

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: P563960

Luminaire Tested: **LX6C05D010 EX6C059030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C05D010 EX6C059030 6LCSWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

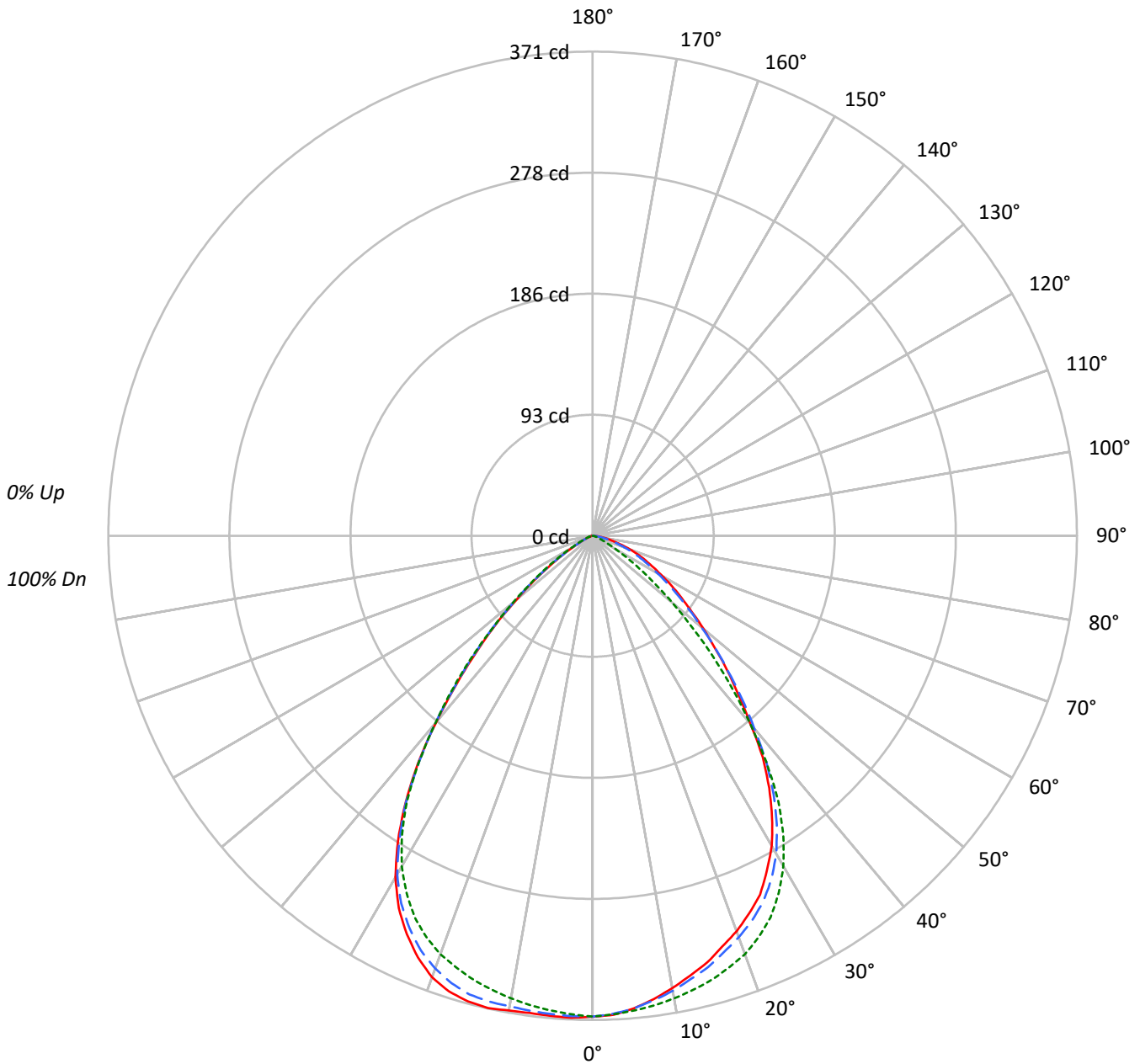
Lumens per Lamp: N/A
Luminaire Lumens: 618.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20196	20196	20196
5°	20003	20097	20322
10°	19589	20034	20557
15°	19217	19994	20959
20°	18814	19905	20996
25°	18352	19507	20372
30°	17376	18503	19123
35°	15780	16584	16731
40°	13468	13404	13339
45°	11311	10040	9730
50°	9450	6789	6448
55°	7952	4167	3785
60°	6732	2193	1897
65°	5824	1154	921
70°	4841	721	497
75°	3580	466	275
80°	2810	284	158
85°	2264	314	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	5.6
10°-20°	99.4	16.1
20°-30°	146.8	23.8
30°-40°	151.3	24.5
40°-50°	104.5	16.9
50°-60°	51.5	8.3
60°-70°	20.9	3.4
70°-80°	7.4	1.2
80°-90°	1.6	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°	280.9	45.5
0°-40°	432.2	69.9
0°-60°	588.1	95.2
0°-90°	618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	368	368	368	368	368	
5°	364	364	365	368	369	34
15°	339	342	352	364	369	95
25°	303	309	322	332	337	139
35°	236	242	248	249	250	146
45°	146	147	130	128	126	113
55°	83	80	44	41	40	75
65°	45	40	9	7	7	45
75°	17	14	2	1	1	19
85°	4	3	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°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	367.5	366.1	367.0	365.2	367.5	365.2	365.7	366.1	365.7	366.1	366.6
5°	363.5	362.1	363.5	361.2	363.5	362.1	362.1	362.6	362.6	363.0	363.5
7.5°	358.1	356.8	358.1	355.9	358.6	357.2	357.2	358.1	357.7	358.1	359.0
10°	351.9	350.1	351.5	350.1	352.8	351.0	351.9	351.9	351.9	353.2	354.1
12.5°	345.2	343.4	345.2	343.0	345.7	344.3	344.8	346.1	346.6	347.5	347.9
15°	338.6	336.3	337.2	335.9	338.6	337.2	337.7	339.4	339.4	340.8	342.1
17.5°	330.1	328.3	330.1	328.3	330.5	329.7	330.5	331.9	331.9	333.2	334.5
20°	322.5	320.8	322.1	320.8	323.4	322.1	322.5	324.3	324.8	326.1	327.4
22.5°	313.2	311.9	312.7	311.4	314.1	313.2	313.6	315.4	315.9	316.8	319.0
25°	303.4	300.7	302.1	301.2	303.9	302.5	303.4	305.2	306.1	307.4	309.2
27.5°	289.2	287.8	288.7	288.7	290.9	289.6	290.1	291.9	293.2	294.5	296.7
30°	274.5	272.3	273.2	273.6	275.4	274.5	275.4	277.2	277.6	279.4	281.2
32.5°	255.8	254.9	256.7	255.8	256.7	256.7	257.1	258.5	259.4	260.3	262.5
35°	235.8	234.0	235.8	234.9	237.1	235.8	237.1	238.5	238.5	240.2	241.6
