

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252339

Luminaire Tested: **LE_6B10D010 EC6B10208040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1245.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

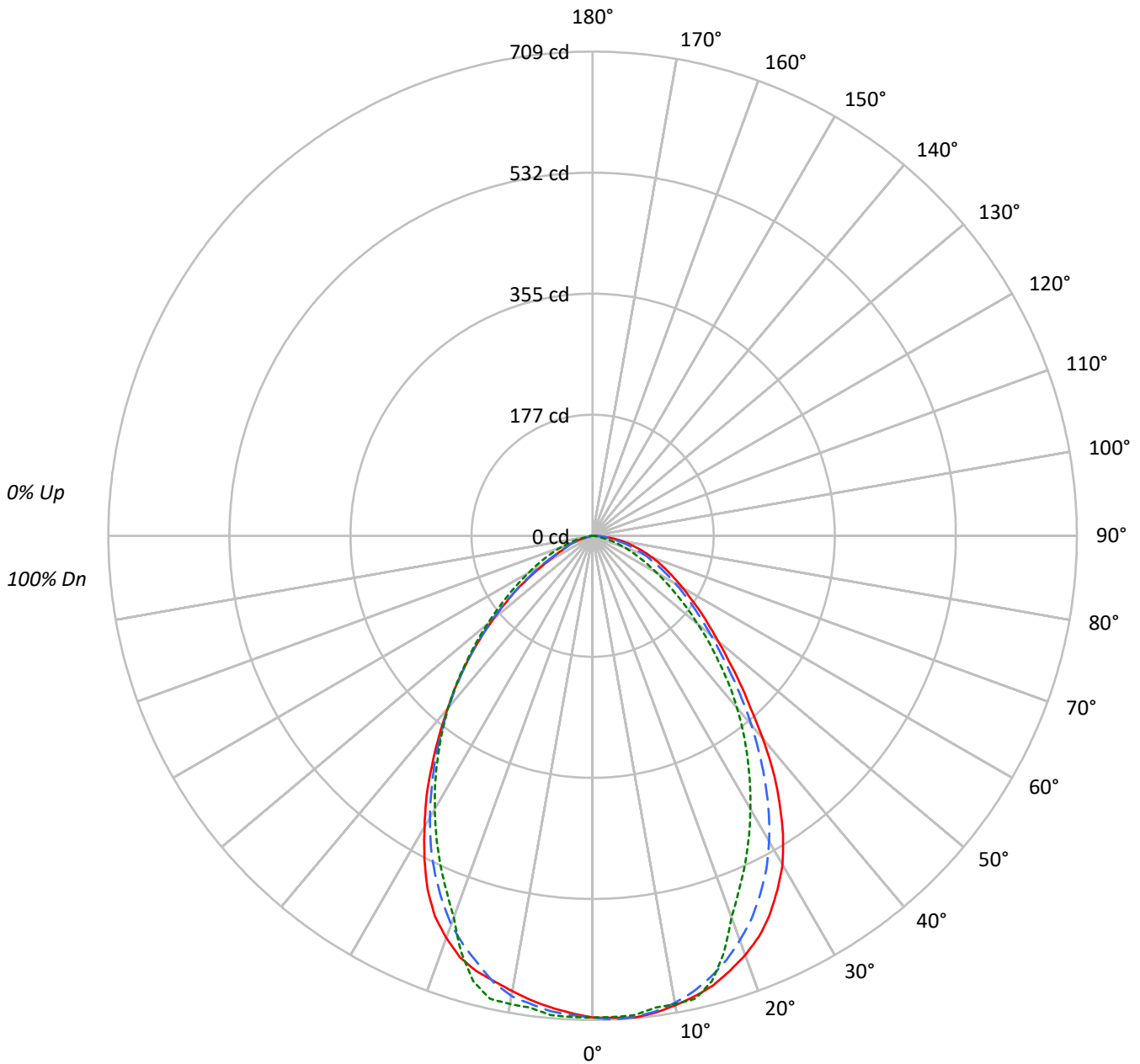
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46021	46021	46021
5°	46373	46138	45417
10°	46247	46121	44849
15°	46037	45604	44551
20°	45350	41282	43503
25°	44120	38051	41147
30°	41893	34789	37064
35°	38006	31451	32614
40°	33002	28011	28088
45°	28150	24090	23841
50°	24359	20360	19244
55°	21782	16993	14900
60°	19846	14105	10047
65°	18525	11593	7487
70°	17644	9442	6295
75°	16637	6705	2067
80°	15817	3419	714
85°	13025	2096	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	5.4
10°-20°	186.3	15.0
20°-30°	257.2	20.7
30°-40°	261.7	21.0
40°-50°	210.3	16.9
50°-60°	139.9	11.2
60°-70°	79.7	6.4
70°-80°	35.8	2.9
80°-90°	7.5	0.6
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°	510.1	41.0
0°-40°	771.8	62.0
0°-60°	1122.0	90.1
0°-90°	1245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	705	705	705	705	705	
5°	708	707	704	699	694	67
15°	682	669	675	649	660	192
25°	613	580	529	546	572	281
35°	477	441	395	402	410	297
45°	305	287	261	258	258	237
55°	192	179	149	133	131	172
65°	120	107	75	48	48	120
75°	66	55	27	11	8	70
85°	17	12	3	1	0	21
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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	706.4	710.0	709.1	708.1	709.1	708.1	706.4	706.4	704.5	704.5	709.1
5°	708.1	710.0	709.1	708.1	708.1	709.1	705.4	705.4	703.6	702.6	707.2
7.5°	704.5	707.2	705.4	705.4	704.5	705.4	701.8	701.8	699.0	698.1	702.6
10°	698.1	701.8	699.9	699.9	699.9	698.1	696.2	695.4	692.6	691.6	694.4
12.5°	690.8	693.5	692.6	690.8	690.8	690.8	687.1	686.2	682.5	680.8	683.5
15°	681.6	683.5	682.5	681.6	679.8	679.8	676.1	674.2	670.6	667.0	668.8
17.5°	667.9	670.6	668.8	667.9	665.1	665.1	661.5	659.6	654.1	650.5	651.4
20°	653.2	654.1	653.2	651.4	648.6	647.8	644.0	640.4	635.8	631.2	630.2
22.5°	635.8	636.8	634.0	632.1	629.4	628.5	623.9	621.1	613.9	608.4	607.4
