

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: P857265

Luminaire Tested: **LX4C20D010 EX4C209840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C20D010 EX4C209840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

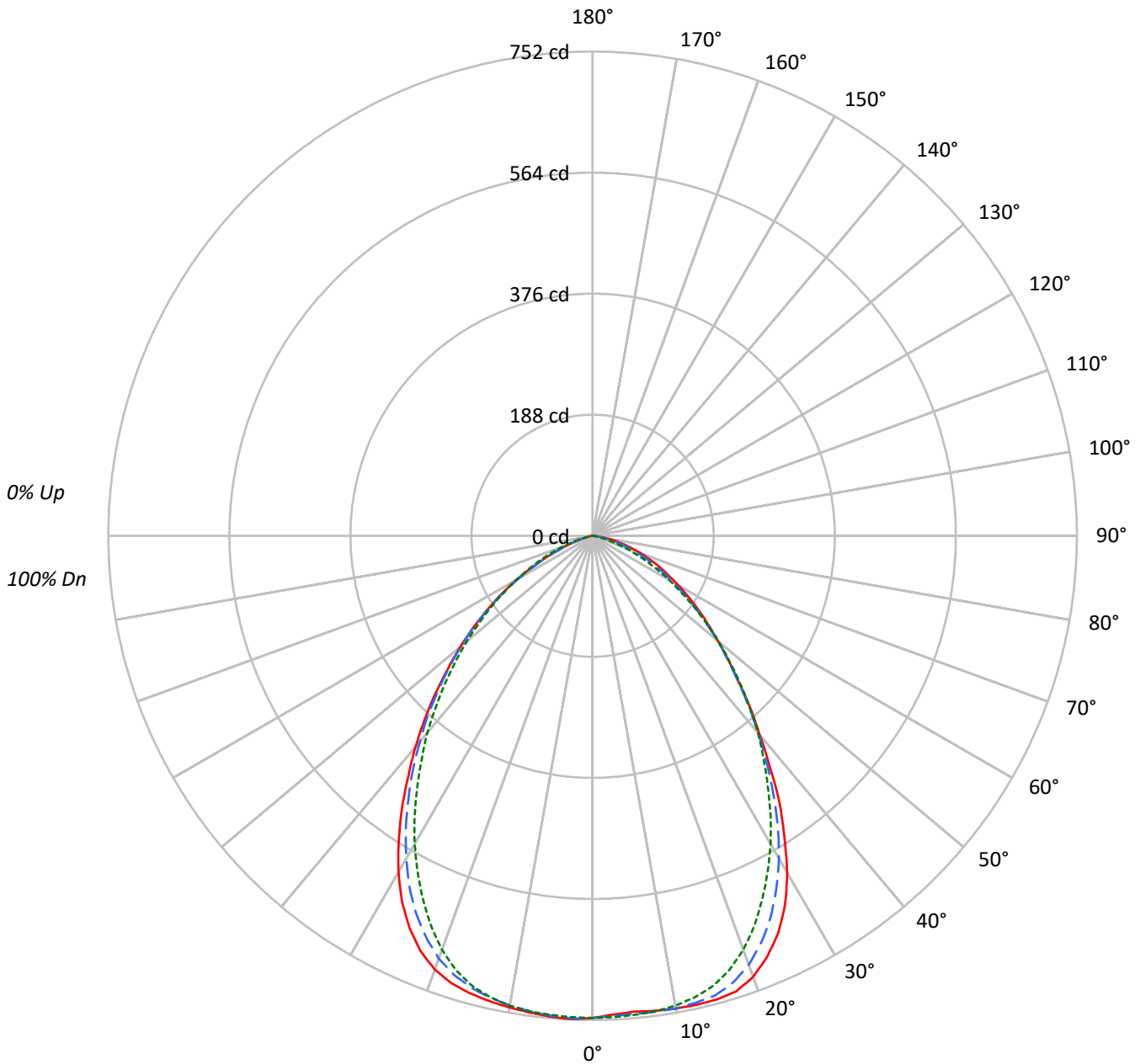
Lumens per Lamp: N/A
Luminaire Lumens: 1435.7 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92005	92005	92005
5°	91481	92110	92455
10°	93000	92426	92788
15°	94818	92033	93572
20°	95295	89438	93713
25°	92366	84464	91106
30°	85725	78391	85569
35°	75918	71104	77343
40°	64711	64037	68592
45°	55597	56240	59750
50°	48546	48642	51222
55°	42881	41081	42452
60°	37569	33490	33367
65°	33256	25988	23110
70°	28377	17888	13757
75°	22927	9588	6266
80°	15706	2405	1556
85°	4793	705	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	5.0
10°-20°	206.0	14.4
20°-30°	297.7	20.7
30°-40°	307.8	21.4
40°-50°	254.3	17.7
50°-60°	175.5	12.2
60°-70°	91.9	6.4
70°-80°	28.9	2.0
80°-90°	2.5	0.2
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°	574.9	40.0
0°-40°	882.7	61.5
0°-60°	1312.4	91.4
0°-90°	1435.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	749	749	749	749	749	
5°	742	746	747	748	750	71
15°	746	738	724	727	736	210
25°	681	654	623	648	672	311
35°	506	489	474	499	516	314
45°	320	319	324	339	344	249
55°	200	194	192	197	198	180
65°	114	104	89	74	80	113
75°	48	38	20	14	13	52
85°	3	2	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°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	744.1	744.3	744.3	745.0	745.0	745.0	745.2	745.2	745.5	745.8	746.0
5°	741.8	741.8	742.4	742.6	743.3	743.5	744.1	744.3	745.0	745.2	745.5
7.5°	744.1	744.1	744.3	744.6	744.6	745.0	745.0	745.2	745.5	745.8	745.8
10°	745.5	745.5	745.5	745.5	745.8	745.8	745.8	745.5	745.5	745.5	745.2
12.5°	746.0	746.0	745.8	745.5	745.8	745.5	745.5	744.6	744.1	743.5	742.6
15°	745.5	745.5	745.2	745.0	744.6	744.1	743.8	742.4	741.3	739.6	738.5
17.5°	741.8	741.3	740.7	740.1	739.0	738.2	737.6	735.1	733.1	730.3	727.2
20°	728.9	728.4	727.5	726.1	724.7	723.6	721.9	718.2	716.2	712.1	708.9
