

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: P684360

Luminaire Tested: **LX6C05D010 EX6C059050 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684360
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 EX6C059050 6LCSWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

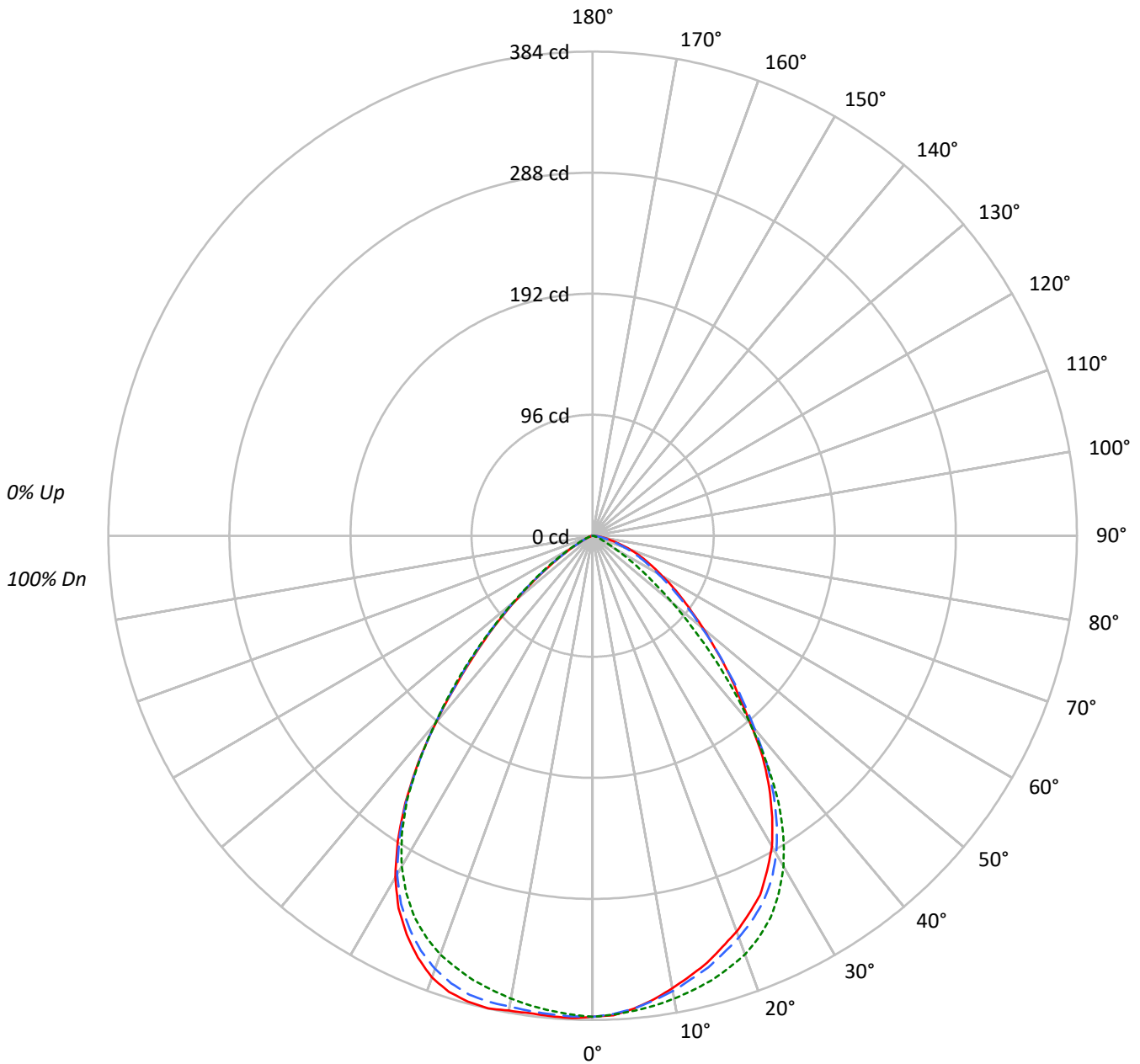
Lumens per Lamp: N/A
Luminaire Lumens: 640.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20914	20914	20914
5°	20713	20812	21043
10°	20285	20747	21287
15°	19898	20710	21703
20°	19485	20617	21743
25°	19005	20203	21098
30°	17996	19161	19801
35°	16343	17172	17326
40°	13948	13883	13812
45°	11714	10396	10071
50°	9782	7036	6678
55°	8239	4310	3919
60°	6973	2270	1974
65°	6032	1193	960
70°	5017	737	513
75°	3707	487	297
80°	2904	284	158
85°	2327	314	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	5.6
10°-20°	102.9	16.1
20°-30°	152.0	23.8
30°-40°	156.7	24.5
40°-50°	108.2	16.9
50°-60°	53.3	8.3
60°-70°	21.6	3.4
70°-80°	7.7	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°	290.9	45.5
0°-40°	447.6	69.9
0°-60°	609.1	95.2
0°-90°	640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	382	382	382	382	382	
5°	376	376	378	381	382	36
15°	351	354	365	377	382	99
25°	314	320	334	344	349	144
35°	244	250	257	258	259	151
45°	151	152	134	132	130	117
55°	86	83	45	42	41	78
65°	46	42	9	7	7	46
75°	18	15	2	1	1	20
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°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	380.6	379.2	380.1	378.2	380.6	378.2	378.7	379.2	378.7	379.2	379.6
5°	376.4	375.0	376.4	374.1	376.4	375.0	375.0	375.5	375.5	375.9	376.4
7.5°	370.9	369.5	370.9	368.6	371.3	370.0	370.0	370.9	370.4	370.9	371.8
10°	364.4	362.6	364.0	362.6	365.4	363.5	364.4	364.4	364.4	365.8	366.7
12.5°	357.5	355.7	357.5	355.2	358.0	356.6	357.1	358.4	358.9	359.8	360.3
15°	350.6	348.3	349.2	347.8	350.6	349.2	349.7	351.5	351.5	352.9	354.3
17.5°	341.9	340.0	341.9	340.0	342.3	341.4	342.3	343.7	343.7	345.1	346.5
20°	334.0	332.2	333.6	332.2	335.0	333.6	334.0	335.9	336.3	337.7	339.1
22.5°	324.3	323.0	323.9	322.5	325.3	324.3	324.8	326.7	327.1	328.0	330.3
25°	314.2	311.4	312.8	311.9	314.7	313.3	314.2	316.0	317.0	318.4	320.2
27.5°	299.5	298.1	299.0	299.0	301.3	299.9	300.4	302.2	303.6	305.0	307.3
30°	284.3	282.0	282.9	283.3	285.2	284.3	285.2	287.0	287.5	289.3	291.2
32.5°	264.9	264.0	265.8	264.9	265.8	265.8	266.3	267.7	268.6	269.5	271.8
