

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: P856859

Luminaire Tested: **LX4C10D010 EX4C109850 4LBLWW\***

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P856859  
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: LX4C10D010 EX4C109850 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

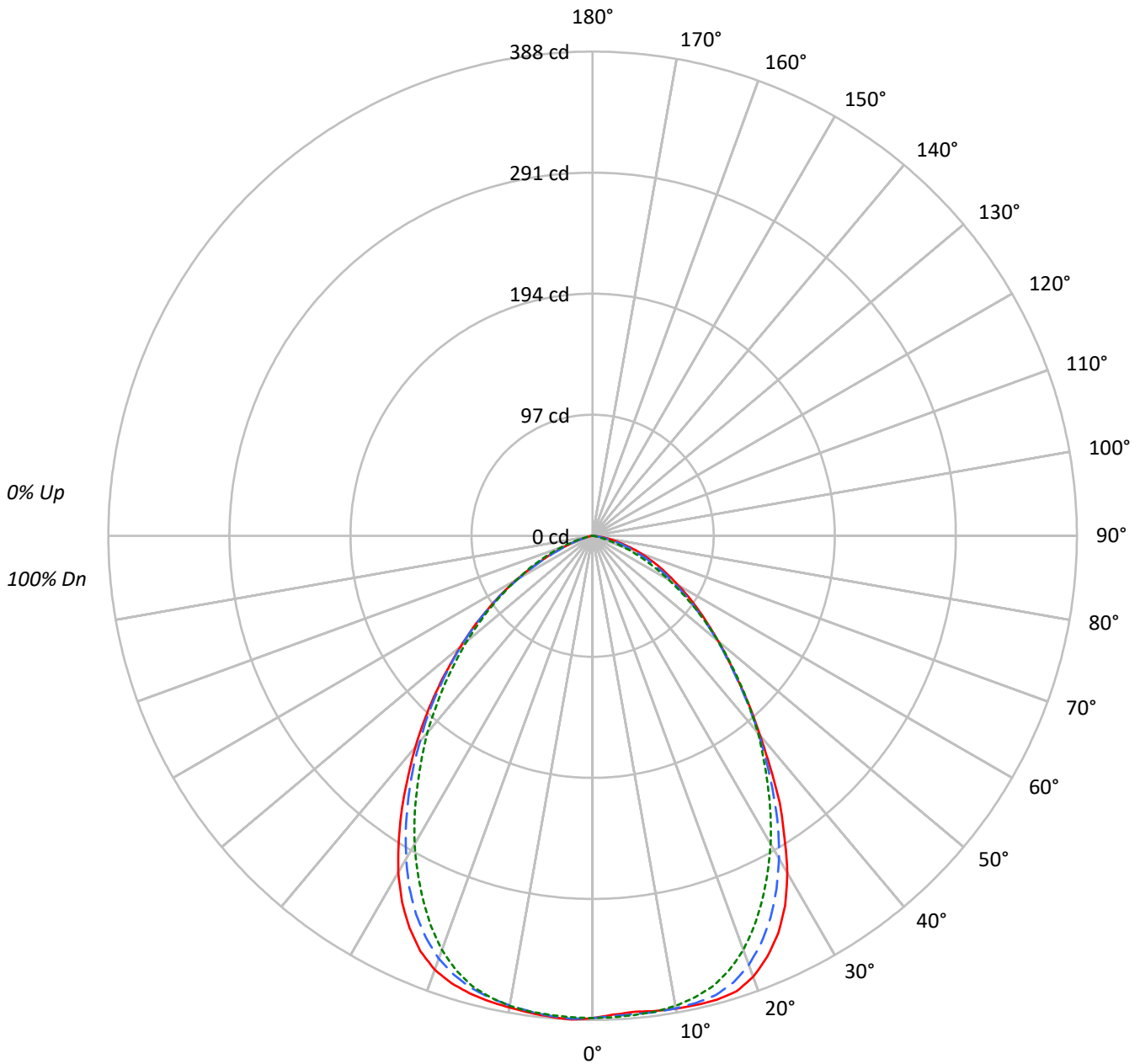
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 741.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 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): 9.8  
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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CATALOG NUMBER: LX4C10D010 EX4C109850 4LBLWW\*

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78					78			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54					54			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48					48			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39					39			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36					36			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33					33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	47483	47483	47483
5°	47220	47541	47714
10°	48003	47716	47891
15°	48942	47504	48293
20°	49184	46164	48373
25°	47674	43608	47024
30°	44246	40458	44161
35°	39189	36699	39924
40°	33406	33053	35411
45°	28702	29015	30839
50°	25057	25114	26433
55°	22147	21205	21933
60°	19386	17298	17224
65°	17151	13430	11948
70°	14655	9231	7076
75°	11867	4937	3275
80°	8136	1273	849
85°	2537	423	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	5.0
10°-20°	106.3	14.4
20°-30°	153.7	20.7
30°-40°	158.8	21.4
40°-50°	131.2	17.7
50°-60°	90.6	12.2
60°-70°	47.4	6.4
70°-80°	14.9	2.0
80°-90°	1.3	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°	296.7	40.0
0°-40°	455.6	61.5
0°-60°	677.4	91.4
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	386	386	386	386	386	
5°	383	385	386	386	387	37
15°	385	381	374	375	380	109
25°	352	337	322	335	347	161
35°	261	252	245	257	266	162
45°	165	164	167	175	178	129
55°	103	100	99	102	102	93
65°	59	54	46	38	41	59
75°	25	20	10	7	7	27
85°	2	1	0	0	0	4
