

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: P857279

Luminaire Tested: **LX4C20D010 EX4C209850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857279
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: LX4C20D010 EX4C209850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

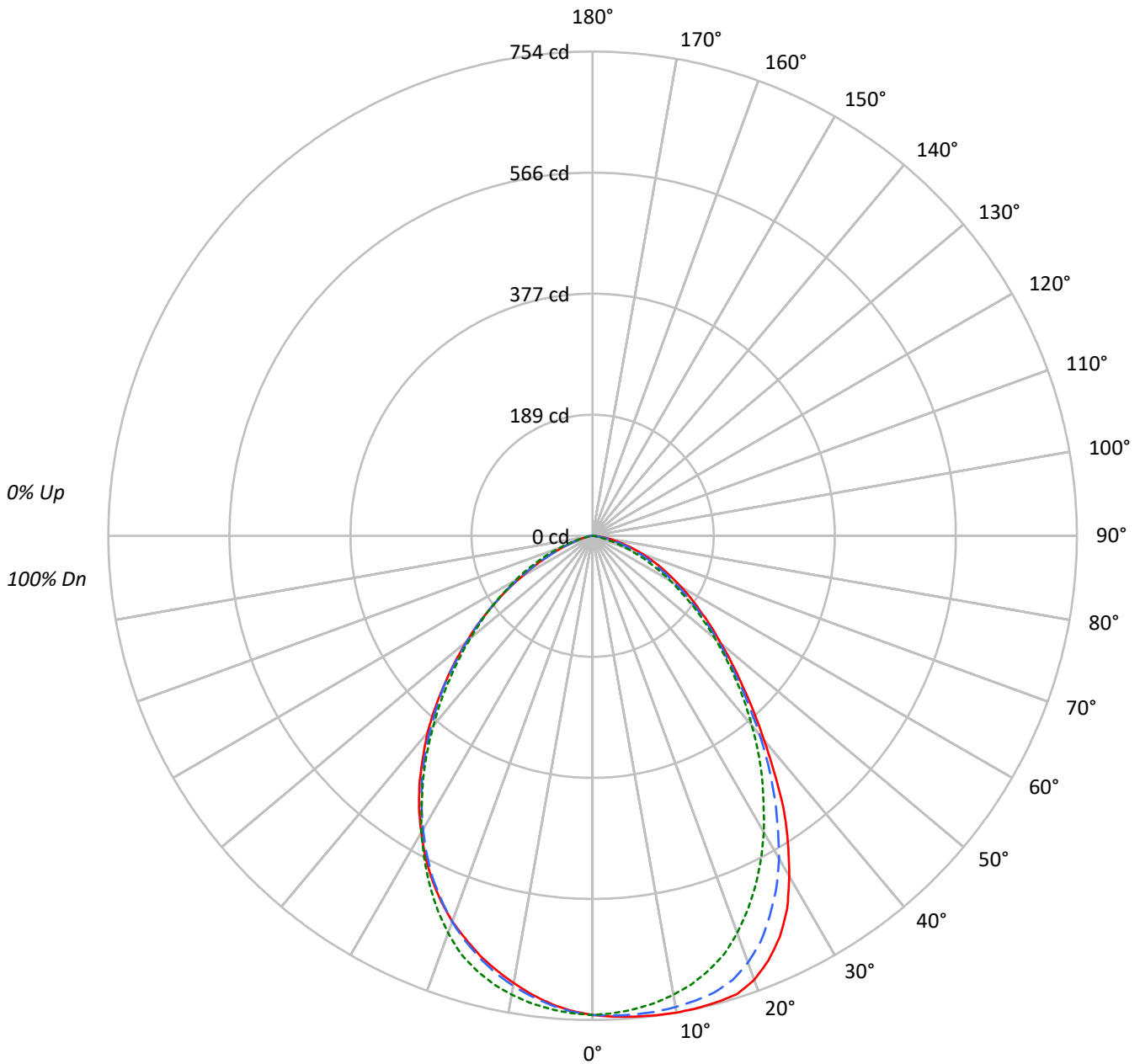
Lumens per Lamp: N/A
Luminaire Lumens: 1406.3 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	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°	91673	91673	91673
5°	92689	91271	90285
10°	94061	90505	88222
15°	95594	89069	86106
20°	96210	86039	83555
25°	93451	81387	80139
30°	86846	75653	75682
35°	77748	68959	70414
40°	66555	61808	64069
45°	57300	54503	56553
50°	49807	47457	48890
55°	43844	40824	40460
60°	38994	34080	31377
65°	34215	27267	22674
70°	29383	19289	15374
75°	23828	11155	8971
80°	17050	4882	4457
85°	6343	1973	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	5.0
10°-20°	199.1	14.2
20°-30°	284.3	20.2
30°-40°	297.4	21.1
40°-50°	249.2	17.7
50°-60°	174.4	12.4
60°-70°	95.0	6.8
70°-80°	33.0	2.3
80°-90°	3.8	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°	553.7	39.4
0°-40°	851.0	60.5
0°-60°	1274.6	90.6
0°-90°	1406.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	746	746	746	746	746	
5°	752	748	740	734	732	72
15°	752	736	700	680	677	212
25°	689	653	600	589	591	315
35°	518	493	460	463	470	321
45°	330	322	314	324	326	256
55°	205	198	191	191	189	185
65°	118	107	94	79	78	117
75°	50	41	24	19	19	54
85°	4	3	1	1	1	8
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°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2
2.5°	749.7	748.8	749.1	749.1	749.1	748.8	749.1	748.8	748.8	748.5	747.9
5°	751.6	751.1	751.1	751.1	750.8	750.5	750.5	750.2	749.7	749.3	748.2
7.5°	753.1	752.5	752.5	752.3	751.9	751.6	751.4	750.5	749.7	749.1	747.6
10°	754.0	753.1	753.1	752.5	751.9	751.6	751.1	750.0	748.8	747.4	745.3
12.5°	753.3	752.5	752.3	751.6	750.5	750.0	749.3	747.9	745.9	743.9	741.3
15°	751.6	751.1	750.5	749.7	748.2	747.4	746.7	744.5	741.9	739.0	735.9
17.5°	748.2	747.4	746.2	745.1	743.1	742.2	740.8	737.9	734.2	730.2	725.3
