

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: P684035

Luminaire Tested: **LX6C15D010 EX6C159027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684035
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 EX6C159027 6LBLWWH
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

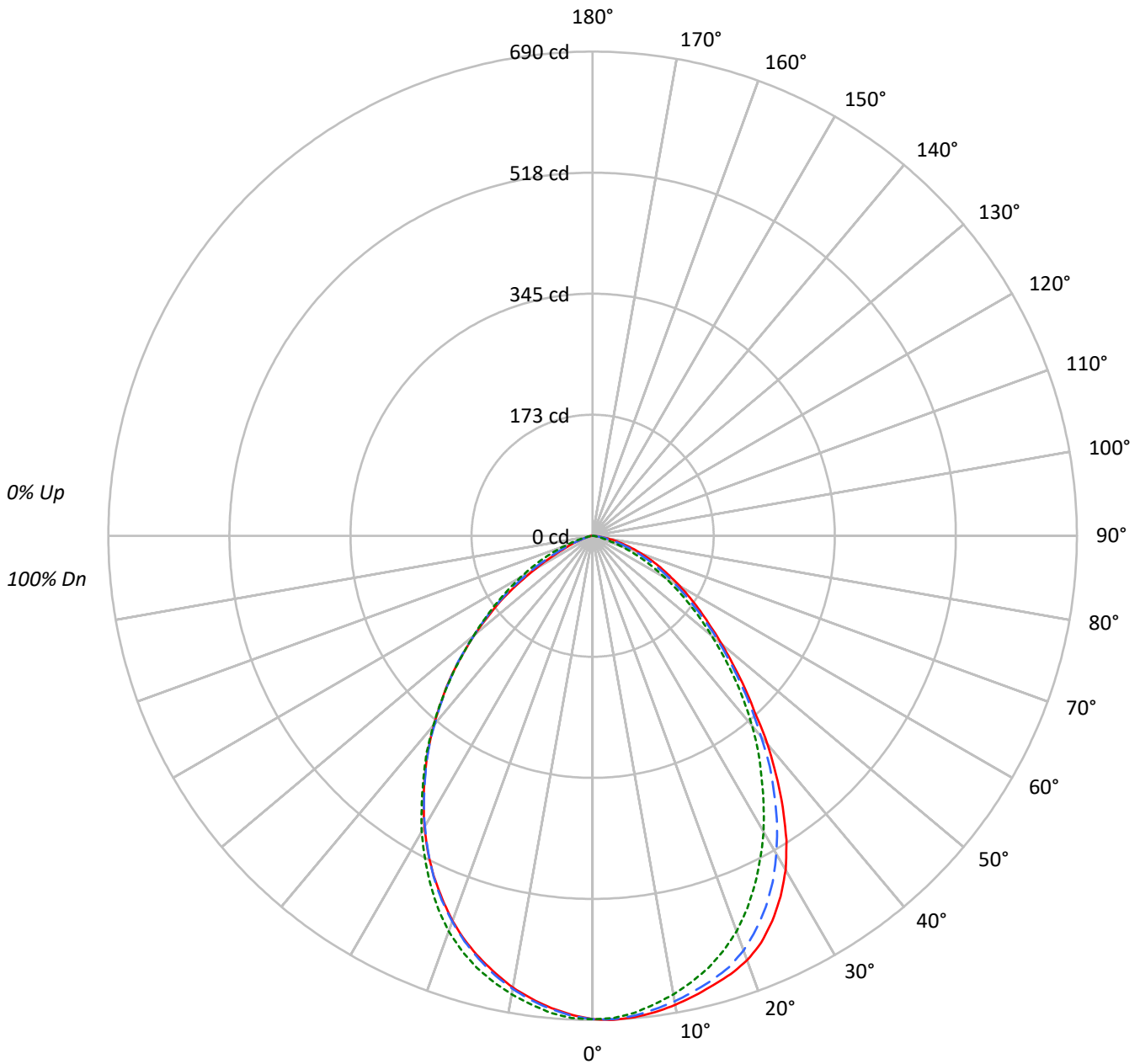
Lumens per Lamp: N/A
Luminaire Lumens: 1253.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
Input Current (A_{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	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°	37766	37766	37766
5°	37893	37552	37183
10°	37780	36940	36400
15°	37639	36175	35335
20°	37552	34986	34052
25°	36637	33111	32379
30°	34809	30840	30327
35°	31594	28081	27894
40°	27723	25269	25140
45°	23770	22080	22258
50°	20460	18822	18720
55°	17882	15894	14919
60°	15711	13025	10186
65°	13750	10092	6123
70°	11733	6796	3606
75°	9468	3537	1970
80°	6566	1389	1105
85°	2642	440	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	5.2
10°-20°	180.2	14.4
20°-30°	256.5	20.5
30°-40°	270.0	21.5
40°-50°	225.0	18.0
50°-60°	152.0	12.1
60°-70°	77.1	6.2
70°-80°	24.9	2.0
80°-90°	2.8	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°	501.3	40.0
0°-40°	771.2	61.6
0°-60°	1148.2	91.6
0°-90°	1253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	689	689	689	689	689	
5°	689	686	682	677	676	65
15°	663	656	637	625	623	187
25°	606	584	547	536	535	278
35°	472	452	420	415	417	294
45°	307	299	285	286	287	237
55°	187	178	166	161	156	168
65°	106	96	78	56	47	106
75°	45	35	17	9	9	48
85°	4	2	1	1	1	7
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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	690.5	690.5	690.5	690.5	690.5	690.5	690.2	690.2	689.8	689.8	689.5
5°	688.6	688.9	688.9	688.6	688.6	688.2	688.2	687.9	687.2	686.8	686.5
7.5°	684.7	684.7	684.5	684.2	684.0	683.3	683.1	682.4	681.9	681.4	680.5
10°	678.7	678.7	678.4	678.0	677.7	677.3	677.3	676.3	675.4	674.3	673.6
12.5°	671.5	671.7	671.3	671.0	670.3	670.1	669.6	668.5	667.8	666.4	665.2
15°	663.2	663.6	663.6	662.7	662.0	661.8	661.1	660.4	658.8	657.4	656.0
