

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: P858847

Luminaire Tested: **LX4C05D010 EX4C059050 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P858847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C05D010 EX4C059050 4LBSWNH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

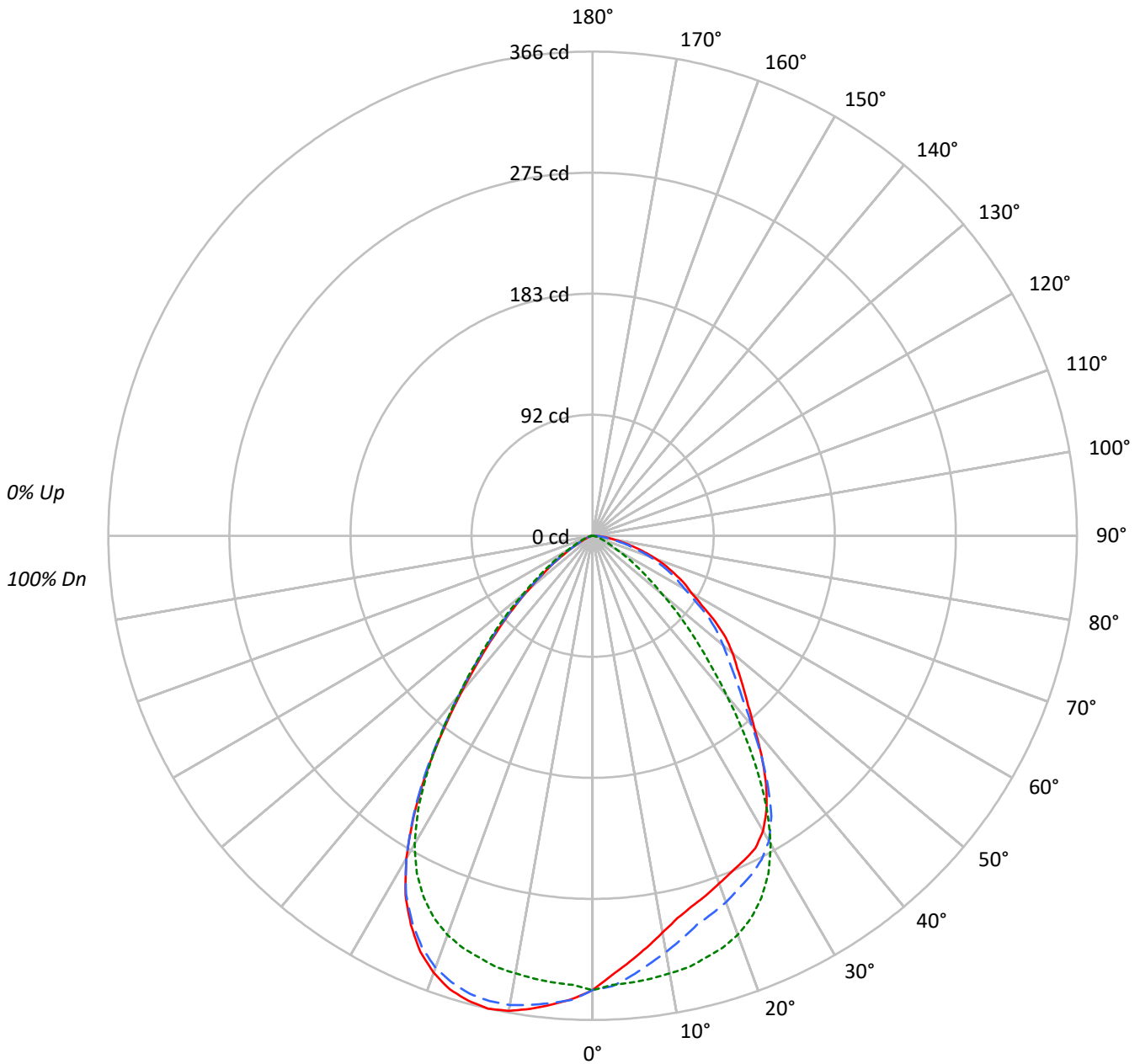
Lumens per Lamp: N/A
Luminaire Lumens: 602.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42188	42188	42188
5°	39846	41806	43878
10°	37986	41903	45496
15°	36872	41997	46271
20°	36567	41954	45941
25°	36708	40910	44028
30°	36543	38174	39933
35°	34255	32590	32920
40°	30519	25275	24698
45°	27903	18834	17687
50°	26395	13188	11926
55°	24268	8910	7497
60°	21205	5209	4128
65°	20058	3343	2326
70°	18283	2371	1437
75°	15142	1661	1044
80°	11886	920	637
85°	10572	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	5.4
10°-20°	93.1	15.5
20°-30°	138.0	22.9
30°-40°	138.2	23.0
40°-50°	96.6	16.0
50°-60°	57.5	9.5
60°-70°	30.0	5.0
70°-80°	13.3	2.2
80°-90°	2.9	0.5
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°	263.5	43.8
0°-40°	401.7	66.7
0°-60°	555.8	92.3
0°-90°	602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	343	343	343	343	343	
5°	323	334	339	354	356	30
15°	290	304	330	358	364	82
25°	271	283	302	323	325	125
35°	228	231	217	221	220	142
45°	161	153	108	105	102	125
55°	113	106	42	36	35	101
65°	69	63	12	8	8	68
75°	32	28	4	2	2	34
85°	8	6	0	0	0	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°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	332.4	336.4	332.4	333.7	339.0	334.1	336.8	336.8	335.5	338.6	340.8
5°	323.1	327.1	323.1	324.8	330.6	325.7	328.8	327.9	328.4	331.0	334.1
7.5°	313.8	316.9	313.3	315.6	320.9	316.9	319.5	319.5	320.0	323.9	326.6
10°	304.5	307.1	304.5	306.3	312.0	308.5	310.2	310.7	312.0	315.6	319.5
12.5°	296.1	298.3	295.6	298.3	303.1	299.6	301.8	302.3	303.6	307.6	312.0
15°	289.9	292.1	289.4	291.6	296.1	293.4	295.2	296.1	297.0	300.5	304.5