35°	244.2	242.3	244.2	243.3	245.6	244.2	245.6	247.0	247.0	248.8	250.2
37.5°	221.6	219.3	220.2	220.2	221.1	220.7	220.7	223.0	223.4	224.8	226.2
40°	194.9	194.0	195.8	195.3	195.8	195.8	196.3	197.6	198.6	199.0	199.5
42.5°	170.9	171.4	171.8	171.8	171.8	171.8	171.8	173.7	173.2	174.6	175.1
45°	151.1	149.3	150.2	149.7	151.1	149.7	151.1	152.5	151.6	153.0	152.0
47.5°	130.8	130.8	130.8	130.4	131.3	130.8	131.8	132.2	132.2	132.2	131.8
50°	114.7	113.3	113.8	113.8	114.3	113.8	114.7	115.2	115.2	114.3	112.4
52.5°	99.0	98.6	98.6	99.5	99.5	99.0	99.0	99.0	99.0	97.7	96.7
55°	86.2	85.2	85.7	85.7	85.7	85.7	86.2	85.7	85.7	84.3	82.9
57.5°	74.6	73.7	73.7	73.7	74.2	73.7	73.7	73.7	73.3	71.9	70.0
60°	63.6	63.1	63.6	63.6	64.0	63.6	63.6	63.6	62.7	61.3	59.4
62.5°	54.4	54.4	54.4	54.8	54.8	54.4	54.4	53.9	53.4	51.6	49.8
65°	46.5	46.1	46.5	46.5	47.0	47.0	46.5	46.1	45.6	43.8	41.9
67.5°	38.7	38.2	38.7	38.7	39.2	38.7	38.7	38.7	37.3	36.4	34.5
70°	31.3	30.9	30.9	30.9	31.3	30.4	30.9	30.9	30.0	28.6	26.7
72.5°	24.0	24.0	24.0	24.0	24.0	24.0	23.5	23.5	22.6	21.2	20.3
75°	17.5	17.5	18.0	18.0	17.5	17.5	17.5	17.0	16.6	15.7	14.7
77.5°	12.9	12.9	12.9	12.9	12.4	12.4	12.4	12.0	11.5	11.1	10.1
80°	9.2	9.2	9.2	8.7	9.2	8.7	8.7	8.7	7.8	7.4	6.9
82.5°	6.4	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5	5.1	4.6
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.2	2.8	2.8
87.5°	1.8	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8	1.4
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°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	379.6	379.6	380.6	379.2	381.5	380.1	379.6	381.9	380.6	380.1	381.0
5°	376.4	376.9	377.3	376.4	378.7	377.3	377.3	379.6	378.7	378.2	379.6
7.5°	372.3	372.7	373.6	373.2	375.0	374.1	374.6	376.9	375.9	375.9	377.3
10°	367.2	368.1	369.0	369.0	371.3	370.4	370.4	373.2	372.3	372.7	374.6
12.5°	361.2	362.6	364.0	364.4	366.7	365.4	365.8	369.0	368.6	369.0	370.9
15°	354.8	356.6	358.0	358.0	360.7	359.4	360.7	364.0	363.1	364.9	367.2
17.5°	347.4	349.2	351.1	351.5	354.3	353.4	355.2	358.4	358.4	359.4	362.1
20°	340.5	342.8	343.7	345.1	347.8	347.4	348.3	352.0	352.0	353.4	356.1
22.5°	331.3	333.6	335.4	336.8	339.1	339.1	340.5	343.7	343.7	344.6	347.4
25°	321.1	323.9	325.3	326.7	329.0	328.5	329.9	332.6	333.1	334.0	336.8
27.5°	308.2	310.5	312.4	313.3	316.5	314.7	316.0	319.3	318.8	319.7	322.0
30°	292.1	294.4	296.2	296.2	299.0	299.0	300.4	301.8	301.8	302.7	304.5
32.5°	273.2	276.0	276.0	277.4	279.2	277.4	279.2	281.0	280.1	281.5	282.9
