

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: P684057

Luminaire Tested: **LX6C15D010 EX6C159035 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C15D010 EX6C159035 6LBLWWH  
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

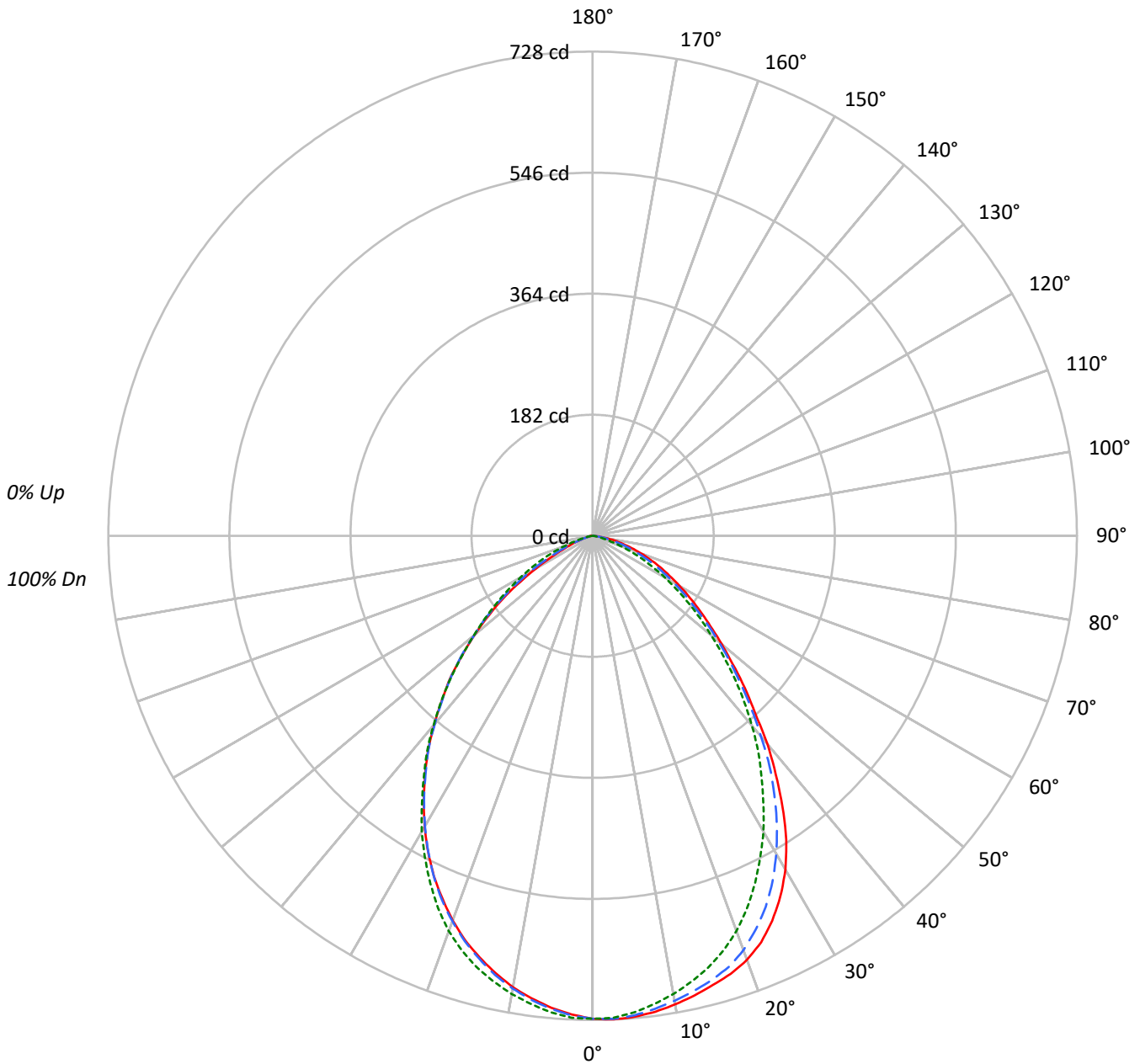
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1321.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.8  
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									
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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

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

	0°	90°	180°
0°	39810	39810	39810
5°	39951	39588	39198
10°	39829	38944	38376
15°	39677	38139	37253
20°	39588	36887	35901
25°	38627	34907	34139
30°	36702	32511	31973
35°	33308	29600	29406
40°	29226	26643	26500
45°	25057	23281	23468
50°	21569	19837	19735
55°	18848	16754	15722
60°	16567	13727	10734
65°	14502	10637	6460
70°	12358	7165	3799
75°	9976	3728	2076
80°	6945	1452	1168
85°	2768	440	629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	5.2
10°-20°	190.0	14.4
20°-30°	270.4	20.5
30°-40°	284.6	21.5
40°-50°	237.2	18.0
50°-60°	160.2	12.1
60°-70°	81.2	6.2
70°-80°	26.2	2.0
80°-90°	3.0	0.2
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°	528.5	40.0
0°-40°	813.1	61.6
0°-60°	1210.5	91.6
0°-90°	1321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	726	726	726	726	726	
5°	726	724	719	714	712	69
15°	699	692	672	659	656	198
25°	639	615	577	565	564	293
35°	498	476	442	438	439	310
45°	323	315	300	302	303	250
55°	197	188	175	170	164	178
65°	112	101	82	59	50	111
75°	47	37	18	10	10	51
85°	4	2	1	1	1	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°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	727.9	727.9	727.9	727.9	727.9	727.9	727.7	727.7	727.2	727.2	727.0
5°	726.0	726.2	726.2	726.0	726.0	725.5	725.5	725.3	724.5	724.0	723.8
7.5°	721.8	721.8	721.6	721.4	721.1	720.4	720.1	719.4	718.9	718.4	717.4
10°	715.5	715.5	715.3	714.8	714.5	714.0	714.0	713.1	712.1	710.9	710.1
12.5°	707.9	708.2	707.7	707.4	706.7	706.5	706.0	704.8	704.0	702.6	701.3