17.5°	285.0	286.8	284.6	287.2	290.8	287.7	290.3	290.3	291.6	295.2	299.6
20°	279.7	281.5	279.7	281.9	285.9	283.2	285.5	285.5	286.8	290.8	294.8
22.5°	274.8	275.7	274.8	276.6	280.6	278.4	279.7	280.1	281.5	285.0	288.6
25°	270.8	272.6	271.7	273.5	276.2	274.0	275.3	275.7	277.0	280.1	283.2
27.5°	266.4	267.3	266.4	268.6	270.8	269.1	270.4	270.0	270.8	273.5	276.2
30°	257.6	258.5	258.5	259.8	261.6	260.7	262.0	260.7	261.6	263.8	266.4
32.5°	244.7	245.2	245.6	247.0	248.3	247.0	247.8	247.8	247.8	249.6	251.4
35°	228.4	229.2	228.8	229.7	231.0	230.6	230.6	230.1	229.2	230.1	231.0
37.5°	209.8	208.4	208.4	209.8	210.7	208.9	209.8	208.9	208.9	209.3	209.3
40°	190.3	189.0	190.3	190.7	191.2	190.3	189.9	189.0	187.6	188.1	187.2
42.5°	173.9	173.0	173.5	173.5	173.9	173.0	173.5	171.7	170.4	169.5	168.2
45°	160.6	159.3	160.6	159.8	159.8	159.3	158.9	158.0	156.2	154.9	152.7
47.5°	148.3	148.3	148.7	148.7	148.7	147.8	147.8	146.0	144.3	142.5	139.4
50°	138.1	137.2	139.0	139.0	137.6	137.2	137.6	135.4	134.1	131.9	128.8
52.5°	127.0	127.0	127.5	127.5	127.0	126.1	126.6	124.8	123.5	121.3	118.2
55°	113.3	112.4	113.7	113.7	113.3	112.9	113.3	112.0	110.6	108.9	106.2
57.5°	97.8	97.4	98.2	98.7	97.8	97.8	98.2	96.9	96.5	94.7	92.1
60°	86.3	85.9	86.7	87.2	86.3	86.3	86.3	84.5	83.6	81.9	80.1
62.5°	78.3	77.9	78.8	78.3	77.9	77.4	77.9	76.1	75.2	73.5	71.7
65°	69.0	69.5	69.9	69.9	69.5	69.0	69.0	68.2	67.3	65.5	63.3
67.5°	60.2	60.2	60.6	61.1	60.6	60.6	60.6	59.3	58.4	57.1	54.4
70°	50.9	50.4	51.8	51.8	50.9	51.3	50.9	50.4	49.6	47.8	45.6
72.5°	41.2	41.2	41.6	41.6	41.2	41.2	41.2	40.7	39.4	38.5	36.3
75°	31.9	31.9	32.3	32.8	31.9	31.9	32.3	31.4	30.5	29.2	27.9
77.5°	23.9	23.5	23.9	23.9	23.5	23.5	23.5	23.0	22.6	21.2	19.9
80°	16.8	16.4	16.8	16.8	16.8	16.4	16.4	15.9	15.9	15.0	13.7
82.5°	11.5	11.1	11.5	11.5	11.5	11.1	11.1	11.1	10.6	10.2	9.3
85°	7.5	7.1	7.1	7.5	7.1	7.1	7.1	7.1	6.6	6.2	5.8
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.1	3.1	2.7
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°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	339.0	338.1	340.8	339.9	340.3	338.1	341.7	339.9	342.1	339.9	344.3
