

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: P856860

Luminaire Tested: **LX4C10D010 EX4C109850 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P856860  
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: LX4C10D010 EX4C109850 4LBLWWH  
Description:  
Light Source: -  
Ballast/Driver: -

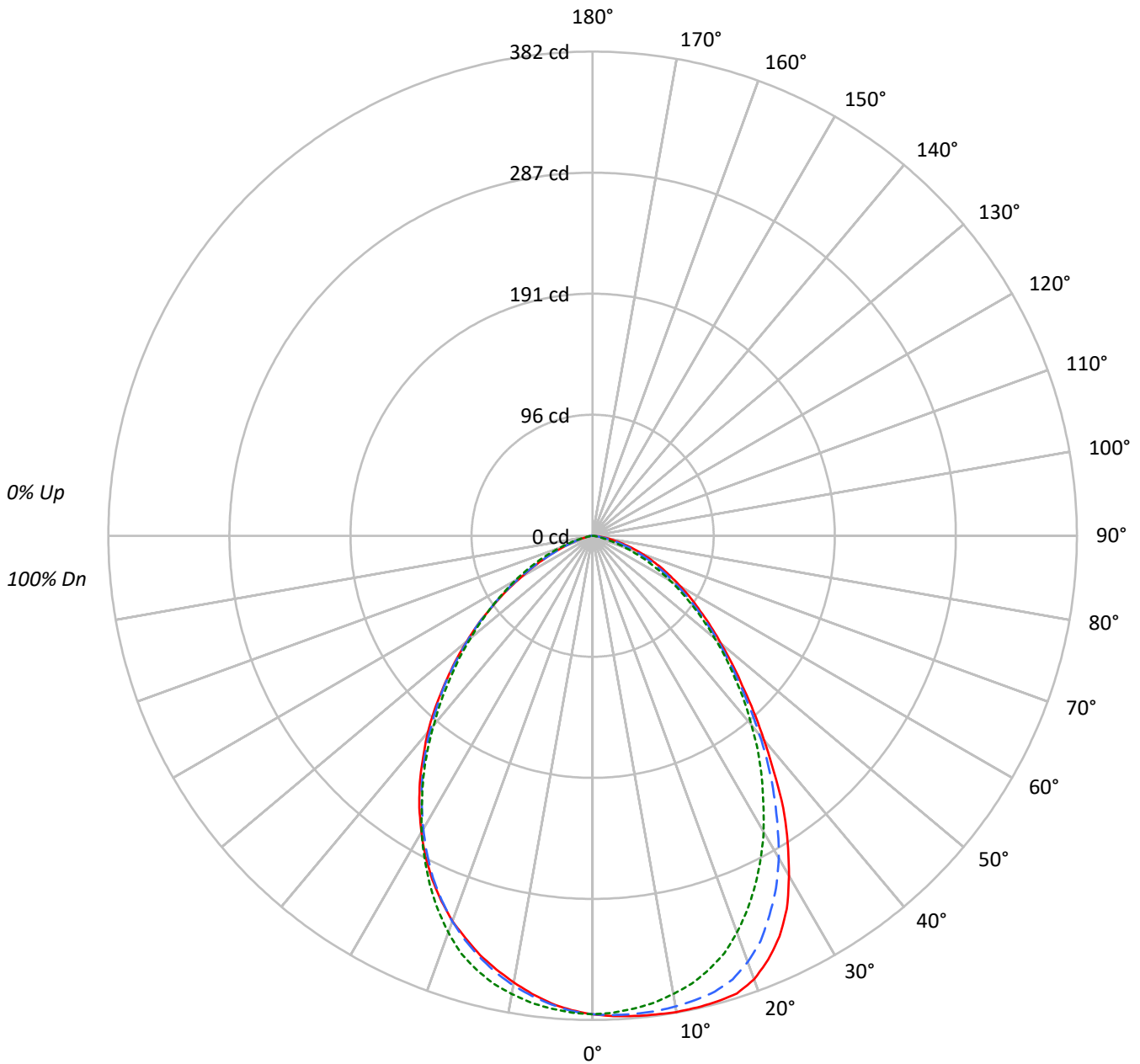
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.6 lumens  
Efficiency: N/A  
Efficacy: 72.6 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): 9.8  
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	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°	46389	46389	46389
5°	46900	46184	45691
10°	47592	45795	44648
15°	48369	45075	43574
20°	48687	43536	42281
25°	47281	41181	40558
30°	43948	38274	38302
35°	39339	34900	35634
40°	33679	31273	32428
45°	28980	27573	28615
50°	25210	24005	24732
55°	22169	20648	20476
60°	19730	17249	15897
65°	17325	13808	11482
70°	14871	9770	7795
75°	12057	5649	4509
80°	8631	2476	2264
85°	3242	987	987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.6	5.0
10°-20°	100.7	14.2
20°-30°	143.8	20.2
30°-40°	150.5	21.1
40°-50°	126.1	17.7
50°-60°	88.2	12.4
60°-70°	48.1	6.8
70°-80°	16.7	2.3
80°-90°	1.9	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°	280.2	39.4
0°-40°	430.6	60.5
0°-60°	645.0	90.6
0°-90°	711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	378	378	378	378	378	
5°	380	379	374	371	370	36
15°	380	372	354	344	343	107
25°	349	330	304	298	299	159
35°	262	249	233	234	238	163
45°	167	163	159	164	165	130
55°	104	100	96	96	96	94
65°	60	54	48	40	40	59
75°	25	21	12	10	10	27
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°	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6
2.5°	379.3	378.9	379.1	379.1	379.1	378.9	379.1	378.9	378.9	378.7	378.5
5°	380.3	380.1	380.1	380.1	379.9	379.8	379.8	379.6	379.3	379.2	378.6
7.5°	381.0	380.8	380.8	380.7	380.5	380.3	380.2	379.8	379.3	379.1	378.4
10°	381.5	381.0	381.0	380.8	380.5	380.3	380.1	379.5	378.9	378.2	377.1
12.5°	381.2	380.8	380.7	380.3	379.8	379.5	379.2	378.5	377.5	376.4	375.2
15°	380.3	380.1	379.8	379.3	378.6	378.2	377.9	376.8	375.4	374.0	372.4