17.5°	655.0	655.5	655.0	654.4	653.7	652.7	652.3	650.9	648.8	646.9	644.9
20°	643.7	644.4	643.5	642.3	640.9	640.7	640.0	637.7	634.7	631.9	628.9
22.5°	627.7	627.3	626.6	626.1	623.8	622.4	621.5	618.5	615.2	611.5	607.8
25°	605.7	606.7	605.3	603.2	602.0	600.6	598.3	595.1	592.1	588.1	583.7
27.5°	579.8	579.8	577.9	577.2	574.7	572.8	571.7	568.4	564.5	560.6	555.7
30°	549.9	548.5	548.5	545.3	543.2	542.5	541.4	536.0	532.6	528.4	523.5
32.5°	513.8	513.6	512.6	510.6	507.8	505.5	505.5	501.8	497.1	492.0	489.0
35°	472.1	472.4	471.9	469.6	469.6	466.8	466.3	463.1	459.4	455.5	451.7
37.5°	429.1	430.0	429.1	427.9	427.2	427.0	424.9	422.6	419.8	417.5	414.7
40°	387.4	386.0	386.5	384.1	384.4	383.9	383.0	380.0	378.3	376.0	373.0
42.5°	342.5	343.8	344.3	342.9	342.5	341.5	342.5	341.3	339.4	338.3	335.5
45°	306.6	305.2	305.9	305.4	305.6	303.8	303.1	302.6	301.9	299.9	298.7
47.5°	270.9	271.1	270.9	270.0	269.5	269.5	268.6	267.2	267.2	265.8	264.9
50°	239.9	239.9	240.3	239.2	238.7	237.8	238.0	236.6	235.7	234.6	233.9
52.5°	211.4	211.6	210.7	210.9	210.5	210.5	209.6	208.6	207.7	205.6	205.2
55°	187.1	187.3	186.2	186.6	185.2	184.5	184.1	182.7	182.7	180.6	178.1
57.5°	164.4	164.2	163.9	163.2	162.3	161.6	160.9	159.3	158.6	157.2	155.1
60°	143.3	143.1	142.6	142.4	141.7	140.1	140.1	138.9	136.6	135.2	133.1
62.5°	123.4	123.4	123.2	122.5	121.8	121.1	120.6	119.7	117.4	115.8	113.9
65°	106.0	105.8	105.1	104.0	103.5	103.5	101.9	101.2	99.3	97.7	95.6
67.5°	89.4	88.5	88.0	88.2	86.8	86.8	85.4	84.3	82.7	79.9	78.3
70°	73.2	72.7	72.2	71.8	71.5	70.6	69.9	68.5	66.9	64.8	62.3
72.5°	58.6	58.6	57.9	57.4	56.7	55.8	55.3	54.2	52.3	50.0	48.2
75°	44.7	44.7	44.7	43.8	43.3	42.8	41.4	40.8	38.7	37.3	35.0
77.5°	32.9	32.4	31.7	31.5	31.0	30.6	29.9	28.7	26.9	25.2	23.8
80°	20.8	21.5	20.8	20.8	19.7	19.2	19.0	17.6	16.9	15.5	14.4
82.5°	11.6	11.8	11.3	11.1	10.4	10.2	10.2	9.3	8.8	7.9	7.2
85°	4.2	4.4	4.2	4.2	3.7	3.9	3.7	3.5	3.0	2.5	2.3
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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	689.5	689.1	689.1	688.9	688.6	688.6	688.6	688.4	687.9	687.9	687.7