25°	612.9	613.9	613.9	609.2	607.4	605.6	601.0	596.4	590.0	582.6	579.9
27.5°	585.4	588.1	586.4	581.8	578.1	577.1	572.6	568.9	560.6	554.2	550.6
30°	556.1	555.1	554.2	551.5	546.0	545.1	540.5	536.0	529.5	521.2	516.8
32.5°	518.5	518.5	517.6	514.9	509.4	507.5	503.9	498.4	491.0	484.6	480.0
35°	477.2	478.2	477.2	471.8	468.1	466.4	464.5	458.1	451.6	444.4	440.6
37.5°	434.2	431.5	432.4	427.9	423.2	425.1	419.6	416.9	409.5	404.0	400.4
40°	387.5	389.4	385.8	383.9	381.1	378.4	378.4	373.8	370.1	363.8	361.9
42.5°	341.8	344.5	343.5	341.8	338.0	339.0	334.4	332.5	328.0	325.2	322.5
45°	305.1	305.1	305.1	303.2	302.4	300.5	297.8	295.0	292.2	288.6	286.8
47.5°	269.4	269.4	270.2	268.4	266.6	265.6	263.9	263.9	259.2	255.6	253.8
50°	240.0	240.0	240.0	238.2	236.4	236.4	234.5	232.8	230.0	227.2	225.4
52.5°	213.5	213.5	213.5	211.6	210.8	209.8	208.9	208.0	204.2	202.5	200.6
55°	191.5	190.5	190.5	189.6	187.8	187.8	186.9	185.0	182.2	179.6	178.6
57.5°	169.5	170.4	169.5	169.5	167.6	167.6	165.9	164.9	162.1	160.4	158.5
60°	152.1	152.1	152.1	151.1	149.4	150.2	148.4	147.5	144.8	142.0	140.1
62.5°	134.6	135.6	135.6	134.6	132.9	132.9	131.9	131.0	128.2	125.5	122.8
65°	120.0	120.0	120.0	119.1	118.1	118.1	117.2	116.4	113.6	109.9	107.2
67.5°	106.2	105.4	105.4	105.4	104.5	103.5	102.6	101.8	99.0	96.2	92.5
70°	92.5	92.5	92.5	91.6	89.8	90.8	89.8	88.9	86.1	83.4	80.6
72.5°	79.8	79.8	78.8	77.9	77.9	77.0	77.0	76.0	73.2	69.6	66.9
75°	66.0	66.0	66.0	66.0	64.1	65.0	63.2	62.2	60.5	57.8	55.0
77.5°	54.0	54.0	54.0	53.1	52.2	52.2	51.2	50.4	47.6	45.8	42.1
80°	42.1	42.1	42.1	42.1	41.2	40.2	39.4	38.5	36.6	33.9	31.1
82.5°	31.1	31.1	30.2	30.2	30.2	29.4	28.4	27.5	25.6	23.9	22.0
85°	17.4	18.4	18.4	16.5	17.4	16.5	16.5	14.6	14.6	12.9	11.9
87.5°	6.4	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6	4.6	3.6
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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	705.4	704.5	708.1	708.1	702.6	705.4	706.4	704.5	704.5	705.4	702.6
5°	703.6	701.8	705.4	706.4	700.9	703.6	704.5	702.6	703.6	704.5	700.9
7.5°	697.1	697.1	699.9	700.9	695.4	698.1	698.1	696.2	697.1	697.1	694.4
