

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: P252546

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1357.5 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

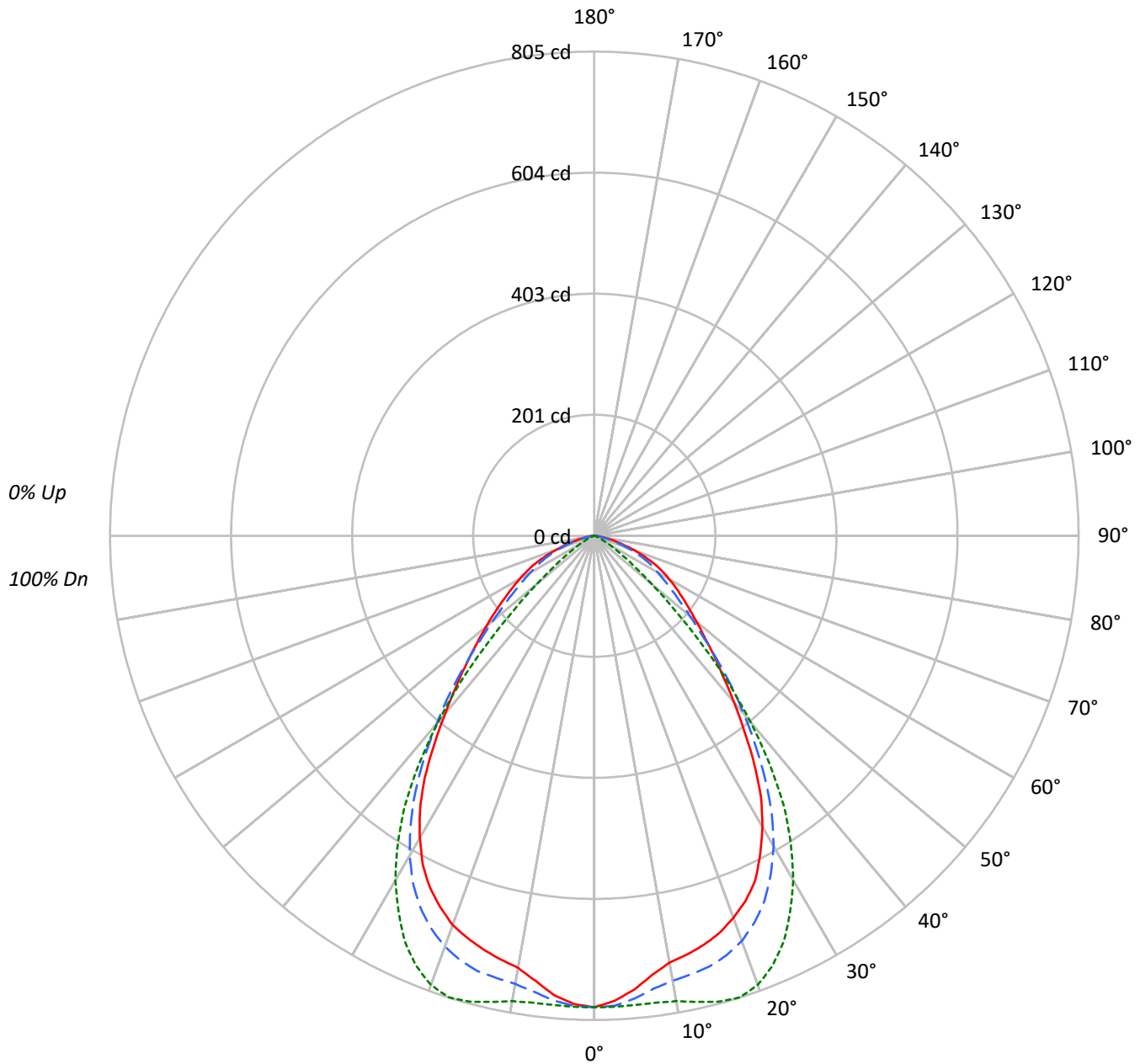
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51136	51136	51136
5°	49609	51272	50198
10°	47724	52044	48321
15°	47550	54162	48097
20°	46926	55167	47808
25°	45531	53614	46502
30°	42111	49826	43686
35°	36947	43804	39113
40°	30787	34339	32797
45°	25917	22651	27670
50°	22441	12423	23811
55°	20303	6597	20815
60°	18672	3419	18672
65°	16919	1822	16502
70°	13658	1030	12609
75°	9352	706	8671
80°	6086	338	5448
85°	4042	674	3368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	5.4
10°-20°	211.3	15.6
20°-30°	312.2	23.0
30°-40°	315.4	23.2
40°-50°	217.4	16.0
50°-60°	124.9	9.2
60°-70°	72.7	5.4
70°-80°	26.5	2.0
80°-90°	4.0	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°	596.7	44.0
0°-40°	912.0	67.2
0°-60°	1254.3	92.4
0°-90°	1357.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	784	784	784	784	784	
5°	758	772	783	776	766	71
15°	704	741	802	749	712	198
25°	632	670	745	683	646	288
35°	464	496	550	518	491	288
45°	281	284	246	303	300	218
55°	178	157	58	163	183	161
65°	110	92	12	92	107	107
75°	37	30	3	29	34	42
85°	5	3	1	4	4	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°	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8
2.5°	773.8	774.8	775.6	774.8	775.6	779.2	776.5	778.4	778.4	779.2	782.0
5°	757.5	757.5	759.2	758.4	761.1	764.8	762.0	764.8	765.6	767.5	772.0
7.5°	736.6	736.6	737.5	737.5	741.1	744.8	743.0	746.6	750.2	753.9	759.2
10°	720.4	722.1	722.1	723.0	726.6	731.2	730.2	734.9	738.5	743.9	751.1
12.5°	713.1	714.0	714.0	715.8	719.4	724.0	723.0	727.6	733.0	739.4	746.6
15°	704.0	705.9	704.9	706.8	710.4	714.9	714.0	718.5	724.9	731.2	741.1
17.5°	692.2	693.1	694.0	694.0	697.6	701.2	701.2	705.9	713.1	720.4	731.2
20°	675.9	677.8	677.8	678.6	681.4	686.8	685.9	690.4	697.6	704.9	716.8
22.5°	656.9	657.8	657.8	658.8	663.2	666.0	666.9	670.5	676.9	685.0	695.9
25°	632.5	633.4	632.5	635.1	637.0	642.4	640.6	645.1	652.4	658.8	669.6
27.5°	597.1	598.9	598.9	599.9	604.4	608.9	608.9	613.4	619.8	624.2	635.1
