

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: P685040

Luminaire Tested: **LX6C05D010 EX6059027 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C05D010 EX6059027 6LCSWLI  
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

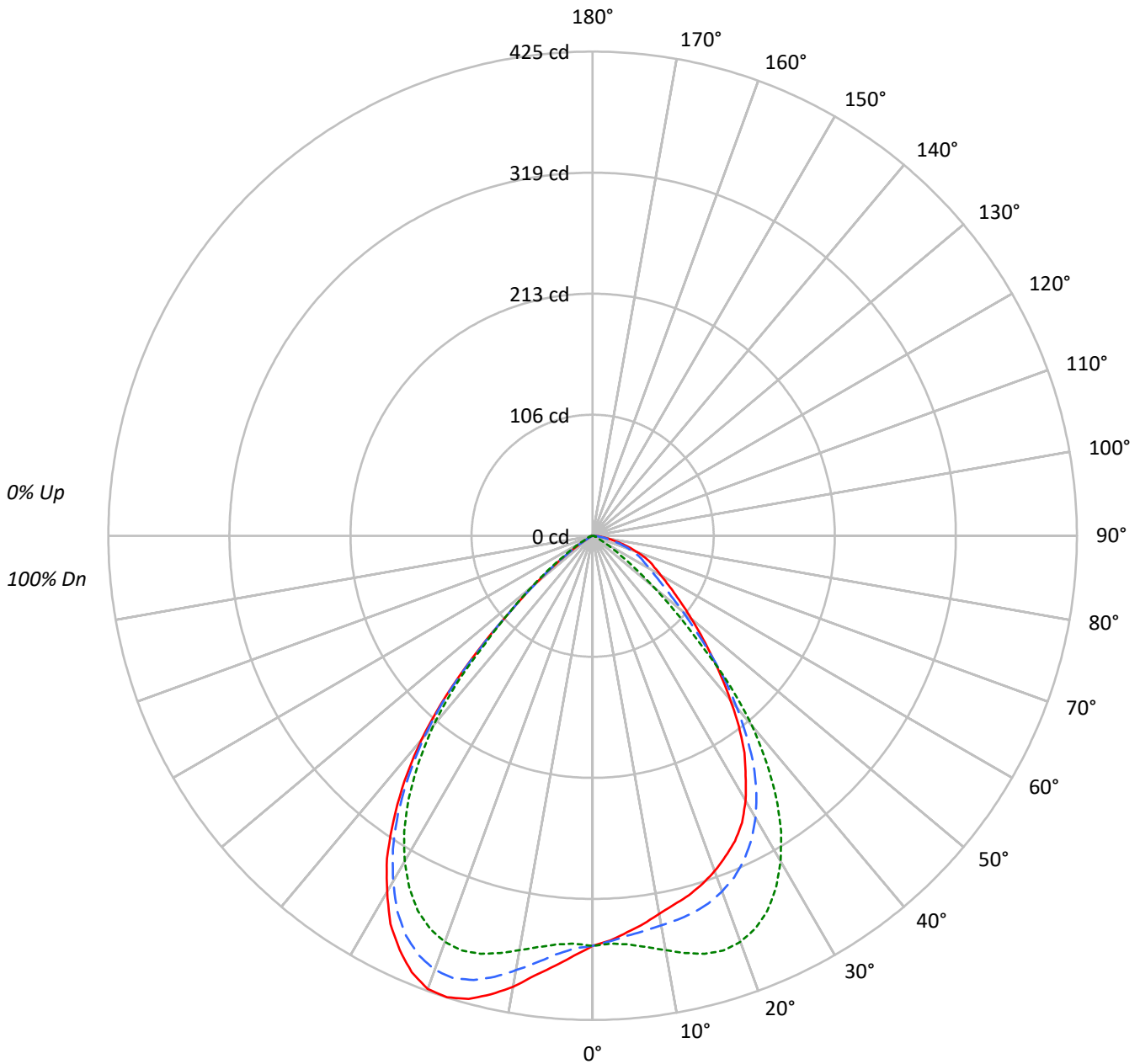
Lumens per Lamp: N/A  
Luminaire Lumens: 658.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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				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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	19735	19735	19735
5°	19222	19811	20851
10°	18754	20557	22378
15°	18536	21561	23888
20°	18272	22128	24695
25°	17880	21963	24249
30°	16990	20870	22833
35°	15546	18819	20385
40°	13447	15543	16724
45°	11342	10195	10939
50°	9629	5902	5544
55°	8353	2829	2141
60°	7543	1316	526
65°	7316	752	182
70°	6572	609	160
75°	5401	445	64
80°	4009	221	0
85°	3459	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.8	5.3
10°-20°	106.0	16.1
20°-30°	161.9	24.6
30°-40°	169.3	25.7
40°-50°	109.9	16.7
50°-60°	43.6	6.6
60°-70°	20.7	3.1
70°-80°	9.8	1.5
80°-90°	2.0	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°	302.7	46.0
0°-40°	472.0	71.7
0°-60°	625.5	95.1
0°-90°	658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	360	360	360	360	360	
5°	349	352	360	369	379	33
15°	327	342	380	404	421	92
25°	296	314	363	388	401	135
35°	232	246	281	298	305	144
45°	146	145	132	139	141	114
55°	87	74	30	23	22	79
65°	56	47	6	1	1	55
75°	26	21	2	1	0	27
85°	6	3	0	0	0	6
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°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
2.5°	355.5	356.2	352.4	351.4	354.1	355.2	355.5	354.5	354.8	356.2	356.2
5°	349.3	350.0	346.6	345.5	348.3	349.0	350.0	349.7	350.7	352.7	352.4
7.5°	343.5	344.5	340.7	339.3	342.8	344.5	345.2	345.2	346.6	349.3	349.7
10°	336.9	338.3	334.9	334.2	338.0	339.7	340.0	340.7	342.8	346.6	347.2
12.5°	331.4	332.8	330.4	329.3	333.5	335.2	335.9	337.3	339.7	344.5	345.2
15°	326.6	327.6	324.9	324.2	328.3	330.4	330.7	332.8	335.9	341.4	342.4
17.5°	320.4	321.1	319.0	318.3	322.5	324.5	324.9	327.3	331.1	336.6	338.3
20°	313.2	313.9	311.8	311.1	315.2	317.6	318.0	320.1	324.5	330.4	332.1
22.5°	304.6	305.9	303.5	302.8	307.0	309.0	310.1	311.8	316.3	322.1	324.5
25°	295.6	295.6	293.9	293.6	297.3	299.8	299.4	301.8	306.3	312.1	314.2
27.5°	283.9	283.6	281.9	281.5	285.6	287.7	287.0	289.4	293.6	299.4	301.5