22.5°	707.8	707.2	707.5	705.0	702.2	700.5	699.4	696.3	692.9	687.5	684.1
25°	681.4	679.7	679.7	675.8	674.3	673.2	671.8	668.2	663.1	658.3	653.8
27.5°	647.0	644.8	643.7	643.1	639.7	637.2	635.3	632.4	628.2	624.0	617.8
30°	604.3	604.1	602.6	600.1	597.6	596.5	594.2	589.4	585.5	582.4	578.5
32.5°	554.0	553.7	553.7	553.7	552.0	551.7	548.3	545.8	542.7	538.0	535.4
35°	506.2	505.9	506.2	502.0	500.8	500.0	499.7	498.0	493.8	491.5	489.3
37.5°	452.2	453.0	452.5	451.3	452.7	450.2	452.2	448.5	446.9	446.3	443.7
40°	403.5	405.7	403.5	403.8	405.2	402.7	402.7	402.1	401.0	400.5	399.9
42.5°	362.0	359.1	360.8	359.4	360.8	359.9	358.6	359.4	359.6	358.6	358.3
45°	320.0	320.6	321.1	320.3	320.3	319.4	321.7	320.3	320.3	320.6	318.6
47.5°	286.0	285.2	285.7	285.2	285.4	284.8	285.4	285.7	285.2	285.2	283.5
50°	254.0	253.3	255.3	253.6	253.6	253.3	253.6	253.1	252.3	252.3	252.8
52.5°	226.1	225.0	224.7	226.1	224.1	224.1	224.4	223.8	222.8	222.1	220.7
55°	200.2	199.9	200.2	199.1	198.5	198.5	197.2	196.5	196.3	194.8	194.0
57.5°	176.0	175.2	175.5	175.2	174.1	173.8	172.6	172.6	171.6	170.4	169.0
60°	152.9	152.9	153.8	152.7	151.9	151.3	150.7	150.2	148.2	146.2	144.6
62.5°	132.4	132.7	132.4	131.6	131.1	130.5	129.9	128.2	126.5	125.4	123.4
65°	114.4	114.1	113.3	112.8	111.4	111.4	110.2	109.4	107.5	105.8	103.8
67.5°	95.9	95.3	95.3	95.3	93.6	93.4	92.8	91.1	89.4	87.2	85.5
70°	79.0	79.5	78.7	77.9	77.0	76.8	75.9	74.3	72.2	70.0	68.6
72.5°	63.0	63.6	62.7	62.4	60.7	60.2	59.9	58.5	56.3	54.8	52.6
75°	48.3	48.7	48.1	47.5	46.4	46.1	44.7	43.6	42.2	40.0	38.0
77.5°	34.9	34.3	34.3	33.2	32.0	32.0	31.7	30.1	28.1	26.4	24.8
80°	22.2	21.9	21.1	20.5	19.7	19.4	19.1	17.7	16.3	15.2	14.1
82.5°	11.2	11.0	10.7	10.4	9.8	9.3	9.5	8.5	7.8	6.8	5.9
85°	3.4	3.7	3.7	3.4	3.1	3.1	3.1	2.9	2.2	2.0	1.7
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	746.3	746.7	746.9	747.2	747.2	747.5	747.7	748.0	748.3	748.3	748.6
5°	745.8	746.3	746.3	746.7	746.7	746.7	746.9	746.9	746.9	746.9	747.2
7.5°	746.0	746.0	746.0	745.8	745.8	745.5	745.5	745.5	745.0	745.0	745.0
10°	744.6	744.3	744.1	743.5	743.3	743.0	742.4	741.8	741.3	740.9	740.4
