

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: P857239

Luminaire Tested: **LX4C20D010 EX4C209830 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857239  
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 EX4C209830 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

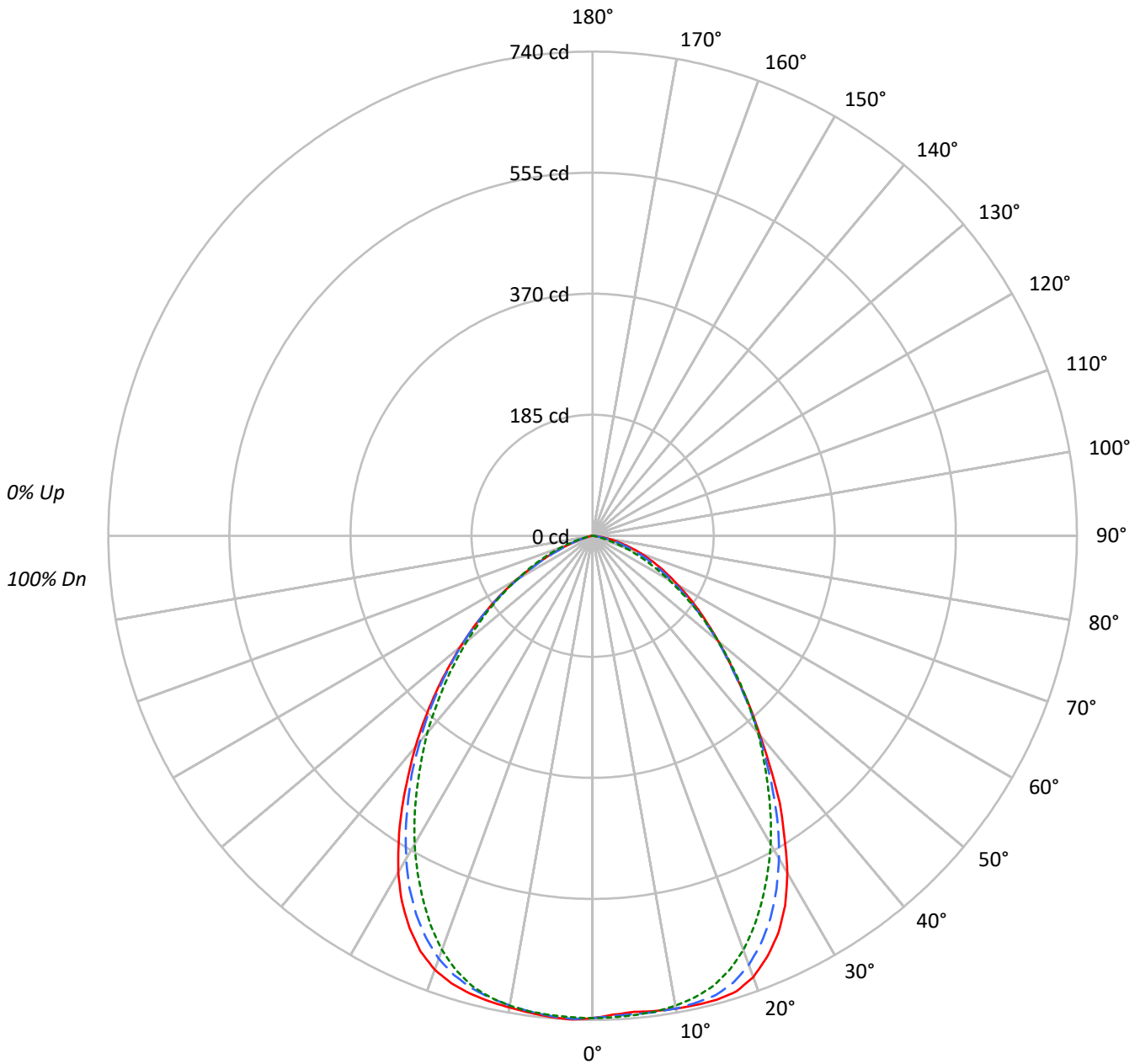
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1413.4 lumens  
Efficiency: N/A  
Efficacy: 64.8 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<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	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°	90568	90568	90568
5°	90063	90679	91025
10°	91553	90992	91341
15°	93343	90595	92109
20°	93818	88052	92249
25°	90929	83162	89696
30°	84406	77171	84236
35°	74733	69994	76158
40°	63717	63043	67533
45°	54746	55354	58829
50°	47782	47896	50438
55°	42217	40439	41810
60°	37003	32998	32851
65°	32761	25581	22791
70°	27946	17601	13506
75°	22594	9493	6171
80°	15423	2335	1556
85°	4652	705	705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	5.0
10°-20°	202.8	14.4
20°-30°	293.1	20.7
30°-40°	303.0	21.4
40°-50°	250.3	17.7
50°-60°	172.8	12.2
60°-70°	90.4	6.4
70°-80°	28.5	2.0
80°-90°	2.4	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°	566.0	40.0
0°-40°	869.0	61.5
0°-60°	1292.1	91.4
0°-90°	1413.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	737	737	737	737	737	
5°	730	734	735	737	738	70
15°	734	727	712	716	724	207
25°	671	644	614	638	662	306
35°	498	482	467	491	508	309
45°	315	314	319	333	339	246
55°	197	191	189	194	195	177
65°	113	102	88	73	78	112
75°	48	37	20	14	13	51
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°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	732.6	732.8	732.8	733.4	733.4	733.4	733.6	733.6	733.9	734.2	734.4
5°	730.3	730.3	730.9	731.1	731.7	731.9	732.6	732.8	733.4	733.6	733.9
7.5°	732.6	732.6	732.8	733.1	733.1	733.4	733.4	733.6	733.9	734.2	734.2
10°	733.9	733.9	733.9	733.9	734.2	734.2	734.2	733.9	733.9	733.9	733.6
12.5°	734.4	734.4	734.2	733.9	734.2	733.9	733.9	733.1	732.6	731.9	731.1
15°	733.9	733.9	733.6	733.4	733.1	732.6	732.2	730.9	729.8	728.1	726.9