30°	268.4	269.1	266.7	266.0	269.5	272.9	272.6	275.0	279.1	284.6	286.0
32.5°	249.9	250.5	250.2	249.2	252.3	254.0	255.0	256.7	260.2	266.0	267.4
35°	232.3	231.3	229.9	229.9	233.0	235.7	234.7	236.8	240.2	246.1	246.4
37.5°	210.6	210.3	209.6	208.9	212.3	213.0	213.4	214.7	217.9	222.7	222.0
40°	187.9	188.2	187.9	186.5	188.6	191.3	191.0	191.7	194.4	197.9	196.9
42.5°	166.6	166.6	166.6	165.2	167.6	169.0	169.7	169.3	170.0	173.1	171.7
45°	146.3	146.6	146.3	145.9	146.3	147.0	146.3	145.9	145.9	147.0	144.9
47.5°	128.7	128.7	127.7	126.6	127.7	128.0	127.0	126.0	125.6	125.3	121.8
50°	112.9	112.5	112.2	110.5	111.5	111.8	110.5	109.8	108.4	106.7	102.6
52.5°	99.1	98.8	98.4	96.7	97.4	97.7	96.4	95.0	93.3	91.9	86.7
55°	87.4	87.1	87.1	86.0	85.3	86.0	84.7	83.6	81.2	79.5	74.3
57.5°	77.4	77.4	76.7	75.7	76.1	76.1	74.7	73.3	71.2	69.2	65.0
60°	68.8	68.8	68.8	67.8	67.8	67.8	67.1	65.7	64.0	61.9	57.8
62.5°	61.9	61.9	61.6	60.6	60.9	60.9	60.2	58.9	57.1	55.7	51.6
65°	56.4	56.4	56.4	55.4	55.4	55.7	55.1	53.7	52.3	50.6	46.8
67.5°	49.6	49.2	49.2	48.5	48.9	49.2	48.5	47.5	45.8	44.7	41.3
70°	41.0	41.3	41.6	40.6	41.0	41.0	40.6	39.6	38.5	37.5	34.4
72.5°	33.4	33.4	33.0	32.7	32.7	33.0	32.4	31.3	30.6	29.9	27.5
75°	25.5	25.1	25.5	24.8	24.8	24.8	24.1	23.7	23.4	22.4	20.6
77.5°	18.6	18.2	18.2	17.6	17.9	17.9	17.6	16.9	16.2	15.8	14.4
80°	12.7	12.7	12.7	12.4	12.4	12.0	12.0	11.7	11.0	10.7	10.0
82.5°	8.6	8.6	8.6	8.3	8.3	8.3	7.9	7.6	7.2	6.9	6.2
85°	5.5	5.5	5.5	5.2	5.2	5.2	4.8	4.8	4.5	4.1	3.4
87.5°	3.1	3.1	3.1	2.8	2.8	2.8	2.8	2.8	2.4	2.1	1.7
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°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
2.5°	358.6	353.8	356.9	356.9	355.9	358.6	360.3	361.7	361.4	358.3	357.9
5°	355.9	351.7	355.2	355.5	354.5	358.3	360.7	362.4	362.7	360.0	360.3
7.5°	353.8	350.3	354.8	356.2	355.9	359.3	362.0	364.8	366.2	364.1	364.5
10°	352.7	350.0	354.8	356.9	357.2	361.0	365.1	368.9	370.7	369.3	370.3
12.5°	351.4	349.7	355.2	358.3	359.6	363.4	368.6	373.1	375.8	375.1	377.2
15°	350.0	348.6	355.2	359.6	361.4	364.8	370.7	377.2	380.3	379.9	382.7
17.5°	346.6	346.2	353.1	357.9	360.3	364.5	370.0	377.9	381.0	381.7	385.1
20°	341.1	341.1	348.6	353.8	356.5	360.3	367.2	374.8	378.6	379.3	383.0
22.5°	333.5	334.2	341.4	346.6	350.7	353.4	360.7	368.6	372.0	373.1	377.2
25°	323.5	324.2	331.1	336.2	340.7	343.8	350.7	357.9	362.0	363.1	366.2
27.5°	310.4	311.8	318.3	323.5	327.3	329.3	336.6	344.1	347.2	348.3	351.4
