

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: P858879

Luminaire Tested: **LX4C05D010 EX4C059830 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C05D010 EX4C059830 4LBSWNH  
Description:  
Light Source: -  
Ballast/Driver: -

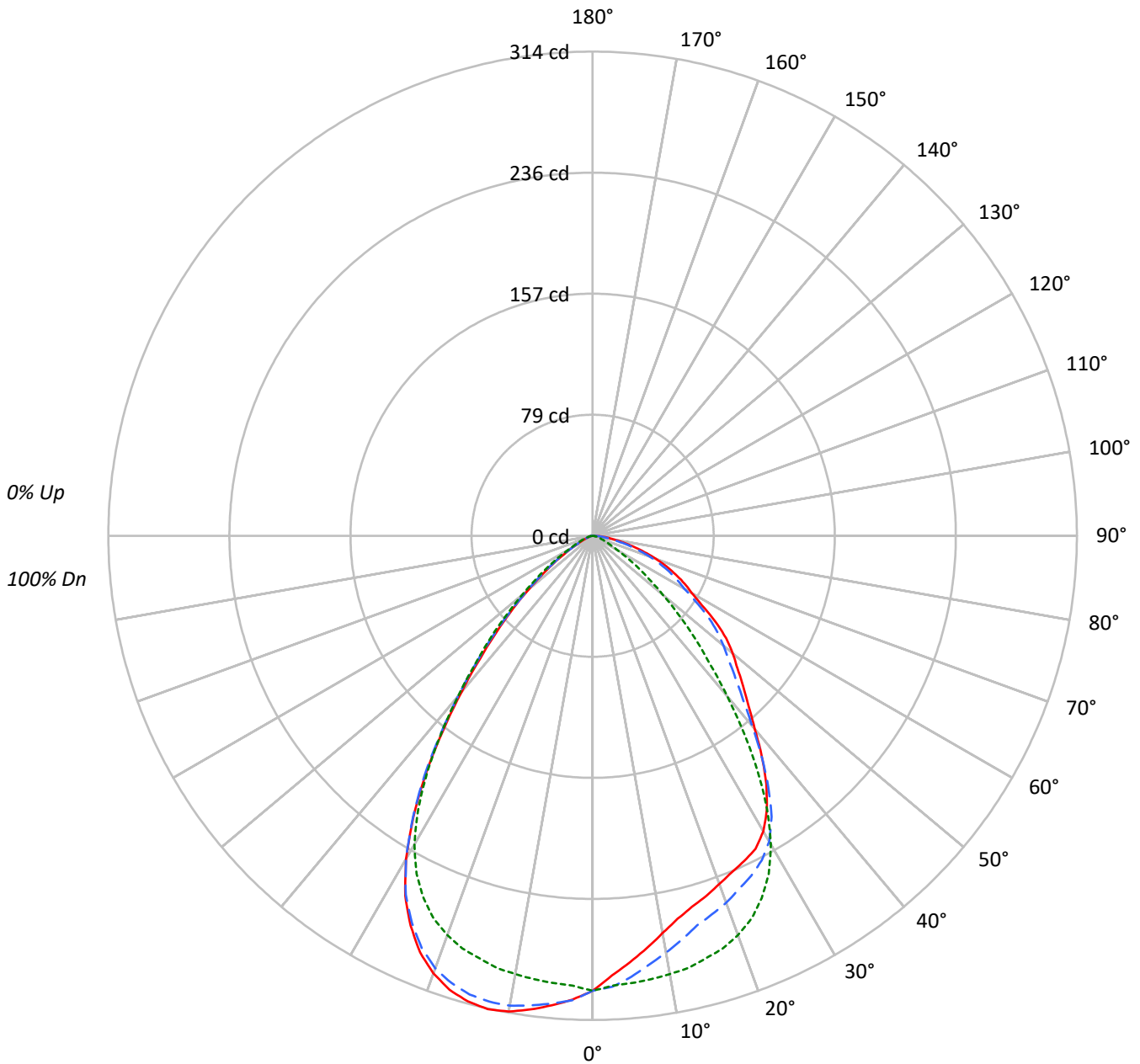
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 517.2 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	36254	36254	36254
5°	34234	35912	37700
10°	32634	36002	39084
15°	31682	36083	39759
20°	31416	36031	39470
25°	31543	35149	37833
30°	31393	32784	34301
35°	29425	28001	28286
40°	26221	21715	21217
45°	23976	16193	15202
50°	22668	11334	10244
55°	20862	7668	6447
60°	18207	4496	3538
65°	17238	2878	2006
70°	15697	2047	1221
75°	13006	1424	902
80°	10188	849	566
85°	9162	564	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.9	5.4
10°-20°	80.0	15.5
20°-30°	118.6	22.9
30°-40°	118.7	23.0
40°-50°	83.0	16.0
50°-60°	49.4	9.5
60°-70°	25.8	5.0
70°-80°	11.5	2.2
80°-90°	2.5	0.5
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°	226.4	43.8
0°-40°	345.1	66.7
0°-60°	477.5	92.3
0°-90°	517.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	295	295	295	295	295	
5°	278	287	291	304	306	26
15°	249	262	284	308	313	71
25°	233	243	259	277	279	107
35°	196	198	187	190	189	122
45°	138	131	93	90	88	107
55°	97	91	36	31	30	86
65°	59	54	10	7	7	59
75°	27	24	3	2	2	30
85°	6	5	0	0	0	7
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	285.5	289.0	285.5	286.7	291.2	287.1	289.4	289.4	288.2	290.9	292.8
5°	277.6	281.0	277.6	279.1	284.0	279.8	282.5	281.8	282.1	284.4	287.1
7.5°	269.6	272.2	269.2	271.1	275.6	272.2	274.5	274.5	274.9	278.3	280.6
10°	261.6	263.9	261.6	263.2	268.1	265.0	266.5	266.9	268.1	271.1	274.5
12.5°	254.4	256.3	254.0	256.3	260.5	257.4	259.3	259.7	260.8	264.2	268.1
15°	249.1	250.9	248.7	250.6	254.4	252.1	253.6	254.4	255.1	258.2	261.6
17.5°	244.9	246.4	244.5	246.7	249.8	247.2	249.4	249.4	250.6	253.6	257.4
