

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: P857068

Luminaire Tested: **LX4C15D010 EX4C159840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857068
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: LX4C15D010 EX4C159840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

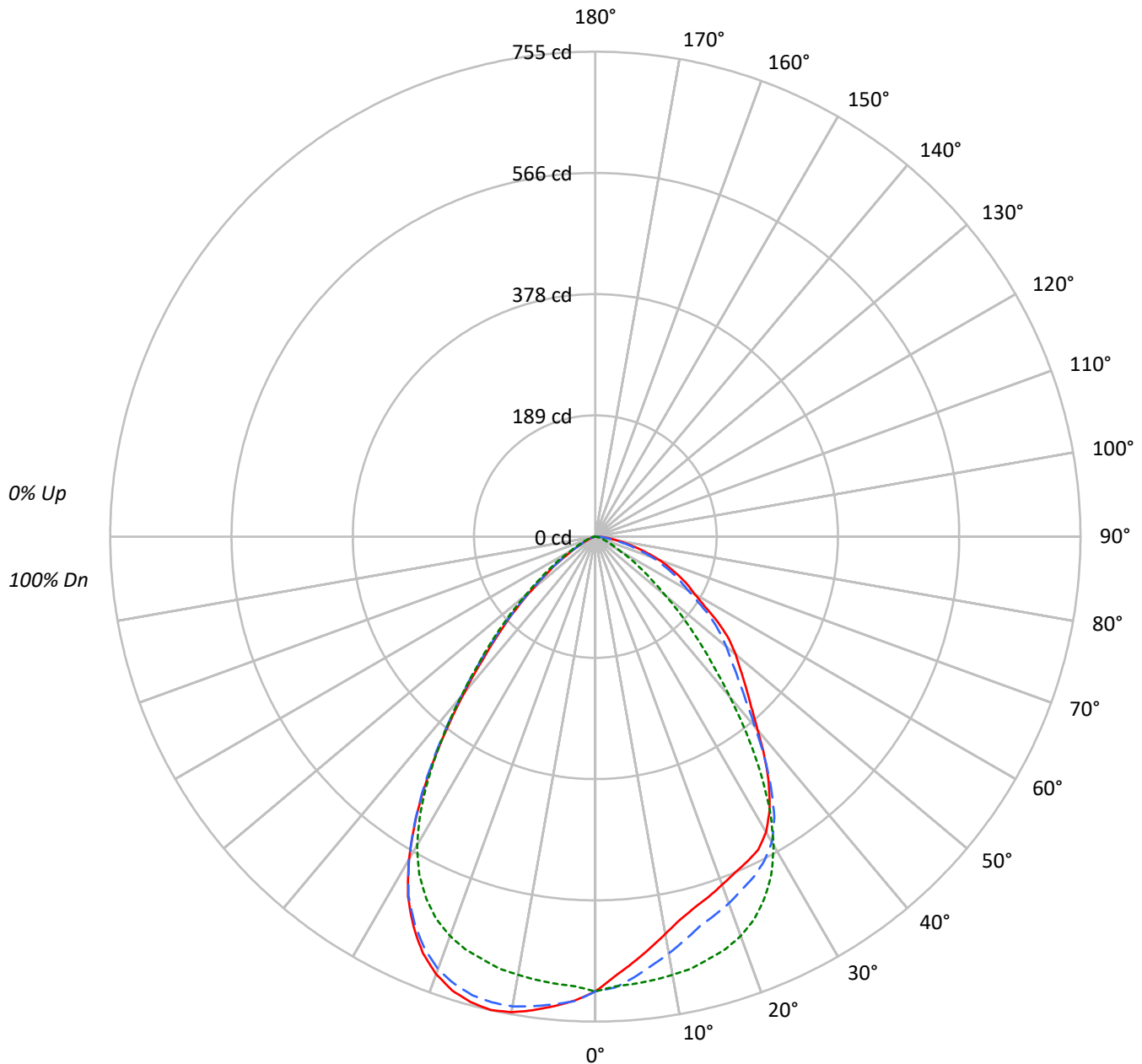
Lumens per Lamp: N/A
Luminaire Lumens: 1241.3 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	106	103	100		101	99	97		98	96	94		94	93	91
2	104	97	92	87	101	95	90	86		92	88	84		89	85	82		86	83	81
3	96	88	81	76	94	86	80	75		83	78	74		81	76	73		78	75	72
4	90	80	72	67	88	78	72	66		76	70	66		74	69	65		72	68	64
5	83	73	65	60	82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	67	59	53	76	66	59	53		64	58	53		62	57	52		61	56	52
7	73	61	54	48	71	61	53	48		59	53	48		58	52	48		56	51	47
8	68	57	49	44	67	56	49	44		55	48	44		54	48	43		52	47	43
9	64	52	45	40	63	52	45	40		51	44	40		50	44	40		49	44	40
10	61	49	42	37	59	48	42	37		47	41	37		47	41	37		46	40	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86993	86993	86993
5°	82145	86203	90482
10°	78330	86401	93799
15°	76020	86589	95403
20°	75397	86496	94720
25°	75707	84355	90794
30°	75341	78703	82321
35°	70609	67204	67879
40°	62931	52105	50919
45°	57560	38848	36468
50°	54414	27216	24598
55°	50034	18377	15443
60°	43711	10762	8526
65°	41395	6889	4767
70°	37716	4921	2945
75°	31186	3465	2136
80°	24550	1981	1273
85°	21849	1269	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	5.4
10°-20°	191.9	15.5
20°-30°	284.5	22.9
30°-40°	284.9	23.0
40°-50°	199.1	16.0
50°-60°	118.5	9.5
60°-70°	61.8	5.0
70°-80°	27.5	2.2
80°-90°	6.0	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°	543.4	43.8
0°-40°	828.3	66.7
0°-60°	1146.0	92.3
0°-90°	1241.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	708	708	708	708	708	
5°	666	689	699	731	734	62
15°	598	628	681	739	750	169
25°	558	584	622	665	670	257
35°	471	476	448	456	453	292
45°	331	315	224	216	210	257
55°	234	219	86	75	72	207
65°	142	130	24	17	16	141
75°	66	58	7	4	4	71
85°	16	12	1	1	0	17
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°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	685.3	693.5	685.3	688.1	699.0	689.0	694.5	694.5	691.7	698.1	702.7
