

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: P857252

Luminaire Tested: **LX4C20D010 EX4C209835 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857252  
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 EX4C209835 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

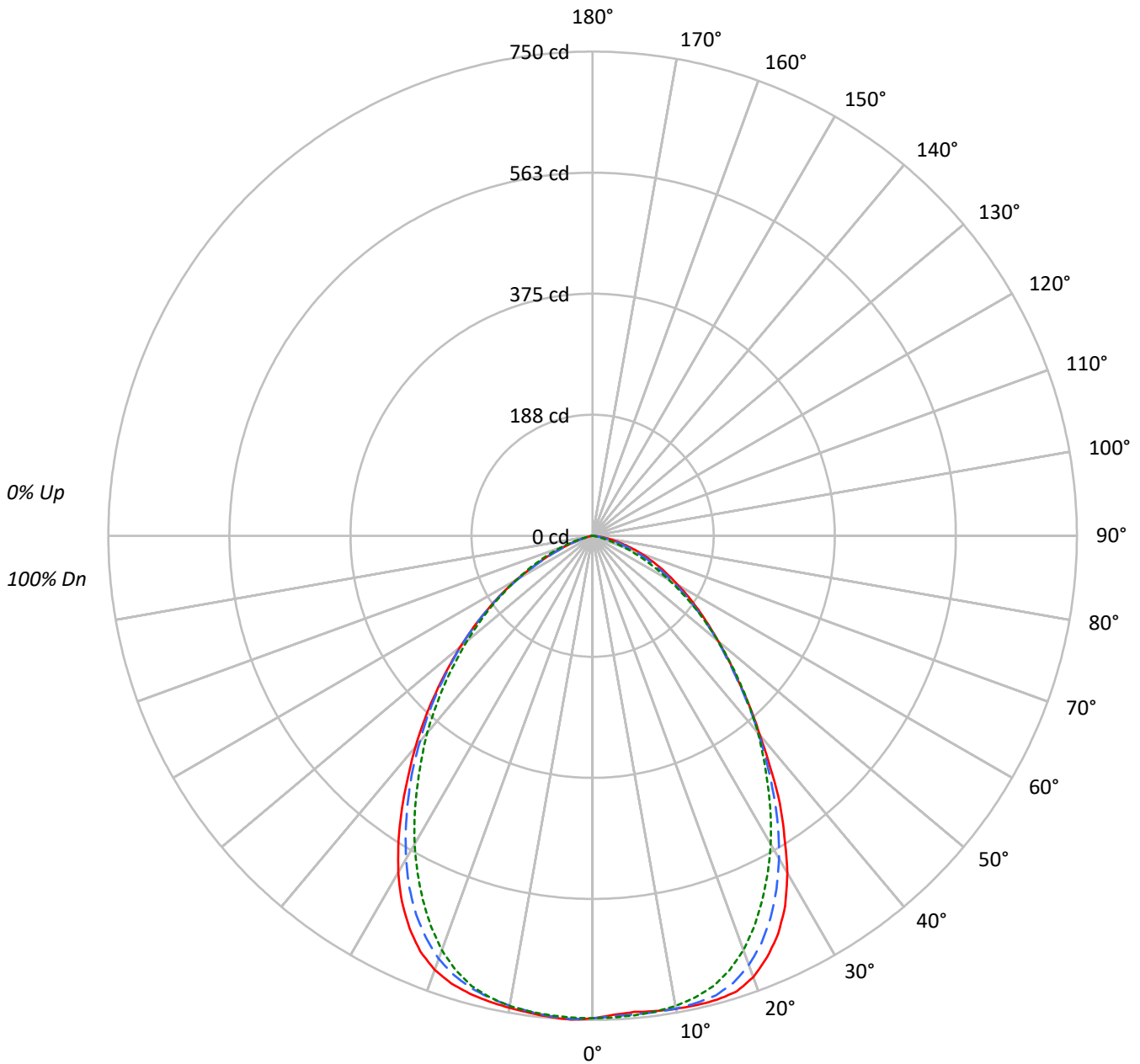
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1433.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 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°	91833	91833	91833
5°	91308	91937	92282
10°	92825	92264	92613
15°	94640	91855	93394
20°	95125	89281	93530
25°	92190	84314	90943
30°	85569	78235	85413
35°	75783	70969	77208
40°	64599	63925	68480
45°	55493	56136	59645
50°	48431	48565	51126
55°	42795	41017	42388
60°	37519	33465	33293
65°	33197	25959	23110
70°	28305	17852	13721
75°	22879	9588	6266
80°	15706	2405	1556
85°	4793	705	705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	5.0
10°-20°	205.6	14.4
20°-30°	297.1	20.7
30°-40°	307.2	21.4
40°-50°	253.8	17.7
50°-60°	175.2	12.2
60°-70°	91.7	6.4
70°-80°	28.9	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°	573.8	40.0
0°-40°	881.0	61.5
0°-60°	1310.0	91.4
0°-90°	1433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	748	748	748	748	748	
5°	740	744	746	747	748	71
15°	744	737	722	726	734	210
25°	680	653	622	647	671	311
35°	505	488	473	498	515	314
45°	319	318	323	338	343	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	742.7	743.0	743.0	743.5	743.5	743.5	743.8	743.8	744.1	744.3	744.7
5°	740.4	740.4	741.0	741.3	741.8	742.1	742.7	743.0	743.5	743.8	744.1
7.5°	742.7	742.7	743.0	743.3	743.3	743.5	743.5	743.8	744.1	744.3	744.3
10°	744.1	744.1	744.1	744.1	744.3	744.3	744.3	744.1	744.1	744.1	743.8
12.5°	744.7	744.7	744.3	744.1	744.3	744.1	744.1	743.3	742.7	742.1	741.3
15°	744.1	744.1	743.8	743.5	743.3	742.7	742.4	741.0	739.9	738.2	737.1
17.5°	740.4	739.9	739.3	738.8	737.6	736.8	736.2	733.7	731.8	728.9	725.9
20°	727.6	726.9	726.1	724.7	723.3	722.2	720.5	716.9	714.9	710.7	707.6
