

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: P858787

Luminaire Tested: **LX4C05D010 EX4C059027 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P858787
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 EX4C059027 4LBSWNH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

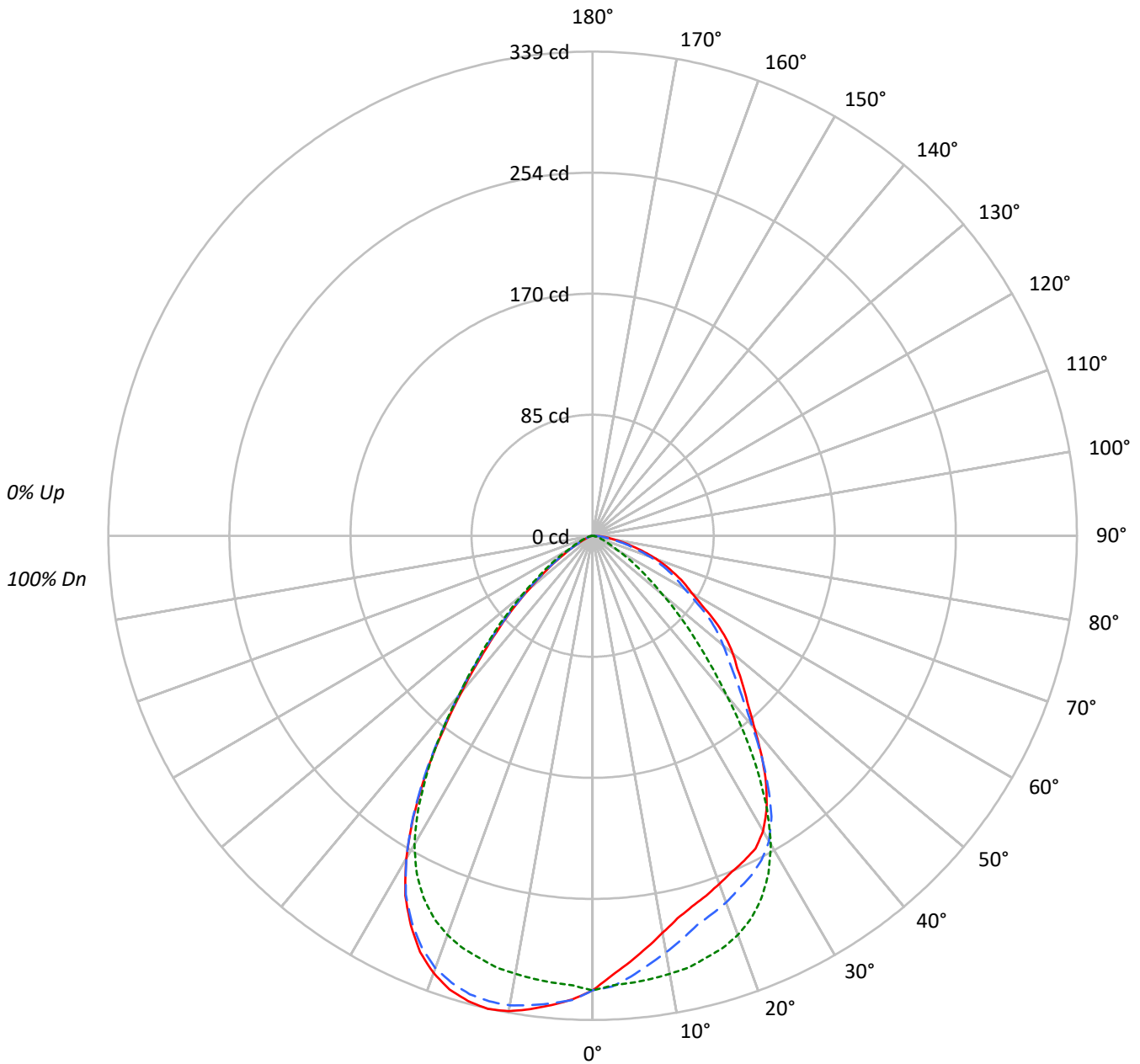
Lumens per Lamp: N/A
Luminaire Lumens: 558.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	39104	39104	39104
5°	36935	38748	40672
10°	35204	38847	42165
15°	34175	38919	42888
20°	33900	38881	42581
25°	34024	37928	40815
30°	33862	35380	37011
35°	31750	30205	30520
40°	28290	23415	22901
45°	25870	17461	16384
50°	24464	12232	11047
55°	22490	8268	6940
60°	19657	4840	3833
65°	18605	3110	2151
70°	16954	2227	1329
75°	14003	1566	997
80°	11037	849	566
85°	9867	564	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	5.4
10°-20°	86.3	15.5
20°-30°	127.9	22.9
30°-40°	128.1	23.0
40°-50°	89.5	16.0
50°-60°	53.3	9.5
60°-70°	27.8	5.0
70°-80°	12.4	2.2
80°-90°	2.7	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°	244.3	43.8
0°-40°	372.4	66.7
0°-60°	515.1	92.3
0°-90°	558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	318	318	318	318	318	
5°	300	310	314	329	330	28
15°	269	282	306	332	337	76
25°	251	262	280	299	301	116
35°	212	214	201	205	204	131
45°	149	142	100	97	94	116
55°	105	98	39	34	32	93
65°	64	59	11	8	7	63
75°	30	26	3	2	2	32
85°	7	5	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°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	308.1	311.8	308.1	309.3	314.2	309.7	312.2	312.2	310.9	313.8	315.9
5°	299.5	303.2	299.5	301.1	306.4	301.9	304.8	304.0	304.4	306.8	309.7
7.5°	290.8	293.7	290.4	292.5	297.4	293.7	296.2	296.2	296.6	300.3	302.7
10°	282.2	284.7	282.2	283.9	289.2	285.9	287.6	288.0	289.2	292.5	296.2
12.5°	274.4	276.5	274.0	276.5	281.0	277.7	279.8	280.2	281.4	285.1	289.2
15°	268.7	270.7	268.3	270.3	274.4	272.0	273.6	274.4	275.3	278.5	282.2
17.5°	264.2	265.8	263.8	266.2	269.5	266.6	269.1	269.1	270.3	273.6	277.7