5°	666.1	674.3	666.1	669.8	681.6	671.7	678.0	676.2	677.1	682.6	689.0
7.5°	647.0	653.4	646.1	650.7	661.6	653.4	658.8	658.8	659.8	668.0	673.4
10°	627.9	633.3	627.9	631.4	643.4	636.1	639.7	640.6	643.4	650.7	658.8
12.5°	610.5	615.0	609.6	615.0	625.1	617.8	622.3	623.2	626.0	634.2	643.4
15°	597.7	602.3	596.8	601.4	610.5	605.0	608.7	610.5	612.3	619.6	627.9
17.5°	587.7	591.3	586.8	592.2	599.5	593.2	598.6	598.6	601.4	608.7	617.8
20°	576.7	580.3	576.7	581.3	589.5	584.1	588.6	588.6	591.3	599.5	607.8
22.5°	566.7	568.5	566.7	570.4	578.6	574.0	576.7	577.7	580.3	587.7	595.0
25°	558.5	562.2	560.3	563.9	569.4	564.9	567.6	568.5	571.2	577.7	584.1
27.5°	549.3	551.2	549.3	554.0	558.5	554.8	557.6	556.6	558.5	563.9	569.4
30°	531.1	532.9	532.9	535.7	539.3	537.5	540.2	537.5	539.3	543.9	549.3
32.5°	504.6	505.5	506.4	509.2	511.9	509.2	511.1	511.1	511.1	514.7	518.4
35°	470.8	472.7	471.8	473.6	476.4	475.5	475.5	474.5	472.7	474.5	476.4
37.5°	432.6	429.8	429.8	432.6	434.4	430.7	432.6	430.7	430.7	431.6	431.6
40°	392.4	389.7	392.4	393.3	394.2	392.4	391.5	389.7	386.9	387.8	386.0
42.5°	358.7	356.8	357.7	357.7	358.7	356.8	357.7	354.1	351.3	349.5	346.8
45°	331.3	328.5	331.3	329.4	329.4	328.5	327.6	325.8	322.1	319.4	314.9
47.5°	305.7	305.7	306.6	306.6	306.6	304.8	304.8	301.1	297.5	293.8	287.5
50°	284.7	282.9	286.5	286.5	283.8	282.9	283.8	279.2	276.5	272.0	265.6
52.5°	261.9	261.9	262.8	262.8	261.9	260.0	261.0	257.4	254.6	250.0	243.6
55°	233.6	231.8	234.5	234.5	233.6	232.7	233.6	230.9	228.2	224.5	219.0
57.5°	201.7	200.7	202.6	203.5	201.7	201.7	202.6	199.8	198.9	195.3	189.8
60°	177.9	177.0	178.9	179.8	177.9	177.9	177.9	174.2	172.5	168.8	165.2
62.5°	161.5	160.6	162.5	161.5	160.6	159.7	160.6	156.9	155.2	151.5	147.9
65°	142.4	143.3	144.2	144.2	143.3	142.4	142.4	140.5	138.8	135.1	130.5
67.5°	124.1	124.1	125.0	125.9	125.0	125.0	125.0	122.3	120.5	117.7	112.3
70°	105.0	104.1	106.7	106.7	105.0	105.8	105.0	104.1	102.2	98.5	94.0
72.5°	84.9	84.9	85.8	85.8	84.9	84.9	84.9	83.9	81.2	79.4	74.8
75°	65.7	65.7	66.6	67.5	65.7	65.7	66.6	64.7	63.0	60.3	57.5
77.5°	49.3	48.3	49.3	49.3	48.3	48.3	48.3	47.4	46.5	43.8	41.1