17.5°	378.6	378.2	377.6	377.0	376.0	375.6	374.8	373.4	371.5	369.4	367.0
20°	372.4	372.0	371.5	370.5	368.9	368.3	367.3	365.4	362.9	360.4	357.9
22.5°	362.0	361.6	360.7	359.9	358.4	357.4	356.5	353.9	351.2	348.6	346.1
25°	348.8	348.4	347.2	346.1	344.7	342.9	342.0	340.0	337.3	333.9	330.2
27.5°	331.8	330.4	329.9	328.7	326.5	325.9	324.6	322.0	319.3	316.5	313.4
30°	309.8	309.8	308.9	308.4	306.3	305.7	304.3	301.5	300.1	296.0	293.7
32.5°	286.4	286.1	285.4	284.9	283.8	282.8	281.3	279.8	276.6	274.7	271.4
35°	262.3	260.6	260.8	259.9	259.2	258.1	257.9	256.3	253.4	252.3	249.3
37.5°	234.8	234.1	235.2	233.8	233.1	233.3	232.1	231.1	229.9	227.8	227.3
40°	210.0	210.5	210.5	209.3	209.8	209.1	208.0	207.0	206.3	205.1	204.7
42.5°	187.8	186.9	186.6	186.6	186.7	186.7	186.2	185.5	185.5	184.1	182.8
45°	166.8	166.8	166.6	167.5	166.1	166.1	165.7	165.6	165.0	164.7	163.1
47.5°	148.8	148.7	148.6	148.4	148.3	148.3	147.4	146.7	146.5	145.6	144.8
50°	131.9	132.8	132.4	131.7	131.4	131.6	131.0	130.6	130.4	128.9	129.1
52.5°	117.6	117.5	117.8	117.4	116.6	116.7	116.2	115.6	115.0	114.3	113.7
55°	103.5	104.2	104.0	103.5	103.4	103.1	102.6	101.9	101.8	100.2	100.1
57.5°	91.8	91.7	91.3	90.6	90.5	90.1	90.1	89.4	88.5	87.7	87.0
60°	80.3	80.3	79.9	79.7	79.2	79.0	78.8	78.3	77.2	76.5	75.4
62.5°	69.3	69.6	69.3	68.8	68.4	67.9	67.5	67.1	66.3	65.5	64.5
65°	59.6	59.4	59.2	58.7	58.5	58.0	57.8	56.9	56.1	55.5	54.3
67.5°	50.2	49.8	49.8	49.5	49.2	48.8	48.5	47.6	46.6	46.0	44.9
70°	41.4	41.1	41.1	41.1	40.4	40.0	39.8	39.3	37.9	37.4	36.2
72.5°	33.3	33.1	33.0	32.5	32.1	32.1	31.5	30.7	29.9	29.2	28.4
75°	25.4	25.7	25.4	24.8	24.7	24.4	24.0	23.3	22.5	21.7	20.6
77.5°	18.5	18.3	18.0	18.0	17.7	17.1	17.0	16.4	15.5	15.0	13.9
80°	12.2	12.0	11.8	11.5	11.3	11.1	11.1	10.4	9.5	9.2	8.3
82.5°	6.7	6.5	6.5	6.4	6.0	6.0	5.8	5.3	4.8	4.5	4.1
85°	2.3	2.3	2.3	2.1	2.1	2.1	2.1	1.9	1.8	1.6	1.3
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
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°	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6
2.5°	378.2	377.9	377.7	377.6	377.5	377.3	377.1	376.9	376.8	376.6	376.3
