

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: P857278

Luminaire Tested: **LX4C20D010 EX4C209850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857278
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 EX4C209850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

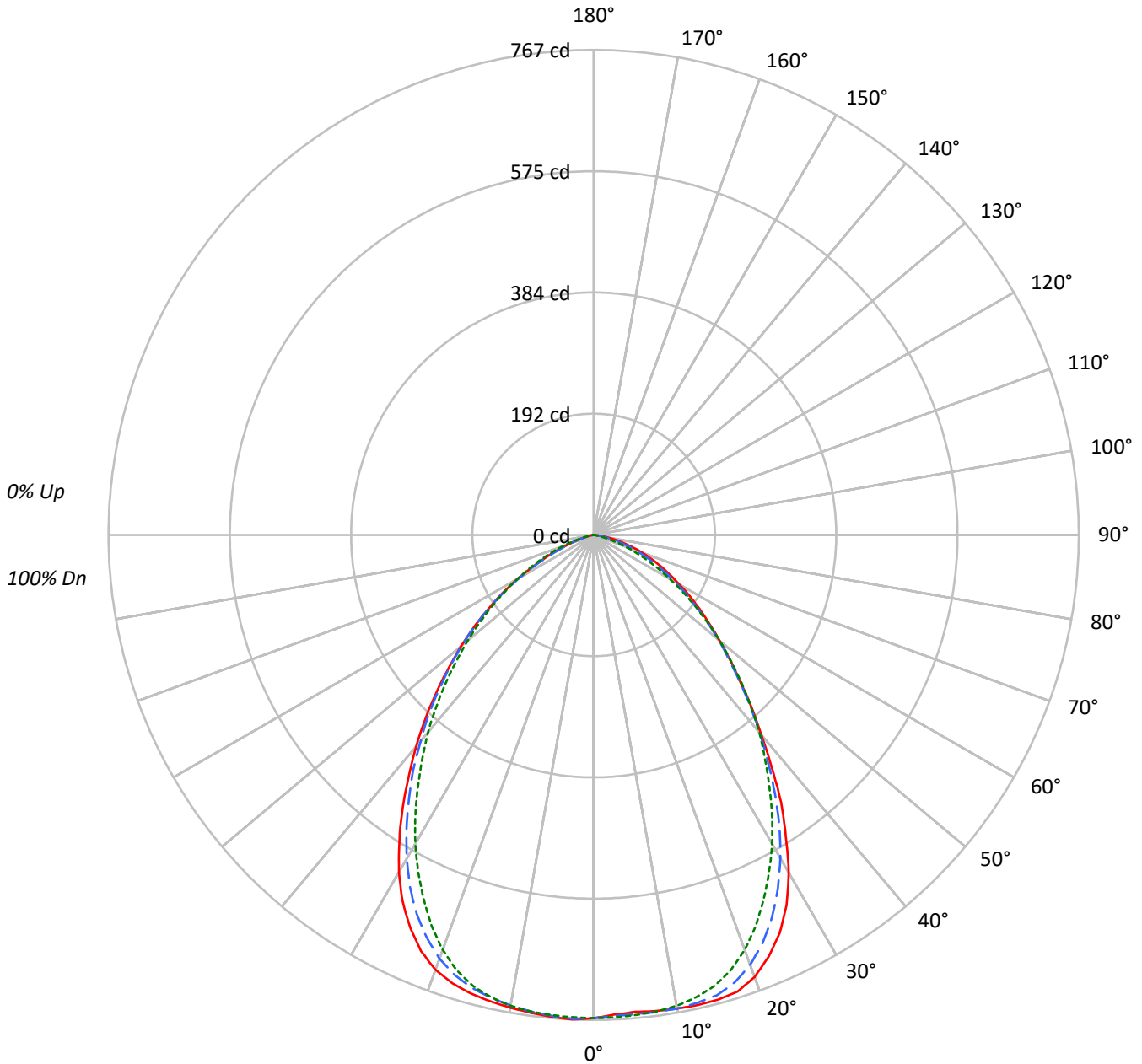
Lumens per Lamp: N/A
Luminaire Lumens: 1465.1 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	93885	93885	93885
5°	93355	93997	94354
10°	94896	94335	94697
15°	96751	93915	95492
20°	97243	91281	95635
25°	94264	86199	92963
30°	87484	79994	87328
35°	77478	72574	78933
40°	66042	65352	70003
45°	56744	57387	60983
50°	49521	49635	52273
55°	43759	41917	43330
60°	38355	34202	34055
65°	33953	26511	23605
70°	28951	18247	14045
75°	23449	9826	6408
80°	16060	2476	1627
85°	4934	705	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	5.0
10°-20°	210.3	14.4
20°-30°	303.8	20.7
30°-40°	314.1	21.4
40°-50°	259.5	17.7
50°-60°	179.1	12.2
60°-70°	93.8	6.4
70°-80°	29.5	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°	586.7	40.0
0°-40°	900.7	61.5
0°-60°	1339.3	91.4
0°-90°	1465.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1465.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	764	764	764	764	764	
5°	757	761	762	764	765	72
15°	761	754	738	742	751	215
25°	695	667	636	662	686	317
35°	517	499	484	509	526	321
45°	327	325	330	346	351	255
55°	204	198	196	201	202	184
65°	117	106	91	76	81	116
75°	49	39	21	14	14	53
85°	4	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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	759.3	759.6	759.6	760.2	760.2	760.2	760.5	760.5	760.7	761.0	761.4
5°	757.0	757.0	757.6	757.9	758.4	758.8	759.3	759.6	760.2	760.5	760.7
7.5°	759.3	759.3	759.6	759.9	759.9	760.2	760.2	760.5	760.7	761.0	761.0
10°	760.7	760.7	760.7	760.7	761.0	761.0	761.0	760.7	760.7	760.7	760.5
12.5°	761.4	761.4	761.0	760.7	761.0	760.7	760.7	759.9	759.3	758.8	757.9
15°	760.7	760.7	760.5	760.2	759.9	759.3	759.1	757.6	756.5	754.8	753.6
17.5°	757.0	756.5	755.9	755.3	754.1	753.3	752.7	750.1	748.2	745.2	742.1
20°	743.8	743.3	742.4	740.9	739.5	738.4	736.7	732.9	731.0	726.6	723.5
