

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: P684046

Luminaire Tested: **LX6C15D010 EX6C159030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684046
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 EX6C159030 6LBLWWH
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

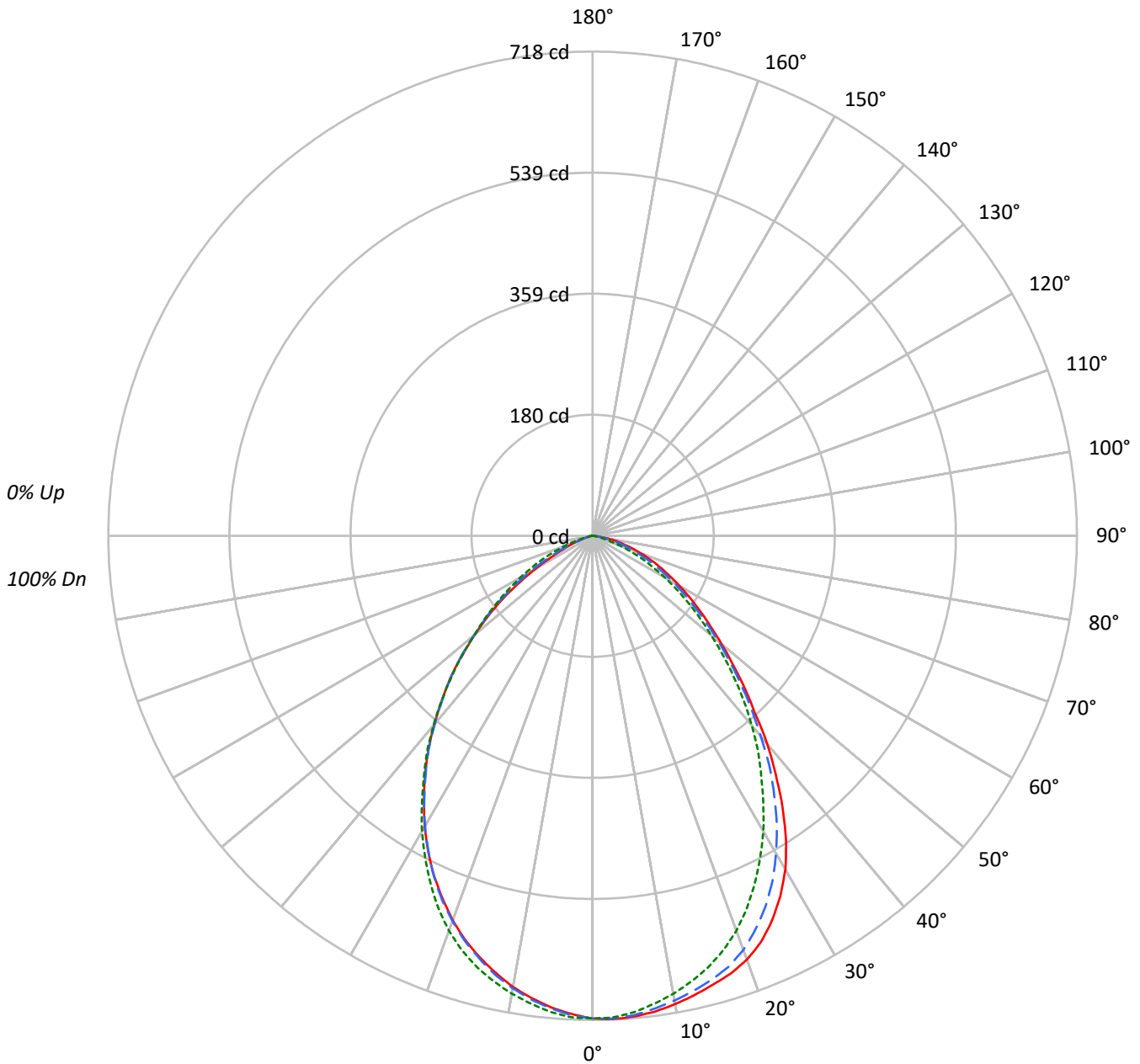
Lumens per Lamp: N/A
Luminaire Lumens: 1302.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39240	39240	39240
5°	39374	39021	38636
10°	39256	38387	37825
15°	39109	37594	36720
20°	39023	36356	35388
25°	38071	34405	33649
30°	36170	32043	31511
35°	32832	29178	28984
40°	28804	26256	26120
45°	24700	22940	23126
50°	21262	19556	19454
55°	18580	16516	15502
60°	16325	13530	10580
65°	14295	10481	6369
70°	12182	7052	3735
75°	9828	3664	2033
80°	6851	1452	1137
85°	2705	440	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	5.2
10°-20°	187.3	14.4
20°-30°	266.5	20.5
30°-40°	280.5	21.5
40°-50°	233.8	18.0
50°-60°	157.9	12.1
60°-70°	80.1	6.2
70°-80°	25.9	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°	520.9	40.0
0°-40°	801.4	61.6
0°-60°	1193.1	91.6
0°-90°	1302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	716	713	709	704	702	68
15°	689	682	662	649	647	195
25°	629	607	569	557	556	288
35°	491	469	436	432	433	305
45°	319	310	296	297	298	247
55°	194	185	173	168	162	175
65°	110	99	81	58	49	110
75°	46	36	17	9	10	50
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°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	717.5	717.5	717.5	717.5	717.5	717.5	717.2	717.2	716.8	716.8	716.5
5°	715.5	715.8	715.8	715.5	715.5	715.1	715.1	714.8	714.1	713.6	713.4
7.5°	711.5	711.5	711.2	711.0	710.7	710.0	709.8	709.1	708.6	708.1	707.1
10°	705.2	705.2	705.0	704.5	704.2	703.8	703.8	702.8	701.8	700.6	699.9
12.5°	697.7	698.0	697.5	697.3	696.5	696.3	695.8	694.6	693.9	692.5	691.2
15°	689.1	689.6	689.6	688.6	687.9	687.6	686.9	686.2	684.5	683.1	681.6
17.5°	680.7	681.1	680.7	679.9	679.2	678.3	677.8	676.3	674.2	672.2	670.1
20°	668.9	669.6	668.6	667.4	666.0	665.7	665.0	662.6	659.5	656.6	653.5
