

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: P859718

Luminaire Tested: **LX4C08D010 EX4C089050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C08D010 EX4C089050 4LBLWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND
4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

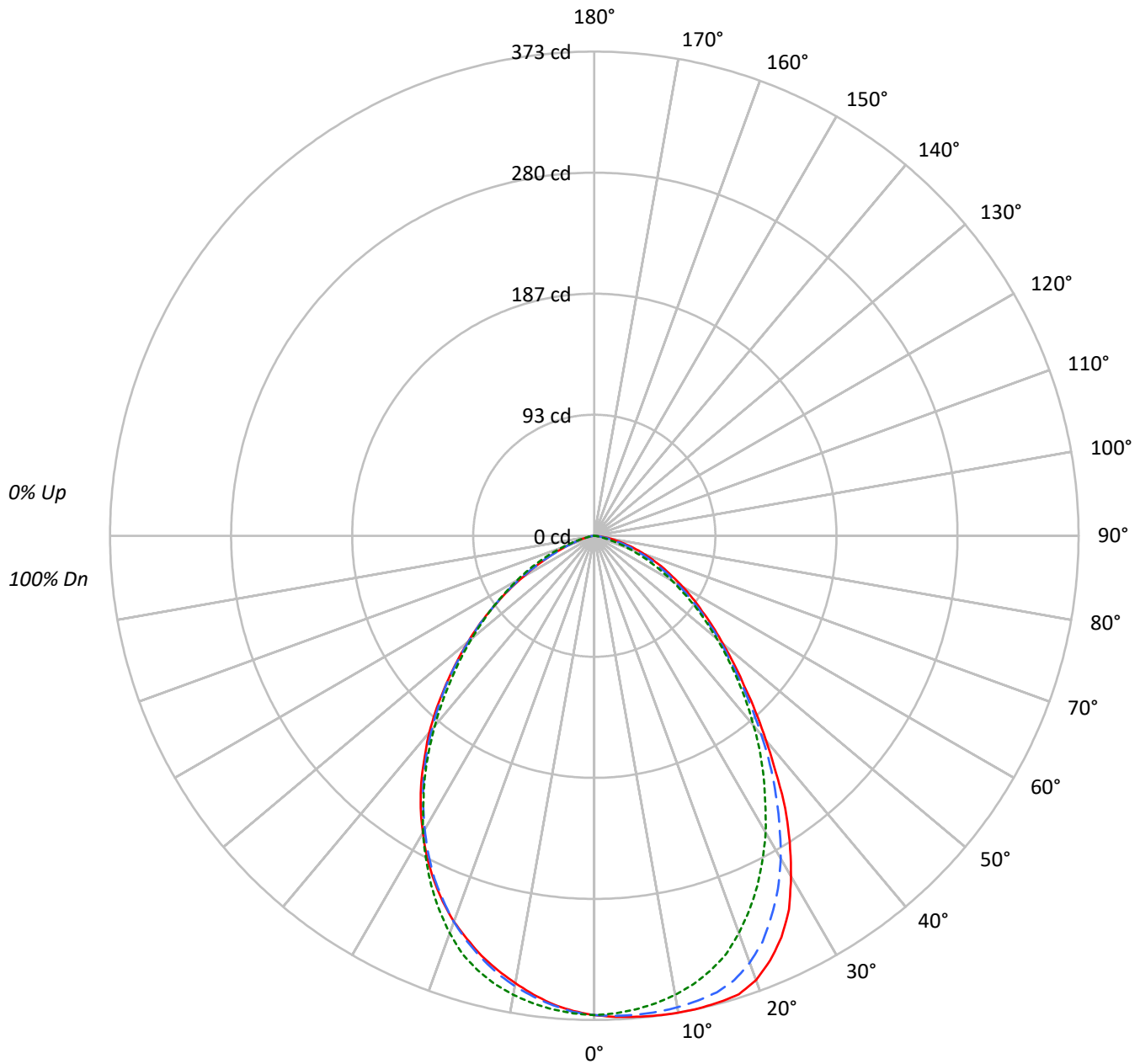
Lumens per Lamp: N/A
Luminaire Lumens: 696.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (Ain): 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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45370	45370	45370
5°	45876	45173	44692
10°	46544	44797	43662
15°	47314	44083	42620
20°	47615	42581	41352
25°	46251	40287	39663
30°	42983	37437	37465
35°	38469	34135	34855
40°	32941	30599	31706
45°	28355	26982	27990
50°	24655	23489	24197
55°	21697	20198	20027
60°	19313	16855	15529
65°	16919	13488	11221
70°	14548	9555	7615
75°	11819	5506	4462
80°	8419	2405	2193
85°	3242	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	5.0
10°-20°	98.5	14.2
20°-30°	140.7	20.2
30°-40°	147.2	21.1
40°-50°	123.3	17.7
50°-60°	86.3	12.4
60°-70°	47.0	6.8
70°-80°	16.3	2.3
80°-90°	1.9	0.3
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°	274.0	39.4
0°-40°	421.2	60.5
0°-60°	630.8	90.6
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	369	369	369	369	369	
5°	372	370	366	363	362	36
15°	372	364	347	337	335	105
25°	341	323	297	291	293	156
35°	256	244	228	229	232	159
45°	163	160	155	160	161	127
55°	101	98	94	94	94	92
65°	58	53	46	39	39	58
75°	25	20	12	9	9	27
85°	2	1	1	1	1	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°	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3
2.5°	371.0	370.6	370.7	370.7	370.7	370.6	370.7	370.6	370.6	370.5	370.2
5°	372.0	371.7	371.7	371.7	371.6	371.4	371.4	371.3	371.0	370.9	370.3
7.5°	372.7	372.4	372.4	372.3	372.2	372.0	371.9	371.4	371.0	370.7	370.0
10°	373.1	372.7	372.7	372.4	372.2	372.0	371.7	371.2	370.6	369.9	368.9
12.5°	372.9	372.4	372.3	372.0	371.4	371.2	370.9	370.2	369.2	368.2	366.9
15°	372.0	371.7	371.4	371.0	370.3	369.9	369.6	368.5	367.2	365.8	364.2
17.5°	370.3	369.9	369.3	368.7	367.8	367.3	366.6	365.2	363.3	361.4	358.9