22.5°	722.3	721.8	722.0	719.5	716.6	714.8	713.7	710.5	707.1	701.6	698.2
25°	695.4	693.6	693.6	689.6	688.2	687.0	685.6	681.8	676.7	671.8	667.2
27.5°	660.3	658.0	656.9	656.3	652.8	650.3	648.3	645.4	641.1	636.8	630.5
30°	616.7	616.5	614.9	612.4	609.9	608.7	606.4	601.5	597.5	594.3	590.3
32.5°	565.4	565.0	565.0	565.0	563.3	563.0	559.6	557.0	553.9	549.0	546.4
35°	516.6	516.2	516.6	512.2	511.1	510.3	510.0	508.2	503.9	501.6	499.4
37.5°	461.5	462.3	461.7	460.6	462.0	459.4	461.5	457.7	456.0	455.4	452.8
40°	411.8	414.1	411.8	412.1	413.5	410.9	410.9	410.4	409.2	408.7	408.1
42.5°	369.4	366.5	368.2	366.8	368.2	367.3	365.9	366.8	367.0	365.9	365.6
45°	326.6	327.2	327.7	326.8	326.8	326.0	328.3	326.8	326.8	327.2	325.1
47.5°	291.9	291.0	291.6	291.0	291.2	290.7	291.2	291.6	291.0	291.0	289.3
50°	259.1	258.6	260.6	258.9	258.9	258.6	258.9	258.2	257.4	257.4	258.0
52.5°	230.7	229.5	229.3	230.7	228.7	228.7	229.0	228.5	227.3	226.7	225.3
55°	204.3	204.0	204.3	203.1	202.6	202.6	201.2	200.6	200.3	198.9	198.1
57.5°	179.7	178.8	179.1	178.8	177.6	177.4	176.2	176.2	175.0	173.9	172.5
60°	156.1	156.1	156.9	155.8	155.0	154.4	153.8	153.2	151.2	149.2	147.5
62.5°	135.2	135.5	135.2	134.3	133.8	133.1	132.6	130.8	129.1	128.0	126.0
65°	116.8	116.6	115.7	115.0	113.6	113.6	112.5	111.6	109.6	107.9	105.8
67.5°	97.8	97.3	97.3	97.3	95.6	95.2	94.7	93.0	91.2	89.0	87.2
70°	80.6	81.2	80.3	79.5	78.7	78.4	77.5	75.8	73.7	71.4	70.0
72.5°	64.3	64.8	64.0	63.7	62.0	61.4	61.1	59.7	57.4	56.0	53.7
75°	49.4	49.7	49.0	48.5	47.4	47.1	45.7	44.5	43.1	40.8	38.7
77.5°	35.6	35.0	35.0	33.9	32.7	32.7	32.5	30.7	28.7	27.0	25.2
80°	22.7	22.4	21.5	21.0	20.1	19.8	19.5	18.1	16.7	15.5	14.4
82.5°	11.5	11.2	10.9	10.6	10.1	9.5	9.7	8.6	8.0	6.9	6.1
85°	3.5	3.7	3.7	3.5	3.1	3.1	3.1	2.9	2.3	2.1	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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	761.6	761.9	762.2	762.5	762.5	762.8	763.1	763.3	763.6	763.6	764.0
5°	761.0	761.6	761.6	761.9	761.9	761.9	762.2	762.2	762.2	762.2	762.5
7.5°	761.4	761.4	761.4	761.0	761.0	760.7	760.7	760.7	760.2	760.2	760.2