12.5°	741.8	740.7	739.6	738.5	737.9	737.6	736.5	735.7	734.8	734.0	733.4
15°	736.2	734.5	732.6	730.3	729.7	729.2	727.2	725.5	724.4	723.6	722.1
17.5°	725.0	721.6	719.4	716.0	714.6	714.0	710.9	709.2	707.2	706.7	705.5
20°	705.0	701.9	697.7	694.6	692.9	691.2	688.7	686.5	684.1	684.1	682.8
22.5°	680.0	676.0	670.7	666.8	666.5	663.1	660.9	658.3	657.5	655.8	655.8
25°	648.5	645.1	639.2	635.8	634.1	633.3	629.7	626.3	624.6	623.1	624.3
27.5°	613.6	608.5	604.1	599.8	598.4	596.8	593.4	591.9	588.8	588.5	588.3
30°	573.7	568.6	564.1	562.2	559.3	558.0	555.4	553.7	552.6	552.6	552.0
32.5°	531.7	527.3	525.1	520.8	519.4	517.4	515.7	514.1	514.6	514.1	514.4
35°	486.5	485.4	481.2	478.6	478.6	478.3	475.6	474.4	473.9	474.1	475.6
37.5°	443.5	440.1	437.3	435.6	437.0	435.3	435.0	435.0	436.7	435.6	437.8
40°	397.6	397.4	396.2	396.8	397.1	395.1	395.7	395.9	397.1	399.3	399.6
42.5°	357.7	357.4	357.4	357.4	356.9	355.7	356.9	358.8	358.6	360.3	361.6
45°	319.2	318.6	319.8	318.9	320.6	321.1	320.3	320.8	322.5	323.7	325.9
47.5°	284.0	284.0	284.3	284.8	283.2	284.6	285.2	286.2	287.1	287.7	288.8
50°	251.4	251.4	250.8	250.8	250.8	251.6	250.6	252.0	252.3	254.5	255.9
52.5°	221.3	219.9	220.7	220.2	219.1	218.5	219.1	219.4	221.1	221.6	223.3
55°	192.6	192.6	190.4	189.9	190.7	190.4	190.1	190.1	190.9	191.8	193.2
57.5°	167.3	165.6	163.9	163.6	162.8	163.1	163.1	162.8	162.3	162.6	162.8
60°	143.4	142.3	139.7	139.7	139.5	139.2	137.8	137.5	136.1	136.3	135.3
62.5°	121.5	120.9	117.5	116.5	116.5	115.6	114.1	113.9	111.9	111.9	110.8
65°	101.8	100.1	98.2	96.1	96.1	95.1	94.2	91.7	90.2	89.4	87.7
67.5°	83.8	81.2	79.3	77.6	76.5	76.2	74.3	72.6	70.3	68.9	66.3
70°	66.3	64.4	62.4	60.7	59.7	58.5	56.5	54.0	52.3	49.8	48.1
72.5°	50.0	48.3	46.6	44.4	43.0	42.2	40.2	38.0	35.1	33.4	31.2
75°	36.0	34.1	31.7	29.8	29.0	28.1	25.9	24.2	22.2	20.2	18.0
77.5°	23.4	21.1	19.4	17.1	16.9	16.3	14.1	12.4	11.0	9.8	8.5
80°	12.4	11.2	9.8	8.5	7.8	7.0	5.9	5.1	4.2	3.4	2.9
82.5°	5.4	4.5	3.7	3.1	2.9	2.5	2.0	1.7	1.4	1.4	1.2
85°	1.4	1.2	1.2	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	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°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	748.9	749.2	749.4	749.4	749.7	750.0	750.0	750.3	750.6	750.8	750.8
