 EX4C059840 4LBLWWH  
Description:  
Light Source: -  
Ballast/Driver: -

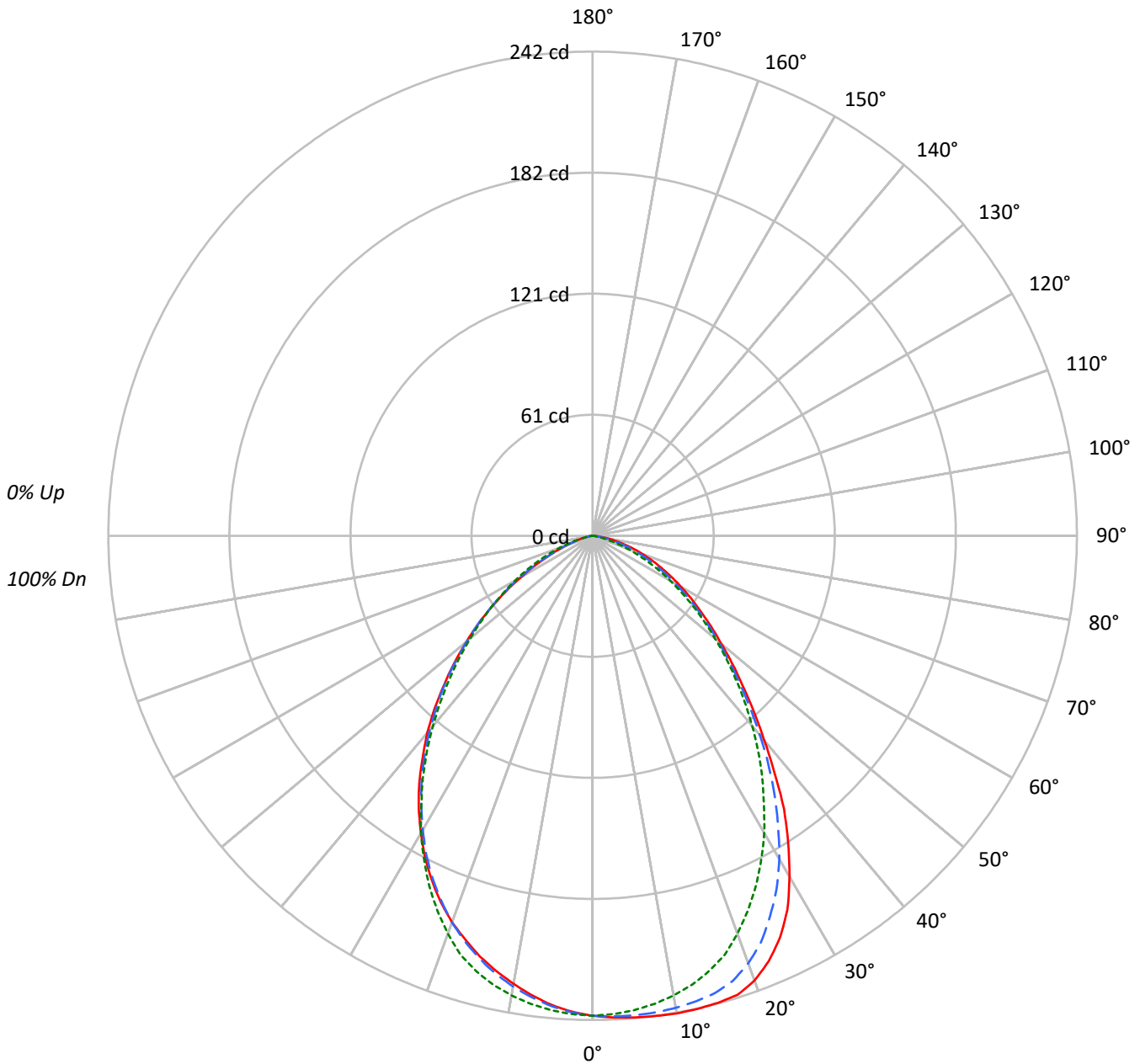
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 452.1 lumens  
Efficiency: N/A  
Efficacy: 62.8 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<sub>in</sub>): 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°	29473	29473	29473
5°	29807	29351	29030
10°	30239	29104	28368
15°	30741	28643	27689
20°	30933	27664	26867
25°	30039	26175	25769
30°	27918	24329	24343
35°	25001	22182	22646
40°	21394	19886	20592
45°	18417	17530	18173
50°	16016	15252	15711
55°	14094	13130	13001
60°	12531	10959	10074
65°	10988	8750	7296
70°	9447	6178	4921
75°	7642	3607	2895
80°	5518	1556	1486
85°	2114	564	564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.6	5.0
10°-20°	64.0	14.2
20°-30°	91.4	20.2
30°-40°	95.6	21.1
40°-50°	80.1	17.7
50°-60°	56.1	12.4
60°-70°	30.5	6.8
70°-80°	10.6	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°	178.0	39.4
0°-40°	273.6	60.5
0°-60°	409.8	90.6
0°-90°	452.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	240	240	240	240	240	
5°	242	241	238	236	235	23
15°	242	237	225	219	218	68
25°	222	210	193	189	190	101
35°	167	158	148	149	151	103
45°	106	104	101	104	105	82
55°	66	64	61	61	61	59
65°	38	34	30	25	25	38
75°	16	13	8	6	6	17
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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	241.0	240.8	240.9	240.9	240.9	240.8	240.9	240.8	240.8	240.7	240.4
5°	241.7	241.5	241.5	241.5	241.4	241.3	241.3	241.2	241.0	240.9	240.6
7.5°	242.1	241.9	241.9	241.8	241.8	241.7	241.6	241.3	241.0	240.9	240.3
10°	242.4	242.1	242.1	241.9	241.8	241.7	241.5	241.1	240.8	240.2	239.6
12.5°	242.2	241.9	241.8	241.7	241.3	241.1	240.9	240.4	239.8	239.2	238.4
15°	241.7	241.5	241.3	241.0	240.6	240.2	240.1	239.3	238.5	237.6	236.6
17.5°	240.6	240.2	239.9	239.5	238.9	238.6	238.2	237.2	236.0	234.7	233.2
20°	236.6	236.4	236.0	235.4	234.3	234.0	233.4	232.1	230.6	229.0	227.4