35°	251.5	252.9	253.4	253.4	254.8	254.3	253.9	255.2	254.3	256.6	258.0
37.5°	225.3	227.1	226.2	227.1	226.7	225.3	225.3	227.6	225.7	226.2	227.6
40°	200.0	200.0	199.5	197.2	197.6	196.3	195.8	196.3	194.4	194.0	195.8
42.5°	173.7	173.2	171.8	168.6	169.1	166.8	164.9	164.9	164.0	163.6	164.0
45°	150.2	148.8	146.5	142.8	141.9	140.1	136.4	135.4	134.1	134.1	134.5
47.5°	128.5	126.7	123.0	118.9	116.6	114.3	110.6	109.2	106.9	106.0	106.9
50°	110.6	107.3	102.7	96.7	94.4	91.7	88.0	85.7	83.4	82.5	82.0
52.5°	94.0	89.4	84.8	77.4	75.6	72.8	67.7	65.4	63.1	61.3	61.3
55°	79.7	75.6	69.1	62.2	59.4	56.7	51.6	48.4	46.1	45.1	44.2
57.5°	66.8	62.2	56.2	48.8	46.1	43.3	38.2	35.0	32.7	31.3	30.4
60°	56.2	51.1	45.1	38.7	35.5	32.7	27.7	24.4	22.1	20.7	19.8
62.5°	46.1	41.9	35.9	30.0	27.2	24.4	20.3	17.0	14.7	13.8	12.4
65°	38.7	34.5	29.0	24.0	21.7	18.9	15.2	12.4	10.6	9.2	8.3
67.5°	31.3	28.1	23.5	18.9	16.6	14.7	11.5	9.2	7.4	6.4	6.0
70°	24.9	21.7	18.0	14.3	12.9	11.1	8.7	6.4	5.5	4.6	4.1
72.5°	18.4	16.1	13.4	10.6	9.2	8.3	6.0	5.1	3.7	3.2	2.8
75°	13.4	11.5	9.7	7.4	6.4	6.0	4.6	3.2	2.8	2.3	1.8
77.5°	9.2	8.3	6.4	5.1	4.6	4.1	3.2	2.3	1.8	1.4	1.4
80°	6.0	5.1	4.1	3.2	3.2	2.8	1.8	1.4	1.4	0.9	0.9
82.5°	3.7	3.2	2.8	2.3	1.8	1.8	1.4	0.9	0.9	0.5	0.5
85°	2.3	1.8	1.4	1.4	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°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	381.0	381.0	381.9	380.6	381.5	381.5	382.4	380.6	381.5	381.9	382.9
5°	379.2	379.6	380.6	380.1	380.6	380.6	381.5	379.2	381.0	381.0	382.4
7.5°	377.3	377.3	378.2	377.8	378.7	379.2	380.1	378.2	380.1	380.1	381.5
10°	375.0	375.0	376.4	375.9	377.3	377.8	379.2	377.3	379.2	379.6	381.0
12.5°	371.8	372.3	373.6	373.6	375.0	375.9	377.3	376.4	378.7	379.2	381.0
15°	368.1	369.0	370.9	370.4	371.8	373.2	375.0	373.6	376.9	377.8	379.6
17.5°	363.5	364.4	365.8	365.8	367.2	368.1	370.4	369.5	372.3	372.7	375.0
20°	356.6	358.0	359.8	359.4	360.7	361.7	363.5	362.6	365.4	366.3	368.6
22.5°	348.3	349.2	350.6	350.6	352.0	352.9	354.8	353.4	356.1	356.6	358.4
25°	337.3	338.2	339.1	339.6	340.9	341.4	342.3	341.4	343.7	344.2	346.5
27.5°	323.0	323.4	324.8	324.8	325.7	326.2	327.6	325.7	329.0	329.0	330.3
30°	305.9	305.5	307.3	306.4	307.3	307.3	308.7	307.8	310.1	309.2	310.5
32.5°	283.3	284.3	284.3	283.3	285.2	284.7	284.7	283.8	285.2	285.6	286.6
35°	257.1	258.5	258.5	258.9	259.4	258.0	258.5	255.7	258.0	258.5	258.9
37.5°	228.5	227.1	228.1	226.7	229.0	226.2	226.2	224.4	226.2	226.2	226.7