20°	735.9	735.3	734.2	732.1	729.0	727.8	725.8	722.1	717.2	712.3	707.2
22.5°	715.5	714.6	712.9	711.2	708.3	706.3	704.6	699.4	694.0	688.8	684.0
25°	689.4	688.5	686.2	684.0	681.0	677.6	675.9	671.8	666.4	659.8	652.7
27.5°	655.8	652.9	652.0	649.5	645.2	644.0	641.4	636.3	631.1	625.4	619.3
30°	612.2	612.2	610.5	609.3	605.3	604.2	601.3	595.8	592.9	584.9	580.3
32.5°	566.0	565.4	563.9	563.1	560.8	558.8	555.9	553.1	546.7	542.7	536.4
35°	518.4	514.9	515.4	513.7	512.3	510.0	509.7	506.6	500.8	498.5	492.8
37.5°	464.1	462.6	464.7	462.1	460.7	460.9	458.6	456.7	454.3	450.3	449.2
40°	415.0	416.2	415.9	413.6	414.7	413.3	411.0	409.0	407.8	405.2	404.4
42.5°	371.1	369.4	368.8	368.8	369.1	369.1	367.9	366.5	366.5	363.9	361.3
45°	329.8	329.8	329.2	330.9	328.3	328.3	327.4	327.2	326.0	325.5	322.3
47.5°	294.2	293.9	293.6	293.3	293.0	293.0	291.3	289.9	289.5	287.9	286.2
50°	260.6	262.4	261.7	260.3	259.8	260.0	258.9	258.0	257.7	254.9	255.1
52.5°	232.5	232.2	232.7	231.9	230.4	230.8	229.6	228.5	227.3	225.9	224.7
55°	204.7	206.1	205.5	204.7	204.4	203.8	202.9	201.4	201.2	198.1	197.8
57.5°	181.4	181.1	180.5	179.1	178.8	177.9	177.9	176.8	175.0	173.4	171.9
60°	158.7	158.7	157.8	157.6	156.4	156.1	155.9	154.7	152.7	151.2	148.9
62.5°	136.9	137.5	136.9	136.1	135.2	134.0	133.5	132.6	130.9	129.5	127.4
65°	117.7	117.4	117.1	115.9	115.7	114.5	114.2	112.5	110.8	109.6	107.4
67.5°	99.3	98.4	98.4	97.8	97.3	96.4	95.9	94.2	92.1	91.0	88.6
70°	81.8	81.2	81.2	81.2	79.8	78.9	78.7	77.8	74.9	73.7	71.4
72.5°	65.7	65.5	65.2	64.3	63.4	63.4	62.2	60.5	59.1	57.7	56.0
75°	50.2	50.8	50.2	49.0	48.8	48.2	47.4	45.9	44.5	42.8	40.8
77.5°	36.7	36.2	35.6	35.6	35.0	33.9	33.6	32.5	30.7	29.5	27.6
80°	24.1	23.8	23.3	22.7	22.4	22.1	21.8	20.7	18.9	18.1	16.3
82.5°	13.2	12.9	12.9	12.7	11.8	11.8	11.5	10.3	9.5	8.9	8.0
85°	4.5	4.5	4.5	4.3	4.3	4.3	4.0	3.7	3.5	3.1	2.6
87.5°	0.5	0.3	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
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°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2
2.5°	747.4	746.7	746.5	746.2	745.9	745.7	745.3	744.8	744.5	744.2	743.6
5°	747.4	746.2	745.7	744.8	744.2	743.6	742.7	741.9	741.0	740.1	739.3