20°	364.2	363.9	363.3	362.4	360.8	360.2	359.2	357.4	355.0	352.6	350.0
22.5°	354.1	353.7	352.8	352.0	350.6	349.6	348.7	346.2	343.5	340.9	338.5
25°	341.2	340.8	339.6	338.5	337.1	335.4	334.5	332.5	329.8	326.6	323.0
27.5°	324.6	323.2	322.7	321.4	319.3	318.7	317.5	314.9	312.4	309.5	306.5
30°	303.0	303.0	302.1	301.6	299.6	299.0	297.6	294.9	293.5	289.5	287.2
32.5°	280.1	279.8	279.1	278.7	277.6	276.6	275.1	273.7	270.6	268.6	265.5
35°	256.5	254.8	255.1	254.3	253.5	252.4	252.3	250.7	247.9	246.7	243.9
37.5°	229.7	229.0	230.0	228.7	228.0	228.1	227.0	226.0	224.9	222.9	222.3
40°	205.4	206.0	205.8	204.7	205.3	204.5	203.4	202.4	201.8	200.6	200.1
42.5°	183.7	182.8	182.5	182.5	182.7	182.7	182.1	181.4	181.4	180.1	178.8
45°	163.2	163.2	162.9	163.8	162.5	162.5	162.1	161.9	161.4	161.1	159.5
47.5°	145.6	145.5	145.3	145.2	145.0	145.0	144.2	143.5	143.3	142.5	141.6
50°	129.0	129.8	129.5	128.8	128.5	128.7	128.1	127.7	127.6	126.1	126.3
52.5°	115.1	114.9	115.2	114.8	114.1	114.2	113.6	113.1	112.5	111.8	111.2
55°	101.3	102.0	101.7	101.3	101.1	100.9	100.4	99.7	99.6	98.0	97.9
57.5°	89.8	89.6	89.3	88.6	88.5	88.1	88.1	87.5	86.6	85.8	85.1
60°	78.6	78.6	78.1	78.0	77.4	77.3	77.1	76.6	75.6	74.9	73.7
62.5°	67.8	68.0	67.8	67.3	66.9	66.3	66.1	65.6	64.8	64.1	63.1
65°	58.2	58.1	58.0	57.4	57.2	56.7	56.5	55.7	54.8	54.3	53.1
67.5°	49.1	48.7	48.7	48.4	48.2	47.7	47.4	46.6	45.6	45.0	43.9
70°	40.5	40.2	40.2	40.2	39.5	39.1	38.9	38.5	37.1	36.5	35.4
72.5°	32.5	32.4	32.2	31.8	31.4	31.4	30.8	30.0	29.3	28.6	27.7
75°	24.9	25.1	24.9	24.3	24.1	23.9	23.4	22.7	22.0	21.2	20.2
77.5°	18.2	17.9	17.6	17.6	17.3	16.8	16.6	16.1	15.2	14.6	13.6
80°	11.9	11.8	11.5	11.2	11.1	10.9	10.8	10.2	9.4	8.9	8.1
82.5°	6.5	6.4	6.4	6.2	5.8	5.8	5.7	5.1	4.7	4.4	4.0
85°	2.3	2.3	2.3	2.1	2.1	2.1	2.0	1.8	1.7	1.6	1.3
87.5°	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
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°	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3
2.5°	369.9	369.6	369.5	369.3	369.2	369.0	368.9	368.6	368.5	368.3	368.0
5°	369.9	369.3	369.0	368.6	368.3	368.0	367.6	367.2	366.8	366.3	365.9