17.5°	730.3	729.8	729.2	728.6	727.6	726.7	726.1	723.6	721.7	718.9	715.9
20°	717.6	717.0	716.2	714.8	713.4	712.3	710.6	707.1	705.1	701.0	697.9
22.5°	696.8	696.3	696.5	694.0	691.3	689.6	688.5	685.5	682.2	676.9	673.5
25°	670.8	669.2	669.2	665.2	663.9	662.7	661.4	657.7	652.8	648.1	643.7
27.5°	637.0	634.8	633.7	633.1	629.8	627.3	625.4	622.6	618.4	614.3	608.3
30°	595.0	594.7	593.3	590.8	588.3	587.2	585.0	580.3	576.4	573.3	569.5
32.5°	545.4	545.1	545.1	545.1	543.4	543.2	539.9	537.4	534.3	529.6	527.1
35°	498.3	498.0	498.3	494.2	493.0	492.2	492.0	490.3	486.2	483.9	481.7
37.5°	445.2	446.0	445.4	444.4	445.7	443.2	445.2	441.6	439.9	439.4	436.9
40°	397.3	399.5	397.3	397.5	399.0	396.5	396.5	395.8	394.8	394.2	393.7
42.5°	356.3	353.5	355.2	353.8	355.2	354.4	353.0	353.8	354.1	353.0	352.7
45°	315.1	315.6	316.1	315.3	315.3	314.5	316.7	315.3	315.3	315.6	313.6
47.5°	281.5	280.7	281.3	280.7	281.0	280.5	281.0	281.3	280.7	280.7	279.0
50°	250.0	249.4	251.4	249.7	249.7	249.4	249.7	249.2	248.4	248.4	248.9
52.5°	222.6	221.5	221.2	222.6	220.6	220.6	220.9	220.3	219.3	218.7	217.3
55°	197.1	196.8	197.1	196.0	195.5	195.5	194.0	193.5	193.2	191.8	191.0
57.5°	173.3	172.5	172.7	172.5	171.4	171.1	170.0	170.0	168.9	167.7	166.4
60°	150.6	150.6	151.4	150.3	149.5	148.9	148.4	147.9	145.9	143.9	142.3
62.5°	130.4	130.6	130.4	129.6	129.0	128.4	127.9	126.3	124.6	123.5	121.5
65°	112.7	112.4	111.6	111.0	109.6	109.6	108.5	107.7	105.8	104.1	102.2
67.5°	94.4	93.8	93.8	93.8	92.2	91.9	91.3	89.7	88.0	85.8	84.2
70°	77.8	78.4	77.5	76.7	75.9	75.6	74.7	73.1	71.2	68.9	67.6
72.5°	62.0	62.6	61.7	61.4	59.8	59.2	58.9	57.6	55.4	54.0	51.8
75°	47.6	47.9	47.4	46.8	45.7	45.4	44.1	42.9	41.6	39.3	37.4
77.5°	34.3	33.8	33.8	32.6	31.6	31.6	31.3	29.6	27.6	26.0	24.3
80°	21.8	21.6	20.8	20.2	19.4	19.1	18.8	17.5	16.1	15.0	13.8
82.5°	11.1	10.8	10.5	10.3	9.7	9.1	9.5	8.3	7.8	6.7	5.8
85°	3.3	3.6	3.6	3.3	3.0	3.0	3.0	2.8	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°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	734.7	735.0	735.3	735.6	735.6	735.9	736.1	736.4	736.7	736.7	736.9
5°	734.2	734.7	734.7	735.0	735.0	735.0	735.3	735.3	735.3	735.3	735.6