80°	34.7	33.8	34.7	34.7	34.7	33.8	33.8	32.8	32.8	31.0	28.3
82.5°	23.7	22.8	23.7	23.7	23.7	22.8	22.8	22.8	21.9	21.0	19.2
85°	15.5	14.6	14.6	15.5	14.6	14.6	14.6	14.6	13.7	12.8	11.9
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.4	6.4	6.4	5.4
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°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	699.0	697.2	702.7	700.8	701.7	697.2	704.5	700.8	705.4	700.8	710.0
5°	687.2	685.3	693.5	692.6	693.5	689.9	698.1	697.2	702.7	699.0	709.0
7.5°	674.3	672.6	681.6	682.6	684.4	680.8	691.7	691.7	697.2	696.3	707.2
10°	659.8	660.7	669.8	671.7	675.3	673.4	683.5	686.3	693.5	692.6	706.3
12.5°	646.1	646.1	657.9	661.6	664.3	663.5	675.3	679.0	687.2	689.0	701.7
15°	632.4	633.3	644.3	649.7	653.4	652.5	665.2	669.8	679.9	680.8	696.3
17.5°	621.5	620.6	632.4	637.0	642.4	641.5	655.2	660.7	670.8	673.4	688.1
20°	612.3	611.4	622.3	627.9	631.4	630.6	644.3	650.7	659.8	661.6	676.2
22.5°	601.4	599.5	610.5	615.0	618.7	617.8	629.7	634.2	643.4	645.2	658.8
25°	588.6	586.8	596.8	599.5	602.3	600.5	610.5	613.3	620.6	622.3	636.1
27.5°	574.0	569.4	577.7	577.7	579.5	576.7	584.1	586.8	593.2	593.2	605.9
30°	551.2	544.9	549.3	548.4	549.3	545.7	550.3	551.2	555.7	554.8	563.9
32.5°	519.3	510.1	512.8	510.1	507.4	502.0	507.4	505.5	509.2	505.5	513.7
35°	475.5	466.3	465.4	461.7	459.1	454.4	454.4	449.9	450.8	448.1	453.5
37.5°	427.9	416.2	414.3	407.0	402.4	397.0	397.0	393.3	388.7	386.9	391.5
40°	381.4	368.6	364.1	352.2	347.7	342.2	338.5	334.0	332.2	324.9	328.5
42.5°	341.3	327.6	317.5	304.8	300.2	292.0	286.5	281.1	278.3	270.1	273.8
45°	307.6	291.2	280.2	263.7	257.4	248.3	240.0	233.6	227.2	223.6	221.8
47.5°	279.2	261.9	247.3	229.1	219.0	210.8	199.8	193.4	185.3	180.7	177.9
50°	255.5	236.3	219.9	198.9	188.9	179.8	167.0	156.9	149.6	142.4	140.5
52.5°	234.5	214.5	196.2	172.5	160.6	149.6	136.0	125.0	118.6	110.4	109.5
55°	209.9	192.5	172.5	147.9	136.0	125.0	110.4	99.5	91.2	85.8	83.9
57.5°	183.4	167.0	147.9	123.2	111.3	99.5	85.8	75.7	68.4	63.8	63.0
60°	158.8	143.3	125.0	100.4	88.5	78.5	63.8	53.9	47.4	43.8	42.0
62.5°	140.5	125.9	108.6	85.8	74.8	64.7	51.1	42.0	36.5	32.8	31.0
65°	123.2	108.6	93.1	72.1	63.0	53.9	41.1	32.8	27.4	23.7	21.9
