

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: P858918

Luminaire Tested: **LX4C05D010 EX4C059850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858918
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 EX4C059850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

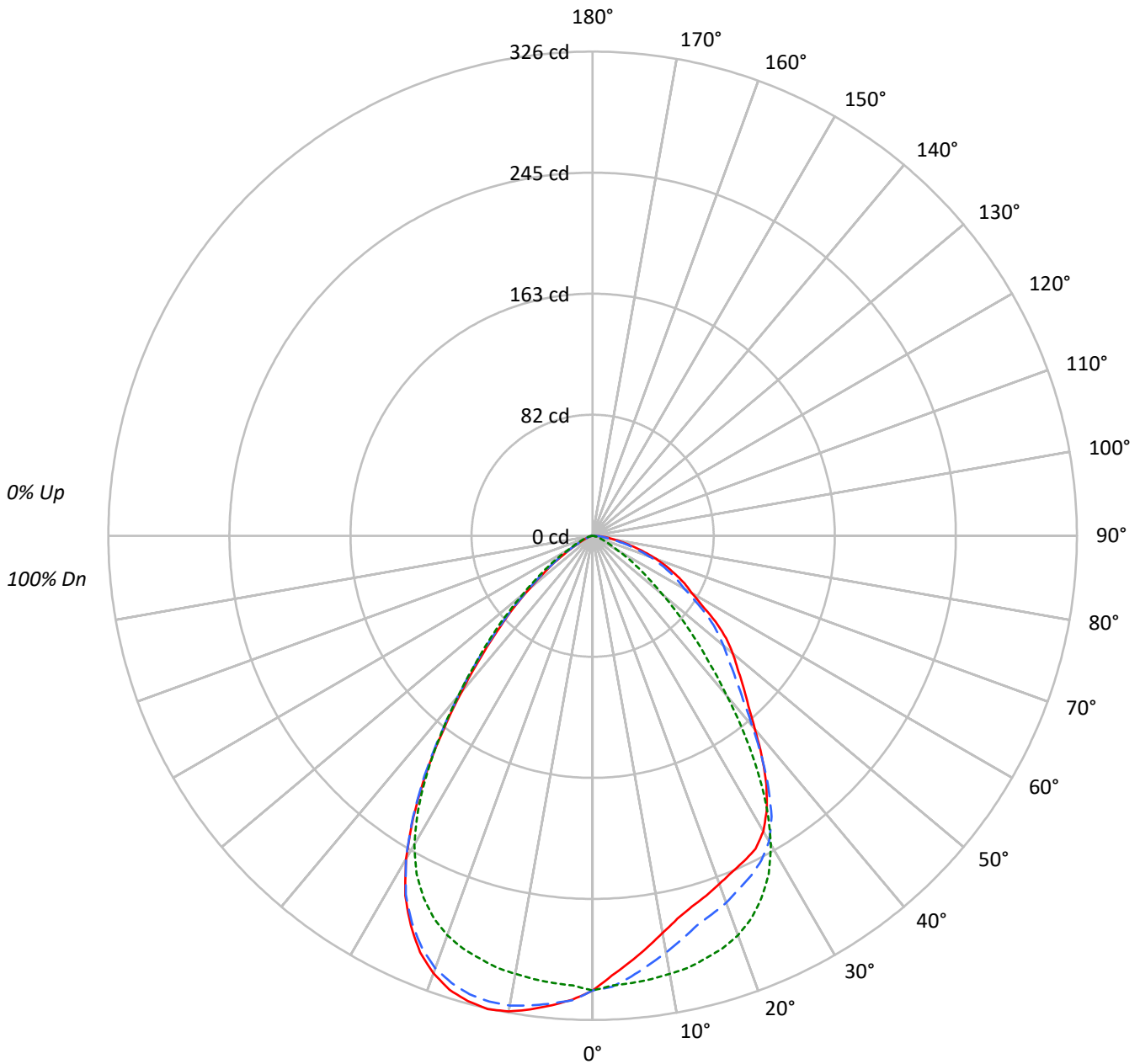
Lumens per Lamp: N/A
Luminaire Lumens: 536.8 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (Ain): 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				20				
RC	80				70				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	100	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37618	37618	37618
5°	35529	37280	39130
10°	33869	37362	40568
15°	32878	37457	41260
20°	32606	37417	40973
25°	32736	36478	39256
30°	32585	34046	35607
35°	30550	29065	29350
40°	27215	22533	22019
45°	24880	16801	15776
50°	23528	11754	10627
55°	21633	7946	6683
60°	18919	4644	3686
65°	17878	2994	2064
70°	16308	2119	1293
75°	13481	1471	949
80°	10612	849	566
85°	9444	564	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	5.4
10°-20°	83.0	15.5
20°-30°	123.1	22.9
30°-40°	123.2	23.0
40°-50°	86.1	16.0
50°-60°	51.2	9.5
60°-70°	26.8	5.0
70°-80°	11.9	2.2
80°-90°	2.6	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°	235.0	43.8
0°-40°	358.2	66.7
0°-60°	495.6	92.3
0°-90°	536.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	306	306	306	306	306	
5°	288	298	302	316	317	27
15°	258	272	294	320	324	73
25°	242	252	269	288	290	111
35°	204	206	194	197	196	126
45°	143	136	97	94	91	111
55°	101	95	37	32	31	90
65°	62	56	10	8	7	61
75°	28	25	3	2	2	31
85°	7	5	0	0	0	8
90°	0	0	0	0	0	



TEST NUMBER: P858918

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	296.4	300.0	296.4	297.6	302.3	297.9	300.3	300.3	299.2	301.9	303.9
5°	288.1	291.7	288.1	289.6	294.8	290.4	293.2	292.4	292.8	295.2	297.9
7.5°	279.8	282.6	279.4	281.4	286.2	282.6	284.9	284.9	285.4	288.8	291.2
10°	271.5	273.9	271.5	273.1	278.2	275.1	276.6	277.1	278.2	281.4	284.9