40°	195.8	195.3	196.3	195.3	194.9	194.4	193.5	192.1	194.0	193.0	194.4
42.5°	164.9	164.5	164.5	163.6	163.1	163.1	162.2	161.2	160.8	160.8	163.1
45°	133.1	134.1	133.1	132.7	133.6	132.7	133.1	131.3	132.2	131.3	132.2
47.5°	106.4	106.9	106.0	105.0	106.4	105.0	105.0	103.7	105.5	105.5	104.6
50°	82.5	82.0	81.1	82.0	81.6	81.6	81.6	80.2	81.1	79.7	80.6
52.5°	60.8	60.4	60.4	59.9	60.4	59.9	59.9	59.4	59.4	59.0	59.4
55°	44.2	43.8	42.8	42.8	42.8	43.3	42.8	42.4	42.4	41.9	42.4
57.5°	30.0	29.0	29.0	29.0	29.0	28.6	28.6	28.1	28.6	28.1	28.6
60°	19.4	19.4	18.4	18.4	18.4	18.4	18.4	18.0	18.4	18.4	18.4
62.5°	12.0	12.0	11.5	11.1	11.5	11.1	11.1	11.1	11.5	11.1	11.5
65°	7.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
67.5°	5.5	5.1	5.1	5.1	5.1	5.1	5.1	4.6	5.1	5.1	5.1
70°	3.7	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	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: P684360

CATALOG NUMBER: LX6C05D010 EX6C059050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	381.5
2.5°	381.5	381.9	381.0	381.5	380.6	381.5	381.9	382.9
5°	380.6	381.0	380.1	381.0	380.1	381.0	381.5	382.4
7.5°	379.6	380.6	379.6	380.6	379.6	380.6	381.0	381.9
10°	379.6	381.0	380.1	381.5	380.1	381.0	381.9	382.4
12.5°	379.6	381.0	380.6	381.5	381.0	381.9	382.9	383.8
15°	378.7	380.1	379.2	380.6	380.1	380.6	382.4	382.4
17.5°	373.6	375.0	375.0	375.9	375.9	377.3	378.2	379.2
20°	367.2	368.6	368.1	369.5	369.5	370.9	371.8	372.7
22.5°	357.5	359.4	358.9	360.3	359.8	360.7	362.6	362.1
25°	345.1	347.4	346.9	347.8	347.4	347.4	348.3	348.8
27.5°	329.9	331.3	330.8	331.7	330.8	331.7	332.6	333.1
30°	310.1	311.0	310.5	311.0	310.5	311.4	311.9	312.8
32.5°	286.1	287.5	286.1	287.0	286.6	286.6	288.4	287.5
35°	257.5	258.0	258.5	258.5	257.5	258.0	258.9	258.9
37.5°	225.7	228.1	225.3	226.7	226.2	226.2	226.2	227.6
40°	192.6	193.0	192.1	192.1	192.1	191.7	193.5	193.0
42.5°	161.2	161.7	161.2	159.9	160.3	160.3	161.7	159.9
45°	130.8	131.8	131.3	131.3	130.4	130.4	130.8	129.9
47.5°	103.7	104.6	103.2	103.7	102.7	103.7	103.2	104.1
50°	78.8	79.7	79.2	79.7	79.7	78.8	80.2	78.3
52.5°	59.0	59.4	59.0	58.5	58.1	58.1	59.0	58.5
55°	41.9	41.5	41.5	41.5	41.9	41.9	41.5	41.0
57.5°	28.1	28.1	27.7	27.7	28.1	27.2	27.7	27.2
60°	18.0	18.0	18.0	18.0	17.5	18.0	18.0	18.0
62.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
65°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
67.5°	4.6	5.1	5.1	5.1	4.6	4.6	4.6	4.6
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)