15°	699.1	699.6	699.6	698.7	697.9	697.7	696.9	696.2	694.5	693.0	691.6
17.5°	690.6	691.1	690.6	689.9	689.1	688.2	687.7	686.2	684.0	682.1	679.9
20°	678.6	679.4	678.4	677.2	675.7	675.5	674.7	672.3	669.1	666.2	663.0
22.5°	661.8	661.3	660.6	660.1	657.6	656.2	655.2	652.0	648.6	644.7	640.8
25°	638.6	639.6	638.1	635.9	634.7	633.2	630.8	627.4	624.2	620.0	615.4
27.5°	611.3	611.3	609.3	608.6	605.9	603.9	602.7	599.3	595.1	591.0	585.9
30°	579.8	578.3	578.3	574.9	572.7	572.0	570.7	565.1	561.5	557.1	551.9
32.5°	541.7	541.4	540.5	538.3	535.3	532.9	532.9	529.0	524.1	518.7	515.6
35°	497.7	498.0	497.5	495.1	495.1	492.1	491.6	488.2	484.3	480.2	476.3
37.5°	452.3	453.3	452.3	451.1	450.4	450.1	447.9	445.5	442.6	440.1	437.2
40°	408.4	406.9	407.4	405.0	405.2	404.7	403.8	400.6	398.9	396.4	393.3
42.5°	361.0	362.5	363.0	361.5	361.0	360.1	361.0	359.8	357.9	356.6	353.7
45°	323.2	321.7	322.5	322.0	322.2	320.3	319.5	319.1	318.3	316.1	314.9
47.5°	285.6	285.9	285.6	284.6	284.1	284.1	283.2	281.7	281.7	280.2	279.3
50°	252.9	252.9	253.4	252.2	251.7	250.7	250.9	249.5	248.5	247.3	246.6
52.5°	222.9	223.1	222.1	222.4	221.9	221.9	220.9	219.9	219.0	216.8	216.3
55°	197.2	197.5	196.3	196.8	195.3	194.6	194.1	192.6	192.6	190.4	187.7
57.5°	173.3	173.1	172.8	172.1	171.1	170.4	169.7	167.9	167.2	165.8	163.6
60°	151.1	150.9	150.4	150.1	149.4	147.7	147.7	146.5	144.0	142.6	140.4
62.5°	130.1	130.1	129.9	129.1	128.4	127.7	127.2	126.2	123.8	122.1	120.1
65°	111.8	111.6	110.8	109.6	109.1	109.1	107.4	106.7	104.7	103.0	100.8
67.5°	94.2	93.3	92.8	93.0	91.5	91.5	90.1	88.9	87.1	84.2	82.5
70°	77.1	76.7	76.2	75.7	75.4	74.5	73.7	72.3	70.5	68.4	65.7
72.5°	61.8	61.8	61.0	60.5	59.8	58.8	58.3	57.1	55.2	52.7	50.8
75°	47.1	47.1	47.1	46.1	45.6	45.2	43.7	43.0	40.8	39.3	36.9
77.5°	34.7	34.2	33.4	33.2	32.7	32.2	31.5	30.3	28.3	26.6	25.1
80°	22.0	22.7	22.0	22.0	20.7	20.3	20.0	18.6	17.8	16.4	15.1
82.5°	12.2	12.4	12.0	11.7	11.0	10.7	10.7	9.8	9.3	8.3	7.6
85°	4.4	4.6	4.4	4.4	3.9	4.1	3.9	3.7	3.2	2.7	2.4
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	727.0	726.5	726.5	726.2	726.0	726.0	726.0	725.7	725.3	725.3	725.0