7.5°	734.4	734.4	734.4	734.2	734.2	733.9	733.9	733.9	733.4	733.4	733.4
10°	733.1	732.8	732.6	731.9	731.7	731.4	730.9	730.3	729.8	729.4	728.9
12.5°	730.3	729.2	728.1	726.9	726.4	726.1	725.1	724.2	723.4	722.6	722.0
15°	724.8	723.1	721.2	718.9	718.4	717.9	715.9	714.3	713.1	712.3	710.9
17.5°	713.7	710.4	708.1	704.8	703.5	702.9	699.8	698.2	696.3	695.7	694.6
20°	694.0	691.0	686.8	683.8	682.2	680.5	678.0	675.8	673.5	673.5	672.2
22.5°	669.4	665.5	660.2	656.4	656.1	652.8	650.6	648.1	647.2	645.6	645.6
25°	638.4	635.1	629.3	625.9	624.3	623.4	619.8	616.6	614.9	613.5	614.6
27.5°	604.1	599.1	594.7	590.5	589.1	587.5	584.2	582.8	579.7	579.5	579.2
30°	564.7	559.7	555.4	553.4	550.7	549.2	546.7	545.1	544.0	544.0	543.4
32.5°	523.5	519.1	516.9	512.8	511.3	509.4	507.8	506.1	506.6	506.1	506.3
35°	479.0	477.8	473.7	471.2	471.2	470.9	468.2	467.0	466.5	466.7	468.2
37.5°	436.6	433.3	430.5	428.8	430.2	428.6	428.3	428.3	429.9	428.8	431.1
40°	391.5	391.2	390.0	390.6	390.9	389.0	389.5	389.8	390.9	393.1	393.4
42.5°	352.1	351.9	351.9	351.9	351.3	350.2	351.3	353.2	353.0	354.6	356.0
45°	314.2	313.6	314.8	314.0	315.6	316.1	315.3	315.9	317.5	318.6	320.8
47.5°	279.7	279.7	279.9	280.5	278.8	280.2	280.7	281.8	282.7	283.2	284.3
50°	247.5	247.5	246.9	246.9	246.9	247.8	246.7	248.1	248.4	250.6	251.9
52.5°	217.9	216.5	217.3	216.8	215.6	215.1	215.6	216.0	217.6	218.1	219.8
55°	189.7	189.7	187.4	186.9	187.7	187.4	187.2	187.2	188.0	188.8	190.2
57.5°	164.7	163.1	161.4	161.1	160.3	160.6	160.6	160.3	159.7	160.0	160.3
60°	141.2	140.1	137.6	137.6	137.3	137.1	135.6	135.4	134.0	134.3	133.1
62.5°	119.6	119.0	115.7	114.6	114.6	113.8	112.4	112.1	110.2	110.2	109.1
65°	100.2	98.5	96.6	94.7	94.7	93.5	92.7	90.2	88.9	88.0	86.4
67.5°	82.5	80.0	78.0	76.4	75.3	75.0	73.1	71.4	69.2	67.9	65.4
70°	65.4	63.4	61.4	59.8	58.7	57.6	55.6	53.1	51.5	49.0	47.4
72.5°	49.3	47.6	45.9	43.8	42.4	41.6	39.6	37.4	34.6	32.9	30.8
75°	35.4	33.5	31.3	29.3	28.5	27.6	25.5	23.8	21.8	20.0	17.7
77.5°	23.0	20.8	19.1	16.9	16.6	16.1	13.8	12.2	10.8	9.7	8.3
80°	12.2	11.1	9.7	8.3	7.8	7.0	5.8	5.0	4.2	3.3	2.8
82.5°	5.3	4.5	3.6	3.0	2.8	2.5	2.0	1.7	1.4	1.4	1.1