22.5°	230.1	229.7	229.2	228.6	227.8	227.0	226.5	224.9	223.1	221.4	219.9
25°	221.6	221.3	220.6	219.9	218.9	217.9	217.3	216.0	214.3	212.1	209.8
27.5°	210.8	209.9	209.6	208.8	207.4	207.1	206.3	204.6	202.9	201.1	199.1
30°	196.8	196.8	196.3	195.9	194.6	194.2	193.3	191.5	190.7	188.1	186.6
32.5°	181.9	181.7	181.3	181.0	180.3	179.7	178.7	177.8	175.8	174.5	172.5
35°	166.7	165.5	165.7	165.2	164.7	164.0	163.9	162.8	161.0	160.2	158.5
37.5°	149.2	148.7	149.4	148.6	148.1	148.2	147.4	146.8	146.1	144.7	144.4
40°	133.4	133.8	133.7	133.0	133.3	132.9	132.2	131.4	131.1	130.3	130.0
42.5°	119.3	118.8	118.6	118.6	118.7	118.7	118.3	117.8	117.8	117.0	116.2
45°	106.0	106.0	105.8	106.4	105.6	105.6	105.3	105.2	104.8	104.6	103.6
47.5°	94.6	94.5	94.4	94.3	94.2	94.2	93.6	93.2	93.1	92.6	92.0
50°	83.8	84.4	84.2	83.6	83.5	83.6	83.2	82.9	82.8	82.0	82.0
52.5°	74.7	74.6	74.8	74.5	74.1	74.2	73.8	73.5	73.0	72.6	72.2
55°	65.8	66.3	66.1	65.8	65.7	65.5	65.3	64.7	64.7	63.7	63.6
57.5°	58.3	58.2	58.1	57.6	57.5	57.2	57.2	56.8	56.3	55.7	55.3
60°	51.0	51.0	50.7	50.7	50.3	50.2	50.1	49.8	49.0	48.6	47.9
62.5°	44.1	44.2	44.1	43.7	43.4	43.1	42.9	42.6	42.1	41.6	40.9
65°	37.8	37.7	37.6	37.3	37.2	36.8	36.7	36.2	35.6	35.2	34.5
67.5°	31.9	31.7	31.7	31.5	31.3	31.0	30.9	30.2	29.6	29.2	28.5
70°	26.3	26.1	26.1	26.1	25.7	25.4	25.3	25.0	24.1	23.7	23.0
72.5°	21.1	21.0	21.0	20.7	20.4	20.4	20.1	19.4	19.0	18.5	18.0
75°	16.1	16.3	16.1	15.8	15.7	15.5	15.2	14.8	14.3	13.7	13.1
77.5°	11.8	11.6	11.4	11.4	11.2	10.9	10.8	10.4	9.9	9.5	8.8
80°	7.8	7.7	7.5	7.3	7.2	7.1	7.0	6.6	6.1	5.8	5.3
82.5°	4.3	4.2	4.2	4.1	3.7	3.7	3.7	3.3	3.0	2.9	2.6
85°	1.5	1.5	1.5	1.4	1.4	1.4	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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	240.2	240.1	240.0	239.9	239.8	239.7	239.6	239.4	239.3	239.3	239.1
5°	240.2	239.9	239.7	239.4	239.3	239.1	238.8	238.5	238.3	238.0	237.6
7.5°	239.9	239.3	239.0	238.5	238.3	238.0	237.4	237.0	236.6	236.0	235.4