37.5°	214.0	211.8	212.7	212.7	213.5	213.1	213.1	215.3	215.8	217.1	218.4
40°	188.2	187.3	189.1	188.6	189.1	189.1	189.5	190.9	191.7	192.2	192.6
42.5°	165.1	165.5	165.9	165.9	165.9	165.9	165.9	167.7	167.3	168.6	169.1
45°	145.9	144.1	145.0	144.6	145.9	144.6	145.9	147.3	146.4	147.7	146.8
47.5°	126.3	126.3	126.3	125.9	126.8	126.3	127.2	127.7	127.7	127.7	127.2
50°	110.8	109.4	109.9	109.9	110.3	109.9	110.8	111.2	111.2	110.3	108.6
52.5°	95.6	95.2	95.2	96.1	96.1	95.6	95.6	95.6	95.6	94.3	93.4
55°	83.2	82.3	82.7	82.7	82.7	82.7	83.2	82.7	82.7	81.4	80.1
57.5°	72.1	71.2	71.2	71.2	71.6	71.2	71.2	71.2	70.7	69.4	67.6
60°	61.4	60.9	61.4	61.4	61.8	61.4	61.4	61.4	60.5	59.2	57.4
62.5°	52.5	52.5	52.5	52.9	52.9	52.5	52.5	52.0	51.6	49.8	48.0
65°	44.9	44.5	44.9	44.9	45.4	45.4	44.9	44.5	44.0	42.3	40.5
67.5°	37.4	36.9	37.4	37.4	37.8	37.4	37.4	37.4	36.0	35.1	33.4
70°	30.2	29.8	29.8	29.8	30.2	29.4	29.8	29.8	28.9	27.6	25.8
72.5°	23.1	23.1	23.1	23.1	23.1	23.1	22.7	22.7	21.8	20.5	19.6
75°	16.9	16.9	17.3	17.3	16.9	16.9	16.9	16.5	16.0	15.1	14.2
77.5°	12.5	12.5	12.5	12.5	12.0	12.0	12.0	11.6	11.1	10.7	9.8
80°	8.9	8.9	8.9	8.4	8.9	8.4	8.4	8.4	7.6	7.1	6.7
82.5°	6.2	5.8	5.8	5.8	5.8	5.8	5.8	5.3	5.3	4.9	4.5
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.7	2.7
87.5°	1.8	2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.3
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°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	366.6	366.6	367.5	366.1	368.4	367.0	366.6	368.8	367.5	367.0	367.9
5°	363.5	363.9	364.4	363.5	365.7	364.4	364.4	366.6	365.7	365.2	366.6
7.5°	359.5	359.9	360.8	360.4	362.1	361.2	361.7	363.9	363.0	363.0	364.4
10°	354.6	355.5	356.4	356.4	358.6	357.7	357.7	360.4	359.5	359.9	361.7
12.5°	348.8	350.1	351.5	351.9	354.1	352.8	353.2	356.4	355.9	356.4	358.1
15°	342.6	344.3	345.7	345.7	348.3	347.0	348.3	351.5	350.6	352.3	354.6
17.5°	335.4	337.2	339.0	339.4	342.1	341.2	343.0	346.1	346.1	347.0	349.7
20°	328.8	331.0	331.9	333.2	335.9	335.4	336.3	339.9	339.9	341.2	343.9
22.5°	319.9	322.1	323.9	325.2	327.4	327.4	328.8	331.9	331.9	332.8	335.4
25°	310.1	312.7	314.1	315.4	317.6	317.2	318.5	321.2	321.6	322.5	325.2
27.5°	297.6	299.8	301.6	302.5	305.6	303.9	305.2	308.3	307.9	308.7	311.0
30°	282.1	284.3	286.1	286.1	288.7	288.7	290.1	291.4	291.4	292.3	294.1
32.5°	263.8	266.5	266.5	267.8	269.6	267.8	269.6	271.4	270.5	271.8	273.2