7.5°	746.2	744.5	743.4	741.6	741.0	740.1	738.5	737.3	735.9	734.2	732.1
10°	743.4	741.3	739.0	736.8	735.9	734.4	732.1	730.2	727.8	725.5	723.6
12.5°	738.7	735.6	732.7	729.5	727.8	726.4	723.2	720.3	717.5	714.9	711.5
15°	731.9	728.1	724.4	720.1	718.1	716.3	711.8	708.3	703.8	700.3	696.8
17.5°	720.7	714.9	710.4	704.8	702.0	700.0	696.0	690.6	686.2	682.5	678.4
20°	701.4	696.0	689.7	683.6	680.5	677.9	672.2	666.4	662.1	658.1	653.8
22.5°	676.2	669.3	664.7	657.2	654.6	651.5	644.6	639.5	634.6	630.6	626.5
25°	645.4	639.5	633.1	626.3	623.1	619.3	613.6	608.2	605.0	600.4	595.5
27.5°	610.1	605.3	597.6	591.5	588.4	585.5	580.0	575.2	570.5	567.4	562.8
30°	572.9	567.1	560.2	554.0	552.2	548.8	543.9	540.1	535.2	533.3	531.2
32.5°	531.8	525.2	520.1	516.1	512.6	509.7	507.1	501.1	500.3	495.1	494.5
35°	487.1	484.2	479.3	475.8	473.0	470.9	466.6	463.8	460.7	459.8	457.7
37.5°	444.9	441.4	436.8	433.7	431.7	431.3	428.2	426.5	424.2	423.0	420.7
40°	400.7	399.2	395.2	394.6	391.5	391.2	389.4	387.5	385.4	385.4	385.8
42.5°	359.9	358.2	356.4	354.5	352.7	352.7	351.9	351.3	350.7	349.8	351.3
45°	321.7	319.4	318.3	316.3	317.1	315.4	314.9	314.9	314.0	313.7	315.7
47.5°	286.2	283.6	282.4	281.9	281.9	282.1	279.6	280.4	280.1	280.7	281.5
50°	253.7	251.4	249.7	249.7	250.0	248.8	247.7	248.5	247.7	248.3	250.2
52.5°	223.6	221.2	220.4	220.4	218.7	218.4	219.0	217.9	218.1	218.4	219.5
55°	195.7	194.3	192.9	191.5	191.7	191.1	190.0	189.7	190.3	190.6	192.0
57.5°	170.8	168.7	166.8	166.1	165.6	165.6	164.2	163.9	164.4	163.0	163.0
60°	147.0	145.8	143.2	142.3	142.3	140.9	139.7	140.4	138.9	138.7	138.9
62.5°	124.8	124.0	122.3	120.6	119.9	119.4	118.0	117.4	116.8	115.7	114.0
65°	105.6	103.6	101.6	100.4	99.6	98.2	97.3	96.1	94.4	93.8	92.1
67.5°	86.4	84.4	82.4	81.5	80.6	79.8	78.4	77.0	74.9	72.6	70.6
70°	69.5	66.9	65.7	63.4	62.9	61.7	59.7	58.2	56.3	53.7	51.6
72.5°	53.1	51.4	49.7	47.6	46.2	45.4	43.6	41.3	39.1	37.6	35.6
75°	38.2	37.3	35.0	32.7	32.1	31.0	29.0	27.6	25.9	23.5	21.8
77.5°	25.9	24.1	22.7	20.7	20.1	18.9	17.8	16.3	15.2	13.7	12.7
80°	15.2	13.7	12.9	11.5	10.9	10.3	9.5	8.3	7.5	6.9	6.6
82.5°	7.5	6.3	6.1	5.2	4.9	4.5	4.0	3.7	3.1	3.1	3.1