5°	723.3	722.8	722.1	721.6	721.4	721.1	720.9	720.6	719.6	719.4	718.7
7.5°	716.7	716.2	715.0	714.5	713.8	713.5	712.6	712.1	711.1	710.1	709.6
10°	708.9	707.7	706.7	705.5	705.0	704.3	703.0	701.6	700.8	699.6	698.7
12.5°	700.1	698.7	696.7	695.2	694.7	693.5	691.6	690.4	688.6	686.7	685.0
15°	689.1	687.4	685.7	683.0	682.3	680.8	678.9	676.4	674.0	672.0	670.1
17.5°	677.2	674.5	671.8	668.9	666.7	665.9	662.8	659.3	657.2	653.7	651.5
20°	660.3	656.7	652.3	649.3	647.4	645.2	641.5	637.9	635.2	632.3	629.1
22.5°	637.1	633.7	628.6	624.2	622.7	619.6	616.4	613.0	609.6	606.4	602.5
25°	609.8	606.1	601.0	596.6	594.2	592.7	586.6	583.2	579.8	577.1	574.4
27.5°	581.7	575.1	571.7	564.9	562.7	562.2	556.6	552.9	549.3	545.6	542.2
30°	547.1	541.9	536.8	531.9	529.0	527.3	523.1	518.5	516.1	513.6	510.2
32.5°	511.2	506.5	500.2	495.5	493.4	490.9	487.2	484.1	480.4	477.7	477.0
35°	472.8	467.7	462.3	458.9	458.4	455.5	451.9	449.2	446.5	442.3	441.6
37.5°	431.8	428.9	425.2	420.4	418.2	418.2	414.5	412.6	409.1	408.9	406.9
40°	391.6	390.3	384.7	383.3	382.8	379.4	378.4	375.0	372.5	372.3	369.3
42.5°	351.8	348.6	347.6	345.2	343.0	342.5	340.3	338.8	337.9	336.4	334.9
45°	312.2	311.5	309.0	307.3	306.6	305.6	304.9	302.0	301.5	300.3	299.5
47.5°	278.0	276.1	273.9	271.9	271.7	270.2	268.5	268.5	265.8	265.6	265.1
50°	244.1	242.6	241.4	238.7	239.2	237.3	237.0	234.8	233.6	232.6	233.9
52.5°	214.3	211.4	210.9	208.7	208.0	208.2	205.5	204.8	204.3	203.3	202.9
55°	186.0	184.5	182.6	181.1	179.9	178.7	177.7	177.7	175.0	175.3	174.1
57.5°	161.1	159.9	157.5	155.3	154.8	153.3	152.1	150.9	150.6	148.9	147.7
60°	138.9	136.7	133.5	132.6	131.1	129.9	128.6	127.2	126.5	125.2	123.0
62.5°	118.2	114.5	113.3	111.3	109.6	108.9	106.9	105.2	104.0	102.3	100.6
65°	98.4	95.7	93.5	91.3	91.1	89.1	87.4	85.9	83.5	82.0	78.8
67.5°	80.3	77.9	75.4	73.2	71.5	71.0	68.4	66.6	64.9	62.0	59.3
70°	63.7	61.3	59.3	56.6	55.9	53.9	52.0	50.3	47.4	44.7	42.5
72.5°	48.6	45.9	43.7	41.7	40.5	38.8	36.9	34.9	32.0	29.3	27.3
75°	34.7	32.7	30.5	28.6	27.6	26.6	24.4	22.2	20.3	17.6	15.9
77.5°	23.4	21.5	19.5	17.8	16.6	15.9	14.4	12.7	11.0	9.5	8.3