5°	686.1	685.6	684.9	684.5	684.2	684.0	683.8	683.5	682.6	682.4	681.7
7.5°	679.8	679.4	678.2	677.7	677.0	676.8	675.9	675.4	674.5	673.6	673.1
10°	672.4	671.3	670.3	669.2	668.7	668.0	666.9	665.5	664.8	663.6	662.7
12.5°	664.1	662.7	660.8	659.4	659.0	657.8	656.0	654.8	653.2	651.3	649.7
15°	653.7	652.0	650.4	647.9	647.2	645.8	643.9	641.6	639.3	637.4	635.6
17.5°	642.3	639.8	637.2	634.4	632.4	631.7	628.7	625.4	623.3	620.1	618.0
20°	626.3	622.9	618.7	615.9	614.1	612.0	608.5	605.0	602.5	599.7	596.7
22.5°	604.3	601.1	596.2	592.1	590.7	587.7	584.7	581.4	578.2	575.2	571.5
25°	578.4	574.9	570.1	565.9	563.6	562.2	556.4	553.2	549.9	547.4	544.8
27.5°	551.8	545.5	542.3	535.8	533.7	533.3	527.9	524.5	521.0	517.5	514.3
30°	518.9	514.0	509.2	504.5	501.8	500.1	496.2	491.8	489.5	487.2	483.9
32.5°	484.9	480.5	474.4	470.0	468.0	465.6	462.2	459.2	455.7	453.1	452.4
35°	448.5	443.6	438.5	435.3	434.8	432.1	428.6	426.0	423.5	419.6	418.9
37.5°	409.6	406.8	403.4	398.7	396.6	396.6	393.2	391.3	388.1	387.8	386.0
40°	371.4	370.2	364.9	363.5	363.1	359.8	358.9	355.7	353.3	353.1	350.3
42.5°	333.7	330.6	329.7	327.4	325.3	324.9	322.8	321.4	320.5	319.1	317.7
45°	296.1	295.5	293.1	291.5	290.8	289.9	289.2	286.4	286.0	284.8	284.1
47.5°	263.7	261.9	259.8	257.9	257.7	256.3	254.7	254.7	252.2	251.9	251.5
50°	231.5	230.2	229.0	226.5	226.9	225.1	224.8	222.7	221.6	220.7	221.8
52.5°	203.3	200.5	200.1	198.0	197.3	197.5	195.0	194.3	193.8	192.9	192.4
55°	176.4	175.0	173.2	171.8	170.7	169.5	168.6	168.6	166.0	166.3	165.1
57.5°	152.8	151.7	149.3	147.3	146.8	145.4	144.3	143.1	142.9	141.2	140.1
60°	131.8	129.7	126.7	125.7	124.3	123.2	122.0	120.6	119.9	118.8	116.7
62.5°	112.1	108.6	107.4	105.6	104.0	103.3	101.4	99.8	98.6	97.0	95.4
65°	93.3	90.8	88.7	86.6	86.4	84.5	82.9	81.5	79.2	77.8	74.8
67.5°	76.2	73.9	71.5	69.5	67.8	67.4	64.8	63.2	61.6	58.8	56.3
70°	60.4	58.1	56.3	53.7	53.0	51.2	49.3	47.7	44.9	42.4	40.3
72.5°	46.1	43.5	41.4	39.6	38.4	36.8	35.0	33.1	30.3	27.8	25.9
75°	32.9	31.0	28.9	27.1	26.2	25.2	23.2	21.1	19.2	16.7	15.1
77.5°	22.2	20.4	18.5	16.9	15.7	15.1	13.7	12.0	10.4	9.0	7.9