85°	2.6	2.1	2.1	1.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2
2.5°	743.4	743.1	742.7	742.5	742.5	742.2	742.2	741.9	741.9	741.6	741.6
5°	738.2	737.3	736.8	736.1	736.1	735.3	734.7	734.2	733.9	733.9	733.3
7.5°	731.0	729.8	728.7	727.8	727.6	726.1	725.0	725.0	723.8	723.2	722.7
10°	721.5	719.5	717.8	717.0	715.8	714.9	713.5	712.6	711.8	710.4	710.0
12.5°	708.6	707.2	704.6	703.4	702.9	701.2	698.9	697.7	697.4	696.3	695.4
15°	694.0	690.8	688.5	687.1	687.1	684.2	683.1	681.4	680.2	679.3	679.1
17.5°	675.0	671.8	669.6	667.6	667.0	664.7	663.0	662.4	661.0	661.6	660.1
20°	650.6	648.0	646.3	643.7	643.7	642.3	641.7	640.3	639.7	639.1	639.7
22.5°	624.5	621.4	618.5	618.2	618.2	616.2	615.9	615.7	614.5	615.3	615.0
25°	593.8	591.5	589.8	589.5	589.5	588.4	587.2	587.7	588.6	588.4	589.2
27.5°	562.0	559.7	559.1	558.8	558.2	558.0	558.5	558.5	559.4	560.5	561.6
30°	527.5	526.9	526.0	525.8	525.2	526.7	527.2	528.1	527.8	529.5	530.7
32.5°	493.0	491.9	491.6	492.2	493.0	492.8	494.5	495.1	495.6	497.7	498.5
35°	458.4	458.1	457.5	457.5	457.7	460.0	460.0	462.1	463.3	463.8	466.1
37.5°	421.0	422.2	422.8	423.6	423.9	424.7	425.4	427.3	428.5	429.6	430.8
40°	386.8	386.3	388.9	387.2	387.7	390.3	391.5	391.2	392.9	394.6	395.8
42.5°	350.5	351.3	351.9	352.4	353.8	354.2	355.6	357.6	358.2	360.2	360.8
45°	315.1	315.4	316.6	317.7	318.5	320.8	321.5	322.3	324.1	324.1	324.9
47.5°	281.9	282.9	282.9	284.7	286.2	285.9	287.9	288.5	288.1	289.5	290.2
50°	250.0	251.7	251.4	252.5	253.2	253.4	255.1	255.8	254.6	256.0	256.3
52.5°	219.5	220.4	221.6	221.9	221.2	222.8	222.1	223.3	223.0	224.2	223.0
55°	191.7	191.5	191.5	192.0	191.5	192.0	192.6	191.5	190.6	191.7	191.5
57.5°	163.9	163.9	163.3	164.2	163.3	162.5	162.1	161.3	160.4	160.4	160.2
60°	137.8	137.1	136.1	135.7	135.7	134.3	133.8	132.6	132.6	131.4	130.3
62.5°	113.3	111.9	111.1	111.1	110.5	109.1	106.5	104.8	104.2	102.5	102.2
65°	90.4	89.0	88.1	86.4	85.0	84.4	81.8	79.8	78.9	77.2	77.5
67.5°	69.5	67.1	64.6	63.4	62.6	60.5	59.7	58.2	57.4	57.4	57.4
70°	49.9	47.9	45.4	44.5	43.9	42.2	41.3	41.0	41.9	41.6	41.9
72.5°	33.6	31.6	30.4	29.9	29.2	28.4	29.0	29.2	28.7	29.0	29.2
75°	20.4	19.8	18.9	18.6	18.6	18.9	18.6	18.6	18.9	18.9	19.3