10°	239.0	238.4	237.6	236.8	236.6	236.1	235.4	234.7	234.0	233.3	232.7
12.5°	237.5	236.5	235.6	234.5	234.0	233.5	232.5	231.6	230.7	229.8	228.7
15°	235.3	234.1	232.9	231.5	230.9	230.3	228.8	227.8	226.2	225.2	224.0
17.5°	231.7	229.8	228.4	226.6	225.7	225.1	223.7	222.0	220.6	219.5	218.1
20°	225.5	223.7	221.7	219.8	218.7	217.9	216.1	214.3	212.9	211.6	210.2
22.5°	217.4	215.2	213.7	211.3	210.5	209.5	207.2	205.5	204.0	202.7	201.4
25°	207.5	205.5	203.6	201.4	200.3	199.1	197.3	195.6	194.5	193.1	191.5
27.5°	196.2	194.6	192.1	190.2	189.1	188.2	186.5	184.9	183.4	182.5	180.9
30°	184.1	182.4	180.1	178.1	177.5	176.4	174.9	173.6	172.1	171.5	170.8
32.5°	170.9	168.9	167.2	165.9	164.8	163.9	163.0	161.1	160.9	159.2	159.0
35°	156.6	155.7	154.1	153.0	152.0	151.4	150.0	149.1	148.1	147.9	147.1
37.5°	143.0	141.9	140.4	139.4	138.8	138.7	137.7	137.1	136.3	136.0	135.3
40°	128.8	128.3	127.1	126.9	125.8	125.7	125.2	124.6	124.0	124.0	124.0
42.5°	115.7	115.1	114.6	114.0	113.4	113.4	113.2	112.9	112.7	112.4	112.9
45°	103.4	102.7	102.4	101.7	101.9	101.4	101.2	101.2	100.9	100.9	101.5
47.5°	92.0	91.1	90.8	90.6	90.6	90.7	89.9	90.2	90.1	90.2	90.5
50°	81.6	80.8	80.3	80.3	80.3	80.0	79.6	79.9	79.6	79.8	80.4
52.5°	71.9	71.2	70.9	70.9	70.3	70.2	70.4	70.0	70.1	70.2	70.6
55°	63.0	62.5	62.0	61.5	61.6	61.4	61.1	61.0	61.2	61.3	61.7
57.5°	54.9	54.2	53.6	53.4	53.2	53.2	52.8	52.7	52.9	52.4	52.4
60°	47.3	46.9	46.0	45.7	45.7	45.3	44.9	45.1	44.7	44.6	44.7
62.5°	40.1	39.9	39.3	38.8	38.6	38.3	37.9	37.7	37.5	37.2	36.7
65°	34.0	33.4	32.6	32.3	32.0	31.6	31.3	30.9	30.3	30.1	29.6
67.5°	27.7	27.1	26.5	26.2	25.9	25.7	25.1	24.7	24.1	23.4	22.7
70°	22.3	21.5	21.1	20.4	20.2	19.8	19.2	18.7	18.1	17.2	16.6
72.5°	17.0	16.5	16.0	15.3	14.9	14.5	14.0	13.3	12.6	12.1	11.4
75°	12.3	12.0	11.2	10.5	10.3	10.0	9.4	8.8	8.3	7.6	7.0
77.5°	8.3	7.8	7.3	6.6	6.4	6.1	5.7	5.3	4.9	4.5	4.1
80°	4.9	4.5	4.2	3.7	3.5	3.3	3.0	2.7	2.4	2.2	2.1