30°	295.3	295.6	302.2	306.6	310.4	312.1	318.3	326.3	328.7	329.7	334.2
32.5°	276.7	276.4	282.6	286.7	289.8	291.8	298.4	303.5	305.9	307.7	310.1
35°	254.3	254.0	258.5	263.3	265.7	266.4	272.9	278.4	279.8	281.2	284.3
37.5°	229.2	229.2	233.0	235.4	238.1	239.2	242.3	248.5	250.9	250.5	252.9
40°	202.7	201.3	204.1	206.5	207.2	207.5	210.6	215.4	217.2	217.2	218.9
42.5°	174.8	172.8	173.1	174.5	175.2	172.8	174.8	177.9	176.9	178.3	178.6
45°	145.2	142.1	140.8	137.7	138.4	135.9	134.6	135.2	134.9	131.5	132.2
47.5°	121.1	115.6	113.2	108.8	107.7	105.0	103.2	100.1	97.4	97.4	95.7
50°	100.8	95.3	90.5	85.3	83.6	81.2	77.4	73.3	71.2	69.2	67.5
52.5°	84.7	78.8	73.0	67.5	65.0	61.9	56.8	52.7	48.9	46.8	44.7
55°	71.6	65.0	58.9	53.0	49.9	46.8	41.6	36.8	32.4	29.6	27.9
57.5°	61.6	55.4	48.9	42.7	39.9	36.5	31.0	25.8	21.7	18.6	16.9
60°	54.4	48.2	42.3	35.8	33.0	29.6	23.7	18.9	14.8	12.0	10.0
62.5°	48.2	42.7	36.5	30.6	27.9	24.4	18.9	14.1	10.3	7.6	5.8
65°	43.7	38.2	33.0	27.2	24.8	21.3	16.2	11.7	8.3	5.8	4.1
67.5°	38.5	33.7	28.6	23.7	21.3	18.6	13.8	10.0	6.9	4.8	3.4
70°	32.4	28.6	24.1	19.6	17.9	15.5	11.4	8.3	5.5	3.8	2.8
72.5°	25.8	22.7	19.3	15.8	14.4	12.0	9.3	6.5	4.1	2.8	2.1
75°	19.6	17.2	14.4	12.0	10.7	9.3	6.9	4.8	3.1	2.1	1.4
77.5°	13.4	12.4	10.3	8.3	7.6	6.5	4.5	3.1	2.1	1.4	0.7
80°	9.3	8.3	6.9	5.5	4.8	4.1	2.8	2.1	1.0	0.7	0.3
82.5°	5.8	4.8	4.1	3.4	3.1	2.4	1.7	1.0	0.7	0.3	0.3
85°	3.1	2.8	2.4	1.7	1.7	1.4	1.0	0.7	0.3	0.0	0.0
87.5°	1.7	1.4	1.0	0.7	0.7	0.3	0.3	0.3	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°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
2.5°	362.0	362.0	361.7	365.8	361.0	365.8	363.4	365.8	362.4	362.0	362.4
5°	364.8	365.8	366.2	370.0	365.5	371.3	369.3	371.3	368.9	369.6	370.7
7.5°	370.3	372.0	371.7	376.5	372.0	378.6	377.2	380.3	377.9	378.6	379.9
10°	376.5	378.6	378.9	383.7	379.6	387.5	385.8	389.2	387.2	388.2	389.9
12.5°	383.7	386.1	386.5	392.0	387.5	395.8	394.7	398.2	396.5	397.5	399.6
15°	389.2	392.7	393.4	398.9	394.0	402.7	402.0	406.4	403.7	405.4	407.1
17.5°	392.0	395.1	396.5	401.6	397.5	406.1	405.4	409.2	407.1	408.8	410.9
20°	390.3	394.0	395.1	400.2	396.1	404.7	403.7	407.5	405.4	406.8	408.8
22.5°	384.1	387.9	389.2	394.0	390.3	398.2	397.8	401.3	398.5	400.2	402.0
25°	373.1	377.2	377.9	382.3	378.2	386.5	385.8	389.6	387.5	388.5	390.9
27.5°	357.2	362.0	363.1	366.9	363.8	370.7	370.7	373.7	371.3	371.3	373.7
30°	338.3	343.1	343.8	346.9	344.1	350.3	350.7	353.8	350.0	352.1	352.4
