

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: P857240

Luminaire Tested: **LX4C20D010 EX4C209830 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857240  
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 EX4C209830 4LBLWWH  
Description:  
Light Source: -  
Ballast/Driver: -

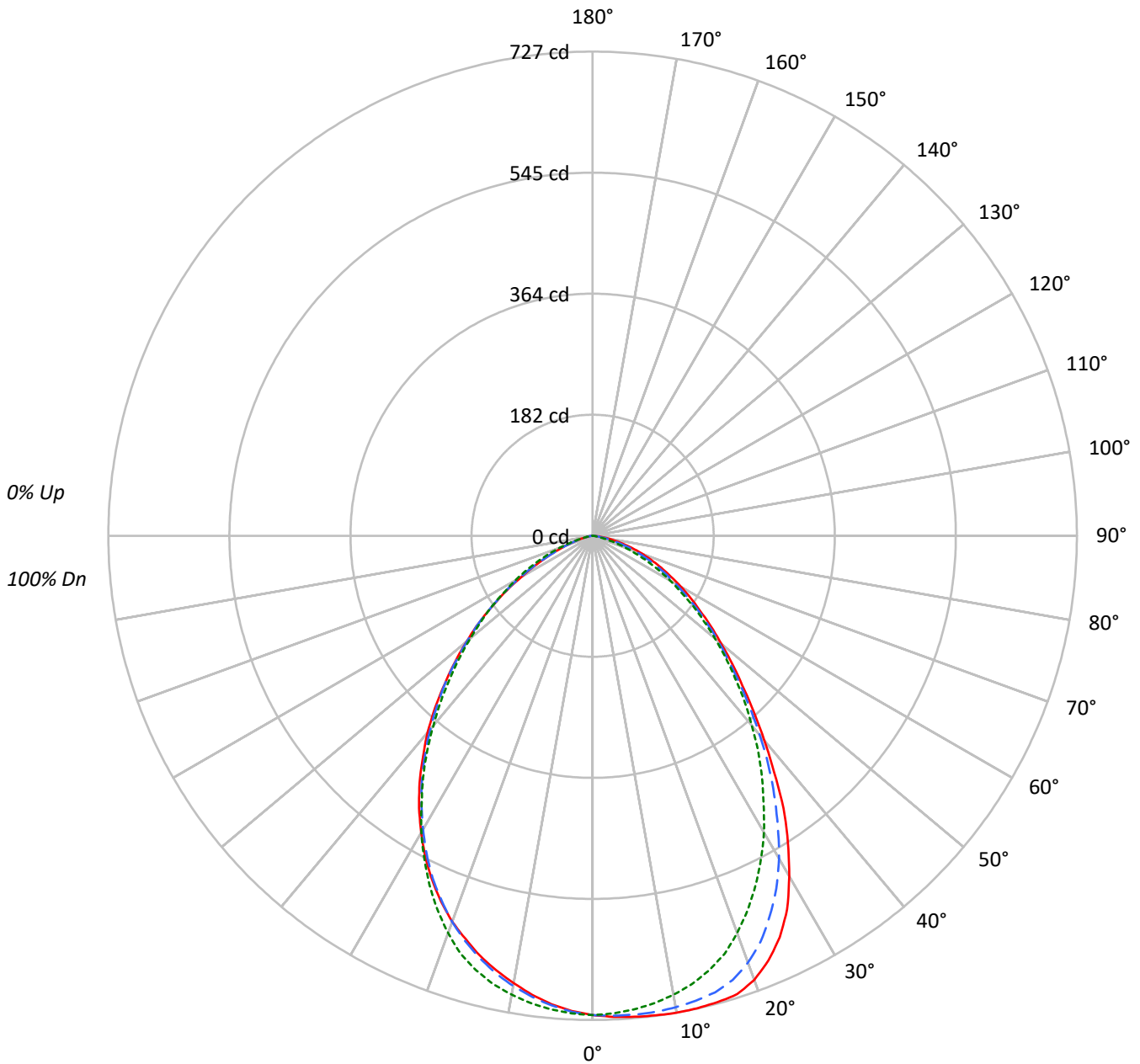
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1356.4 lumens  
Efficiency: N/A  
Efficacy: 62.2 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<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	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	48	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°	88418	88418	88418
5°	89409	88040	87091
10°	90717	87287	85091
15°	92211	85902	83053
20°	92785	82979	80600
25°	90130	78499	77306
30°	83754	72972	73001
35°	74973	66515	67909
40°	64198	59627	61792
45°	55267	52574	54537
50°	48049	45756	47151
55°	42259	39368	39025
60°	37618	32851	30247
65°	32994	26308	21889
70°	28341	18571	14835
75°	22974	10775	8686
80°	16484	4669	4316
85°	6343	1973	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	5.0
10°-20°	192.0	14.2
20°-30°	274.2	20.2
30°-40°	286.8	21.1
40°-50°	240.3	17.7
50°-60°	168.2	12.4
60°-70°	91.6	6.8
70°-80°	31.8	2.3
80°-90°	3.7	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°	534.0	39.4
0°-40°	820.8	60.5
0°-60°	1229.3	90.6
0°-90°	1356.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	720	720	720	720	720	
5°	725	722	714	708	706	69
15°	725	710	675	656	653	205
25°	665	630	579	568	570	304
35°	500	475	444	447	453	310
45°	318	311	303	313	314	247
55°	197	191	184	184	182	178
65°	114	104	90	76	75	113
75°	48	39	23	18	18	52
85°	4	2	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°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	723.0	722.2	722.5	722.5	722.5	722.2	722.5	722.2	722.2	722.0	721.3
5°	725.0	724.5	724.5	724.5	724.1	723.8	723.8	723.6	723.0	722.8	721.7
7.5°	726.3	725.8	725.8	725.5	725.3	725.0	724.7	723.8	723.0	722.5	721.1
10°	727.2	726.3	726.3	725.8	725.3	725.0	724.5	723.3	722.2	720.8	718.8
12.5°	726.6	725.8	725.5	725.0	723.8	723.3	722.8	721.3	719.5	717.5	715.0