5°	747.5	747.5	747.5	747.7	747.7	747.7	747.7	748.3	748.3	748.6	748.9
7.5°	744.6	744.6	744.6	744.6	744.3	744.6	744.3	744.3	745.0	745.2	745.5
10°	740.1	739.9	739.9	739.6	739.6	739.6	739.9	740.1	740.4	740.7	741.6
12.5°	733.1	732.8	732.8	732.6	732.6	732.8	733.1	733.6	734.8	735.3	736.5
15°	721.9	721.6	721.9	722.1	722.7	723.6	724.4	725.3	726.9	728.4	729.7
17.5°	705.5	705.8	706.1	706.7	707.5	708.7	710.9	713.1	715.1	717.4	719.6
20°	683.1	684.1	684.5	686.5	687.0	689.5	692.1	695.5	698.5	701.4	704.4
22.5°	656.1	656.9	658.0	660.2	661.7	665.1	668.2	672.1	675.5	679.2	683.6
25°	625.4	625.7	629.0	629.0	632.4	635.3	638.9	643.1	648.2	652.9	656.1
27.5°	590.5	591.9	594.4	595.6	598.1	602.6	605.8	610.8	615.8	620.0	623.4
30°	554.0	555.1	559.3	559.9	561.9	565.8	570.0	574.8	578.7	583.5	586.6
32.5°	515.4	518.5	521.0	523.0	523.6	529.5	531.7	535.1	539.7	544.4	547.5
35°	478.1	479.5	483.1	484.2	485.9	489.3	493.8	496.6	498.8	502.0	505.6
37.5°	438.4	442.7	443.5	446.9	447.4	450.5	452.7	456.1	458.9	461.7	462.3
40°	401.6	403.0	406.1	406.9	407.4	411.7	414.5	415.4	416.7	419.3	422.7
42.5°	364.2	365.6	368.9	368.1	370.6	372.6	374.0	377.4	378.8	379.6	379.6
45°	327.4	327.9	330.1	331.3	332.7	333.8	336.4	338.0	338.6	341.1	342.0
47.5°	292.1	292.8	294.5	296.4	295.8	297.2	300.1	300.9	301.1	302.8	303.7
50°	257.6	259.0	261.3	260.7	262.4	263.2	265.7	266.3	266.3	266.6	266.9
52.5°	225.3	226.4	226.9	227.5	228.4	229.7	230.9	230.3	231.4	232.6	231.7
55°	193.2	194.0	195.5	196.0	196.0	196.3	195.7	198.2	197.2	196.8	197.2
57.5°	163.9	162.8	162.6	163.9	164.5	164.3	163.4	164.5	164.5	163.9	163.1
60°	135.5	134.7	134.4	134.7	133.6	132.7	133.3	132.7	131.4	130.7	131.1
62.5°	109.7	108.8	106.6	106.6	106.0	105.8	103.4	103.8	102.6	100.9	101.5
65°	85.8	83.6	82.4	82.1	80.2	78.5	77.9	75.9	74.3	73.9	74.3
67.5°	64.4	61.9	59.9	59.0	58.0	56.5	54.6	52.9	53.4	53.1	54.3
70°	44.7	43.0	41.0	39.7	40.2	38.5	37.4	37.4	37.7	38.0	38.5
72.5°	29.8	27.6	26.8	25.9	25.3	24.2	24.8	24.8	24.4	24.8	24.2
75°	16.9	15.8	14.9	14.6	14.1	14.1	14.1	14.1	13.8	13.5	13.5