20°	259.3	260.9	259.3	261.3	265.0	262.5	264.6	264.6	265.8	269.5	273.2
22.5°	254.7	255.6	254.7	256.4	260.1	258.0	259.3	259.7	260.9	264.2	267.5
25°	251.0	252.7	251.9	253.5	256.0	253.9	255.2	255.6	256.8	259.7	262.5
27.5°	246.9	247.8	246.9	249.0	251.0	249.4	250.6	250.2	251.0	253.5	256.0
30°	238.7	239.6	239.6	240.8	242.4	241.6	242.8	241.6	242.4	244.5	246.9
32.5°	226.8	227.3	227.7	228.9	230.1	228.9	229.7	229.7	229.7	231.4	233.0
35°	211.7	212.5	212.1	212.9	214.1	213.7	213.7	213.3	212.5	213.3	214.1
37.5°	194.4	193.2	193.2	194.4	195.3	193.6	194.4	193.6	193.6	194.0	194.0
40°	176.4	175.2	176.4	176.8	177.2	176.4	176.0	175.2	173.9	174.3	173.5
42.5°	161.2	160.4	160.8	160.8	161.2	160.4	160.8	159.2	157.9	157.1	155.9
45°	148.9	147.7	148.9	148.1	148.1	147.7	147.3	146.4	144.8	143.6	141.5
47.5°	137.4	137.4	137.8	137.8	137.8	137.0	137.0	135.4	133.7	132.1	129.2
50°	128.0	127.2	128.8	128.8	127.6	127.2	127.6	125.5	124.3	122.2	119.4
52.5°	117.7	117.7	118.1	118.1	117.7	116.9	117.3	115.7	114.4	112.4	109.5
55°	105.0	104.2	105.4	105.4	105.0	104.6	105.0	103.8	102.6	100.9	98.4
57.5°	90.7	90.2	91.1	91.5	90.7	90.7	91.1	89.8	89.4	87.8	85.3
60°	80.0	79.6	80.4	80.8	80.0	80.0	80.0	78.3	77.5	75.9	74.2
62.5°	72.6	72.2	73.0	72.6	72.2	71.8	72.2	70.6	69.7	68.1	66.5
65°	64.0	64.4	64.8	64.8	64.4	64.0	64.0	63.2	62.4	60.7	58.7
67.5°	55.8	55.8	56.2	56.6	56.2	56.2	56.2	55.0	54.1	52.9	50.5
70°	47.2	46.8	48.0	48.0	47.2	47.6	47.2	46.8	45.9	44.3	42.3
72.5°	38.1	38.1	38.6	38.6	38.1	38.1	38.1	37.7	36.5	35.7	33.6
75°	29.5	29.5	29.9	30.4	29.5	29.5	29.9	29.1	28.3	27.1	25.8
77.5°	22.2	21.7	22.2	22.2	21.7	21.7	21.7	21.3	20.9	19.7	18.5
80°	15.6	15.2	15.6	15.6	15.6	15.2	15.2	14.8	14.8	13.9	12.7
82.5°	10.7	10.3	10.7	10.7	10.7	10.3	10.3	10.3	9.8	9.4	8.6
85°	7.0	6.6	6.6	7.0	6.6	6.6	6.6	6.6	6.2	5.7	5.3
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9	2.9	2.9	2.5
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°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	314.2	313.4	315.9	315.1	315.5	313.4	316.7	315.1	317.1	315.1	319.2