15°	725.0	724.5	723.8	723.0	721.7	720.8	720.3	718.0	715.5	712.8	709.7
17.5°	721.7	720.8	719.7	718.6	716.7	715.8	714.5	711.7	708.0	704.2	699.5
20°	709.7	709.2	708.0	706.2	703.1	702.0	700.0	696.5	691.7	687.1	682.1
22.5°	690.1	689.2	687.6	685.9	683.2	681.2	679.6	674.6	669.3	664.3	659.6
25°	664.9	664.1	661.9	659.6	656.9	653.6	651.9	648.0	642.8	636.3	629.5
27.5°	632.5	629.7	628.9	626.4	622.3	621.2	618.7	613.7	608.7	603.2	597.4
30°	590.4	590.4	588.8	587.7	583.8	582.7	579.9	574.6	571.9	564.1	559.7
32.5°	545.8	545.3	544.0	543.1	540.9	539.0	536.2	533.4	527.3	523.5	517.4
35°	499.9	496.6	497.1	495.5	494.1	491.9	491.6	488.6	483.1	480.8	475.3
37.5°	447.6	446.2	448.2	445.7	444.3	444.5	442.3	440.4	438.2	434.3	433.2
40°	400.3	401.4	401.1	398.9	400.0	398.6	396.4	394.4	393.3	390.9	390.0
42.5°	357.9	356.3	355.7	355.7	356.0	356.0	354.9	353.5	353.5	351.0	348.5
45°	318.1	318.1	317.5	319.2	316.7	316.7	315.9	315.6	314.4	313.9	310.9
47.5°	283.8	283.5	283.2	282.9	282.6	282.6	281.0	279.6	279.3	277.6	276.0
50°	251.4	253.0	252.5	251.0	250.5	250.8	249.7	248.9	248.6	245.8	246.1
52.5°	224.2	223.9	224.5	223.6	222.3	222.6	221.4	220.3	219.2	217.9	216.8
55°	197.3	198.8	198.2	197.3	197.1	196.5	195.7	194.3	194.0	191.0	190.7
57.5°	175.0	174.7	174.2	172.7	172.5	171.7	171.7	170.5	168.9	167.2	165.8
60°	153.1	153.1	152.2	152.0	150.9	150.6	150.3	149.2	147.2	145.9	143.7
62.5°	132.1	132.6	132.1	131.2	130.4	129.3	128.7	127.9	126.2	124.8	122.9
65°	113.5	113.3	112.9	111.8	111.6	110.5	110.1	108.5	106.8	105.8	103.5
67.5°	95.8	95.0	95.0	94.4	93.8	93.0	92.5	90.8	88.8	87.7	85.5
70°	78.9	78.3	78.3	78.3	77.0	76.2	75.9	75.0	72.2	71.2	68.9
72.5°	63.4	63.1	62.9	62.0	61.2	61.2	60.1	58.4	57.0	55.6	54.0
75°	48.4	49.0	48.4	47.4	47.1	46.5	45.7	44.3	42.9	41.3	39.3
77.5°	35.4	34.9	34.3	34.3	33.8	32.6	32.4	31.3	29.6	28.5	26.6
80°	23.3	23.0	22.4	21.8	21.6	21.3	21.0	19.9	18.3	17.5	15.8
82.5°	12.8	12.5	12.5	12.2	11.3	11.3	11.1	10.0	9.1	8.6	7.8
85°	4.5	4.5	4.5	4.2	4.2	4.2	3.8	3.6	3.3	3.0	2.5
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°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	720.8	720.3	720.0	719.7	719.5	719.2	718.8	718.3	718.0	717.8	717.2