82.5°	2.4	2.1	2.0	1.7	1.6	1.5	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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	239.0	238.9	238.8	238.7	238.7	238.6	238.6	238.5	238.5	238.5	238.5
5°	237.3	237.0	236.8	236.7	236.7	236.4	236.2	236.0	236.0	236.0	235.8
7.5°	235.0	234.6	234.3	234.0	233.9	233.5	233.1	233.1	232.7	232.5	232.3
10°	231.9	231.3	230.8	230.5	230.2	229.8	229.4	229.1	228.8	228.4	228.3
12.5°	227.8	227.4	226.5	226.1	226.0	225.4	224.7	224.3	224.2	223.8	223.6
15°	223.1	222.1	221.3	220.9	220.9	220.0	219.6	219.0	218.7	218.4	218.3
17.5°	217.0	216.0	215.3	214.6	214.5	213.7	213.1	212.9	212.5	212.7	212.2
20°	209.2	208.3	207.8	207.0	207.0	206.5	206.3	205.8	205.6	205.5	205.6
22.5°	200.8	199.8	198.9	198.8	198.8	198.1	198.1	197.9	197.5	197.8	197.7
25°	190.9	190.2	189.6	189.5	189.5	189.1	188.8	189.0	189.2	189.1	189.4
27.5°	180.7	180.0	179.8	179.7	179.5	179.3	179.6	179.6	179.9	180.2	180.6
30°	169.6	169.4	169.2	169.1	168.9	169.3	169.5	169.8	169.7	170.2	170.6
32.5°	158.6	158.2	158.0	158.3	158.6	158.5	159.0	159.2	159.4	160.0	160.2
35°	147.3	147.2	147.0	147.0	147.1	147.9	147.9	148.6	148.9	149.1	149.8
37.5°	135.4	135.7	135.9	136.2	136.3	136.5	136.7	137.4	137.8	138.1	138.5
40°	124.4	124.2	125.0	124.5	124.7	125.5	125.8	125.7	126.4	126.9	127.3
42.5°	112.6	112.9	113.2	113.3	113.8	113.9	114.3	114.9	115.1	115.8	116.0
45°	101.3	101.4	101.7	102.1	102.5	103.2	103.4	103.6	104.2	104.2	104.4
47.5°	90.6	91.0	91.0	91.5	92.0	91.9	92.6	92.7	92.7	93.1	93.3
50°	80.3	80.9	80.8	81.2	81.4	81.5	82.0	82.2	81.9	82.3	82.4
52.5°	70.6	70.9	71.3	71.3	71.2	71.6	71.4	71.8	71.7	72.1	71.7
55°	61.6	61.5	61.5	61.7	61.5	61.7	61.9	61.5	61.3	61.6	61.5
57.5°	52.7	52.7	52.5	52.8	52.5	52.3	52.2	51.9	51.5	51.5	51.5
60°	44.3	44.1	43.7	43.6	43.6	43.2	43.0	42.6	42.6	42.3	41.9
62.5°	36.5	36.0	35.7	35.7	35.5	35.0	34.2	33.7	33.5	32.9	32.8
65°	29.1	28.6	28.4	27.7	27.3	27.1	26.3	25.7	25.4	24.8	24.9
67.5°	22.3	21.6	20.8	20.4	20.2	19.4	19.2	18.7	18.5	18.5	18.5
70°	16.1	15.4	14.5	14.3	14.1	13.6	13.3	13.2	13.5	13.4	13.5