7.5°	369.3	368.5	367.9	367.0	366.8	366.3	365.5	364.9	364.2	363.3	362.4
10°	367.9	366.9	365.8	364.6	364.2	363.5	362.4	361.4	360.2	359.1	358.1
12.5°	365.6	364.1	362.6	361.1	360.2	359.5	358.0	356.5	355.1	353.8	352.1
15°	362.2	360.4	358.5	356.4	355.4	354.5	352.3	350.6	348.3	346.6	344.9
17.5°	356.7	353.8	351.6	348.9	347.4	346.4	344.5	341.8	339.6	337.8	335.8
20°	347.2	344.5	341.3	338.3	336.8	335.5	332.7	329.8	327.7	325.7	323.6
22.5°	334.7	331.2	329.0	325.3	324.0	322.4	319.0	316.5	314.1	312.1	310.1
25°	319.5	316.5	313.3	309.9	308.4	306.5	303.7	301.0	299.4	297.2	294.7
27.5°	302.0	299.6	295.7	292.8	291.2	289.8	287.1	284.7	282.4	280.8	278.5
30°	283.5	280.7	277.3	274.1	273.3	271.6	269.2	267.3	264.9	263.9	262.9
32.5°	263.2	259.9	257.4	255.4	253.7	252.3	251.0	248.0	247.6	245.0	244.7
35°	241.0	239.6	237.2	235.5	234.1	233.1	231.0	229.5	228.0	227.6	226.6
37.5°	220.2	218.5	216.2	214.6	213.6	213.5	211.9	211.1	209.9	209.4	208.2
40°	198.3	197.6	195.6	195.3	193.7	193.6	192.8	191.8	190.8	190.8	190.9
42.5°	178.1	177.3	176.4	175.4	174.6	174.6	174.1	173.9	173.6	173.2	173.9
45°	159.2	158.1	157.5	156.5	157.0	156.1	155.8	155.8	155.4	155.3	156.2
47.5°	141.6	140.3	139.8	139.5	139.5	139.6	138.4	138.8	138.6	138.9	139.3
50°	125.6	124.4	123.6	123.6	123.7	123.2	122.6	123.0	122.6	122.9	123.9
52.5°	110.7	109.5	109.1	109.1	108.2	108.1	108.4	107.8	108.0	108.1	108.7
55°	96.9	96.2	95.5	94.7	94.9	94.6	94.0	93.9	94.2	94.3	95.0
57.5°	84.5	83.5	82.5	82.2	82.0	82.0	81.2	81.1	81.4	80.7	80.7
60°	72.7	72.2	70.9	70.5	70.5	69.7	69.2	69.5	68.7	68.6	68.7
62.5°	61.8	61.4	60.5	59.7	59.4	59.1	58.4	58.1	57.8	57.2	56.4
65°	52.3	51.3	50.3	49.7	49.3	48.6	48.2	47.6	46.7	46.4	45.6
67.5°	42.8	41.8	40.8	40.3	39.9	39.5	38.8	38.1	37.1	35.9	34.9
70°	34.4	33.1	32.5	31.4	31.1	30.5	29.5	28.8	27.8	26.6	25.6
72.5°	26.3	25.4	24.6	23.6	22.9	22.4	21.6	20.5	19.3	18.6	17.6
75°	18.9	18.5	17.3	16.2	15.9	15.3	14.3	13.6	12.8	11.6	10.8
77.5°	12.8	11.9	11.2	10.2	9.9	9.4	8.8	8.1	7.5	6.8	6.2
80°	7.5	6.8	6.4	5.7	5.4	5.1	4.7	4.1	3.7	3.4	3.3
82.5°	3.7	3.1	3.0	2.6	2.4	2.3	2.0	1.8	1.6	1.6	1.6