5°	720.8	719.7	719.2	718.3	717.8	717.2	716.4	715.5	714.7	713.9	713.0
7.5°	719.7	718.0	717.0	715.3	714.7	713.9	712.2	711.2	709.7	708.0	706.2
10°	717.0	715.0	712.8	710.5	709.7	708.4	706.2	704.2	702.0	699.7	697.9
12.5°	712.5	709.5	706.7	703.7	702.0	700.6	697.5	694.8	692.0	689.5	686.2
15°	705.9	702.2	698.7	694.5	692.6	690.9	686.5	683.2	678.7	675.4	672.1
17.5°	695.1	689.5	685.1	679.9	677.1	675.1	671.3	666.0	661.9	658.3	654.4
20°	676.6	671.3	665.2	659.4	656.3	653.8	648.3	642.8	638.6	634.7	630.6
22.5°	652.1	645.5	641.1	633.9	631.4	628.3	621.7	616.7	612.0	608.2	604.2
25°	622.5	616.7	610.7	604.0	600.9	597.4	591.8	586.6	583.6	579.1	574.4
27.5°	588.5	583.8	576.3	570.5	567.5	564.7	559.4	554.8	550.3	547.3	542.8
30°	552.5	547.0	540.3	534.2	532.5	529.2	524.5	521.0	516.2	514.4	512.4
32.5°	512.9	506.6	501.6	497.7	494.4	491.6	489.1	483.3	482.5	477.5	476.9
35°	469.8	467.0	462.3	459.0	456.2	454.3	450.1	447.3	444.3	443.5	441.5
37.5°	429.0	425.7	421.3	418.2	416.4	416.1	413.0	411.4	409.1	408.1	405.8
40°	386.4	385.1	381.1	380.6	377.6	377.3	375.6	373.7	371.8	371.8	372.0
42.5°	347.2	345.5	343.8	341.9	340.2	340.2	339.4	338.8	338.2	337.4	338.8
45°	310.3	308.1	307.0	305.1	305.9	304.2	303.6	303.6	302.8	302.6	304.5
47.5°	276.0	273.5	272.3	271.8	271.8	272.1	269.6	270.5	270.2	270.7	271.5
50°	244.7	242.5	240.9	240.9	241.1	240.0	238.9	239.7	238.9	239.4	241.4
52.5°	215.6	213.4	212.6	212.6	210.9	210.6	211.2	210.1	210.4	210.6	211.8
55°	188.8	187.4	186.0	184.6	184.9	184.3	183.3	183.0	183.5	183.8	185.2
57.5°	164.7	162.7	160.9	160.2	159.7	159.7	158.4	158.0	158.6	157.2	157.2
60°	141.7	140.6	138.1	137.3	137.3	135.9	134.8	135.4	133.9	133.7	133.9
62.5°	120.4	119.6	117.9	116.3	115.7	115.1	113.8	113.3	112.6	111.6	109.9
65°	101.8	100.0	98.0	96.8	96.0	94.7	93.8	92.7	91.0	90.5	88.8
67.5°	83.3	81.4	79.5	78.7	77.8	77.0	75.5	74.2	72.2	70.0	68.1
70°	67.0	64.5	63.4	61.2	60.6	59.5	57.6	56.2	54.2	51.7	49.8
72.5°	51.2	49.6	47.9	45.9	44.6	43.7	42.1	39.9	37.6	36.3	34.3
75°	36.8	36.0	33.8	31.6	31.0	29.9	28.0	26.6	24.9	22.7	21.0
77.5°	24.9	23.3	21.8	19.9	19.4	18.3	17.1	15.8	14.7	13.3	12.2
80°	14.7	13.3	12.5	11.1	10.5	10.0	9.1	8.0	7.2	6.6	6.3