72.5°	10.8	10.2	9.8	9.6	9.5	9.1	9.4	9.5	9.2	9.4	9.5
75°	6.5	6.3	6.1	6.0	6.0	6.1	6.0	6.0	6.1	6.1	6.2
77.5°	3.7	3.6	3.6	3.5	3.7	3.6	3.6	3.6	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°	1.0	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





TEST NUMBER: P858896

CATALOG NUMBER: LX4C05D010 EX4C059840 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	238.3	238.3	238.3	238.1	238.2	238.2	238.1	238.1
5°	235.7	235.6	235.4	235.4	235.2	235.4	235.3	235.4
7.5°	232.1	232.1	231.9	231.9	231.8	231.7	231.6	231.7
10°	228.0	228.0	227.8	227.8	227.8	227.5	227.5	227.4
12.5°	223.4	223.2	223.0	223.1	223.0	222.8	222.7	222.8
15°	218.0	217.8	217.9	217.6	217.6	217.5	217.7	217.7
17.5°	212.1	212.0	211.8	211.9	211.7	211.8	211.7	211.6
20°	205.5	205.5	205.5	205.1	205.2	205.1	205.2	205.5
22.5°	198.1	197.9	198.1	197.7	197.9	197.9	198.2	198.2
25°	189.7	189.6	189.8	189.9	189.9	190.3	189.9	190.1
27.5°	180.5	180.8	181.0	181.1	181.5	181.2	181.0	181.3
30°	171.1	171.1	171.0	171.5	171.7	172.0	171.6	171.6
32.5°	160.4	161.0	161.0	161.0	161.3	161.3	161.3	161.7
35°	150.3	150.5	150.6	150.3	150.4	150.3	151.0	151.0
37.5°	138.8	138.8	138.8	139.5	139.5	139.2	139.4	139.4
40°	127.9	128.0	127.6	127.8	128.2	128.1	128.2	128.4
42.5°	116.0	116.6	116.3	116.5	116.4	116.5	116.6	116.6
45°	104.6	104.8	104.8	104.9	105.1	105.3	104.7	104.6
47.5°	93.5	93.6	93.9	93.5	94.0	93.5	94.0	93.4
50°	82.4	82.8	82.5	82.7	82.4	82.4	82.3	82.2
52.5°	71.8	71.7	71.7	71.6	71.6	71.8	71.6	71.9
55°	61.2	61.3	61.1	61.0	60.9	61.2	60.9	60.7
57.5°	51.1	51.3	50.9	51.1	50.5	50.7	50.8	50.9
60°	41.8	41.6	41.6	41.1	41.1	41.5	41.0	41.0
62.5°	32.4	32.5	32.3	32.6	32.6	33.0	32.8	33.0
65°	24.8	24.9	25.0	25.0	25.0	25.6	25.4	25.1
67.5°	18.7	18.8	18.9	18.8	19.1	18.9	18.9	19.0
70°	13.6	13.6	13.7	13.7	13.6	13.7	13.7	13.7
72.5°	9.5	9.5	9.5	9.5	9.6	9.5	9.5	9.6
75°	6.2	6.2	6.1	6.1	6.1	6.1	6.2	6.1
77.5°	3.6	3.7	3.6	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°	1.1	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)