85°	1.4	1.1	1.1	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°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	737.2	737.5	737.8	737.8	738.1	738.4	738.4	738.6	738.9	739.2	739.2
5°	735.9	735.9	735.9	736.1	736.1	736.1	736.1	736.7	736.7	736.9	737.2
7.5°	733.1	733.1	733.1	733.1	732.8	733.1	732.8	732.8	733.4	733.6	733.9
10°	728.6	728.4	728.4	728.1	728.1	728.1	728.4	728.6	728.9	729.2	730.1
12.5°	721.7	721.4	721.4	721.2	721.2	721.4	721.7	722.3	723.4	723.9	725.1
15°	710.6	710.4	710.6	710.9	711.5	712.3	713.1	714.0	715.6	717.0	718.4
17.5°	694.6	694.8	695.1	695.7	696.5	697.6	699.8	702.1	704.0	706.3	708.4
20°	672.5	673.5	673.8	675.8	676.3	678.8	681.3	684.6	687.7	690.5	693.5
22.5°	645.9	646.7	647.9	650.0	651.4	654.7	657.7	661.7	665.0	668.5	673.0
25°	615.7	616.0	619.3	619.3	622.6	625.4	628.9	633.1	638.1	642.9	645.9
27.5°	581.3	582.8	585.3	586.3	588.8	593.3	596.3	601.3	606.3	610.4	613.8
30°	545.4	546.5	550.7	551.2	553.1	557.0	561.2	565.9	569.7	574.5	577.5
32.5°	507.5	510.5	513.0	514.9	515.5	521.3	523.5	526.8	531.3	535.9	539.0
35°	470.7	472.0	475.7	476.7	478.4	481.7	486.2	488.9	491.1	494.2	497.8
37.5°	431.6	435.8	436.6	439.9	440.4	443.5	445.7	449.1	451.8	454.6	455.1
40°	395.3	396.7	399.8	400.6	401.1	405.3	408.1	408.9	410.3	412.8	416.1
42.5°	358.5	359.9	363.2	362.4	364.9	366.8	368.2	371.5	372.9	373.7	373.7
45°	322.3	322.8	325.0	326.1	327.5	328.6	331.1	332.8	333.3	335.8	336.6
47.5°	287.7	288.2	289.8	291.8	291.2	292.6	295.4	296.2	296.5	298.2	299.0
50°	253.6	254.9	257.2	256.6	258.3	259.1	261.6	262.2	262.2	262.4	262.7
52.5°	221.8	222.8	223.4	224.0	224.8	226.1	227.3	226.8	227.8	228.9	228.1
55°	190.2	191.0	192.4	193.0	193.0	193.2	192.7	195.2	194.0	193.8	194.0
57.5°	161.4	160.3	160.0	161.4	161.9	161.7	160.9	161.9	161.9	161.4	160.6
60°	133.4	132.6	132.3	132.6	131.5	130.6	131.3	130.6	129.3	128.8	129.0
62.5°	108.0	107.1	105.0	105.0	104.3	104.1	101.8	102.2	101.0	99.4	100.0
65°	84.4	82.2	81.1	80.9	78.9	77.2	76.7	74.7	73.1	72.8	73.1
67.5°	63.4	60.9	58.9	58.1	57.1	55.6	53.7	52.1	52.6	52.3	53.4
70°	44.1	42.4	40.4	39.1	39.6	37.9	36.8	36.8	37.1	37.4	37.9
72.5°	29.3	27.1	26.3	25.5	24.9	23.8	24.3	24.3	24.1	24.3	23.8