10°	759.9	759.6	759.3	758.8	758.4	758.2	757.6	757.0	756.5	756.2	755.6
12.5°	757.0	755.9	754.8	753.6	753.0	752.7	751.6	750.8	749.9	749.0	748.4
15°	751.3	749.6	747.5	745.2	744.7	744.2	742.1	740.4	739.3	738.4	736.9
17.5°	739.8	736.4	734.1	730.6	729.2	728.6	725.4	723.7	721.8	721.2	720.0
20°	719.5	716.2	712.0	708.8	707.1	705.4	702.8	700.5	698.2	698.2	696.8
22.5°	693.9	689.9	684.4	680.4	680.1	676.7	674.4	671.8	670.9	669.3	669.3
25°	661.8	658.3	652.3	648.8	647.1	646.2	642.5	639.1	637.3	635.9	637.1
27.5°	626.2	621.0	616.5	612.1	610.7	609.0	605.5	604.1	600.9	600.7	600.3
30°	585.4	580.3	575.7	573.7	570.8	569.4	566.8	565.0	563.9	563.9	563.3
32.5°	542.6	538.1	535.8	531.5	530.1	528.0	526.3	524.6	525.1	524.6	524.9
35°	496.4	495.3	491.0	488.4	488.4	488.1	485.3	484.1	483.6	483.9	485.3
37.5°	452.6	449.1	446.2	444.5	446.0	444.3	443.9	443.9	445.7	444.5	446.9
40°	405.7	405.5	404.3	404.9	405.2	403.2	403.8	404.0	405.2	407.5	407.8
42.5°	365.0	364.7	364.7	364.7	364.2	363.0	364.2	366.1	365.9	367.6	369.1
45°	325.8	325.1	326.3	325.4	327.2	327.7	326.8	327.4	329.1	330.3	332.6
47.5°	289.8	289.8	290.2	290.7	289.0	290.4	291.0	292.1	293.0	293.6	294.7
50°	256.6	256.6	256.0	256.0	256.0	256.8	255.7	257.1	257.4	259.7	261.1
52.5°	225.9	224.5	225.3	224.7	223.6	222.9	223.6	223.8	225.5	226.1	227.8
55°	196.5	196.5	194.3	193.7	194.6	194.3	194.0	194.0	194.8	195.7	197.2
57.5°	170.8	169.0	167.3	167.0	166.1	166.5	166.5	166.1	165.6	165.9	166.1
60°	146.3	145.2	142.6	142.6	142.3	142.1	140.6	140.4	138.9	139.2	138.0
62.5°	124.0	123.4	119.9	118.8	118.8	118.0	116.6	116.2	114.2	114.2	113.1
65°	103.9	102.2	100.1	98.2	98.2	97.0	96.1	93.5	92.1	91.2	89.5
67.5°	85.5	82.9	81.0	79.2	78.0	77.8	75.8	74.0	71.8	70.3	67.7
70°	67.7	65.7	63.7	62.0	60.8	59.7	57.7	55.1	53.4	50.8	49.0
72.5°	51.1	49.4	47.6	45.3	43.9	43.1	41.0	38.7	35.8	34.2	31.8
75°	36.7	34.7	32.5	30.4	29.5	28.7	26.4	24.7	22.7	20.7	18.4
77.5°	23.8	21.5	19.8	17.5	17.2	16.7	14.4	12.7	11.2	10.1	8.6
80°	12.7	11.5	10.1	8.6	8.0	7.1	6.1	5.2	4.3	3.5	2.9
82.5°	5.4	4.5	3.7	3.1	2.9	2.6	2.1	1.7	1.4	1.4	1.2