35°	242.9	244.2	244.7	244.7	246.0	245.6	245.1	246.5	245.6	247.8	249.1
37.5°	217.6	219.3	218.4	219.3	218.9	217.6	217.6	219.8	218.0	218.4	219.8
40°	193.1	193.1	192.6	190.4	190.9	189.5	189.1	189.5	187.7	187.3	189.1
42.5°	167.7	167.3	165.9	162.8	163.3	161.0	159.3	159.3	158.4	157.9	158.4
45°	145.0	143.7	141.5	137.9	137.0	135.2	131.7	130.8	129.5	129.5	129.9
47.5°	124.1	122.3	118.8	114.8	112.6	110.3	106.8	105.4	103.2	102.3	103.2
50°	106.8	103.7	99.2	93.4	91.2	88.5	85.0	82.7	80.5	79.6	79.2
52.5°	90.8	86.3	81.9	74.7	73.0	70.3	65.4	63.2	60.9	59.2	59.2
55°	77.0	73.0	66.7	60.1	57.4	54.7	49.8	46.7	44.5	43.6	42.7
57.5°	64.5	60.1	54.3	47.2	44.5	41.8	36.9	33.8	31.6	30.2	29.4
60°	54.3	49.4	43.6	37.4	34.3	31.6	26.7	23.6	21.3	20.0	19.1
62.5°	44.5	40.5	34.7	28.9	26.2	23.6	19.6	16.5	14.2	13.4	12.0
65°	37.4	33.4	28.0	23.1	20.9	18.2	14.7	12.0	10.2	8.9	8.0
67.5°	30.2	27.1	22.7	18.2	16.0	14.2	11.1	8.9	7.1	6.2	5.8
70°	24.0	20.9	17.3	13.8	12.5	10.7	8.4	6.2	5.3	4.5	4.0
72.5°	17.8	15.6	12.9	10.2	8.9	8.0	5.8	4.9	3.6	3.1	2.7
75°	12.9	11.1	9.3	7.1	6.2	5.8	4.5	3.1	2.7	2.2	1.8
77.5°	8.9	8.0	6.2	4.9	4.5	4.0	3.1	2.2	1.8	1.3	1.3
80°	5.8	4.9	4.0	3.1	3.1	2.7	1.8	1.3	1.3	0.9	0.9
82.5°	3.6	3.1	2.7	2.2	1.8	1.8	1.3	0.9	0.9	0.5	0.5
85°	2.2	1.8	1.3	1.3	0.9	0.9	0.9	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	367.9	367.9	368.8	367.5	368.4	368.4	369.3	367.5	368.4	368.8	369.7
5°	366.1	366.6	367.5	367.0	367.5	367.5	368.4	366.1	367.9	367.9	369.3
7.5°	364.4	364.4	365.2	364.8	365.7	366.1	367.0	365.2	367.0	367.0	368.4
10°	362.1	362.1	363.5	363.0	364.4	364.8	366.1	364.4	366.1	366.6	367.9
12.5°	359.0	359.5	360.8	360.8	362.1	363.0	364.4	363.5	365.7	366.1	367.9
15°	355.5	356.4	358.1	357.7	359.0	360.4	362.1	360.8	363.9	364.8	366.6
17.5°	351.0	351.9	353.2	353.2	354.6	355.5	357.7	356.8	359.5	359.9	362.1
20°	344.3	345.7	347.5	347.0	348.3	349.2	351.0	350.1	352.8	353.7	355.9
22.5°	336.3	337.2	338.6	338.6	339.9	340.8	342.6	341.2	343.9	344.3	346.1
25°	325.7	326.5	327.4	327.9	329.2	329.7	330.5	329.7	331.9	332.3	334.5
27.5°	311.9	312.3	313.6	313.6	314.5	315.0	316.3	314.5	317.6	317.6	319.0
30°	295.4	295.0	296.7	295.8	296.7	296.7	298.1	297.2	299.4	298.5	299.8
32.5°	273.6	274.5	274.5	273.6	275.4	274.9	274.9	274.1	275.4	275.8	276.7
35°	248.3	249.6	249.6	250.0	250.5	249.1	249.6	246.9	249.1	249.6	250.0
37.5°	220.7	219.3	220.2	218.9	221.1	218.4	218.4	216.7	218.4	218.4	218.9
40°	189.1	188.6	189.5	188.6	188.2	187.7	186.9	185.5	187.3	186.4	187.7