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°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	384.1	384.2	384.2	384.5	384.5	384.5	384.6	384.6	384.8	385.0	385.1
5°	382.9	382.9	383.2	383.4	383.6	383.8	384.1	384.2	384.5	384.6	384.8
7.5°	384.1	384.1	384.2	384.3	384.3	384.5	384.5	384.6	384.8	385.0	385.0
10°	384.8	384.8	384.8	384.8	385.0	385.0	385.0	384.8	384.8	384.8	384.6
12.5°	385.1	385.1	385.0	384.8	385.0	384.8	384.8	384.3	384.1	383.8	383.4
15°	384.8	384.8	384.6	384.5	384.3	384.1	383.9	383.2	382.6	381.8	381.1
17.5°	382.9	382.6	382.3	382.0	381.5	381.0	380.7	379.4	378.4	376.9	375.3
20°	376.2	376.0	375.5	374.8	374.1	373.5	372.6	370.7	369.7	367.5	365.9
22.5°	365.3	365.1	365.2	363.9	362.4	361.6	361.0	359.4	357.7	354.9	353.1
25°	351.7	350.8	350.8	348.8	348.0	347.5	346.8	344.8	342.3	339.8	337.4
27.5°	334.0	332.8	332.3	331.9	330.2	328.9	327.9	326.5	324.2	322.1	318.9
30°	311.9	311.8	311.0	309.7	308.5	307.8	306.7	304.3	302.2	300.6	298.6
32.5°	286.0	285.8	285.8	285.8	284.9	284.7	283.0	281.7	280.1	277.7	276.4
35°	261.3	261.1	261.3	259.1	258.5	258.1	257.9	257.1	254.9	253.7	252.5
37.5°	233.4	233.8	233.5	232.9	233.7	232.4	233.4	231.5	230.6	230.3	229.0
40°	208.3	209.5	208.3	208.4	209.1	207.9	207.9	207.6	207.0	206.7	206.4
42.5°	186.8	185.4	186.2	185.5	186.2	185.7	185.0	185.5	185.7	185.0	184.9
45°	165.2	165.5	165.8	165.3	165.3	164.9	166.0	165.3	165.3	165.5	164.4
47.5°	147.6	147.1	147.5	147.1	147.3	147.0	147.3	147.5	147.1	147.1	146.3
50°	131.1	130.8	131.8	130.9	130.9	130.8	130.9	130.6	130.2	130.2	130.5
52.5°	116.7	116.1	116.0	116.7	115.7	115.7	115.8	115.6	114.9	114.7	114.0
55°	103.4	103.2	103.4	102.7	102.5	102.5	101.7	101.5	101.3	100.6	100.1
57.5°	90.9	90.4	90.6	90.4	89.9	89.7	89.1	89.1	88.5	87.9	87.2
60°	78.9	78.9	79.4	78.8	78.4	78.1	77.8	77.5	76.5	75.4	74.6
62.5°	68.4	68.5	68.4	68.0	67.6	67.3	67.1	66.2	65.3	64.7	63.8
65°	59.0	58.9	58.5	58.2	57.5	57.5	56.9	56.4	55.5	54.6	53.6
67.5°	49.5	49.2	49.2	49.2	48.3	48.2	47.9	47.0	46.2	45.0	44.1
70°	40.8	41.1	40.7	40.2	39.8	39.6	39.1	38.3	37.3	36.1	35.4
72.5°	32.5	32.8	32.4	32.2	31.4	31.0	30.9	30.2	29.1	28.3	27.1
75°	25.0	25.1	24.8	24.5	24.0	23.8	23.1	22.5	21.8	20.6	19.6
77.5°	18.0	17.7	17.7	17.1	16.6	16.6	16.4	15.5	14.5	13.6	12.8
80°	11.5	11.3	10.9	10.6	10.2	10.0	9.9	9.2	8.4	7.8	7.2