85°	1.4	1.2	1.2	0.9	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°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	764.2	764.5	764.8	764.8	765.1	765.4	765.4	765.6	765.9	766.2	766.2
5°	762.8	762.8	762.8	763.1	763.1	763.1	763.1	763.6	763.6	764.0	764.2
7.5°	759.9	759.9	759.9	759.9	759.6	759.9	759.6	759.6	760.2	760.5	760.7
10°	755.3	755.0	755.0	754.8	754.8	754.8	755.0	755.3	755.6	755.9	756.7
12.5°	748.2	747.8	747.8	747.5	747.5	747.8	748.2	748.7	749.9	750.4	751.6
15°	736.7	736.4	736.7	736.9	737.6	738.4	739.3	740.1	741.8	743.3	744.7
17.5°	720.0	720.3	720.6	721.2	722.0	723.2	725.4	727.8	729.8	732.0	734.3
20°	697.1	698.2	698.5	700.5	701.1	703.7	706.3	709.6	712.9	715.7	718.8
22.5°	669.5	670.4	671.5	673.8	675.2	678.7	681.8	685.8	689.3	693.1	697.6
25°	638.2	638.5	642.0	642.0	645.4	648.3	652.0	656.3	661.5	666.3	669.5
27.5°	602.6	604.1	606.7	607.8	610.4	614.9	618.2	623.3	628.5	632.8	636.3
30°	565.4	566.5	570.8	571.3	573.4	577.4	581.7	586.6	590.6	595.5	598.6
32.5°	526.0	529.2	531.7	533.8	534.3	540.4	542.6	546.1	550.7	555.6	558.8
35°	487.9	489.3	493.0	494.2	495.9	499.4	503.9	506.8	509.1	512.2	516.0
37.5°	447.4	451.7	452.6	456.0	456.6	459.7	462.0	465.5	468.3	471.2	471.8
40°	409.8	411.3	414.4	415.3	415.8	420.1	423.0	423.8	425.3	427.9	431.3
42.5°	371.6	373.1	376.5	375.7	378.2	380.2	381.7	385.1	386.6	387.4	387.4
45°	334.0	334.6	336.9	338.1	339.5	340.6	343.2	344.9	345.5	348.1	348.9
47.5°	298.2	298.7	300.4	302.5	301.9	303.4	306.2	307.0	307.4	309.1	310.0
50°	262.9	264.3	266.6	266.0	267.8	268.6	271.2	271.8	271.8	272.1	272.3
52.5°	229.9	231.1	231.6	232.1	233.0	234.4	235.6	235.1	236.2	237.3	236.5
55°	197.2	198.1	199.5	200.0	200.0	200.3	199.8	202.3	201.2	200.9	201.2
57.5°	167.3	166.1	165.9	167.3	167.9	167.6	166.8	167.9	167.9	167.3	166.5
60°	138.3	137.4	137.1	137.4	136.3	135.5	136.0	135.5	134.0	133.4	133.8
62.5°	111.9	111.0	108.8	108.8	108.2	107.9	105.6	105.8	104.8	103.0	103.6
65°	87.6	85.3	84.1	83.8	81.8	80.1	79.5	77.5	75.8	75.4	75.8
67.5°	65.7	63.1	61.1	60.3	59.1	57.7	55.6	54.0	54.5	54.2	55.4
70°	45.7	43.9	41.9	40.5	41.0	39.3	38.2	38.2	38.4	38.7	39.3
72.5°	30.4	28.1	27.3	26.4	25.9	24.7	25.2	25.2	25.0	25.2	24.7