85°	1.3	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
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°	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3
2.5°	367.9	367.8	367.6	367.5	367.5	367.3	367.3	367.2	367.2	367.0	367.0
5°	365.3	364.9	364.6	364.3	364.3	363.9	363.6	363.3	363.2	363.2	362.9
7.5°	361.8	361.2	360.6	360.2	360.1	359.4	358.8	358.8	358.2	358.0	357.7
10°	357.1	356.1	355.3	354.8	354.3	353.8	353.1	352.7	352.3	351.6	351.4
12.5°	350.7	350.0	348.7	348.1	347.9	347.0	345.9	345.3	345.2	344.6	344.2
15°	343.5	341.9	340.8	340.1	340.1	338.6	338.1	337.2	336.6	336.2	336.1
17.5°	334.1	332.5	331.4	330.4	330.1	329.0	328.1	327.8	327.1	327.4	326.7
20°	322.0	320.7	319.9	318.6	318.6	317.9	317.6	316.9	316.6	316.3	316.6
22.5°	309.1	307.5	306.1	306.0	306.0	305.0	304.8	304.7	304.1	304.5	304.4
25°	293.9	292.8	291.9	291.8	291.8	291.2	290.6	290.9	291.3	291.2	291.6
27.5°	278.1	277.0	276.7	276.6	276.3	276.1	276.4	276.4	276.8	277.4	278.0
30°	261.1	260.8	260.4	260.2	259.9	260.7	260.9	261.4	261.2	262.1	262.6
32.5°	244.0	243.5	243.3	243.6	244.0	243.9	244.7	245.0	245.3	246.3	246.7
35°	226.8	226.7	226.4	226.4	226.6	227.7	227.7	228.7	229.3	229.5	230.7
37.5°	208.4	208.9	209.2	209.7	209.8	210.2	210.5	211.5	212.1	212.6	213.2
40°	191.5	191.2	192.5	191.6	191.9	193.2	193.7	193.6	194.5	195.3	195.9
42.5°	173.4	173.9	174.1	174.4	175.1	175.3	176.0	177.0	177.3	178.3	178.5
45°	156.0	156.1	156.7	157.2	157.7	158.8	159.1	159.5	160.4	160.4	160.8
47.5°	139.5	140.1	140.1	140.9	141.6	141.5	142.5	142.8	142.6	143.3	143.6
50°	123.7	124.6	124.4	125.0	125.3	125.4	126.3	126.6	126.0	126.7	126.8
52.5°	108.7	109.1	109.7	109.8	109.5	110.2	109.9	110.5	110.4	110.9	110.4
55°	94.9	94.7	94.7	95.0	94.7	95.0	95.3	94.7	94.3	94.9	94.7
57.5°	81.1	81.1	80.8	81.2	80.8	80.4	80.3	79.8	79.4	79.4	79.3
60°	68.2	67.9	67.3	67.2	67.2	66.5	66.2	65.6	65.6	65.1	64.5
62.5°	56.1	55.4	55.0	55.0	54.7	54.0	52.7	51.8	51.6	50.7	50.6
65°	44.7	44.0	43.6	42.8	42.0	41.8	40.5	39.5	39.1	38.2	38.4
67.5°	34.4	33.2	32.0	31.4	31.0	30.0	29.5	28.8	28.4	28.4	28.4
70°	24.7	23.7	22.4	22.0	21.7	20.9	20.5	20.3	20.7	20.6	20.7
72.5°	16.6	15.6	15.1	14.8	14.5	14.1	14.3	14.5	14.2	14.3	14.5