5°	378.2	377.6	377.3	376.9	376.6	376.3	375.9	375.4	375.0	374.5	374.1
7.5°	377.6	376.8	376.1	375.2	375.0	374.5	373.6	373.1	372.4	371.5	370.5
10°	376.1	375.2	374.0	372.8	372.4	371.7	370.5	369.4	368.3	367.1	366.1
12.5°	373.8	372.2	370.8	369.2	368.3	367.6	366.0	364.5	363.1	361.8	360.0
15°	370.3	368.5	366.6	364.4	363.4	362.5	360.2	358.4	356.1	354.4	352.6
17.5°	364.6	361.8	359.5	356.7	355.3	354.2	352.1	349.4	347.2	345.4	343.3
20°	354.9	352.1	349.0	345.9	344.3	343.1	340.1	337.3	335.0	333.0	330.8
22.5°	342.2	338.7	336.4	332.6	331.3	329.7	326.2	323.6	321.1	319.1	317.0
25°	326.6	323.6	320.4	316.9	315.3	313.4	310.5	307.7	306.1	303.8	301.3
27.5°	308.7	306.3	302.4	299.4	297.8	296.2	293.5	291.1	288.7	287.1	284.8
30°	289.9	287.0	283.5	280.3	279.4	277.7	275.2	273.3	270.8	269.8	268.9
32.5°	269.1	265.7	263.2	261.1	259.4	257.9	256.6	253.6	253.2	250.5	250.2
35°	246.5	245.0	242.6	240.8	239.3	238.4	236.1	234.7	233.1	232.7	231.7
37.5°	225.1	223.4	221.1	219.5	218.4	218.3	216.7	215.8	214.6	214.1	212.9
40°	202.8	202.0	200.0	199.7	198.1	198.0	197.1	196.1	195.0	195.0	195.2
42.5°	182.1	181.3	180.4	179.3	178.5	178.5	178.1	177.7	177.5	177.0	177.7
45°	162.8	161.7	161.0	160.1	160.5	159.6	159.4	159.4	158.9	158.7	159.7
47.5°	144.8	143.5	142.9	142.6	142.6	142.8	141.4	141.9	141.8	142.1	142.5
50°	128.4	127.3	126.4	126.4	126.5	125.9	125.3	125.7	125.3	125.6	126.6
52.5°	113.2	112.0	111.6	111.6	110.7	110.5	110.8	110.2	110.4	110.5	111.1
55°	99.1	98.4	97.6	96.8	97.0	96.8	96.1	96.0	96.3	96.4	97.2
57.5°	86.4	85.4	84.4	84.1	83.8	83.8	83.1	82.9	83.2	82.5	82.5
60°	74.4	73.7	72.5	72.1	72.1	71.3	70.7	71.0	70.3	70.2	70.3
62.5°	63.1	62.8	61.9	61.0	60.7	60.5	59.7	59.4	59.1	58.5	57.7
65°	53.4	52.4	51.5	50.8	50.4	49.7	49.2	48.7	47.8	47.5	46.6
67.5°	43.7	42.7	41.6	41.3	40.8	40.4	39.7	38.9	37.9	36.7	35.8
70°	35.1	33.8	33.3	32.1	31.8	31.2	30.2	29.5	28.4	27.2	26.1
72.5°	26.8	26.0	25.1	24.1	23.4	22.9	22.1	21.0	19.7	19.0	18.0
75°	19.4	18.9	17.7	16.6	16.2	15.7	14.6	13.9	13.1	11.9	11.1
77.5°	13.1	12.2	11.5	10.4	10.2	9.5	9.0	8.3	7.7	7.0	6.4
80°	7.7	7.0	6.5	5.8	5.5	5.3	4.8	4.2	3.7	3.5	3.3
82.5°	3.7	3.2	3.0	2.6	2.5	2.3	2.1	1.9	1.6	1.6	1.6