82.5°	7.2	6.1	5.8	5.0	4.7	4.5	3.8	3.6	3.0	3.0	3.0
85°	2.5	2.0	2.0	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°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	717.0	716.7	716.4	716.1	716.1	715.8	715.8	715.5	715.5	715.3	715.3
5°	712.0	711.2	710.5	710.0	710.0	709.2	708.7	708.0	707.8	707.8	707.2
7.5°	705.0	703.9	702.8	702.0	701.7	700.4	699.2	699.2	698.1	697.5	697.0
10°	695.9	694.0	692.3	691.5	690.4	689.5	688.2	687.4	686.5	685.1	684.9
12.5°	683.4	682.1	679.6	678.4	677.9	676.2	674.1	672.9	672.6	671.6	670.7
15°	669.3	666.3	664.1	662.7	662.7	659.9	658.8	657.1	656.1	655.3	654.9
17.5°	651.1	648.0	645.8	643.8	643.3	641.1	639.5	638.8	637.5	638.0	636.7
20°	627.5	625.0	623.4	620.9	620.9	619.5	619.0	617.5	617.0	616.5	617.0
22.5°	602.4	599.3	596.5	596.2	596.2	594.3	594.1	593.7	592.7	593.5	593.2
25°	572.7	570.5	568.8	568.6	568.6	567.5	566.3	566.9	567.8	567.5	568.3
27.5°	542.0	539.8	539.2	539.0	538.4	538.1	538.7	538.7	539.5	540.6	541.7
30°	508.7	508.2	507.4	507.1	506.6	507.9	508.5	509.4	509.1	510.7	511.9
32.5°	475.6	474.5	474.1	474.8	475.6	475.3	476.9	477.5	478.1	480.0	480.8
35°	442.0	441.8	441.2	441.2	441.5	443.7	443.7	445.7	446.8	447.3	449.5
37.5°	406.1	407.2	407.7	408.6	408.9	409.7	410.2	412.2	413.2	414.4	415.5
40°	373.1	372.6	375.1	373.5	374.0	376.5	377.6	377.3	379.0	380.6	381.8
42.5°	338.0	338.8	339.4	339.9	341.3	341.6	343.0	344.9	345.5	347.4	348.0
45°	303.9	304.2	305.3	306.4	307.3	309.4	310.1	310.9	312.6	312.6	313.4
47.5°	271.8	273.0	273.0	274.6	276.0	275.7	277.6	278.2	278.0	279.3	279.8
50°	241.1	242.7	242.5	243.6	244.2	244.4	246.1	246.7	245.5	246.9	247.2
52.5°	211.8	212.6	213.7	214.0	213.4	214.8	214.3	215.4	215.1	216.2	215.1
55°	184.9	184.6	184.6	185.2	184.6	185.2	185.7	184.6	183.8	184.9	184.6
57.5°	158.0	158.0	157.5	158.4	157.5	156.7	156.4	155.6	154.7	154.7	154.4
60°	132.9	132.3	131.2	130.9	130.9	129.6	129.0	127.9	127.9	126.8	125.6
62.5°	109.3	108.0	107.1	107.1	106.6	105.2	102.7	101.0	100.5	98.8	98.5
65°	87.2	85.8	85.0	83.3	82.0	81.4	78.9	77.0	76.2	74.5	74.7
67.5°	67.0	64.7	62.2	61.2	60.4	58.4	57.6	56.2	55.4	55.4	55.4
70°	48.2	46.2	43.7	42.9	42.4	40.7	39.9	39.6	40.4	40.1	40.4