77.5°	11.8	11.2	11.2	10.9	11.5	11.2	11.2	11.2	11.5	11.5	11.5
80°	6.3	6.3	6.3	6.3	6.6	6.3	6.6	6.6	6.6	6.6	6.6
82.5°	3.1	3.1	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
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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CATALOG NUMBER: LX4C20D010 EX4C209850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2
2.5°	741.0	741.0	741.0	740.5	740.8	740.8	740.5	740.5
5°	733.0	732.7	732.1	732.1	731.6	732.1	731.9	732.1
7.5°	722.1	722.1	721.2	721.2	721.0	720.7	720.3	720.7
10°	709.2	709.2	708.6	708.3	708.6	707.4	707.4	707.2
12.5°	694.8	694.2	693.7	694.0	693.7	692.8	692.5	692.8
15°	678.2	677.4	677.6	676.7	676.7	676.5	677.0	677.0
17.5°	659.8	659.3	658.6	659.0	658.4	658.6	658.4	658.1
20°	639.5	639.1	639.1	638.0	638.3	638.0	638.3	639.1
22.5°	615.9	615.7	615.9	615.0	615.7	615.7	616.5	616.5
25°	590.1	589.8	590.3	590.7	591.0	591.8	591.0	591.2
27.5°	561.4	562.2	563.1	563.4	564.6	563.7	563.1	563.9
30°	532.4	532.4	532.1	533.3	534.2	535.0	533.5	533.5
32.5°	499.1	500.5	500.5	500.8	501.7	501.7	501.7	502.9
35°	467.3	468.1	468.3	467.3	467.8	467.5	469.5	469.5
37.5°	431.7	431.7	432.0	433.9	433.9	433.1	433.7	433.7
40°	397.8	398.1	396.9	397.5	399.0	398.3	399.0	399.5
42.5°	360.8	362.8	361.6	362.2	361.9	362.2	362.5	362.5
45°	325.5	326.0	326.0	326.3	326.9	327.4	325.8	325.5
47.5°	291.0	291.3	292.1	290.7	292.5	290.7	292.5	290.4
50°	256.3	257.4	256.6	257.2	256.3	256.3	256.0	255.8
52.5°	223.3	223.0	223.0	222.8	222.8	223.3	222.8	223.6
55°	190.3	190.6	190.0	189.7	189.4	190.3	189.4	188.9
57.5°	159.0	159.5	158.5	159.0	156.9	157.8	158.1	158.5
60°	130.0	129.1	129.1	128.0	128.0	128.9	127.7	127.7
62.5°	100.8	101.3	100.4	101.6	101.6	102.7	102.2	102.7
65°	77.2	77.5	77.8	77.8	77.8	79.5	78.9	78.0
67.5°	58.2	58.6	58.9	58.6	59.4	58.9	58.9	59.1
70°	42.2	42.4	42.8	42.8	42.4	42.8	42.8	42.8
72.5°	29.2	29.5	29.2	29.5	29.9	29.5	29.5	29.9
75°	19.3	19.3	18.9	18.9	18.9	18.9	19.3	18.9
77.5°	11.2	11.5	11.2	11.5	11.5	11.5	11.5	11.5
80°	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.3
82.5°	3.5	3.5	3.1	3.1	3.5	3.5	3.5	3.5
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)