32.5°	315.2	318.3	320.4	323.2	319.0	326.9	325.9	328.3	326.3	326.3	328.0
35°	287.4	291.2	292.2	295.6	292.2	298.4	298.4	299.8	297.7	297.7	300.4
37.5°	257.1	259.8	260.2	263.6	260.9	266.0	265.7	266.7	264.6	266.0	266.0
40°	221.6	223.7	224.4	226.1	225.8	229.5	229.2	229.9	228.9	229.2	229.9
42.5°	180.3	183.1	184.5	185.8	183.8	188.9	187.9	188.9	188.6	188.9	190.0
45°	132.8	134.9	135.9	136.3	135.6	138.7	141.1	139.0	139.4	138.7	140.1
47.5°	96.0	96.4	95.7	97.7	96.0	97.4	98.1	98.4	96.4	96.0	97.4
50°	65.7	67.5	65.0	66.1	65.7	67.1	66.4	66.8	64.7	65.7	65.0
52.5°	43.7	43.4	42.7	43.0	42.3	42.3	42.3	43.0	41.6	41.0	40.3
55°	26.5	25.8	24.4	24.1	24.1	24.4	23.7	23.1	23.1	22.7	22.7
57.5°	15.5	14.4	13.8	13.4	12.7	12.4	12.0	12.0	11.4	11.4	11.4
60°	8.6	7.6	6.9	6.2	6.2	5.8	5.5	5.2	5.2	5.2	4.8
62.5°	4.5	3.8	3.1	2.8	2.8	2.4	2.1	2.1	2.1	2.1	1.7
65°	3.1	2.4	2.1	1.7	1.7	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	2.4	2.1	1.7	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.0
70°	2.1	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
80°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
2.5°	365.5	365.1	365.5	366.2	364.8	368.9	366.9	368.9
5°	373.4	373.7	374.1	375.1	373.4	378.6	375.8	378.9
7.5°	383.7	384.1	384.4	385.4	384.4	389.6	386.5	389.2
10°	394.4	395.1	395.1	396.8	395.8	400.6	398.5	402.0
12.5°	404.4	405.1	405.8	406.8	406.1	411.3	409.5	412.3
15°	412.3	413.7	414.0	415.4	414.7	420.2	418.1	420.9
17.5°	416.1	417.4	417.4	419.2	418.5	424.3	421.6	424.7
20°	414.0	415.0	415.4	417.1	416.4	422.3	419.5	423.3
22.5°	407.5	407.8	408.2	409.9	409.5	414.7	412.3	414.7
25°	395.4	396.5	396.1	397.5	397.5	401.6	398.9	400.9
27.5°	378.2	379.3	379.3	381.0	379.6	383.7	381.0	384.1
30°	357.2	358.3	357.6	358.9	357.6	361.7	359.6	360.7
32.5°	332.1	332.1	332.4	332.8	332.1	335.9	333.8	335.9
35°	302.2	302.8	303.2	303.5	302.8	305.6	303.2	304.6
37.5°	268.4	270.2	269.8	270.2	269.1	272.6	270.5	271.2
40°	232.3	232.3	231.9	232.6	231.6	234.4	233.0	233.7
42.5°	190.3	191.3	190.0	191.7	188.9	192.7	191.3	190.3
45°	142.8	141.4	141.1	141.4	140.4	140.8	141.8	141.1
47.5°	97.4	97.4	96.7	95.7	97.1	97.4	96.0	96.0
50°	65.4	65.4	64.7	64.4	65.0	64.7	64.0	65.0
52.5°	41.6	40.3	40.3	41.0	40.3	39.6	40.6	39.9
55°	22.7	22.0	22.0	22.7	22.0	22.0	21.7	22.4
57.5°	11.0	11.4	11.0	11.0	11.0	11.0	10.7	11.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	2.1	2.1	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)