85°	1.3	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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°	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6
2.5°	376.1	376.0	375.9	375.7	375.7	375.6	375.6	375.4	375.4	375.2	375.2
5°	373.6	373.1	372.8	372.5	372.5	372.0	371.8	371.5	371.3	371.3	371.1
7.5°	369.9	369.4	368.7	368.3	368.2	367.4	366.9	366.9	366.2	366.0	365.7
10°	365.1	364.1	363.2	362.8	362.2	361.8	361.1	360.6	360.2	359.5	359.3
12.5°	358.6	357.9	356.5	356.0	355.6	354.8	353.7	353.0	353.0	352.3	351.9
15°	351.2	349.6	348.4	347.7	347.7	346.3	345.6	344.7	344.2	343.8	343.6
17.5°	341.5	340.0	338.9	337.8	337.5	336.4	335.5	335.2	334.5	334.8	334.0
20°	329.2	327.9	327.1	325.8	325.8	325.0	324.8	324.0	323.7	323.4	323.7
22.5°	316.0	314.4	313.0	312.8	312.8	311.8	311.7	311.5	311.0	311.4	311.2
25°	300.5	299.4	298.5	298.3	298.3	297.8	297.1	297.4	297.8	297.8	298.2
27.5°	284.4	283.2	282.9	282.8	282.5	282.3	282.6	282.6	283.0	283.7	284.2
30°	266.9	266.6	266.2	266.1	265.7	266.5	266.8	267.3	267.1	268.0	268.5
32.5°	249.5	248.9	248.8	249.1	249.5	249.3	250.2	250.5	250.8	251.8	252.3
35°	231.9	231.8	231.5	231.5	231.7	232.8	232.8	233.8	234.4	234.7	235.9
37.5°	213.0	213.7	213.9	214.4	214.5	214.9	215.3	216.2	216.9	217.4	218.0
40°	195.7	195.5	196.8	195.9	196.2	197.5	198.1	198.0	198.9	199.7	200.3
42.5°	177.4	177.7	178.1	178.3	179.1	179.2	180.0	180.9	181.3	182.3	182.5
45°	159.4	159.6	160.2	160.8	161.2	162.4	162.7	163.1	164.0	164.0	164.4
47.5°	142.6	143.2	143.2	144.1	144.8	144.6	145.6	146.0	145.8	146.5	146.9
50°	126.5	127.3	127.3	127.8	128.1	128.2	129.1	129.4	128.9	129.6	129.7
52.5°	111.1	111.6	112.1	112.3	112.0	112.7	112.4	113.0	112.8	113.4	112.8
55°	97.0	96.8	96.8	97.2	96.8	97.2	97.5	96.8	96.4	97.0	96.8
57.5°	82.9	82.9	82.7	83.1	82.7	82.2	82.0	81.6	81.1	81.1	81.1
60°	69.7	69.4	68.8	68.7	68.7	68.0	67.7	67.1	67.1	66.5	65.9
62.5°	57.3	56.6	56.2	56.2	55.9	55.2	53.9	53.0	52.7	51.8	51.7
65°	45.7	45.0	44.6	43.7	43.0	42.7	41.4	40.4	40.0	39.1	39.2
67.5°	35.1	34.0	32.6	32.1	31.7	30.7	30.2	29.5	29.1	29.1	29.1
70°	25.2	24.3	22.9	22.5	22.2	21.3	21.0	20.8	21.2	21.0	21.2