5°	308.9	308.1	311.8	311.4	311.8	310.1	313.8	313.4	315.9	314.2	318.7
7.5°	303.2	302.3	306.4	306.8	307.7	306.0	310.9	310.9	313.4	313.0	317.9
10°	296.6	297.0	301.1	301.9	303.6	302.7	307.3	308.5	311.8	311.4	317.5
12.5°	290.4	290.4	295.8	297.4	298.6	298.2	303.6	305.2	308.9	309.7	315.5
15°	284.3	284.7	289.6	292.1	293.7	293.3	299.1	301.1	305.6	306.0	313.0
17.5°	279.4	278.9	284.3	286.3	288.8	288.4	294.5	297.0	301.5	302.7	309.3
20°	275.3	274.8	279.8	282.2	283.9	283.5	289.6	292.5	296.6	297.4	304.0
22.5°	270.3	269.5	274.4	276.5	278.1	277.7	283.1	285.1	289.2	290.0	296.2
25°	264.6	263.8	268.3	269.5	270.7	269.9	274.4	275.7	278.9	279.8	285.9
27.5°	258.0	256.0	259.7	259.7	260.5	259.3	262.5	263.8	266.6	266.6	272.4
30°	247.8	244.9	246.9	246.5	246.9	245.3	247.4	247.8	249.8	249.4	253.5
32.5°	233.4	229.3	230.5	229.3	228.1	225.6	228.1	227.3	228.9	227.3	230.9
35°	213.7	209.6	209.2	207.6	206.3	204.3	204.3	202.2	202.6	201.4	203.9
37.5°	192.4	187.1	186.2	183.0	180.9	178.4	178.4	176.8	174.7	173.9	176.0
40°	171.5	165.7	163.7	158.3	156.3	153.8	152.2	150.1	149.3	146.0	147.7
42.5°	153.4	147.3	142.8	137.0	135.0	131.3	128.8	126.3	125.1	121.4	123.1
45°	138.2	130.9	125.9	118.5	115.7	111.6	107.9	105.0	102.1	100.5	99.7
47.5°	125.5	117.7	111.2	103.0	98.4	94.8	89.8	87.0	83.3	81.2	80.0
50°	114.9	106.2	98.9	89.4	84.9	80.8	75.1	70.6	67.3	64.0	63.2
52.5°	105.4	96.4	88.2	77.5	72.2	67.3	61.1	56.2	53.3	49.6	49.2
55°	94.3	86.6	77.5	66.5	61.1	56.2	49.6	44.7	41.0	38.6	37.7
57.5°	82.5	75.1	66.5	55.4	50.0	44.7	38.6	34.0	30.8	28.7	28.3
60°	71.4	64.4	56.2	45.1	39.8	35.3	28.7	24.2	21.3	19.7	18.9
62.5°	63.2	56.6	48.8	38.6	33.6	29.1	23.0	18.9	16.4	14.8	13.9
65°	55.4	48.8	41.8	32.4	28.3	24.2	18.5	14.8	12.3	10.7	9.8
67.5°	47.2	41.4	34.9	27.1	23.0	19.7	14.8	11.5	9.4	8.2	7.4
70°	39.0	33.6	28.3	21.7	18.9	15.6	11.5	9.0	7.0	6.2	5.3
72.5°	30.8	26.7	22.2	16.8	14.4	12.3	9.0	6.6	5.3	4.5	3.7
75°	23.0	20.1	16.4	12.7	10.7	9.0	6.6	4.9	4.1	3.3	2.9