20°	240.3	241.8	240.3	242.2	245.7	243.4	245.2	245.2	246.4	249.8	253.3
22.5°	236.1	236.8	236.1	237.6	241.0	239.2	240.3	240.7	241.8	244.9	247.9
25°	232.7	234.3	233.5	235.0	237.3	235.3	236.5	236.8	238.0	240.7	243.4
27.5°	228.9	229.6	228.9	230.8	232.7	231.1	232.3	231.9	232.7	235.0	237.3
30°	221.3	222.0	222.0	223.2	224.7	224.0	225.1	224.0	224.7	226.6	228.9
32.5°	210.3	210.6	211.0	212.1	213.3	212.1	212.9	212.9	212.9	214.5	216.0
35°	196.2	197.0	196.5	197.3	198.5	198.1	198.1	197.7	197.0	197.7	198.5
37.5°	180.2	179.1	179.1	180.2	181.0	179.5	180.2	179.5	179.5	179.9	179.9
40°	163.5	162.4	163.5	163.9	164.3	163.5	163.1	162.4	161.2	161.6	160.9
42.5°	149.5	148.7	149.0	149.0	149.5	148.7	149.0	147.5	146.4	145.6	144.5
45°	138.0	136.9	138.0	137.2	137.2	136.9	136.5	135.7	134.2	133.0	131.2
47.5°	127.3	127.3	127.8	127.8	127.8	127.0	127.0	125.5	124.0	122.4	119.8
50°	118.6	117.9	119.4	119.4	118.2	117.9	118.2	116.4	115.2	113.3	110.7
52.5°	109.1	109.1	109.5	109.5	109.1	108.3	108.7	107.2	106.1	104.2	101.5
55°	97.4	96.6	97.7	97.7	97.4	96.9	97.4	96.2	95.1	93.5	91.2
57.5°	84.0	83.6	84.4	84.8	84.0	84.0	84.4	83.3	82.8	81.3	79.1
60°	74.1	73.7	74.5	74.9	74.1	74.1	74.1	72.6	71.9	70.4	68.8
62.5°	67.3	66.9	67.7	67.3	66.9	66.5	66.9	65.4	64.7	63.1	61.6
65°	59.3	59.7	60.1	60.1	59.7	59.3	59.3	58.6	57.8	56.3	54.4
67.5°	51.7	51.7	52.1	52.4	52.1	52.1	52.1	50.9	50.2	49.0	46.8
70°	43.7	43.3	44.5	44.5	43.7	44.1	43.7	43.3	42.6	41.0	39.1
72.5°	35.3	35.3	35.8	35.8	35.3	35.3	35.3	35.0	33.8	33.1	31.2
75°	27.4	27.4	27.7	28.2	27.4	27.4	27.7	27.0	26.2	25.1	24.0
77.5°	20.5	20.2	20.5	20.5	20.2	20.2	20.2	19.8	19.4	18.3	17.1
80°	14.4	14.1	14.4	14.4	14.4	14.1	14.1	13.6	13.6	12.9	11.8
82.5°	9.9	9.5	9.9	9.9	9.9	9.5	9.5	9.5	9.1	8.7	8.0
85°	6.5	6.1	6.1	6.5	6.1	6.1	6.1	6.1	5.7	5.4	4.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.7	2.7	2.7	2.3