67.5°	105.0	92.2	77.6	60.3	51.1	43.8	32.8	25.5	21.0	18.3	16.4
70°	86.7	74.8	63.0	48.3	42.0	34.7	25.5	20.1	15.5	13.7	11.9
72.5°	68.4	59.3	49.3	37.5	31.9	27.4	20.1	14.6	11.9	10.1	8.2
75°	51.1	44.7	36.5	28.3	23.7	20.1	14.6	11.0	9.1	7.3	6.4
77.5°	36.5	31.0	25.5	19.2	17.4	14.6	10.1	8.2	6.4	4.5	3.7
80°	24.6	21.9	17.4	13.7	11.0	10.1	7.3	5.4	3.7	2.8	2.8
82.5°	16.4	13.7	11.0	8.2	7.3	6.4	4.5	3.7	2.8	1.8	1.8
85°	10.1	8.2	6.4	4.5	4.5	3.7	2.8	1.8	0.9	0.9	0.9
87.5°	4.5	3.7	2.8	1.8	1.8	0.9	0.9	0.9	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°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	717.2	711.8	708.1	712.7	714.6	711.8	714.6	719.1	723.6	724.5	711.8
5°	718.2	712.7	710.9	716.3	717.2	716.3	719.1	725.5	731.0	732.8	720.0
7.5°	718.2	714.6	713.7	720.0	720.9	720.0	724.5	731.9	737.3	740.9	728.2
10°	716.3	714.6	715.4	720.9	722.8	722.8	729.2	737.3	742.8	746.5	733.7
12.5°	713.7	713.7	713.7	720.0	721.9	722.8	728.2	739.2	742.8	748.3	735.5
15°	709.0	709.0	709.0	715.4	718.2	718.2	724.5	734.6	739.2	744.6	731.9
17.5°	700.8	700.8	701.7	707.2	710.0	710.0	716.3	727.3	730.1	736.4	723.6
20°	689.0	689.0	689.9	695.4	698.1	696.3	704.5	713.7	716.3	721.9	709.0
22.5°	671.7	671.7	671.7	677.1	679.0	678.0	686.3	694.5	694.5	701.7	688.1
25°	646.1	647.9	646.1	651.6	653.4	652.5	659.8	667.1	665.2	673.4	659.8
27.5°	615.0	614.1	614.1	618.7	618.7	617.8	623.2	631.4	629.7	635.1	622.3
30°	572.1	574.9	570.4	576.7	574.0	572.1	575.8	583.1	580.3	585.0	574.9
32.5°	522.9	519.3	519.3	519.3	521.0	516.5	520.2	523.8	521.0	525.6	514.7
35°	458.1	459.1	456.3	457.2	458.1	452.6	456.3	460.0	456.3	459.1	449.0
37.5°	393.3	394.2	387.8	391.5	387.8	386.0	389.7	391.5	387.8	390.6	379.6
40°	328.5	326.7	325.8	325.8	326.7	322.1	324.9	327.6	324.9	326.7	316.7
42.5°	272.0	271.1	269.2	270.1	267.3	266.5	267.3	270.1	267.3	269.2	261.9
45°	222.7	220.8	218.1	219.0	219.0	214.5	217.1	219.0	216.2	217.1	210.8
47.5°	177.0	174.2	174.2	173.4	173.4	171.6	174.2	173.4	170.6	172.5	166.1
50°	137.8	136.0	136.0	136.0	136.0	133.2	134.1	136.0	133.2	133.2	129.6
52.5°	107.6	105.0	103.2	103.2	103.2	102.2	102.2	103.2	100.4	100.4	99.5
55°	81.2	80.3	77.6	77.6	77.6	74.8	75.7	75.7	74.8	74.8	72.1