5°	333.2	332.4	336.4	335.9	336.4	334.6	338.6	338.1	340.8	339.0	343.9
7.5°	327.1	326.2	330.6	331.0	331.9	330.2	335.5	335.5	338.1	337.7	343.0
10°	320.0	320.4	324.8	325.7	327.5	326.6	331.5	332.8	336.4	335.9	342.5
12.5°	313.3	313.3	319.1	320.9	322.2	321.7	327.5	329.3	333.2	334.1	340.3
15°	306.7	307.1	312.4	315.1	316.9	316.4	322.6	324.8	329.7	330.2	337.7
17.5°	301.4	300.9	306.7	308.9	311.6	311.1	317.8	320.4	325.3	326.6	333.7
20°	297.0	296.5	301.8	304.5	306.3	305.8	312.4	315.6	320.0	320.9	327.9
22.5°	291.6	290.8	296.1	298.3	300.1	299.6	305.4	307.6	312.0	312.9	319.5
25°	285.5	284.6	289.4	290.8	292.1	291.2	296.1	297.4	300.9	301.8	308.5
27.5°	278.4	276.2	280.1	280.1	281.0	279.7	283.2	284.6	287.7	287.7	293.9
30°	267.3	264.2	266.4	266.0	266.4	264.7	266.9	267.3	269.5	269.1	273.5
32.5°	251.8	247.4	248.7	247.4	246.1	243.4	246.1	245.2	247.0	245.2	249.2
35°	230.6	226.2	225.7	223.9	222.6	220.4	220.4	218.2	218.6	217.3	220.0
37.5°	207.6	201.8	200.9	197.4	195.2	192.5	192.5	190.7	188.5	187.6	189.9
40°	185.0	178.8	176.6	170.8	168.6	166.0	164.2	162.0	161.1	157.6	159.3
42.5°	165.5	158.9	154.0	147.8	145.6	141.6	139.0	136.3	135.0	131.0	132.8
45°	149.1	141.2	135.9	127.9	124.8	120.4	116.4	113.3	110.2	108.4	107.5
47.5°	135.4	127.0	119.9	111.1	106.2	102.2	96.9	93.8	89.8	87.6	86.3
50°	123.9	114.6	106.7	96.5	91.6	87.2	81.0	76.1	72.6	69.0	68.2
52.5°	113.7	104.0	95.2	83.6	77.9	72.6	65.9	60.6	57.5	53.6	53.1
55°	101.8	93.4	83.6	71.7	65.9	60.6	53.6	48.2	44.3	41.6	40.7
57.5°	89.0	81.0	71.7	59.7	54.0	48.2	41.6	36.7	33.2	31.0	30.5
60°	77.0	69.5	60.6	48.7	42.9	38.1	31.0	26.1	23.0	21.2	20.3
62.5°	68.2	61.1	52.7	41.6	36.3	31.4	24.8	20.3	17.7	15.9	15.0
65°	59.7	52.7	45.1	35.0	30.5	26.1	19.9	15.9	13.3	11.5	10.6
67.5°	50.9	44.7	37.6	29.2	24.8	21.2	15.9	12.4	10.2	8.8	8.0
70°	42.0	36.3	30.5	23.5	20.3	16.8	12.4	9.7	7.5	6.6	5.8
72.5°	33.2	28.8	23.9	18.1	15.5	13.3	9.7	7.1	5.8	4.9	4.0