10°	690.8	688.0	690.8	690.8	686.2	687.1	688.9	688.0	691.6	696.2	696.2
12.5°	678.9	676.1	680.8	680.8	678.0	681.6	686.2	688.9	692.6	694.4	688.9
15°	664.2	665.1	673.4	679.8	677.0	682.5	687.1	685.2	680.8	675.2	667.0
17.5°	645.0	642.2	649.5	653.2	649.5	651.4	655.0	651.4	644.0	639.5	628.5
20°	623.0	615.6	615.6	613.9	607.4	607.4	606.5	600.1	597.4	594.6	590.0
22.5°	598.2	590.0	587.2	581.8	576.2	575.4	572.6	566.1	562.5	560.6	555.1
25°	569.9	562.5	557.9	552.4	544.1	542.4	539.6	533.2	531.4	528.6	524.0
27.5°	540.5	531.4	525.0	519.5	512.1	511.2	505.8	501.1	497.5	495.6	492.0
30°	506.6	496.5	492.0	484.6	479.1	477.2	472.8	466.4	463.6	461.8	459.0
32.5°	469.1	460.9	456.2	449.9	442.5	443.4	437.9	432.4	430.6	428.8	426.0
35°	432.4	424.1	418.6	413.1	408.6	406.8	403.1	398.5	395.8	394.9	393.0
37.5°	392.1	385.8	381.1	375.6	372.0	370.1	368.2	363.8	361.9	361.9	358.2
40°	352.8	347.2	343.5	340.8	336.2	335.2	333.5	330.8	329.8	328.9	326.1
42.5°	317.0	309.6	306.9	305.1	302.4	300.5	299.6	297.8	296.9	295.9	293.1
45°	283.1	276.6	273.9	272.1	269.4	268.4	267.5	264.8	262.9	261.1	260.1
47.5°	250.1	245.5	244.6	240.0	238.2	236.4	234.5	232.8	231.8	230.9	227.2
50°	221.8	219.0	214.4	211.6	209.8	208.9	205.2	202.5	201.5	200.6	197.9
52.5°	196.0	192.4	189.6	185.0	184.1	182.2	180.5	176.9	175.0	174.1	171.4
55°	173.1	170.4	166.8	163.1	160.4	159.4	156.6	153.0	151.1	149.4	147.5
57.5°	153.9	149.4	145.6	142.0	140.1	137.4	134.6	132.9	130.1	127.4	124.6
60°	135.6	131.9	127.4	123.6	121.9	120.0	116.4	113.6	110.9	108.1	105.4
62.5°	118.1	114.5	109.9	106.2	104.5	102.6	99.0	96.2	93.5	90.8	87.0
65°	102.6	99.0	95.2	91.6	89.8	88.0	84.2	80.6	77.9	75.1	71.5
67.5°	89.8	85.2	81.5	77.9	76.0	74.2	70.5	67.8	64.1	61.4	57.8
70°	76.0	72.4	69.6	66.0	64.1	62.2	58.6	55.0	52.2	49.5	45.8
72.5°	64.1	59.5	56.8	53.1	51.2	50.4	46.8	44.0	41.2	37.5	34.9
75°	51.2	47.6	44.0	41.2	39.4	38.5	34.9	32.1	29.4	26.6	23.9
77.5°	39.4	36.6	33.0	30.2	28.4	27.5	23.9	21.1	18.4	16.5	13.8
80°	29.4	25.6	23.9	21.1	20.1	18.4	16.5	13.8	11.9	9.1	7.4
82.5°	20.1	17.4	15.6	13.8	12.9	11.9	10.1	8.2	6.4	5.5	4.6
85°	11.0	9.1	8.2	7.4	6.4	6.4	5.5	4.6	3.6	2.8	1.9