57.5°	60.3	57.5	55.6	55.6	53.9	53.9	53.0	53.9	52.0	52.0	50.2
60°	40.1	38.3	37.5	36.5	36.5	35.6	36.5	35.6	35.6	34.7	33.8
62.5°	29.2	27.4	25.5	25.5	25.5	24.6	24.6	24.6	24.6	24.6	23.7
65°	21.0	19.2	19.2	18.3	18.3	17.4	17.4	17.4	17.4	17.4	16.4
67.5°	14.6	13.7	12.8	12.8	12.8	12.8	12.8	12.8	11.9	11.9	11.9
70°	11.0	10.1	9.1	9.1	9.1	9.1	9.1	8.2	9.1	9.1	8.2
72.5°	7.3	7.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	5.4	5.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.7	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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: P857068

CATALOG NUMBER: LX4C15D010 EX4C159840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	725.5	724.5	722.8	725.5	718.2	715.4	714.6	722.8
5°	735.5	733.7	733.7	736.4	728.2	726.4	724.5	733.7
7.5°	744.6	742.8	742.8	745.6	738.3	736.4	734.6	743.7
10°	750.1	750.1	750.1	751.9	745.6	743.7	742.8	751.9
12.5°	752.9	752.9	751.9	755.6	747.4	747.4	745.6	754.7
15°	749.2	749.2	749.2	751.9	744.6	742.8	742.8	750.1
17.5°	740.1	740.1	739.2	741.9	733.7	733.7	732.8	740.9
20°	726.4	726.4	724.5	728.2	720.0	717.2	716.3	724.5
22.5°	704.5	703.6	702.7	704.5	697.2	695.4	694.5	701.7
25°	676.2	675.3	673.4	675.3	667.1	664.3	664.3	669.8
27.5°	636.1	636.1	633.3	636.1	626.9	626.0	625.1	631.4
30°	586.8	583.1	581.3	585.0	575.8	575.8	574.0	580.3
32.5°	525.6	522.0	521.0	522.9	514.7	511.9	515.6	519.3
35°	455.4	456.3	452.6	452.6	445.3	446.2	447.1	452.6
37.5°	387.8	386.0	385.1	386.0	380.5	378.7	376.9	382.4
40°	324.9	320.3	319.4	319.4	314.9	313.9	314.9	317.5
42.5°	265.6	264.7	261.0	262.8	258.2	260.0	259.1	259.1
45°	214.5	215.4	211.7	214.5	210.8	208.0	208.0	209.9
47.5°	169.7	169.7	168.8	168.8	166.1	167.0	165.2	167.9
50°	131.4	131.4	129.6	130.5	128.7	128.7	127.8	128.7
52.5°	100.4	99.5	99.5	98.5	96.8	97.6	98.5	96.8
55°	73.0	73.9	72.1	73.0	71.2	72.1	71.2	72.1
57.5°	50.2	51.1	49.3	51.1	49.3	50.2	49.3	49.3
60°	34.7	34.7	33.8	34.7	33.8	33.8	32.8	34.7
62.5°	23.7	23.7	23.7	23.7	23.7	22.8	23.7	23.7
65°	17.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
70°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.0	0.9	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)