82.5°	5.8	5.6	5.5	5.4	5.1	4.8	4.9	4.4	4.1	3.5	3.0
85°	1.8	1.9	1.9	1.8	1.6	1.6	1.6	1.4	1.2	1.0	0.9
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°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	385.2	385.3	385.5	385.7	385.7	385.8	385.9	386.1	386.2	386.2	386.4
5°	385.0	385.2	385.2	385.3	385.3	385.3	385.5	385.5	385.5	385.5	385.7
7.5°	385.1	385.1	385.1	385.0	385.0	384.8	384.8	384.8	384.5	384.5	384.5
10°	384.3	384.2	384.1	383.8	383.6	383.4	383.2	382.9	382.6	382.5	382.2
12.5°	382.9	382.3	381.8	381.1	380.9	380.7	380.1	379.7	379.3	378.8	378.5
15°	380.0	379.1	378.1	376.9	376.7	376.4	375.3	374.4	373.9	373.5	372.7
17.5°	374.2	372.5	371.3	369.5	368.8	368.6	367.0	366.1	365.1	364.7	364.2
20°	363.9	362.3	360.1	358.5	357.7	356.8	355.4	354.3	353.1	353.1	352.4
22.5°	351.0	348.9	346.2	344.1	344.0	342.3	341.1	339.8	339.3	338.5	338.5
25°	334.7	333.0	329.9	328.2	327.3	326.9	325.0	323.3	322.4	321.7	322.2
27.5°	316.7	314.1	311.8	309.6	308.9	308.0	306.2	305.5	303.9	303.8	303.6
30°	296.1	293.5	291.2	290.2	288.7	287.9	286.7	285.8	285.2	285.2	284.9
32.5°	274.5	272.2	271.0	268.8	268.1	267.1	266.2	265.3	265.6	265.3	265.5
35°	251.1	250.5	248.4	247.0	247.0	246.9	245.4	244.9	244.6	244.7	245.4
37.5°	228.9	227.1	225.7	224.8	225.5	224.7	224.5	224.5	225.4	224.8	226.0
40°	205.3	205.1	204.5	204.8	204.9	203.9	204.2	204.4	204.9	206.1	206.3
42.5°	184.6	184.5	184.5	184.5	184.2	183.6	184.2	185.2	185.0	185.9	186.6
45°	164.7	164.4	165.1	164.6	165.5	165.8	165.3	165.6	166.5	167.0	168.2
47.5°	146.6	146.6	146.8	147.0	146.2	146.9	147.1	147.8	148.2	148.5	149.1
50°	129.7	129.7	129.5	129.5	129.5	129.9	129.3	130.0	130.2	131.4	132.1
52.5°	114.2	113.5	114.0	113.6	113.1	112.8	113.1	113.3	114.1	114.4	115.2
55°	99.4	99.4	98.3	98.0	98.4	98.3	98.1	98.1	98.5	99.0	99.7
57.5°	86.3	85.5	84.6	84.4	84.0	84.2	84.2	84.0	83.7	83.9	84.0
60°	74.0	73.5	72.1	72.1	72.0	71.9	71.2	71.0	70.3	70.4	69.8
62.5°	62.7	62.4	60.6	60.1	60.1	59.7	58.9	58.8	57.8	57.8	57.2
65°	52.5	51.6	50.7	49.7	49.7	49.0	48.6	47.4	46.5	46.2	45.3
67.5°	43.2	41.9	40.9	40.0	39.5	39.3	38.3	37.5	36.3	35.6	34.2
70°	34.2	33.3	32.2	31.4	30.8	30.2	29.2	27.9	27.0	25.7	24.8
72.5°	25.9	25.0	24.1	22.9	22.2	21.8	20.8	19.6	18.1	17.3	16.1