22.5°	706.5	705.9	706.2	703.7	700.9	699.2	698.1	694.9	691.6	686.3	682.9
25°	680.1	678.4	678.4	674.5	673.1	671.9	670.6	666.9	661.9	657.1	652.6
27.5°	645.9	643.6	642.5	642.0	638.6	636.0	634.0	631.3	627.1	622.9	616.6
30°	603.2	602.9	601.5	599.0	596.5	595.3	593.1	588.3	584.4	581.3	577.4
32.5°	553.0	552.7	552.7	552.7	551.0	550.7	547.4	544.9	541.7	536.9	534.4
35°	505.3	505.0	505.3	501.0	499.9	499.0	498.8	497.1	492.9	490.6	488.4
37.5°	451.3	452.2	451.7	450.5	451.9	449.3	451.3	447.7	446.0	445.4	442.9
40°	402.8	405.0	402.8	403.1	404.5	401.9	401.9	401.4	400.2	399.7	399.1
42.5°	361.2	358.4	360.1	358.7	360.1	359.3	357.9	358.7	359.0	357.9	357.6
45°	319.4	320.0	320.6	319.7	319.7	318.9	321.1	319.7	319.7	320.0	318.0
47.5°	285.4	284.6	285.2	284.6	284.9	284.4	284.9	285.2	284.6	284.6	282.9
50°	253.4	252.9	254.9	253.2	253.2	252.9	253.2	252.6	251.7	251.7	252.4
52.5°	225.7	224.5	224.3	225.7	223.7	223.7	224.0	223.4	222.3	221.8	220.3
55°	199.8	199.6	199.8	198.8	198.1	198.1	196.7	196.2	195.9	194.5	193.7
57.5°	175.7	174.9	175.1	174.9	173.7	173.4	172.4	172.4	171.2	170.1	168.7
60°	152.7	152.7	153.6	152.4	151.6	151.0	150.4	149.9	147.9	146.0	144.3
62.5°	132.2	132.5	132.2	131.4	130.8	130.2	129.7	128.0	126.3	125.2	123.2
65°	114.2	114.0	113.1	112.5	111.1	111.1	110.0	109.1	107.2	105.6	103.5
67.5°	95.7	95.1	95.1	95.1	93.5	93.2	92.7	91.0	89.3	87.0	85.3
70°	78.8	79.5	78.6	77.8	76.9	76.6	75.8	74.1	72.1	69.9	68.5
72.5°	62.9	63.4	62.6	62.3	60.6	60.1	59.7	58.4	56.2	54.8	52.5
75°	48.2	48.6	48.0	47.4	46.3	46.0	44.6	43.5	42.1	39.9	37.9
77.5°	34.8	34.2	34.2	33.1	32.0	32.0	31.7	30.1	28.1	26.4	24.7
80°	22.2	21.9	21.0	20.5	19.6	19.4	19.1	17.7	16.3	15.2	14.0
82.5°	11.2	11.0	10.7	10.3	9.8	9.3	9.5	8.4	7.8	6.8	5.9
85°	3.4	3.7	3.7	3.4	3.1	3.1	3.1	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	745.0	745.2	745.5	745.8	745.8	746.0	746.3	746.7	746.9	746.9	747.2
5°	744.3	745.0	745.0	745.2	745.2	745.2	745.5	745.5	745.5	745.5	745.8