77.5°	16.4	13.9	11.5	8.6	7.8	6.6	4.5	3.7	2.9	2.1	1.6
80°	11.1	9.8	7.8	6.2	4.9	4.5	3.3	2.5	1.6	1.2	1.2
82.5°	7.4	6.2	4.9	3.7	3.3	2.9	2.1	1.6	1.2	0.8	0.8
85°	4.5	3.7	2.9	2.1	2.1	1.6	1.2	0.8	0.4	0.4	0.4
87.5°	2.1	1.6	1.2	0.8	0.8	0.4	0.4	0.4	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°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	322.4	320.0	318.3	320.4	321.2	320.0	321.2	323.3	325.3	325.7	320.0
5°	322.8	320.4	319.6	322.0	322.4	322.0	323.3	326.1	328.6	329.4	323.7
7.5°	322.8	321.2	320.8	323.7	324.1	323.7	325.7	329.0	331.5	333.1	327.4
10°	322.0	321.2	321.6	324.1	324.9	324.9	327.8	331.5	333.9	335.6	329.8
12.5°	320.8	320.8	320.8	323.7	324.5	324.9	327.4	332.3	333.9	336.4	330.6
15°	318.7	318.7	318.7	321.6	322.8	322.8	325.7	330.2	332.3	334.7	329.0
17.5°	315.1	315.1	315.5	317.9	319.2	319.2	322.0	326.9	328.2	331.1	325.3
20°	309.7	309.7	310.1	312.6	313.8	313.0	316.7	320.8	322.0	324.5	318.7
22.5°	301.9	301.9	301.9	304.4	305.2	304.8	308.5	312.2	312.2	315.5	309.3
25°	290.4	291.3	290.4	292.9	293.7	293.3	296.6	299.9	299.1	302.7	296.6
27.5°	276.5	276.1	276.1	278.1	278.1	277.7	280.2	283.9	283.1	285.5	279.8
30°	257.2	258.4	256.4	259.3	258.0	257.2	258.8	262.1	260.9	262.9	258.4
32.5°	235.0	233.4	233.4	233.4	234.2	232.2	233.8	235.5	234.2	236.3	231.4
35°	205.9	206.3	205.1	205.5	205.9	203.5	205.1	206.7	205.1	206.3	201.8
37.5°	176.8	177.2	174.3	176.0	174.3	173.5	175.2	176.0	174.3	175.6	170.6
40°	147.7	146.9	146.4	146.4	146.9	144.8	146.0	147.3	146.0	146.9	142.3
42.5°	122.2	121.8	121.0	121.4	120.2	119.8	120.2	121.4	120.2	121.0	117.7
45°	100.1	99.3	98.0	98.4	98.4	96.4	97.6	98.4	97.2	97.6	94.8
47.5°	79.6	78.3	78.3	77.9	77.9	77.1	78.3	77.9	76.7	77.5	74.7
50°	61.9	61.1	61.1	61.1	61.1	59.9	60.3	61.1	59.9	59.9	58.2
52.5°	48.4	47.2	46.4	46.4	46.4	45.9	45.9	46.4	45.1	45.1	44.7
55°	36.5	36.1	34.9	34.9	34.9	33.6	34.0	34.0	33.6	33.6	32.4
57.5°	27.1	25.8	25.0	25.0	24.2	24.2	23.8	24.2	23.4	23.4	22.6
60°	18.0	17.2	16.8	16.4	16.4	16.0	16.4	16.0	16.0	15.6	15.2