75°	18.5	17.6	16.4	15.4	15.0	14.5	13.4	12.5	11.5	10.4	9.3
77.5°	12.0	10.9	10.0	8.8	8.7	8.4	7.2	6.4	5.6	5.1	4.4
80°	6.4	5.8	5.1	4.4	4.1	3.7	3.0	2.6	2.1	1.8	1.4
82.5°	2.8	2.3	1.9	1.6	1.4	1.3	1.0	0.9	0.7	0.7	0.6
85°	0.7	0.6	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	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°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	386.5	386.7	386.8	386.8	386.9	387.1	387.1	387.3	387.4	387.6	387.6
5°	385.8	385.8	385.8	385.9	385.9	385.9	385.9	386.2	386.2	386.4	386.5
7.5°	384.3	384.3	384.3	384.3	384.2	384.3	384.2	384.2	384.5	384.6	384.8
10°	382.0	381.8	381.8	381.8	381.8	381.8	381.8	382.0	382.2	382.3	382.7
12.5°	378.4	378.3	378.3	378.1	378.1	378.3	378.4	378.7	379.3	379.5	380.1
15°	372.6	372.5	372.6	372.7	373.0	373.5	373.9	374.4	375.2	376.0	376.7
17.5°	364.2	364.3	364.5	364.7	365.2	365.8	367.0	368.1	369.1	370.3	371.4
20°	352.6	353.1	353.3	354.3	354.6	355.9	357.2	358.9	360.5	362.0	363.6
22.5°	338.6	339.0	339.7	340.8	341.5	343.2	344.8	346.9	348.7	350.5	352.9
25°	322.8	323.0	324.7	324.7	326.5	327.9	329.8	331.9	334.6	337.0	338.6
27.5°	304.8	305.5	306.8	307.4	308.7	311.0	312.6	315.2	317.9	320.0	321.8
30°	286.0	286.5	288.7	289.0	290.0	292.0	294.2	296.7	298.7	301.1	302.7
32.5°	266.1	267.6	268.9	269.9	270.3	273.3	274.5	276.2	278.5	281.0	282.6
35°	246.7	247.5	249.3	250.0	250.8	252.5	254.9	256.3	257.4	259.1	261.0
37.5°	226.3	228.5	228.9	230.6	231.0	232.6	233.7	235.4	236.8	238.4	238.6
40°	207.2	208.0	209.6	210.0	210.3	212.5	213.9	214.4	215.1	216.4	218.1
42.5°	188.0	188.7	190.5	190.0	191.3	192.3	193.1	194.8	195.5	195.9	195.9
45°	169.0	169.3	170.4	170.9	171.7	172.3	173.6	174.4	174.8	176.0	176.5
47.5°	150.8	151.1	152.0	153.0	152.7	153.4	154.9	155.3	155.4	156.3	156.8
50°	133.0	133.7	134.8	134.6	135.5	135.8	137.1	137.4	137.4	137.6	137.8
52.5°	116.3	116.8	117.2	117.4	117.9	118.6	119.1	118.9	119.5	120.0	119.6
55°	99.7	100.1	100.9	101.1	101.1	101.3	101.0	102.4	101.7	101.6	101.7
57.5°	84.6	84.0	83.9	84.6	84.9	84.8	84.4	84.9	84.9	84.6	84.2
60°	70.0	69.6	69.4	69.6	68.9	68.5	68.8	68.5	67.8	67.5	67.6
62.5°	56.6	56.2	55.0	55.0	54.8	54.6	53.4	53.6	53.0	52.1	52.4
65°	44.2	43.1	42.5	42.4	41.4	40.5	40.2	39.1	38.3	38.2	38.3