72.5°	32.4	30.4	29.3	28.8	28.3	27.4	28.0	28.3	27.6	28.0	28.3
75°	19.6	19.1	18.3	18.0	18.0	18.3	18.0	18.0	18.3	18.3	18.5
77.5°	11.3	10.8	10.8	10.5	11.1	10.8	10.8	10.8	11.1	11.1	11.1
80°	6.1	6.1	6.1	6.1	6.3	6.1	6.3	6.3	6.3	6.3	6.3
82.5°	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.0
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 EX4C209830 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7
2.5°	714.7	714.7	714.7	714.2	714.5	714.5	714.2	714.2
5°	707.0	706.7	706.2	706.2	705.5	706.2	705.9	706.2
7.5°	696.5	696.5	695.6	695.6	695.4	695.1	694.8	695.1
10°	684.0	684.0	683.4	683.2	683.4	682.4	682.4	682.1
12.5°	670.1	669.6	669.1	669.3	669.1	668.2	667.9	668.2
15°	654.1	653.3	653.6	652.8	652.8	652.4	653.0	653.0
17.5°	636.3	635.8	635.3	635.5	635.0	635.3	635.0	634.7
20°	616.7	616.5	616.5	615.4	615.7	615.4	615.7	616.5
22.5°	594.1	593.7	594.1	593.2	593.7	593.7	594.6	594.6
25°	569.1	568.8	569.4	569.6	569.9	570.8	569.9	570.3
27.5°	541.5	542.3	543.1	543.3	544.5	543.7	543.1	544.0
30°	513.5	513.5	513.2	514.4	515.2	516.0	514.6	514.6
32.5°	481.4	482.8	482.8	483.1	483.9	483.9	483.9	484.9
35°	450.7	451.5	451.8	450.7	451.2	451.0	452.8	452.8
37.5°	416.4	416.4	416.6	418.5	418.5	417.7	418.2	418.2
40°	383.6	383.9	382.8	383.4	384.8	384.3	384.8	385.3
42.5°	348.0	349.9	348.8	349.3	349.0	349.3	349.7	349.7
45°	313.9	314.4	314.4	314.7	315.3	315.9	314.2	313.9
47.5°	280.7	281.0	281.8	280.5	282.1	280.5	282.1	280.1
50°	247.2	248.3	247.5	248.0	247.2	247.2	246.9	246.7
52.5°	215.4	215.1	215.1	214.8	214.8	215.4	214.8	215.6
55°	183.5	183.8	183.3	183.0	182.7	183.5	182.7	182.2
57.5°	153.4	153.9	152.8	153.4	151.4	152.2	152.5	152.8
60°	125.4	124.6	124.6	123.4	123.4	124.3	123.1	123.1
62.5°	97.2	97.7	96.8	98.0	98.0	99.1	98.5	99.1
65°	74.5	74.7	75.0	75.0	75.0	76.7	76.2	75.3
67.5°	56.2	56.4	56.7	56.4	57.3	56.7	56.7	57.0
70°	40.7	40.9	41.3	41.3	40.9	41.3	41.3	41.3
72.5°	28.3	28.5	28.3	28.5	28.8	28.5	28.5	28.8
75°	18.5	18.5	18.3	18.3	18.3	18.3	18.5	18.3
77.5°	10.8	11.1	10.8	11.1	11.1	11.1	11.1	11.1
80°	6.3	6.3	6.3	6.1	6.3	6.3	6.3	6.1
82.5°	3.3	3.3	3.0	3.0	3.3	3.3	3.3	3.3
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)