12.5°	264.0	266.0	263.6	266.0	270.3	267.2	269.1	269.6	270.7	274.3	278.2
15°	258.5	260.5	258.1	260.0	264.0	261.6	263.2	264.0	264.8	268.0	271.5
17.5°	254.1	255.8	253.8	256.1	259.3	256.6	258.9	258.9	260.0	263.2	267.2
20°	249.4	251.0	249.4	251.4	254.9	252.5	254.6	254.6	255.8	259.3	262.9
22.5°	245.1	245.9	245.1	246.7	250.2	248.3	249.4	249.8	251.0	254.1	257.4
25°	241.5	243.1	242.3	243.9	246.3	244.3	245.5	245.9	247.0	249.8	252.5
27.5°	237.6	238.4	237.6	239.5	241.5	240.0	241.1	240.8	241.5	243.9	246.3
30°	229.7	230.5	230.5	231.7	233.3	232.5	233.6	232.5	233.3	235.2	237.6
32.5°	218.2	218.7	219.0	220.3	221.4	220.3	221.0	221.0	221.0	222.6	224.2
35°	203.7	204.4	204.0	204.8	206.0	205.6	205.6	205.2	204.4	205.2	206.0
37.5°	187.1	185.8	185.8	187.1	187.9	186.3	187.1	186.3	186.3	186.6	186.6
40°	169.7	168.5	169.7	170.1	170.5	169.7	169.3	168.5	167.3	167.7	166.9
42.5°	155.1	154.3	154.7	154.7	155.1	154.3	154.7	153.1	152.0	151.2	150.0
45°	143.2	142.1	143.2	142.5	142.5	142.1	141.7	140.9	139.3	138.1	136.2
47.5°	132.2	132.2	132.6	132.6	132.6	131.8	131.8	130.2	128.7	127.1	124.3
50°	123.1	122.3	124.0	124.0	122.7	122.3	122.7	120.7	119.6	117.6	114.9
52.5°	113.3	113.3	113.7	113.7	113.3	112.4	112.9	111.3	110.1	108.2	105.4
55°	101.0	100.2	101.4	101.4	101.0	100.7	101.0	99.9	98.6	97.1	94.7
57.5°	87.2	86.9	87.6	88.0	87.2	87.2	87.6	86.4	86.1	84.4	82.1
60°	77.0	76.6	77.3	77.8	77.0	77.0	77.0	75.4	74.5	73.0	71.4
62.5°	69.8	69.5	70.3	69.8	69.5	69.0	69.5	67.9	67.1	65.5	63.9
65°	61.5	62.0	62.3	62.3	62.0	61.5	61.5	60.8	60.0	58.4	56.4
67.5°	53.7	53.7	54.0	54.5	54.0	54.0	54.0	52.9	52.1	50.9	48.5
70°	45.4	44.9	46.2	46.2	45.4	45.7	45.4	44.9	44.2	42.6	40.7
72.5°	36.7	36.7	37.1	37.1	36.7	36.7	36.7	36.3	35.1	34.3	32.4
75°	28.4	28.4	28.8	29.2	28.4	28.4	28.8	28.0	27.2	26.0	24.9
77.5°	21.3	21.0	21.3	21.3	21.0	21.0	21.0	20.5	20.2	18.9	17.7
80°	15.0	14.6	15.0	15.0	15.0	14.6	14.6	14.2	14.2	13.4	12.2
82.5°	10.3	9.9	10.3	10.3	10.3	9.9	9.9	9.9	9.5	9.1	8.3