22.5°	652.3	651.8	651.1	650.6	648.2	646.7	645.8	642.6	639.3	635.4	631.6
25°	629.4	630.4	628.9	626.8	625.6	624.1	621.7	618.3	615.2	611.1	606.6
27.5°	602.5	602.5	600.5	599.8	597.2	595.2	594.0	590.7	586.6	582.5	577.4
30°	571.4	570.0	570.0	566.6	564.5	563.7	562.5	557.0	553.4	549.1	544.0
32.5°	533.9	533.7	532.7	530.5	527.6	525.2	525.2	521.4	516.6	511.3	508.2
35°	490.6	490.8	490.3	487.9	487.9	485.1	484.6	481.2	477.4	473.3	469.4
37.5°	445.8	446.8	445.8	444.6	443.9	443.7	441.5	439.1	436.2	433.8	430.9
40°	402.5	401.1	401.6	399.2	399.4	398.9	398.0	394.8	393.1	390.7	387.6
42.5°	355.9	357.3	357.8	356.3	355.9	354.9	355.9	354.6	352.7	351.5	348.6
45°	318.6	317.1	317.8	317.4	317.6	315.7	314.9	314.5	313.7	311.6	310.4
47.5°	281.5	281.7	281.5	280.5	280.1	280.1	279.1	277.7	277.7	276.2	275.2
50°	249.3	249.3	249.7	248.5	248.1	247.1	247.3	245.9	244.9	243.7	243.0
52.5°	219.7	219.9	218.9	219.2	218.7	218.7	217.7	216.8	215.8	213.7	213.2
55°	194.4	194.6	193.4	193.9	192.5	191.8	191.3	189.8	189.8	187.7	185.0
57.5°	170.8	170.6	170.3	169.6	168.7	167.9	167.2	165.5	164.8	163.4	161.2
60°	148.9	148.7	148.2	148.0	147.2	145.6	145.6	144.4	142.0	140.5	138.3
62.5°	128.2	128.2	128.0	127.3	126.6	125.8	125.4	124.4	122.0	120.3	118.4
65°	110.2	110.0	109.2	108.0	107.5	107.5	105.9	105.1	103.2	101.5	99.4
67.5°	92.9	91.9	91.4	91.7	90.2	90.2	88.8	87.6	85.9	83.0	81.3
70°	76.0	75.5	75.1	74.6	74.3	73.4	72.7	71.2	69.5	67.4	64.7
72.5°	60.9	60.9	60.2	59.7	58.9	58.0	57.5	56.3	54.4	52.0	50.0
75°	46.4	46.4	46.4	45.5	45.0	44.5	43.1	42.3	40.2	38.7	36.3
77.5°	34.2	33.7	33.0	32.7	32.2	31.8	31.0	29.8	27.9	26.2	24.8
80°	21.7	22.4	21.7	21.7	20.5	20.0	19.7	18.3	17.6	16.1	14.9
82.5°	12.0	12.3	11.8	11.5	10.8	10.6	10.6	9.6	9.1	8.2	7.5
85°	4.3	4.6	4.3	4.3	3.8	4.1	3.8	3.6	3.1	2.6	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°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	716.5	716.0	716.0	715.8	715.5	715.5	715.5	715.3	714.8	714.8	714.6
5°	712.9	712.4	711.7	711.2	711.0	710.7	710.5	710.3	709.3	709.1	708.3
7.5°	706.4	705.9	704.7	704.2	703.5	703.3	702.3	701.8	700.9	699.9	699.4