80°	13.7	12.4	11.0	9.5	9.3	8.5	7.3	6.3	5.4	4.6	3.7
82.5°	6.6	5.9	4.9	4.1	3.7	3.4	2.9	2.4	2.0	1.7	1.7
85°	2.0	1.7	1.5	1.2	1.0	1.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	724.3	724.0	723.8	723.6	723.1	723.1	722.3	721.8	721.8	721.4	721.1
5°	717.9	717.2	717.0	716.5	716.0	715.7	714.8	714.5	714.0	713.5	713.5
7.5°	708.9	707.9	707.0	706.5	706.2	705.5	705.0	704.8	704.0	703.5	702.6
10°	696.9	696.2	695.0	694.5	694.0	693.5	692.3	691.6	691.3	690.8	690.4
12.5°	683.0	682.1	680.8	679.9	679.4	678.6	677.4	676.7	676.7	675.7	675.7
15°	668.1	666.7	664.5	663.5	663.3	661.8	660.8	659.8	658.6	658.1	658.1
17.5°	649.1	646.7	644.7	644.7	643.7	642.3	640.8	640.1	639.3	638.4	637.9
20°	626.6	624.9	622.7	622.7	620.5	620.0	618.6	618.3	616.6	616.9	616.1
22.5°	599.5	598.6	597.3	596.4	595.1	593.7	593.0	593.2	592.5	592.2	592.0
25°	572.2	569.5	568.1	567.6	567.1	565.9	565.4	565.1	565.1	564.4	564.6
27.5°	540.7	538.8	536.8	537.5	536.6	535.8	535.3	534.6	535.1	534.9	535.1
30°	508.5	506.0	504.8	505.3	505.1	503.1	504.1	503.8	504.1	504.1	504.6
32.5°	474.6	472.8	472.6	472.8	470.6	470.9	469.9	471.4	471.6	473.1	471.9
35°	440.1	439.2	437.5	437.2	437.5	437.2	437.2	438.2	437.9	439.4	438.9
37.5°	404.7	404.3	402.5	403.0	402.1	403.8	404.3	403.8	405.5	405.0	404.7
40°	370.1	369.3	368.4	370.3	369.1	368.1	369.8	368.4	368.9	370.3	370.3
42.5°	334.9	333.7	333.7	333.7	333.5	333.5	334.2	334.9	334.4	334.7	336.6
45°	299.5	299.3	298.6	299.0	298.8	300.0	300.0	300.5	301.5	302.5	302.0
47.5°	265.4	264.9	265.6	265.1	265.4	264.6	265.1	266.6	267.8	266.1	267.8
50°	233.4	232.4	232.2	232.9	232.6	232.4	232.9	232.9	232.4	232.4	234.1
52.5°	202.9	201.9	201.1	202.4	201.6	201.9	200.9	200.9	201.4	200.9	200.2
55°	174.3	173.6	172.6	173.1	171.9	171.6	170.6	170.6	169.9	169.4	167.9
57.5°	147.0	146.5	144.3	144.0	144.3	142.6	140.9	140.1	138.2	137.7	137.4
60°	122.8	120.1	118.9	117.4	116.4	115.7	113.8	112.5	109.6	107.9	107.7
62.5°	97.6	96.4	95.0	92.8	92.3	89.8	87.9	84.7	83.2	81.0	78.8
65°	77.4	74.2	72.0	70.8	68.8	66.6	64.4	61.0	59.3	56.6	54.4
67.5°	56.6	53.9	51.0	50.0	48.3	45.6	43.5	40.5	39.1	36.6	35.9