7.5°	744.7	744.7	744.7	744.3	744.3	744.1	744.1	744.1	743.5	743.5	743.5
10°	743.3	743.0	742.7	742.1	741.8	741.6	741.0	740.4	739.9	739.6	739.1
12.5°	740.4	739.3	738.2	737.1	736.5	736.2	735.2	734.3	733.5	732.6	732.0
15°	734.8	733.2	731.2	728.9	728.4	727.8	725.9	724.2	723.0	722.2	720.8
17.5°	723.6	720.3	718.0	714.6	713.2	712.7	709.6	707.9	705.9	705.4	704.2
20°	703.7	700.6	696.4	693.3	691.6	689.9	687.4	685.1	682.9	682.9	681.5
22.5°	678.7	674.8	669.4	665.5	665.2	661.9	659.6	657.1	656.2	654.5	654.5
25°	647.2	643.9	638.0	634.7	633.0	632.1	628.4	625.1	623.4	622.0	623.1
27.5°	612.4	607.4	602.9	598.7	597.3	595.6	592.2	590.9	587.7	587.5	587.2
30°	572.6	567.5	563.0	561.1	558.3	556.9	554.4	552.7	551.5	551.5	551.0
32.5°	530.8	526.3	524.1	519.8	518.5	516.5	514.8	513.1	513.6	513.1	513.4
35°	485.6	484.5	480.3	477.7	477.7	477.4	474.7	473.5	473.0	473.2	474.7
37.5°	442.7	439.3	436.5	434.8	436.2	434.5	434.2	434.2	435.9	434.8	437.0
40°	396.9	396.6	395.5	396.0	396.3	394.3	395.0	395.2	396.3	398.6	398.9
42.5°	357.1	356.8	356.8	356.8	356.2	355.1	356.2	358.1	357.9	359.6	361.0
45°	318.6	318.0	319.2	318.3	320.0	320.6	319.7	320.2	321.9	323.1	325.3
47.5°	283.5	283.5	283.8	284.4	282.7	284.0	284.6	285.7	286.6	287.1	288.3
50°	250.9	250.9	250.4	250.4	250.4	251.2	250.1	251.5	251.7	254.1	255.4
52.5°	220.9	219.5	220.3	219.8	218.7	218.1	218.7	218.9	220.6	221.2	222.8
55°	192.3	192.3	190.0	189.5	190.3	190.0	189.8	189.8	190.6	191.5	192.8
57.5°	167.0	165.3	163.6	163.4	162.5	162.8	162.8	162.5	161.9	162.2	162.5
60°	143.1	142.1	139.5	139.5	139.2	138.9	137.5	137.2	135.8	136.2	135.0
62.5°	121.3	120.7	117.4	116.2	116.2	115.4	114.0	113.7	111.7	111.7	110.6
65°	101.6	100.0	98.0	96.0	96.0	94.9	94.0	91.5	90.1	89.3	87.6
67.5°	83.6	81.1	79.2	77.5	76.3	76.1	74.1	72.4	70.2	68.8	66.3
70°	66.3	64.3	62.3	60.6	59.5	58.4	56.4	53.9	52.2	49.7	48.0
72.5°	49.9	48.2	46.6	44.3	43.0	42.1	40.1	37.9	35.0	33.4	31.1
75°	35.9	34.0	31.7	29.8	28.9	28.1	25.9	24.2	22.2	20.2	17.9
77.5°	23.3	21.0	19.4	17.1	16.9	16.3	14.0	12.3	11.0	9.8	8.4