77.5°	7.6	7.0	6.8	6.5	6.5	6.5	6.2	5.9	5.9	5.9	5.6
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.4	1.4	1.4	1.2	1.4	1.4	1.2	1.2	1.4
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.3	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	751.1	751.4	751.4	751.4	751.6	751.6	751.6	751.6
5°	749.2	749.4	749.4	749.4	749.7	749.7	749.7	749.7
7.5°	745.8	746.0	746.0	746.3	746.3	746.7	746.7	746.9
10°	741.8	742.4	742.6	743.0	743.3	743.5	743.5	743.8
12.5°	737.6	738.2	738.5	739.0	739.6	739.9	740.1	740.4
15°	731.4	732.6	733.1	733.4	734.5	735.1	735.3	735.7
17.5°	721.6	723.8	724.7	725.3	726.3	727.5	728.4	728.6
20°	707.5	710.1	711.2	712.6	714.3	715.7	716.2	716.8
22.5°	687.8	690.7	692.3	694.0	695.5	696.8	699.1	698.2
25°	659.7	664.5	666.5	667.3	670.4	672.1	673.2	672.1
27.5°	628.2	631.0	632.7	634.7	637.0	638.7	639.2	640.9
30°	590.2	595.1	594.8	596.8	599.5	601.2	601.7	603.2
32.5°	550.9	553.1	554.8	554.6	555.6	558.8	557.6	560.2
35°	509.0	509.3	512.0	511.8	514.1	514.1	514.1	515.7
37.5°	464.2	467.6	466.2	469.6	468.5	469.3	469.3	469.9
40°	423.5	424.6	424.6	425.7	426.6	425.7	426.3	427.7
42.5°	381.3	382.5	382.7	382.2	383.0	385.5	383.5	385.2
45°	342.0	342.8	343.9	343.1	344.5	343.7	344.5	343.9
47.5°	304.8	304.5	304.3	306.5	304.5	304.8	306.0	304.0
50°	266.9	268.6	267.4	268.2	268.9	268.9	268.0	268.0
52.5°	233.1	232.8	232.0	232.8	232.3	232.6	233.1	232.6
55°	198.2	199.4	198.9	198.5	198.9	198.9	200.5	198.2
57.5°	163.9	163.4	164.3	166.2	164.3	165.6	166.5	166.8
60°	131.4	131.4	133.0	132.2	133.9	135.3	136.3	135.8
62.5°	100.1	101.5	102.1	102.4	104.1	105.1	105.1	104.9
65°	74.3	76.2	76.2	77.3	77.9	77.9	78.5	79.5
67.5°	54.8	54.8	55.1	55.6	55.4	55.4	56.0	56.3
70°	38.3	37.7	38.5	38.3	38.3	38.0	38.3	38.3
72.5°	24.2	24.2	24.4	24.2	23.6	23.9	23.9	24.4
75°	12.9	13.5	12.9	12.9	13.2	12.7	12.9	13.2
77.5°	5.4	5.4	5.4	5.4	5.4	5.1	5.1	5.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.2
82.5°	1.2	1.4	1.2	1.4	1.2	1.2	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.3	0.0	0.3	0.0	0.0	0.0	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)