85°	6.7	6.3	6.3	6.7	6.3	6.3	6.3	6.3	5.9	5.5	5.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.8	2.8	2.8	2.4
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°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	302.3	301.5	303.9	303.1	303.5	301.5	304.7	303.1	305.1	303.1	307.0
5°	297.1	296.4	300.0	299.5	300.0	298.4	301.9	301.5	303.9	302.3	306.7
7.5°	291.7	290.9	294.8	295.2	296.0	294.5	299.2	299.2	301.5	301.1	305.9
10°	285.4	285.7	289.6	290.4	292.0	291.2	295.6	296.8	300.0	299.5	305.4
12.5°	279.4	279.4	284.6	286.2	287.3	286.9	292.0	293.7	297.1	297.9	303.5
15°	273.5	273.9	278.6	281.0	282.6	282.1	287.7	289.6	294.0	294.5	301.1
17.5°	268.8	268.3	273.5	275.5	277.9	277.4	283.4	285.7	290.1	291.2	297.6
20°	264.8	264.4	269.1	271.5	273.1	272.7	278.6	281.4	285.4	286.2	292.4
22.5°	260.0	259.3	264.0	266.0	267.6	267.2	272.3	274.3	278.2	279.0	284.9
25°	254.6	253.8	258.1	259.3	260.5	259.7	264.0	265.2	268.3	269.1	275.1
27.5°	248.3	246.3	249.8	249.8	250.6	249.4	252.5	253.8	256.6	256.6	262.1
30°	238.4	235.6	237.6	237.2	237.6	236.0	238.0	238.4	240.3	240.0	243.9
32.5°	224.5	220.6	221.8	220.6	219.5	217.0	219.5	218.7	220.3	218.7	222.2
35°	205.6	201.7	201.3	199.7	198.5	196.5	196.5	194.6	194.9	193.8	196.2
37.5°	185.1	180.0	179.2	176.0	174.1	171.7	171.7	170.1	168.1	167.3	169.3
40°	165.0	159.4	157.5	152.3	150.3	148.0	146.4	144.5	143.7	140.5	142.1
42.5°	147.6	141.7	137.3	131.8	129.8	126.3	124.0	121.5	120.4	116.8	118.4
45°	133.0	125.9	121.2	114.1	111.3	107.4	103.8	101.0	98.3	96.7	95.9
47.5°	120.7	113.3	106.9	99.1	94.7	91.1	86.4	83.6	80.1	78.1	77.0
50°	110.5	102.2	95.1	86.1	81.7	77.8	72.2	67.9	64.7	61.5	60.8
52.5°	101.4	92.7	84.9	74.5	69.5	64.7	58.8	54.0	51.3	47.8	47.4
55°	90.8	83.3	74.5	63.9	58.8	54.0	47.8	43.0	39.5	37.1	36.3
57.5°	79.4	72.2	63.9	53.2	48.2	43.0	37.1	32.7	29.6	27.6	27.2
60°	68.7	62.0	54.0	43.4	38.3	34.0	27.6	23.3	20.5	18.9	18.1
62.5°	60.8	54.5	47.0	37.1	32.4	28.0	22.1	18.1	15.8	14.2	13.4
65°	53.2	47.0	40.2	31.2	27.2	23.3	17.7	14.2	11.9	10.3	9.5
67.5°	45.4	39.9	33.5	26.0	22.1	18.9	14.2	11.1	9.1	7.8	7.1