62.5°	13.1	12.3	11.5	11.5	11.5	11.1	11.1	11.1	11.1	11.1	10.7
65°	9.4	8.6	8.6	8.2	8.2	7.8	7.8	7.8	7.8	7.8	7.4
67.5°	6.6	6.2	5.7	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.3
70°	4.9	4.5	4.1	4.1	4.1	4.1	4.1	3.7	4.1	4.1	3.7
72.5°	3.3	3.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.5	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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: P858787

CATALOG NUMBER: LX4C05D010 EX4C059027 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	326.1	325.7	324.9	326.1	322.8	321.6	321.2	324.9
5°	330.6	329.8	329.8	331.1	327.4	326.5	325.7	329.8
7.5°	334.7	333.9	333.9	335.2	331.9	331.1	330.2	334.3
10°	337.2	337.2	337.2	338.0	335.2	334.3	333.9	338.0
12.5°	338.4	338.4	338.0	339.7	336.0	336.0	335.2	339.3
15°	336.8	336.8	336.8	338.0	334.7	333.9	333.9	337.2
17.5°	332.7	332.7	332.3	333.5	329.8	329.8	329.4	333.1
20°	326.5	326.5	325.7	327.4	323.7	322.4	322.0	325.7
22.5°	316.7	316.3	315.9	316.7	313.4	312.6	312.2	315.5
25°	304.0	303.6	302.7	303.6	299.9	298.6	298.6	301.1
27.5°	285.9	285.9	284.7	285.9	281.8	281.4	281.0	283.9
30°	263.8	262.1	261.3	262.9	258.8	258.8	258.0	260.9
32.5°	236.3	234.6	234.2	235.0	231.4	230.1	231.8	233.4
35°	204.7	205.1	203.5	203.5	200.2	200.6	201.0	203.5
37.5°	174.3	173.5	173.1	173.5	171.1	170.2	169.4	171.9
40°	146.0	144.0	143.6	143.6	141.5	141.1	141.5	142.8
42.5°	119.4	119.0	117.3	118.1	116.1	116.9	116.5	116.5
45°	96.4	96.8	95.2	96.4	94.8	93.5	93.5	94.3
47.5°	76.3	76.3	75.9	75.9	74.7	75.1	74.2	75.5
50°	59.1	59.1	58.2	58.7	57.8	57.8	57.4	57.8
52.5°	45.1	44.7	44.7	44.3	43.5	43.9	44.3	43.5
55°	32.8	33.2	32.4	32.8	32.0	32.4	32.0	32.4
57.5°	22.6	23.0	22.2	23.0	22.2	22.6	22.2	22.2
60°	15.6	15.6	15.2	15.6	15.2	15.2	14.8	15.6
62.5°	10.7	10.7	10.7	10.7	10.7	10.3	10.7	10.7
65°	7.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4
67.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.0	0.4	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)