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	291.2	290.5	292.8	292.0	292.4	290.5	293.6	292.0	293.9	292.0	295.8
5°	286.3	285.5	289.0	288.6	289.0	287.5	290.9	290.5	292.8	291.2	295.4
7.5°	281.0	280.3	284.0	284.4	285.2	283.7	288.2	288.2	290.5	290.1	294.6
10°	274.9	275.3	279.1	279.8	281.3	280.6	284.8	286.0	289.0	288.6	294.3
12.5°	269.2	269.2	274.1	275.6	276.8	276.4	281.3	282.9	286.3	287.1	292.4
15°	263.5	263.9	268.4	270.7	272.2	271.9	277.2	279.1	283.3	283.7	290.1
17.5°	259.0	258.5	263.5	265.4	267.7	267.3	273.0	275.3	279.5	280.6	286.7
20°	255.1	254.8	259.3	261.6	263.2	262.7	268.4	271.1	274.9	275.6	281.8
22.5°	250.6	249.8	254.4	256.3	257.8	257.4	262.4	264.2	268.1	268.9	274.5
25°	245.2	244.5	248.7	249.8	250.9	250.2	254.4	255.5	258.5	259.3	265.0
27.5°	239.2	237.3	240.7	240.7	241.5	240.3	243.4	244.5	247.2	247.2	252.5
30°	229.6	227.0	228.9	228.6	228.9	227.4	229.3	229.6	231.6	231.1	235.0
32.5°	216.3	212.5	213.7	212.5	211.4	209.1	211.4	210.6	212.1	210.6	214.1
35°	198.1	194.3	194.0	192.4	191.3	189.3	189.3	187.4	187.8	186.7	189.0
37.5°	178.3	173.4	172.6	169.6	167.6	165.4	165.4	163.9	161.9	161.2	163.1
40°	158.9	153.6	151.7	146.8	144.8	142.6	141.1	139.2	138.4	135.4	136.9
42.5°	142.2	136.5	132.3	127.0	125.1	121.6	119.4	117.1	116.0	112.5	114.1
45°	128.1	121.3	116.7	109.9	107.2	103.4	100.0	97.4	94.7	93.2	92.4
47.5°	116.4	109.1	103.0	95.4	91.2	87.8	83.3	80.6	77.2	75.3	74.1
50°	106.5	98.4	91.7	82.8	78.7	74.9	69.6	65.4	62.3	59.3	58.6
52.5°	97.7	89.4	81.8	71.9	66.9	62.3	56.6	52.1	49.4	46.0	45.7
55°	87.5	80.3	71.9	61.6	56.6	52.1	46.0	41.5	38.0	35.8	35.0
57.5°	76.4	69.6	61.6	51.4	46.4	41.5	35.8	31.6	28.5	26.7	26.2
60°	66.2	59.7	52.1	41.8	36.9	32.7	26.7	22.5	19.8	18.3	17.5
62.5°	58.6	52.4	45.2	35.8	31.2	27.0	21.3	17.5	15.2	13.6	12.9
65°	51.4	45.2	38.8	30.1	26.2	22.5	17.1	13.6	11.4	9.9	9.1
67.5°	43.7	38.4	32.3	25.1	21.3	18.3	13.6	10.6	8.7	7.6	6.9
70°	36.1	31.2	26.2	20.2	17.5	14.4	10.6	8.4	6.5	5.7	4.9