67.5°	33.3	31.9	30.9	30.5	29.9	29.2	28.2	27.3	27.6	27.5	28.0
70°	23.1	22.2	21.2	20.5	20.8	19.9	19.3	19.3	19.4	19.6	19.9
72.5°	15.4	14.3	13.8	13.4	13.0	12.5	12.8	12.8	12.7	12.8	12.5
75°	8.7	8.1	7.7	7.6	7.2	7.2	7.2	7.2	7.1	7.0	7.0
77.5°	3.9	3.7	3.5	3.3	3.3	3.3	3.2	3.0	3.0	3.0	2.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	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: P856859

CATALOG NUMBER: LX4C10D010 EX4C109850 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	387.7	387.8	387.8	387.8	388.0	388.0	388.0	388.0
5°	386.7	386.8	386.8	386.8	386.9	386.9	386.9	386.9
7.5°	385.0	385.1	385.1	385.2	385.2	385.3	385.3	385.5
10°	382.9	383.2	383.4	383.4	383.6	383.8	383.8	383.9
12.5°	380.7	381.0	381.1	381.5	381.8	381.8	382.0	382.2
15°	377.6	378.1	378.4	378.5	379.1	379.4	379.5	379.7
17.5°	372.5	373.6	374.1	374.4	374.9	375.5	376.0	376.0
20°	365.2	366.5	367.0	367.8	368.6	369.4	369.7	370.0
22.5°	355.0	356.5	357.3	358.2	358.9	359.6	360.8	360.4
25°	340.6	343.0	344.0	344.4	346.0	346.9	347.5	346.9
27.5°	324.2	325.7	326.6	327.6	328.8	329.6	329.9	330.7
30°	304.6	307.1	307.0	308.0	309.4	310.3	310.6	311.3
32.5°	284.4	285.5	286.3	286.2	286.8	288.4	287.9	289.1
35°	262.7	262.9	264.3	264.1	265.3	265.3	265.3	266.2
37.5°	239.6	241.4	240.7	242.4	241.8	242.3	242.3	242.6
40°	218.6	219.2	219.2	219.7	220.2	219.7	220.1	220.8
42.5°	196.8	197.4	197.5	197.3	197.7	199.0	198.0	198.9
45°	176.5	176.9	177.5	177.1	177.8	177.4	177.8	177.5
47.5°	157.3	157.2	157.0	158.2	157.2	157.3	157.9	156.9
50°	137.8	138.6	138.0	138.5	138.8	138.8	138.3	138.3
52.5°	120.3	120.2	119.8	120.2	119.9	120.0	120.3	120.0
55°	102.4	102.9	102.6	102.5	102.6	102.6	103.5	102.4
57.5°	84.6	84.4	84.8	85.8	84.8	85.5	86.0	86.1
60°	67.8	67.8	68.7	68.2	69.1	69.8	70.4	70.1
62.5°	51.6	52.4	52.7	52.8	53.7	54.3	54.3	54.1
65°	38.3	39.3	39.3	40.0	40.2	40.2	40.5	41.1
67.5°	28.3	28.3	28.4	28.7	28.6	28.6	28.9	29.1
70°	19.7	19.4	19.9	19.7	19.7	19.6	19.7	19.7
72.5°	12.5	12.5	12.7	12.5	12.2	12.3	12.3	12.7
75°	6.7	7.0	6.7	6.7	6.9	6.5	6.7	6.9
77.5°	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2
82.5°	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2
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)