75°	24.8	21.7	17.7	13.7	11.5	9.7	7.1	5.3	4.4	3.5	3.1
77.5°	17.7	15.0	12.4	9.3	8.4	7.1	4.9	4.0	3.1	2.2	1.8
80°	12.0	10.6	8.4	6.6	5.3	4.9	3.5	2.7	1.8	1.3	1.3
82.5°	8.0	6.6	5.3	4.0	3.5	3.1	2.2	1.8	1.3	0.9	0.9
85°	4.9	4.0	3.1	2.2	2.2	1.8	1.3	0.9	0.5	0.5	0.5
87.5°	2.2	1.8	1.3	0.9	0.9	0.5	0.5	0.5	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	347.9	345.2	343.4	345.6	346.5	345.2	346.5	348.7	351.0	351.4	345.2
5°	348.3	345.6	344.8	347.4	347.9	347.4	348.7	351.8	354.5	355.4	349.2
7.5°	348.3	346.5	346.1	349.2	349.6	349.2	351.4	354.9	357.6	359.4	353.2
10°	347.4	346.5	347.0	349.6	350.5	350.5	353.6	357.6	360.2	362.0	355.8
12.5°	346.1	346.1	346.1	349.2	350.1	350.5	353.2	358.5	360.2	362.9	356.7
15°	343.9	343.9	343.9	347.0	348.3	348.3	351.4	356.3	358.5	361.1	354.9
17.5°	339.9	339.9	340.3	343.0	344.3	344.3	347.4	352.7	354.0	357.2	351.0
20°	334.1	334.1	334.6	337.2	338.6	337.7	341.7	346.1	347.4	350.1	343.9
22.5°	325.7	325.7	325.7	328.4	329.3	328.8	332.8	336.8	336.8	340.3	333.7
25°	313.3	314.2	313.3	316.0	316.9	316.4	320.0	323.5	322.6	326.6	320.0
27.5°	298.3	297.8	297.8	300.1	300.1	299.6	302.3	306.3	305.4	308.0	301.8
30°	277.5	278.8	276.6	279.7	278.4	277.5	279.3	282.8	281.5	283.7	278.8
32.5°	253.6	251.8	251.8	251.8	252.7	250.5	252.3	254.0	252.7	254.9	249.6
35°	222.2	222.6	221.3	221.7	222.2	219.5	221.3	223.1	221.3	222.6	217.7
37.5°	190.7	191.2	188.1	189.9	188.1	187.2	189.0	189.9	188.1	189.4	184.1
40°	159.3	158.4	158.0	158.0	158.4	156.2	157.6	158.9	157.6	158.4	153.6
42.5°	131.9	131.5	130.6	131.0	129.7	129.2	129.7	131.0	129.7	130.6	127.0
45°	108.0	107.1	105.8	106.2	106.2	104.0	105.3	106.2	104.9	105.3	102.2
47.5°	85.9	84.5	84.5	84.1	84.1	83.2	84.5	84.1	82.8	83.6	80.5
50°	66.8	65.9	65.9	65.9	65.9	64.6	65.1	65.9	64.6	64.6	62.8
52.5°	52.2	50.9	50.0	50.0	50.0	49.6	49.6	50.0	48.7	48.7	48.2
55°	39.4	38.9	37.6	37.6	37.6	36.3	36.7	36.7	36.3	36.3	35.0
57.5°	29.2	27.9	27.0	27.0	26.1	26.1	25.7	26.1	25.2	25.2	24.3
60°	19.5	18.6	18.1	17.7	17.7	17.3	17.7	17.3	17.3	16.8	16.4