72.5°	28.5	24.7	20.5	15.6	13.3	11.4	8.4	6.1	4.9	4.2	3.4
75°	21.3	18.6	15.2	11.8	9.9	8.4	6.1	4.5	3.8	3.0	2.7
77.5°	15.2	12.9	10.6	8.0	7.2	6.1	4.2	3.4	2.7	1.9	1.5
80°	10.3	9.1	7.2	5.7	4.5	4.2	3.0	2.3	1.5	1.2	1.2
82.5°	6.9	5.7	4.5	3.4	3.0	2.7	1.9	1.5	1.2	0.8	0.8
85°	4.2	3.4	2.7	1.9	1.9	1.5	1.2	0.8	0.4	0.4	0.4
87.5°	1.9	1.5	1.2	0.8	0.8	0.4	0.4	0.4	0.0	0.0	0.0
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	298.8	296.6	295.1	297.0	297.8	296.6	297.8	299.6	301.5	301.9	296.6
5°	299.3	297.0	296.2	298.5	298.8	298.5	299.6	302.3	304.5	305.3	300.0
7.5°	299.3	297.8	297.3	300.0	300.3	300.0	301.9	305.0	307.2	308.7	303.5
10°	298.5	297.8	298.1	300.3	301.1	301.1	303.8	307.2	309.5	311.0	305.7
12.5°	297.3	297.3	297.3	300.0	300.8	301.1	303.5	308.0	309.5	311.8	306.5
15°	295.4	295.4	295.4	298.1	299.3	299.3	301.9	306.1	308.0	310.2	305.0
17.5°	292.0	292.0	292.4	294.6	295.8	295.8	298.5	303.0	304.2	306.8	301.5
20°	287.1	287.1	287.5	289.7	290.9	290.1	293.6	297.3	298.5	300.8	295.4
22.5°	279.8	279.8	279.8	282.1	282.9	282.5	286.0	289.4	289.4	292.4	286.7
25°	269.2	269.9	269.2	271.4	272.2	271.9	274.9	278.0	277.2	280.6	274.9
27.5°	256.3	255.9	255.9	257.8	257.8	257.4	259.7	263.2	262.4	264.7	259.3
30°	238.4	239.5	237.6	240.3	239.2	238.4	240.0	243.0	241.8	243.7	239.5
32.5°	217.9	216.3	216.3	216.3	217.1	215.2	216.7	218.3	217.1	219.0	214.5
35°	190.8	191.3	190.1	190.5	190.8	188.6	190.1	191.6	190.1	191.3	187.1
37.5°	163.9	164.3	161.6	163.1	161.6	160.9	162.4	163.1	161.6	162.7	158.2
40°	136.9	136.2	135.7	135.7	136.2	134.2	135.4	136.5	135.4	136.2	132.0
42.5°	113.3	112.9	112.2	112.5	111.4	111.0	111.4	112.5	111.4	112.2	109.1
45°	92.7	92.0	90.9	91.2	91.2	89.4	90.5	91.2	90.2	90.5	87.8
47.5°	73.7	72.6	72.6	72.2	72.2	71.5	72.6	72.2	71.1	71.9	69.2
50°	57.4	56.6	56.6	56.6	56.6	55.5	55.9	56.6	55.5	55.5	54.0
52.5°	44.9	43.7	43.0	43.0	43.0	42.6	42.6	43.0	41.8	41.8	41.5
55°	33.8	33.4	32.3	32.3	32.3	31.2	31.6	31.6	31.2	31.2	30.1