80°	12.3	11.2	9.8	8.4	7.8	7.0	5.9	5.1	4.2	3.4	2.8
82.5°	5.4	4.5	3.7	3.1	2.8	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	747.5	747.7	748.0	748.0	748.3	748.6	748.6	748.9	749.2	749.4	749.4
5°	746.0	746.0	746.0	746.3	746.3	746.3	746.3	746.9	746.9	747.2	747.5
7.5°	743.3	743.3	743.3	743.3	743.0	743.3	743.0	743.0	743.5	743.8	744.1
10°	738.8	738.5	738.5	738.2	738.2	738.2	738.5	738.8	739.1	739.3	740.1
12.5°	731.8	731.5	731.5	731.2	731.2	731.5	731.8	732.3	733.5	734.0	735.2
15°	720.5	720.3	720.5	720.8	721.3	722.2	723.0	723.9	725.6	726.9	728.4
17.5°	704.2	704.6	704.8	705.4	706.2	707.3	709.6	711.8	713.8	716.1	718.3
20°	681.8	682.9	683.2	685.1	685.7	688.2	690.7	694.1	697.3	700.0	703.1
22.5°	654.8	655.7	656.8	659.1	660.4	663.8	666.9	670.9	674.2	677.8	682.4
25°	624.2	624.5	627.9	627.9	631.3	634.0	637.7	642.0	647.0	651.8	654.8
27.5°	589.4	590.9	593.4	594.5	597.0	601.5	604.6	609.7	614.7	618.9	622.3
30°	553.0	554.0	558.3	558.9	560.8	564.7	568.9	573.7	577.7	582.4	585.5
32.5°	514.5	517.6	520.2	522.1	522.6	528.5	530.8	534.2	538.6	543.4	546.5
35°	477.2	478.6	482.3	483.3	485.0	488.4	492.9	495.7	497.9	501.0	504.6
37.5°	437.6	441.8	442.7	446.0	446.6	449.6	451.9	455.2	458.1	460.9	461.5
40°	400.8	402.3	405.3	406.2	406.7	410.9	413.8	414.6	416.0	418.5	421.9
42.5°	363.5	364.9	368.3	367.4	370.0	371.9	373.3	376.7	378.1	378.9	378.9
45°	326.7	327.3	329.5	330.7	332.1	333.2	335.7	337.3	338.0	340.5	341.3
47.5°	291.6	292.2	293.9	295.9	295.3	296.7	299.5	300.3	300.6	302.3	303.1
50°	257.1	258.5	260.7	260.2	261.9	262.7	265.2	265.8	265.8	266.1	266.4
52.5°	224.8	226.0	226.5	227.0	227.9	229.4	230.4	229.9	231.0	232.1	231.3
55°	192.8	193.7	195.1	195.6	195.6	195.9	195.4	197.9	196.7	196.5	196.7
57.5°	163.6	162.5	162.2	163.6	164.2	163.9	163.1	164.2	164.2	163.6	162.8
60°	135.3	134.5	134.2	134.5	133.3	132.5	133.0	132.5	131.1	130.6	130.8
62.5°	109.5	108.6	106.4	106.4	105.8	105.6	103.3	103.5	102.5	100.8	101.3
65°	85.6	83.4	82.2	82.0	80.0	78.3	77.8	75.8	74.1	73.8	74.1