80°	13.0	11.8	10.4	9.0	8.8	8.1	6.9	6.0	5.1	4.4	3.5
82.5°	6.3	5.6	4.6	3.9	3.5	3.2	2.8	2.3	1.9	1.6	1.6
85°	1.9	1.6	1.4	1.2	0.9	0.9	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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	687.0	686.8	686.5	686.3	685.8	685.8	685.1	684.7	684.7	684.2	684.0
5°	681.0	680.3	680.1	679.6	679.1	678.9	678.0	677.7	677.3	676.8	676.8
7.5°	672.4	671.5	670.6	670.1	669.9	669.2	668.7	668.5	667.8	667.3	666.4
10°	661.1	660.4	659.2	658.8	658.3	657.8	656.7	656.0	655.7	655.3	654.8
12.5°	647.9	646.9	645.8	644.9	644.4	643.7	642.5	641.8	641.8	640.9	640.9
15°	633.7	632.4	630.3	629.3	629.1	627.7	626.8	625.9	624.7	624.3	624.3
17.5°	615.7	613.4	611.5	611.5	610.6	609.2	607.8	607.1	606.4	605.5	605.0
20°	594.4	592.8	590.7	590.7	588.6	588.1	586.7	586.5	584.9	585.1	584.4
22.5°	568.7	567.8	566.6	565.7	564.5	563.1	562.4	562.7	562.0	561.7	561.5
25°	542.7	540.2	538.8	538.3	537.9	536.7	536.3	536.0	536.0	535.3	535.6
27.5°	512.9	511.0	509.2	509.9	508.9	508.2	507.8	507.1	507.6	507.3	507.6
30°	482.3	480.0	478.8	479.3	479.1	477.2	478.1	477.9	478.1	478.1	478.6
32.5°	450.1	448.5	448.3	448.5	446.4	446.7	445.7	447.1	447.3	448.7	447.6
35°	417.5	416.6	414.9	414.7	414.9	414.7	414.7	415.6	415.4	416.8	416.3
37.5°	383.9	383.4	381.8	382.3	381.4	383.0	383.4	383.0	384.6	384.1	383.9
40°	351.0	350.3	349.4	351.3	350.1	349.2	350.8	349.4	349.9	351.3	351.3
42.5°	317.7	316.5	316.5	316.5	316.3	316.3	317.0	317.7	317.2	317.5	319.3
45°	284.1	283.9	283.2	283.6	283.4	284.6	284.6	285.0	286.0	286.9	286.4
47.5°	251.7	251.2	251.9	251.5	251.7	251.0	251.5	252.8	254.0	252.4	254.0
50°	221.4	220.4	220.2	220.9	220.7	220.4	220.9	220.9	220.4	220.4	222.1
52.5°	192.4	191.5	190.8	192.0	191.3	191.5	190.6	190.6	191.0	190.6	189.9
55°	165.3	164.6	163.7	164.2	163.0	162.8	161.9	161.9	161.2	160.7	159.3
57.5°	139.4	138.9	136.8	136.6	136.8	135.2	133.6	132.9	131.1	130.6	130.4
60°	116.5	113.9	112.8	111.4	110.4	109.8	107.9	106.7	104.0	102.3	102.1
62.5°	92.6	91.5	90.1	88.0	87.5	85.2	83.4	80.3	79.0	76.9	74.8
65°	73.4	70.4	68.3	67.1	65.3	63.2	61.1	57.9	56.3	53.7	51.6