42.5°	159.3	158.8	158.8	157.9	157.5	157.5	156.6	155.7	155.3	155.3	157.5
45°	128.6	129.5	128.6	128.1	129.0	128.1	128.6	126.8	127.7	126.8	127.7
47.5°	102.8	103.2	102.3	101.4	102.8	101.4	101.4	100.1	101.9	101.9	101.0
50°	79.6	79.2	78.3	79.2	78.7	78.7	78.7	77.4	78.3	77.0	77.9
52.5°	58.7	58.3	58.3	57.8	58.3	57.8	57.8	57.4	57.4	56.9	57.4
55°	42.7	42.3	41.4	41.4	41.4	41.8	41.4	40.9	40.9	40.5	40.9
57.5°	28.9	28.0	28.0	28.0	28.0	27.6	27.6	27.1	27.6	27.1	27.6
60°	18.7	18.7	17.8	17.8	17.8	17.8	17.8	17.3	17.8	17.8	17.8
62.5°	11.6	11.6	11.1	10.7	11.1	10.7	10.7	10.7	11.1	10.7	11.1
65°	7.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	5.3	4.9	4.9	4.9	4.9	4.9	4.9	4.5	4.9	4.9	4.9
70°	3.6	3.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P563960

CATALOG NUMBER: LX6C05D010 EX6C059030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	368.4	368.8	367.9	368.4	367.5	368.4	368.8	369.7
5°	367.5	367.9	367.0	367.9	367.0	367.9	368.4	369.3
7.5°	366.6	367.5	366.6	367.5	366.6	367.5	367.9	368.8
10°	366.6	367.9	367.0	368.4	367.0	367.9	368.8	369.3
12.5°	366.6	367.9	367.5	368.4	367.9	368.8	369.7	370.6
15°	365.7	367.0	366.1	367.5	367.0	367.5	369.3	369.3
17.5°	360.8	362.1	362.1	363.0	363.0	364.4	365.2	366.1
20°	354.6	355.9	355.5	356.8	356.8	358.1	359.0	359.9
22.5°	345.2	347.0	346.6	347.9	347.5	348.3	350.1	349.7
25°	333.2	335.4	335.0	335.9	335.4	335.4	336.3	336.8
27.5°	318.5	319.9	319.4	320.3	319.4	320.3	321.2	321.6
30°	299.4	300.3	299.8	300.3	299.8	300.7	301.2	302.1
32.5°	276.3	277.6	276.3	277.2	276.7	276.7	278.5	277.6
35°	248.7	249.1	249.6	249.6	248.7	249.1	250.0	250.0
37.5°	218.0	220.2	217.6	218.9	218.4	218.4	218.4	219.8
40°	186.0	186.4	185.5	185.5	185.5	185.1	186.9	186.4
42.5°	155.7	156.2	155.7	154.4	154.8	154.8	156.2	154.4
45°	126.3	127.2	126.8	126.8	125.9	125.9	126.3	125.5
47.5°	100.1	101.0	99.7	100.1	99.2	100.1	99.7	100.5
50°	76.1	77.0	76.5	77.0	77.0	76.1	77.4	75.6
52.5°	56.9	57.4	56.9	56.5	56.1	56.1	56.9	56.5
55°	40.5	40.0	40.0	40.0	40.5	40.5	40.0	39.6
57.5°	27.1	27.1	26.7	26.7	27.1	26.2	26.7	26.2
60°	17.3	17.3	17.3	17.3	16.9	17.3	17.3	17.3
62.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	4.5	4.9	4.9	4.9	4.5	4.5	4.5	4.5
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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



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













(END OF REPORT)