10°	698.7	697.5	696.5	695.3	694.9	694.1	692.9	691.5	690.8	689.6	688.6
12.5°	690.0	688.6	686.7	685.2	684.8	683.5	681.6	680.4	678.7	676.8	675.1
15°	679.2	677.5	675.9	673.2	672.5	671.0	669.1	666.7	664.3	662.4	660.5
17.5°	667.4	664.8	662.1	659.2	657.1	656.4	653.2	649.9	647.7	644.3	642.2
20°	650.8	647.2	642.9	640.0	638.1	635.9	632.3	628.7	626.0	623.2	620.0
22.5°	628.0	624.6	619.5	615.2	613.8	610.6	607.5	604.2	600.8	597.7	593.8
25°	601.0	597.4	592.4	588.0	585.6	584.2	578.2	574.8	571.4	568.8	566.1
27.5°	573.4	566.9	563.5	556.8	554.6	554.1	548.6	545.0	541.4	537.7	534.4
30°	539.2	534.1	529.1	524.3	521.4	519.7	515.6	511.0	508.6	506.2	502.9
32.5°	503.8	499.2	493.0	488.4	486.3	483.9	480.2	477.1	473.5	470.9	470.1
35°	466.0	461.0	455.7	452.3	451.9	449.0	445.4	442.7	440.1	436.0	435.2
37.5°	425.6	422.7	419.1	414.3	412.2	412.2	408.5	406.6	403.2	403.0	401.1
40°	385.9	384.7	379.2	377.7	377.3	373.9	372.9	369.6	367.2	366.9	364.0
42.5°	346.7	343.6	342.6	340.2	338.0	337.6	335.4	334.0	333.0	331.5	330.1
45°	307.7	307.0	304.6	302.9	302.2	301.2	300.5	297.6	297.1	295.9	295.2
47.5°	274.0	272.1	270.0	268.0	267.8	266.3	264.7	264.7	262.0	261.8	261.3
50°	240.6	239.2	238.0	235.3	235.8	233.9	233.6	231.5	230.3	229.3	230.5
52.5°	211.2	208.4	207.9	205.7	205.0	205.2	202.6	201.9	201.4	200.4	199.9
55°	183.3	181.9	180.0	178.5	177.3	176.1	175.2	175.2	172.5	172.8	171.5
57.5°	158.8	157.6	155.2	153.0	152.5	151.1	149.9	148.7	148.5	146.8	145.6
60°	136.9	134.7	131.6	130.6	129.2	128.0	126.8	125.4	124.6	123.4	121.3
62.5°	116.5	112.8	111.6	109.7	108.0	107.3	105.4	103.7	102.5	100.8	99.1
65°	97.0	94.3	92.2	90.0	89.7	87.8	86.1	84.7	82.3	80.8	77.7
67.5°	79.2	76.8	74.3	72.2	70.5	70.0	67.4	65.7	64.0	61.1	58.5
70°	62.8	60.4	58.5	55.8	55.1	53.2	51.2	49.6	46.7	44.0	41.9
72.5°	47.9	45.2	43.1	41.1	39.9	38.3	36.3	34.4	31.5	28.9	26.9
75°	34.2	32.2	30.1	28.2	27.2	26.2	24.1	21.9	20.0	17.3	15.6
77.5°	23.1	21.2	19.2	17.6	16.4	15.6	14.2	12.5	10.8	9.4	8.2
80°	13.5	12.3	10.8	9.4	9.1	8.4	7.2	6.3	5.3	4.6	3.6