67.5°	53.7	51.2	48.4	47.5	45.8	43.3	41.2	38.4	37.0	34.7	34.0
70°	36.8	34.5	32.4	31.0	29.9	27.3	25.2	24.3	22.9	22.5	22.5
72.5°	23.6	21.5	19.2	18.5	17.6	16.2	14.8	14.4	14.8	14.6	14.6
75°	13.2	12.0	10.4	9.7	9.7	9.3	9.0	9.0	9.0	9.0	9.0
77.5°	6.7	6.0	5.6	5.3	5.3	5.3	5.6	5.6	5.6	5.8	5.6
80°	3.2	3.0	3.0	3.0	3.2	3.2	3.2	3.2	3.2	3.5	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9
85°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	683.8	683.3	683.3	683.1	683.1	683.1	683.1	683.3
5°	676.3	676.1	676.1	675.7	675.7	675.7	675.7	675.7
7.5°	666.4	665.9	666.2	665.7	665.7	665.9	665.7	665.5
10°	654.1	653.9	654.1	654.1	653.7	653.4	653.7	653.9
12.5°	640.2	640.0	639.5	639.8	639.8	639.5	639.3	638.8
15°	624.0	623.8	623.6	623.3	623.1	623.3	623.1	622.6
17.5°	605.0	605.0	604.8	604.6	604.3	603.9	604.1	604.8
20°	584.7	584.4	584.0	584.2	583.3	582.8	583.0	583.7
22.5°	561.3	560.6	561.0	560.3	560.3	560.6	560.3	559.9
25°	535.8	534.9	535.3	535.6	535.6	535.3	535.1	535.3
27.5°	507.6	508.2	508.2	507.8	508.5	507.6	508.0	508.2
30°	478.6	477.9	477.7	478.6	480.0	478.8	478.8	479.1
32.5°	448.7	447.8	447.8	448.3	448.0	448.0	449.0	447.8
35°	416.8	417.2	415.4	416.6	417.0	416.6	416.8	416.8
37.5°	384.6	384.1	384.1	384.1	384.8	384.8	385.3	385.1
40°	352.9	352.0	351.7	352.2	351.3	352.0	352.0	351.3
42.5°	318.6	318.8	320.0	318.8	319.1	318.8	318.4	318.1
45°	286.9	287.6	287.1	286.9	287.1	286.2	286.4	287.1
47.5°	253.3	254.7	253.3	254.2	254.0	253.5	253.1	252.2
50°	221.8	222.3	222.1	221.8	221.6	221.4	220.2	219.5
52.5°	189.6	189.6	189.6	189.6	187.3	188.5	188.0	186.6
55°	158.1	158.8	157.9	157.9	156.3	156.3	155.8	156.1
57.5°	127.8	127.1	126.4	126.4	124.8	124.1	123.4	122.5
60°	99.6	98.9	97.9	96.8	95.2	95.2	94.7	92.9
62.5°	72.9	71.8	71.1	70.2	68.8	67.8	67.1	67.6
65°	50.0	48.9	47.9	47.9	47.9	47.5	47.2	47.2
67.5°	32.9	33.6	33.1	33.6	33.6	33.1	32.9	33.3
70°	22.7	22.7	22.5	22.5	22.5	22.5	22.2	22.5
72.5°	14.6	14.6	14.6	14.8	14.6	14.6	14.8	14.8
75°	9.3	9.3	9.3	9.5	9.3	9.3	9.5	9.3
77.5°	5.6	5.8	5.8	5.8	5.8	5.6	5.8	5.8
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)