87.5°	3.6	2.8	2.8	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9
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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	704.5	704.5	704.5	703.6	703.6	703.6	702.6	706.4	702.6	701.8	704.5
5°	703.6	701.8	701.8	701.8	701.8	700.9	699.9	701.8	699.0	698.1	698.1
7.5°	698.1	697.1	697.1	696.2	695.4	694.4	693.5	694.4	691.6	690.8	690.8
10°	699.0	697.1	697.1	694.4	692.6	689.9	687.1	688.0	684.4	681.6	681.6
12.5°	688.0	683.5	680.8	678.0	676.1	675.2	671.5	673.4	669.8	668.8	668.8
15°	663.2	657.8	653.2	651.4	651.4	649.5	646.8	650.5	648.6	649.5	654.1
17.5°	624.8	622.0	619.2	618.4	619.2	621.1	623.0	628.5	628.5	631.2	635.8
20°	590.9	589.1	590.9	590.9	591.9	595.5	599.1	603.8	605.6	608.4	614.8
22.5°	557.9	557.9	559.8	562.5	561.6	568.0	568.9	577.1	577.1	582.6	588.1
25°	525.9	525.9	527.8	528.6	530.5	534.1	537.8	544.1	546.0	551.5	556.1
27.5°	494.8	493.8	493.8	494.8	496.5	501.1	503.0	510.2	513.0	516.8	521.2
30°	459.9	459.0	460.9	462.6	461.8	466.4	469.1	474.5	476.4	480.0	483.8
32.5°	426.9	426.9	426.9	428.8	428.8	432.4	432.4	438.9	438.9	441.6	445.2
35°	393.0	393.0	394.0	394.9	395.8	396.8	397.6	401.2	402.1	403.1	404.9
37.5°	361.0	360.0	361.0	361.0	359.1	362.8	362.8	366.5	363.8	366.5	367.4
40°	328.0	328.0	327.0	327.0	327.0	328.9	327.0	329.8	328.0	329.8	328.9
42.5°	294.1	294.1	292.2	294.1	293.1	293.1	293.1	295.0	292.2	294.1	295.0
45°	260.1	259.2	259.2	258.4	258.4	258.4	259.2	259.2	258.4	260.1	260.1
47.5°	227.2	226.2	226.2	226.2	226.2	227.2	224.5	226.2	224.5	224.5	224.5
50°	198.8	197.9	197.0	196.0	195.1	195.1	194.2	194.2	192.4	191.5	190.5
52.5°	171.4	170.4	168.6	168.6	167.6	166.8	164.0	164.0	161.2	160.4	160.4
55°	146.6	143.9	142.9	141.1	141.1	139.2	137.4	135.6	132.9	131.0	131.0
57.5°	123.6	120.9	119.1	118.1	117.2	115.4	111.8	110.9	107.2	106.2	105.4
60°	103.5	100.8	98.0	96.2	95.2	92.5	88.9	87.0	85.2	82.5	79.8
62.5°	84.2	81.5	77.9	77.0	75.1	72.4	69.6	66.9	65.0	62.2	60.5
65°	67.8	65.0	62.2	60.5	58.6	55.9	53.1	50.4	48.5	47.6	46.8
67.5°	55.0	51.2	48.5	47.6	45.8	44.0	41.2	40.2	38.5	38.5	38.5