82.5°	6.5	5.8	4.8	4.1	3.6	3.4	2.9	2.4	1.9	1.7	1.7
85°	1.9	1.7	1.4	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°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	713.9	713.6	713.4	713.1	712.7	712.7	711.9	711.5	711.5	711.0	710.7
5°	707.6	706.9	706.6	706.2	705.7	705.4	704.5	704.2	703.8	703.3	703.3
7.5°	698.7	697.7	696.8	696.3	696.1	695.3	694.9	694.6	693.9	693.4	692.5
10°	686.9	686.2	685.0	684.5	684.0	683.5	682.3	681.6	681.4	680.9	680.4
12.5°	673.2	672.2	671.0	670.1	669.6	668.9	667.7	666.9	666.9	666.0	666.0
15°	658.5	657.1	654.9	654.0	653.7	652.3	651.3	650.3	649.1	648.7	648.7
17.5°	639.8	637.4	635.4	635.4	634.5	633.0	631.6	630.9	630.1	629.2	628.7
20°	617.6	615.9	613.8	613.8	611.6	611.1	609.7	609.4	607.8	608.0	607.3
22.5°	590.9	590.0	588.8	587.8	586.6	585.1	584.4	584.7	583.9	583.7	583.5
25°	564.0	561.3	559.9	559.4	558.9	557.7	557.2	557.0	557.0	556.3	556.5
27.5°	532.9	531.0	529.1	529.8	528.8	528.1	527.6	526.9	527.4	527.2	527.4
30°	501.2	498.8	497.6	498.0	497.8	495.9	496.8	496.6	496.8	496.8	497.3
32.5°	467.7	466.0	465.8	466.0	463.9	464.1	463.2	464.6	464.8	466.3	465.1
35°	433.8	432.8	431.2	430.9	431.2	430.9	430.9	431.9	431.6	433.1	432.6
37.5°	398.9	398.4	396.8	397.2	396.3	398.0	398.4	398.0	399.6	399.2	398.9
40°	364.8	364.0	363.1	365.0	363.8	362.8	364.5	363.1	363.5	365.0	365.0
42.5°	330.1	328.9	328.9	328.9	328.7	328.7	329.4	330.1	329.6	329.9	331.8
45°	295.2	295.0	294.3	294.7	294.5	295.7	295.7	296.2	297.1	298.1	297.6
47.5°	261.5	261.1	261.8	261.3	261.5	260.8	261.3	262.7	263.9	262.3	263.9
50°	230.0	229.1	228.8	229.5	229.3	229.1	229.5	229.5	229.1	229.1	230.7
52.5°	199.9	199.0	198.3	199.5	198.7	199.0	198.0	198.0	198.5	198.0	197.3
55°	171.8	171.1	170.1	170.6	169.4	169.1	168.2	168.2	167.5	167.0	165.5
57.5°	144.8	144.4	142.2	142.0	142.2	140.5	138.8	138.1	136.2	135.7	135.5
60°	121.0	118.4	117.2	115.7	114.8	114.0	112.1	110.9	108.0	106.3	106.1
62.5°	96.2	95.0	93.6	91.4	90.9	88.5	86.6	83.5	82.0	79.9	77.7
65°	76.3	73.1	71.0	69.8	67.8	65.7	63.5	60.2	58.5	55.8	53.7
67.5°	55.8	53.2	50.3	49.3	47.6	45.0	42.8	39.9	38.5	36.1	35.4