75°	10.1	9.8	9.4	9.2	9.2	9.4	9.2	9.2	9.4	9.4	9.5
77.5°	5.8	5.5	5.5	5.4	5.7	5.5	5.5	5.5	5.7	5.7	5.7
80°	3.1	3.1	3.1	3.1	3.3	3.1	3.3	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
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: P859718

CATALOG NUMBER: LX4C08D010 EX4C089050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	369.3	369.3	369.3	369.3	369.3	369.3	369.3	369.3
2.5°	366.8	366.8	366.8	366.5	366.6	366.6	366.5	366.5
5°	362.8	362.6	362.4	362.4	362.1	362.4	362.2	362.4
7.5°	357.4	357.4	357.0	357.0	356.8	356.7	356.5	356.7
10°	351.0	351.0	350.7	350.6	350.7	350.1	350.1	350.0
12.5°	343.9	343.6	343.3	343.5	343.3	342.9	342.8	342.9
15°	335.7	335.2	335.4	334.9	334.9	334.8	335.1	335.1
17.5°	326.6	326.3	326.0	326.1	325.8	326.0	325.8	325.7
20°	316.5	316.3	316.3	315.8	315.9	315.8	315.9	316.3
22.5°	304.8	304.7	304.8	304.4	304.7	304.7	305.1	305.1
25°	292.0	291.9	292.2	292.3	292.5	292.9	292.5	292.6
27.5°	277.8	278.3	278.7	278.8	279.4	279.0	278.7	279.1
30°	263.5	263.5	263.3	263.9	264.3	264.8	264.1	264.1
32.5°	247.0	247.7	247.7	247.9	248.3	248.3	248.3	248.9
35°	231.2	231.7	231.8	231.2	231.5	231.4	232.4	232.4
37.5°	213.6	213.6	213.8	214.8	214.8	214.3	214.6	214.6
40°	196.9	197.0	196.4	196.7	197.4	197.2	197.4	197.7
42.5°	178.5	179.5	179.0	179.3	179.1	179.3	179.4	179.4
45°	161.1	161.4	161.4	161.5	161.8	162.1	161.2	161.1
47.5°	144.0	144.2	144.6	143.9	144.7	143.9	144.7	143.7
50°	126.8	127.4	127.0	127.3	126.8	126.8	126.7	126.6
52.5°	110.5	110.4	110.4	110.2	110.2	110.5	110.2	110.7
55°	94.2	94.3	94.0	93.9	93.7	94.2	93.7	93.5
57.5°	78.7	79.0	78.4	78.7	77.7	78.1	78.3	78.4
60°	64.3	63.9	63.9	63.4	63.4	63.8	63.2	63.2
62.5°	49.9	50.1	49.7	50.3	50.3	50.9	50.6	50.9
65°	38.2	38.4	38.5	38.5	38.5	39.3	39.1	38.6
67.5°	28.8	29.0	29.1	29.0	29.4	29.1	29.1	29.3
70°	20.9	21.0	21.2	21.2	21.0	21.2	21.2	21.2
72.5°	14.5	14.6	14.5	14.6	14.8	14.6	14.6	14.8
75°	9.5	9.5	9.4	9.4	9.4	9.4	9.5	9.4
77.5°	5.5	5.7	5.5	5.7	5.7	5.7	5.7	5.7
80°	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.1
82.5°	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)