67.5°	64.3	61.7	59.7	58.9	57.8	56.4	54.5	52.8	53.3	53.1	54.1
70°	44.6	43.0	41.0	39.6	40.1	38.4	37.4	37.4	37.6	37.9	38.4
72.5°	29.8	27.5	26.7	25.9	25.2	24.2	24.7	24.7	24.4	24.7	24.2
75°	16.9	15.7	14.9	14.6	14.0	14.0	14.0	14.0	13.7	13.5	13.5
77.5°	7.6	7.0	6.8	6.4	6.4	6.4	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





TEST NUMBER: P857252

CATALOG NUMBER: LX4C20D010 EX4C209835 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	749.7	750.0	750.0	750.0	750.3	750.3	750.3	750.3
5°	747.7	748.0	748.0	748.0	748.3	748.3	748.3	748.3
7.5°	744.3	744.7	744.7	745.0	745.0	745.2	745.2	745.5
10°	740.4	741.0	741.3	741.6	741.8	742.1	742.1	742.4
12.5°	736.2	736.8	737.1	737.6	738.2	738.5	738.8	739.1
15°	730.1	731.2	731.8	732.0	733.2	733.7	734.0	734.3
17.5°	720.3	722.5	723.3	723.9	725.0	726.1	726.9	727.2
20°	706.2	708.8	709.8	711.3	712.9	714.4	714.9	715.4
22.5°	686.6	689.4	691.0	692.7	694.1	695.6	697.8	697.0
25°	658.5	663.3	665.2	666.0	669.2	670.9	671.9	670.9
27.5°	627.1	629.8	631.5	633.5	635.7	637.4	638.0	639.6
30°	589.2	593.9	593.6	595.6	598.4	600.1	600.7	602.1
32.5°	549.8	552.1	553.8	553.5	554.7	557.7	556.6	559.1
35°	508.0	508.3	511.1	510.9	513.1	513.1	513.1	514.8
37.5°	463.4	466.7	465.4	468.8	467.6	468.4	468.4	469.1
40°	422.7	423.8	423.8	424.9	425.8	424.9	425.5	427.0
42.5°	380.6	381.8	382.0	381.5	382.3	384.8	382.8	384.5
45°	341.3	342.2	343.3	342.4	343.9	343.0	343.9	343.3
47.5°	304.3	304.0	303.7	306.0	304.0	304.3	305.4	303.5
50°	266.4	268.1	266.9	267.8	268.3	268.3	267.5	267.5
52.5°	232.7	232.4	231.6	232.4	231.9	232.1	232.7	232.1
55°	197.9	199.0	198.4	198.1	198.4	198.4	200.1	197.9
57.5°	163.6	163.1	163.9	165.9	163.9	165.3	166.1	166.5
60°	131.1	131.1	132.8	131.9	133.6	135.0	136.2	135.5
62.5°	100.0	101.3	101.9	102.2	103.9	105.0	105.0	104.7
65°	74.1	76.1	76.1	77.2	77.8	77.8	78.3	79.5
67.5°	54.8	54.8	55.0	55.6	55.3	55.3	55.8	56.2
70°	38.2	37.6	38.4	38.2	38.2	37.9	38.2	38.2
72.5°	24.2	24.2	24.4	24.2	23.5	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)