70°	38.3	35.8	33.7	32.2	31.0	28.4	26.2	25.3	23.8	23.3	23.3
72.5°	24.5	22.4	20.0	19.2	18.3	16.8	15.4	14.9	15.4	15.2	15.2
75°	13.7	12.5	10.8	10.1	10.1	9.6	9.4	9.4	9.4	9.4	9.4
77.5°	7.0	6.3	5.8	5.5	5.5	5.5	5.8	5.8	5.8	6.0	5.8
80°	3.4	3.1	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.6	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.9	1.9	1.9	1.9
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	710.5	710.0	710.0	709.8	709.8	709.8	709.8	710.0
5°	702.8	702.6	702.6	702.1	702.1	702.1	702.1	702.1
7.5°	692.5	692.0	692.2	691.7	691.7	692.0	691.7	691.5
10°	679.7	679.5	679.7	679.7	679.2	679.0	679.2	679.5
12.5°	665.3	665.0	664.5	664.8	664.8	664.5	664.3	663.8
15°	648.4	648.2	647.9	647.7	647.5	647.7	647.5	647.0
17.5°	628.7	628.7	628.5	628.2	628.0	627.5	627.7	628.5
20°	607.5	607.3	606.8	607.0	606.1	605.6	605.8	606.6
22.5°	583.2	582.5	583.0	582.3	582.3	582.5	582.3	581.8
25°	556.8	555.8	556.3	556.5	556.5	556.3	556.0	556.3
27.5°	527.4	528.1	528.1	527.6	528.4	527.4	527.9	528.1
30°	497.3	496.6	496.4	497.3	498.8	497.6	497.6	497.8
32.5°	466.3	465.3	465.3	465.8	465.6	465.6	466.5	465.3
35°	433.1	433.6	431.6	432.8	433.3	432.8	433.1	433.1
37.5°	399.6	399.2	399.2	399.2	399.9	399.9	400.4	400.1
40°	366.7	365.7	365.5	366.0	365.0	365.7	365.7	365.0
42.5°	331.1	331.3	332.5	331.3	331.5	331.3	330.8	330.6
45°	298.1	298.8	298.3	298.1	298.3	297.4	297.6	298.3
47.5°	263.2	264.7	263.2	264.2	263.9	263.5	263.0	262.0
50°	230.5	231.0	230.7	230.5	230.3	230.0	228.8	228.1
52.5°	197.1	197.1	197.1	197.1	194.6	195.8	195.4	193.9
55°	164.3	165.1	164.1	164.1	162.4	162.4	161.9	162.2
57.5°	132.8	132.1	131.4	131.4	129.7	129.0	128.2	127.3
60°	103.5	102.7	101.8	100.6	98.9	98.9	98.4	96.5
62.5°	75.8	74.6	73.9	72.9	71.5	70.5	69.8	70.3
65°	52.0	50.8	49.8	49.8	49.8	49.3	49.1	49.1
67.5°	34.2	34.9	34.4	34.9	34.9	34.4	34.2	34.6
70°	23.6	23.6	23.3	23.3	23.3	23.3	23.1	23.3
72.5°	15.2	15.2	15.2	15.4	15.2	15.2	15.4	15.4
75°	9.6	9.6	9.6	9.9	9.6	9.6	9.9	9.6
77.5°	5.8	6.0	6.0	6.0	6.0	5.8	6.0	6.0
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)