70°	43.0	40.2	37.5	36.6	35.8	33.9	32.1	32.1	32.1	32.1	32.1
72.5°	32.1	30.2	27.5	26.6	25.6	24.8	22.9	23.9	22.9	22.9	22.9
75°	20.1	18.4	16.5	15.6	14.6	13.8	12.9	11.9	11.0	10.1	10.1
77.5°	11.0	9.1	8.2	7.4	7.4	6.4	5.5	5.5	4.6	4.6	4.6
80°	6.4	5.5	4.6	3.6	3.6	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	3.6	2.8	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
85°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	705.4	705.4	705.4	705.4	705.4	705.4	705.4	705.4
2.5°	699.9	702.6	699.9	702.6	702.6	702.6	702.6	699.9
5°	695.4	697.1	694.4	696.2	697.1	696.2	696.2	693.5
7.5°	687.1	688.9	686.2	688.9	689.9	688.9	688.0	686.2
10°	678.9	679.8	677.0	678.9	680.8	680.8	679.8	677.0
12.5°	666.0	668.8	666.0	667.9	669.8	670.6	670.6	667.9
15°	651.4	656.0	654.1	656.9	659.6	660.5	660.5	659.6
17.5°	636.8	641.2	638.5	643.1	645.9	647.8	648.6	646.8
20°	615.6	621.1	619.2	623.0	626.6	629.4	629.4	626.6
22.5°	588.1	595.5	594.6	597.4	601.9	602.9	604.6	602.9
25°	557.9	563.4	562.5	565.2	570.8	570.8	571.6	571.6
27.5°	523.1	528.6	527.8	529.5	533.2	534.1	535.0	533.2
30°	485.5	488.2	488.2	491.0	493.8	494.8	494.8	492.0
32.5°	444.4	448.0	449.9	448.9	451.6	453.5	452.6	452.6
35°	406.8	407.6	408.6	409.5	410.4	412.2	410.4	409.5
37.5°	366.5	369.2	367.4	369.2	371.0	370.1	369.2	369.2
40°	329.8	330.8	328.9	330.8	331.6	331.6	331.6	329.8
42.5°	293.1	295.0	293.1	295.0	295.0	295.0	295.0	294.1
45°	256.5	258.4	258.4	259.2	259.2	258.4	258.4	258.4
47.5°	222.6	224.5	222.6	224.5	225.4	223.5	223.5	223.5
50°	190.5	189.6	189.6	190.5	190.5	190.5	190.5	189.6
52.5°	157.6	158.5	158.5	158.5	159.4	158.5	159.4	159.4
55°	129.1	129.1	129.1	130.1	129.1	129.1	130.1	131.0
57.5°	103.5	102.6	101.8	101.8	102.6	101.8	101.8	101.8
60°	79.8	78.8	77.9	77.9	77.9	77.9	77.9	77.0
62.5°	59.5	59.5	59.5	60.5	60.5	60.5	60.5	61.4
65°	47.6	47.6	47.6	47.6	47.6	47.6	47.6	48.5
67.5°	38.5	38.5	38.5	39.4	39.4	39.4	39.4	39.4
70°	32.1	32.1	33.0	32.1	33.0	33.0	33.0	33.0
72.5°	22.0	22.0	22.0	22.0	22.0	21.1	22.0	21.1
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	8.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)