72.5°	17.0	16.0	15.4	15.1	14.8	14.4	14.6	14.8	14.5	14.6	14.8
75°	10.3	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.7
77.5°	6.0	5.7	5.7	5.5	5.8	5.7	5.7	5.7	5.8	5.8	5.8
80°	3.2	3.2	3.2	3.2	3.3	3.2	3.3	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
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: P856860

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	377.6	377.6	377.6	377.6	377.6	377.6	377.6	377.6
2.5°	375.0	375.0	375.0	374.7	374.8	374.8	374.7	374.7
5°	370.9	370.8	370.5	370.5	370.2	370.5	370.3	370.5
7.5°	365.4	365.4	365.0	365.0	364.8	364.6	364.5	364.6
10°	358.8	358.8	358.6	358.4	358.6	358.0	358.0	357.9
12.5°	351.6	351.3	351.0	351.2	351.0	350.5	350.5	350.5
15°	343.1	342.8	342.9	342.4	342.4	342.3	342.6	342.6
17.5°	333.9	333.6	333.3	333.4	333.2	333.3	333.2	333.0
20°	323.6	323.4	323.4	322.8	323.0	322.8	323.0	323.4
22.5°	311.7	311.5	311.7	311.2	311.5	311.5	311.9	311.9
25°	298.6	298.5	298.7	298.9	299.0	299.4	299.0	299.2
27.5°	284.1	284.5	284.9	285.1	285.6	285.3	284.9	285.4
30°	269.4	269.4	269.2	269.8	270.3	270.7	270.0	270.0
32.5°	252.5	253.3	253.3	253.4	253.9	253.9	253.9	254.4
35°	236.4	236.8	237.0	236.4	236.8	236.6	237.6	237.6
37.5°	218.4	218.4	218.6	219.5	219.5	219.2	219.5	219.5
40°	201.3	201.4	200.8	201.2	201.9	201.6	201.9	202.2
42.5°	182.5	183.6	183.0	183.3	183.2	183.3	183.4	183.4
45°	164.7	165.0	165.0	165.2	165.4	165.7	164.8	164.7
47.5°	147.2	147.4	147.9	147.1	148.0	147.1	148.0	147.0
50°	129.7	130.3	129.8	130.1	129.7	129.7	129.6	129.4
52.5°	113.0	112.8	112.8	112.7	112.7	113.0	112.7	113.2
55°	96.3	96.4	96.1	96.0	95.9	96.3	95.9	95.6
57.5°	80.4	80.8	80.2	80.4	79.5	79.9	80.0	80.2
60°	65.8	65.4	65.4	64.7	64.7	65.2	64.7	64.7
62.5°	51.0	51.3	50.8	51.5	51.5	52.0	51.7	52.0
65°	39.1	39.2	39.3	39.3	39.3	40.2	40.0	39.5
67.5°	29.5	29.6	29.8	29.6	30.1	29.8	29.8	29.9
70°	21.3	21.5	21.7	21.7	21.5	21.7	21.7	21.7
72.5°	14.8	15.0	14.8	15.0	15.1	15.0	15.0	15.1
75°	9.7	9.7	9.5	9.5	9.5	9.5	9.7	9.5
77.5°	5.7	5.8	5.7	5.8	5.8	5.8	5.8	5.8
80°	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.2
82.5°	1.8	1.8	1.6	1.6	1.8	1.8	1.8	1.8
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)