62.5°	14.2	13.3	12.4	12.4	12.4	12.0	12.0	12.0	12.0	12.0	11.5
65°	10.2	9.3	9.3	8.8	8.8	8.4	8.4	8.4	8.4	8.4	8.0
67.5°	7.1	6.6	6.2	6.2	6.2	6.2	6.2	6.2	5.8	5.8	5.8
70°	5.3	4.9	4.4	4.4	4.4	4.4	4.4	4.0	4.4	4.4	4.0
72.5°	3.5	3.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.7	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.8	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
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



TEST NUMBER: P858847

CATALOG NUMBER: LX4C05D010 EX4C059050 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	351.8	351.4	350.5	351.8	348.3	347.0	346.5	350.5
5°	356.7	355.8	355.8	357.2	353.2	352.3	351.4	355.8
7.5°	361.1	360.2	360.2	361.6	358.0	357.2	356.3	360.7
10°	363.8	363.8	363.8	364.7	361.6	360.7	360.2	364.7
12.5°	365.1	365.1	364.7	366.4	362.5	362.5	361.6	366.0
15°	363.3	363.3	363.3	364.7	361.1	360.2	360.2	363.8
17.5°	358.9	358.9	358.5	359.8	355.8	355.8	355.4	359.4
20°	352.3	352.3	351.4	353.2	349.2	347.9	347.4	351.4
22.5°	341.7	341.2	340.8	341.7	338.1	337.2	336.8	340.3
25°	327.9	327.5	326.6	327.5	323.5	322.2	322.2	324.8
27.5°	308.5	308.5	307.1	308.5	304.0	303.6	303.1	306.3
30°	284.6	282.8	281.9	283.7	279.3	279.3	278.4	281.5
32.5°	254.9	253.2	252.7	253.6	249.6	248.3	250.0	251.8
35°	220.8	221.3	219.5	219.5	216.0	216.4	216.9	219.5
37.5°	188.1	187.2	186.8	187.2	184.6	183.7	182.8	185.4
40°	157.6	155.3	154.9	154.9	152.7	152.3	152.7	154.0
42.5°	128.8	128.3	126.6	127.5	125.2	126.1	125.7	125.7
45°	104.0	104.4	102.7	104.0	102.2	100.9	100.9	101.8
47.5°	82.3	82.3	81.9	81.9	80.5	81.0	80.1	81.4
50°	63.7	63.7	62.8	63.3	62.4	62.4	62.0	62.4
52.5°	48.7	48.2	48.2	47.8	46.9	47.4	47.8	46.9
55°	35.4	35.8	35.0	35.4	34.5	35.0	34.5	35.0
57.5°	24.3	24.8	23.9	24.8	23.9	24.3	23.9	23.9
60°	16.8	16.8	16.4	16.8	16.4	16.4	15.9	16.8
62.5°	11.5	11.5	11.5	11.5	11.5	11.1	11.5	11.5
65°	8.4	8.0	8.0	8.0	8.0	8.0	8.0	8.0
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0
87.5°	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)