57.5°	25.1	24.0	23.2	23.2	22.5	22.5	22.0	22.5	21.7	21.7	21.0
60°	16.8	16.0	15.6	15.2	15.2	14.8	15.2	14.8	14.8	14.4	14.1
62.5°	12.1	11.4	10.6	10.6	10.6	10.3	10.3	10.3	10.3	10.3	9.9
65°	8.7	8.0	8.0	7.6	7.6	7.2	7.2	7.2	7.2	7.2	6.9
67.5°	6.1	5.7	5.4	5.4	5.4	5.4	5.4	5.4	4.9	4.9	4.9
70°	4.5	4.2	3.8	3.8	3.8	3.8	3.8	3.4	3.8	3.8	3.4
72.5°	3.0	3.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P858879

CATALOG NUMBER: LX4C05D010 EX4C059830 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	302.3	301.9	301.1	302.3	299.3	298.1	297.8	301.1
5°	306.5	305.7	305.7	306.8	303.5	302.7	301.9	305.7
7.5°	310.2	309.5	309.5	310.7	307.7	306.8	306.1	309.9
10°	312.6	312.6	312.6	313.3	310.7	309.9	309.5	313.3
12.5°	313.7	313.7	313.3	314.8	311.4	311.4	310.7	314.4
15°	312.2	312.2	312.2	313.3	310.2	309.5	309.5	312.6
17.5°	308.4	308.4	308.0	309.2	305.7	305.7	305.3	308.7
20°	302.7	302.7	301.9	303.5	300.0	298.8	298.5	301.9
22.5°	293.6	293.1	292.8	293.6	290.5	289.7	289.4	292.4
25°	281.8	281.3	280.6	281.3	278.0	276.8	276.8	279.1
27.5°	265.0	265.0	263.9	265.0	261.2	260.8	260.5	263.2
30°	244.5	243.0	242.2	243.7	240.0	240.0	239.2	241.8
32.5°	219.0	217.5	217.1	217.9	214.5	213.3	214.8	216.3
35°	189.8	190.1	188.6	188.6	185.6	185.9	186.3	188.6
37.5°	161.6	160.9	160.4	160.9	158.6	157.8	157.0	159.4
40°	135.4	133.5	133.0	133.0	131.2	130.8	131.2	132.3
42.5°	110.7	110.3	108.7	109.5	107.6	108.3	108.0	108.0
45°	89.4	89.7	88.2	89.4	87.8	86.7	86.7	87.5
47.5°	70.7	70.7	70.4	70.4	69.2	69.6	68.8	70.0
50°	54.8	54.8	54.0	54.4	53.6	53.6	53.2	53.6
52.5°	41.8	41.5	41.5	41.0	40.3	40.7	41.0	40.3
55°	30.4	30.8	30.1	30.4	29.7	30.1	29.7	30.1
57.5°	21.0	21.3	20.5	21.3	20.5	21.0	20.5	20.5
60°	14.4	14.4	14.1	14.4	14.1	14.1	13.6	14.4
62.5°	9.9	9.9	9.9	9.9	9.9	9.5	9.9	9.9
65°	7.2	6.9	6.9	6.9	6.9	6.9	6.9	6.9
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.0	0.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)