75°	16.6	15.5	14.7	14.4	13.8	13.8	13.8	13.8	13.6	13.3	13.3
77.5°	7.5	7.0	6.7	6.3	6.3	6.3	6.1	5.8	5.8	5.8	5.5
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°	1.1	1.1	1.4	1.4	1.4	1.1	1.4	1.4	1.1	1.1	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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CATALOG NUMBER: LX4C20D010 EX4C209830 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	739.4	739.7	739.7	739.7	740.0	740.0	740.0	740.0
5°	737.5	737.8	737.8	737.8	738.1	738.1	738.1	738.1
7.5°	734.2	734.4	734.4	734.7	734.7	735.0	735.0	735.3
10°	730.3	730.9	731.1	731.4	731.7	731.9	731.9	732.2
12.5°	726.1	726.7	726.9	727.6	728.1	728.4	728.6	728.9
15°	720.1	721.2	721.7	722.0	723.1	723.6	723.9	724.2
17.5°	710.4	712.6	713.4	714.0	715.1	716.2	717.0	717.3
20°	696.5	699.0	700.1	701.5	703.1	704.6	705.1	705.6
22.5°	677.2	680.0	681.6	683.3	684.6	686.0	688.2	687.4
25°	649.5	654.2	656.1	656.9	660.0	661.7	662.7	661.7
27.5°	618.4	621.3	622.9	624.8	627.1	628.7	629.3	630.9
30°	581.1	585.8	585.5	587.5	590.2	591.8	592.5	593.8
32.5°	542.4	544.6	546.2	545.9	547.1	550.1	549.0	551.5
35°	501.1	501.3	504.1	503.8	506.1	506.1	506.1	507.8
37.5°	457.1	460.4	459.0	462.4	461.2	462.0	462.0	462.6
40°	416.9	418.0	418.0	419.1	420.0	419.1	419.7	421.1
42.5°	375.4	376.5	376.8	376.2	377.0	379.5	377.7	379.3
45°	336.6	337.4	338.6	337.8	339.1	338.3	339.1	338.6
47.5°	300.1	299.8	299.5	301.8	299.8	300.1	301.2	299.3
50°	262.7	264.4	263.2	264.1	264.7	264.7	263.9	263.9
52.5°	229.5	229.3	228.4	229.3	228.6	228.9	229.5	228.9
55°	195.2	196.3	195.7	195.5	195.7	195.7	197.4	195.2
57.5°	161.4	160.9	161.7	163.6	161.7	163.1	163.9	164.2
60°	129.3	129.3	130.9	130.1	131.8	133.1	134.3	133.7
62.5°	98.5	100.0	100.5	100.8	102.5	103.5	103.5	103.3
65°	73.1	75.0	75.0	76.2	76.7	76.7	77.2	78.4
67.5°	54.0	54.0	54.2	54.8	54.6	54.6	55.1	55.4
70°	37.6	37.1	37.9	37.6	37.6	37.4	37.6	37.6
72.5°	23.8	23.8	24.1	23.8	23.3	23.5	23.5	24.1
75°	12.8	13.3	12.8	12.8	13.0	12.5	12.8	13.0
77.5°	5.3	5.3	5.3	5.3	5.3	5.0	5.0	5.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.2
82.5°	1.1	1.4	1.1	1.4	1.1	1.1	1.1	1.1
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)