70°	37.5	32.4	27.2	21.0	18.1	15.0	11.1	8.6	6.7	5.9	5.2
72.5°	29.6	25.7	21.3	16.1	13.8	11.9	8.6	6.3	5.2	4.4	3.6
75°	22.1	19.4	15.8	12.2	10.3	8.6	6.3	4.7	3.9	3.1	2.8
77.5°	15.8	13.4	11.1	8.3	7.5	6.3	4.4	3.6	2.8	2.0	1.6
80°	10.7	9.5	7.5	5.9	4.7	4.4	3.1	2.4	1.6	1.2	1.2
82.5°	7.1	5.9	4.7	3.6	3.1	2.8	2.0	1.6	1.2	0.8	0.8
85°	4.4	3.6	2.8	2.0	2.0	1.6	1.2	0.8	0.4	0.4	0.4
87.5°	2.0	1.6	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°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	310.2	307.8	306.2	308.2	309.0	307.8	309.0	311.0	313.0	313.4	307.8
5°	310.6	308.2	307.5	309.8	310.2	309.8	311.0	313.7	316.1	316.9	311.4
7.5°	310.6	309.0	308.6	311.4	311.8	311.4	313.4	316.5	318.9	320.5	315.0
10°	309.8	309.0	309.4	311.8	312.6	312.6	315.3	318.9	321.2	322.8	317.3
12.5°	308.6	308.6	308.6	311.4	312.2	312.6	315.0	319.7	321.2	323.6	318.1
15°	306.7	306.7	306.7	309.4	310.6	310.6	313.4	317.7	319.7	322.0	316.5
17.5°	303.1	303.1	303.5	305.9	307.0	307.0	309.8	314.5	315.7	318.5	313.0
20°	297.9	297.9	298.4	300.7	301.9	301.1	304.7	308.6	309.8	312.2	306.7
22.5°	290.4	290.4	290.4	292.8	293.7	293.2	296.8	300.3	300.3	303.5	297.6
25°	279.4	280.2	279.4	281.8	282.6	282.1	285.4	288.5	287.7	291.2	285.4
27.5°	266.0	265.6	265.6	267.6	267.6	267.2	269.6	273.1	272.3	274.7	269.1
30°	247.5	248.6	246.7	249.4	248.3	247.5	249.1	252.2	251.0	253.0	248.6
32.5°	226.1	224.5	224.5	224.5	225.3	223.4	225.0	226.5	225.3	227.3	222.6
35°	198.1	198.5	197.3	197.7	198.1	195.7	197.3	198.9	197.3	198.5	194.1
37.5°	170.1	170.5	167.7	169.3	167.7	166.9	168.5	169.3	167.7	168.9	164.2
40°	142.1	141.3	140.9	140.9	141.3	139.3	140.5	141.7	140.5	141.3	137.0
42.5°	117.6	117.3	116.5	116.8	115.7	115.2	115.7	116.8	115.7	116.5	113.3
45°	96.3	95.5	94.3	94.7	94.7	92.7	93.9	94.7	93.5	93.9	91.1
47.5°	76.6	75.4	75.4	75.0	75.0	74.2	75.4	75.0	73.8	74.5	71.8
50°	59.6	58.8	58.8	58.8	58.8	57.6	58.1	58.8	57.6	57.6	56.0
52.5°	46.5	45.4	44.6	44.6	44.6	44.2	44.2	44.6	43.4	43.4	43.0