70°	38.8	36.4	34.2	32.7	31.5	28.8	26.6	25.6	24.2	23.7	23.7
72.5°	24.9	22.7	20.3	19.5	18.6	17.1	15.6	15.1	15.6	15.4	15.4
75°	13.9	12.7	11.0	10.3	10.3	9.8	9.5	9.5	9.5	9.5	9.5
77.5°	7.1	6.3	5.9	5.6	5.6	5.6	5.9	5.9	5.9	6.1	5.9
80°	3.4	3.2	3.2	3.2	3.4	3.4	3.4	3.4	3.4	3.7	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.0
85°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P684057

CATALOG NUMBER: LX6C15D010 EX6C159035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	720.9	720.4	720.4	720.1	720.1	720.1	720.1	720.4
5°	713.1	712.8	712.8	712.3	712.3	712.3	712.3	712.3
7.5°	702.6	702.1	702.3	701.8	701.8	702.1	701.8	701.6
10°	689.6	689.4	689.6	689.6	689.1	688.9	689.1	689.4
12.5°	675.0	674.7	674.2	674.5	674.5	674.2	674.0	673.5
15°	657.9	657.6	657.4	657.2	656.9	657.2	656.9	656.4
17.5°	637.9	637.9	637.6	637.4	637.1	636.6	636.9	637.6
20°	616.4	616.1	615.7	615.9	614.9	614.4	614.7	615.4
22.5°	591.7	591.0	591.5	590.8	590.8	591.0	590.8	590.3
25°	564.9	563.9	564.4	564.6	564.6	564.4	564.1	564.4
27.5°	535.1	535.8	535.8	535.3	536.1	535.1	535.6	535.8
30°	504.6	503.8	503.6	504.6	506.0	504.8	504.8	505.1
32.5°	473.1	472.1	472.1	472.6	472.4	472.4	473.3	472.1
35°	439.4	439.9	437.9	439.2	439.6	439.2	439.4	439.4
37.5°	405.5	405.0	405.0	405.0	405.7	405.7	406.2	406.0
40°	372.0	371.1	370.8	371.3	370.3	371.1	371.1	370.3
42.5°	335.9	336.1	337.4	336.1	336.4	336.1	335.7	335.4
45°	302.5	303.2	302.7	302.5	302.7	301.7	302.0	302.7
47.5°	267.1	268.5	267.1	268.0	267.8	267.3	266.8	265.8
50°	233.9	234.3	234.1	233.9	233.6	233.4	232.2	231.4
52.5°	199.9	199.9	199.9	199.9	197.5	198.7	198.2	196.8
55°	166.7	167.5	166.5	166.5	164.8	164.8	164.3	164.5
57.5°	134.8	134.0	133.3	133.3	131.6	130.8	130.1	129.1
60°	105.0	104.2	103.3	102.0	100.3	100.3	99.8	97.9
62.5°	76.9	75.7	74.9	74.0	72.5	71.5	70.8	71.3
65°	52.7	51.5	50.5	50.5	50.5	50.0	49.8	49.8
67.5°	34.7	35.4	34.9	35.4	35.4	34.9	34.7	35.2
70°	23.9	23.9	23.7	23.7	23.7	23.7	23.4	23.7
72.5°	15.4	15.4	15.4	15.6	15.4	15.4	15.6	15.6
75°	9.8	9.8	9.8	10.0	9.8	9.8	10.0	9.8
77.5°	5.9	6.1	6.1	6.1	6.1	5.9	6.1	6.1
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)