75°	17.2	16.1	15.2	14.9	14.4	14.4	14.4	14.4	14.1	13.7	13.7
77.5°	7.8	7.1	6.9	6.6	6.6	6.6	6.3	6.1	6.1	6.1	5.7
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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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CATALOG NUMBER: LX4C20D010 EX4C209850 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	764.2	764.2	764.2	764.2	764.2	764.2	764.2	764.2
2.5°	766.5	766.8	766.8	766.8	767.1	767.1	767.1	767.1
5°	764.5	764.8	764.8	764.8	765.1	765.1	765.1	765.1
7.5°	761.0	761.4	761.4	761.6	761.6	761.9	761.9	762.2
10°	757.0	757.6	757.9	758.2	758.4	758.8	758.8	759.1
12.5°	752.7	753.3	753.6	754.1	754.8	755.0	755.3	755.6
15°	746.4	747.5	748.2	748.4	749.6	750.1	750.4	750.8
17.5°	736.4	738.6	739.5	740.1	741.2	742.4	743.3	743.5
20°	722.0	724.6	725.8	727.2	728.9	730.3	731.0	731.5
22.5°	702.0	704.8	706.5	708.2	709.6	711.2	713.4	712.6
25°	673.3	678.1	680.1	681.0	684.1	685.8	687.0	685.8
27.5°	641.1	643.9	645.7	647.7	650.0	651.7	652.3	654.0
30°	602.4	607.3	606.9	609.0	611.8	613.5	614.1	615.6
32.5°	562.2	564.5	566.2	565.9	567.1	570.2	569.1	571.7
35°	519.4	519.7	522.6	522.3	524.6	524.6	524.6	526.3
37.5°	473.8	477.3	475.8	479.2	478.1	479.0	479.0	479.5
40°	432.1	433.3	433.3	434.5	435.3	434.5	435.1	436.5
42.5°	389.2	390.3	390.6	390.0	390.9	393.4	391.5	393.2
45°	348.9	349.8	351.0	350.1	351.5	350.7	351.5	351.0
47.5°	311.0	310.8	310.5	312.8	310.8	311.0	312.2	310.2
50°	272.3	274.0	272.9	273.8	274.4	274.4	273.5	273.5
52.5°	237.9	237.6	236.8	237.6	237.0	237.3	237.9	237.3
55°	202.3	203.5	202.9	202.6	202.9	202.9	204.7	202.3
57.5°	167.3	166.8	167.6	169.6	167.6	169.0	169.9	170.1
60°	134.0	134.0	135.7	134.9	136.6	138.0	139.2	138.6
62.5°	102.2	103.6	104.2	104.4	106.2	107.4	107.4	107.0
65°	75.8	77.8	77.8	78.9	79.5	79.5	80.1	81.2
67.5°	56.0	56.0	56.3	56.8	56.5	56.5	57.1	57.4
70°	39.1	38.4	39.3	39.1	39.1	38.7	39.1	39.1
72.5°	24.7	24.7	25.0	24.7	24.1	24.4	24.4	25.0
75°	13.2	13.7	13.2	13.2	13.5	12.9	13.2	13.5
77.5°	5.4	5.4	5.4	5.4	5.4	5.2	5.2	5.2
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.3	2.3
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)