55°	35.1	34.7	33.5	33.5	33.5	32.4	32.7	32.7	32.4	32.4	31.2
57.5°	26.0	24.9	24.1	24.1	23.3	23.3	22.9	23.3	22.5	22.5	21.7
60°	17.4	16.6	16.1	15.8	15.8	15.4	15.8	15.4	15.4	15.0	14.6
62.5°	12.7	11.9	11.1	11.1	11.1	10.7	10.7	10.7	10.7	10.7	10.3
65°	9.1	8.3	8.3	7.8	7.8	7.5	7.5	7.5	7.5	7.5	7.1
67.5°	6.3	5.9	5.5	5.5	5.5	5.5	5.5	5.5	5.2	5.2	5.2
70°	4.7	4.4	3.9	3.9	3.9	3.9	3.9	3.6	3.9	3.9	3.6
72.5°	3.1	3.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	2.4	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.6	1.6	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: P858918

CATALOG NUMBER: LX4C05D010 EX4C059850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	313.7	313.4	312.6	313.7	310.6	309.4	309.0	312.6
5°	318.1	317.3	317.3	318.5	315.0	314.2	313.4	317.3
7.5°	322.0	321.2	321.2	322.5	319.2	318.5	317.7	321.7
10°	324.4	324.4	324.4	325.2	322.5	321.7	321.2	325.2
12.5°	325.6	325.6	325.2	326.7	323.3	323.3	322.5	326.4
15°	324.0	324.0	324.0	325.2	322.0	321.2	321.2	324.4
17.5°	320.0	320.0	319.7	320.8	317.3	317.3	316.9	320.5
20°	314.2	314.2	313.4	315.0	311.4	310.2	309.8	313.4
22.5°	304.7	304.3	303.9	304.7	301.5	300.7	300.3	303.5
25°	292.4	292.0	291.2	292.0	288.5	287.3	287.3	289.6
27.5°	275.1	275.1	273.9	275.1	271.1	270.7	270.3	273.1
30°	253.8	252.2	251.4	253.0	249.1	249.1	248.3	251.0
32.5°	227.3	225.8	225.3	226.1	222.6	221.4	222.9	224.5
35°	196.9	197.3	195.7	195.7	192.6	193.0	193.4	195.7
37.5°	167.7	166.9	166.6	166.9	164.6	163.8	163.0	165.3
40°	140.5	138.5	138.1	138.1	136.2	135.8	136.2	137.3
42.5°	114.9	114.4	112.9	113.7	111.6	112.4	112.1	112.1
45°	92.7	93.1	91.6	92.7	91.1	90.0	90.0	90.8
47.5°	73.4	73.4	73.0	73.0	71.8	72.2	71.4	72.6
50°	56.8	56.8	56.0	56.4	55.6	55.6	55.3	55.6
52.5°	43.4	43.0	43.0	42.6	41.8	42.3	42.6	41.8
55°	31.6	31.9	31.2	31.6	30.8	31.2	30.8	31.2
57.5°	21.7	22.1	21.3	22.1	21.3	21.7	21.3	21.3
60°	15.0	15.0	14.6	15.0	14.6	14.6	14.2	15.0
62.5°	10.3	10.3	10.3	10.3	10.3	9.9	10.3	10.3
65°	7.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)