30°	559.0	561.8	559.0	563.6	565.4	569.0	571.8	574.5	579.9	586.2	596.2
32.5°	515.5	514.6	515.5	517.4	522.8	525.5	527.4	530.0	535.5	540.9	549.1
35°	463.9	465.8	466.6	470.2	470.2	474.8	475.8	477.5	485.6	489.2	495.6
37.5°	409.5	411.4	412.2	414.1	417.8	419.5	422.2	425.0	430.4	436.8	440.4
40°	361.5	361.5	362.4	364.2	367.0	367.9	370.6	374.2	377.9	383.2	386.9
42.5°	316.2	317.1	316.2	318.0	320.8	324.4	323.5	328.0	328.9	332.5	335.2
45°	280.9	280.9	279.1	280.9	280.9	284.5	283.6	285.4	284.5	286.4	284.5
47.5°	247.4	248.2	247.4	248.2	248.2	248.2	249.1	247.4	248.2	245.5	240.1
50°	221.1	222.0	220.1	221.1	220.1	219.2	220.1	217.5	216.5	212.9	207.5
52.5°	198.4	197.5	196.6	196.6	196.6	195.8	194.8	192.1	189.4	185.8	179.4
55°	178.5	177.6	176.6	176.6	174.9	174.0	174.0	171.2	168.5	164.0	156.8
57.5°	160.4	159.5	158.6	158.6	157.6	155.9	155.9	153.1	149.5	144.1	137.8
60°	143.1	143.1	143.1	142.2	142.2	140.5	140.5	137.8	134.1	128.6	121.4
62.5°	127.8	126.9	126.9	126.9	126.9	126.0	125.0	123.2	119.6	114.1	107.9
65°	109.6	109.6	109.6	109.6	108.8	108.8	108.8	106.0	104.2	98.8	92.4
67.5°	89.8	89.8	89.8	89.8	88.8	89.8	89.8	87.9	86.1	80.6	75.2
70°	71.6	70.6	69.8	70.6	69.8	69.8	70.6	68.9	68.0	63.4	58.0
72.5°	52.5	53.5	52.5	52.5	52.5	51.6	52.5	51.6	49.9	46.2	42.6
75°	37.1	38.0	38.0	37.1	37.1	37.1	36.2	36.2	34.4	31.8	29.9
77.5°	25.4	25.4	25.4	25.4	24.5	24.5	24.5	23.5	22.6	20.9	19.0
80°	16.2	16.2	16.2	16.2	15.4	15.4	15.4	14.5	14.5	12.6	10.9
82.5°	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0	8.1	7.2	6.4
85°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.5	4.5	3.6	2.8
87.5°	1.8	1.8	2.8	2.8	2.8	2.8	2.8	2.8	1.8	1.8	1.8
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°	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8
2.5°	780.1	781.0	781.0	781.0	783.8	784.6	782.0	779.2	784.6	783.8	785.6
5°	771.1	773.8	775.6	776.5	779.2	781.0	778.4	777.4	782.0	782.9	783.8
7.5°	760.2	764.8	769.2	771.1	774.8	776.5	775.6	775.6	781.0	782.9	782.9
10°	753.0	759.2	764.8	769.2	773.8	776.5	776.5	777.4	783.8	785.6	787.4
12.5°	751.1	759.2	766.5	772.9	776.5	781.0	782.0	784.6	791.0	793.8	793.8
15°	746.6	757.5	766.5	774.8	780.1	785.6	787.4	792.9	800.0	801.9	803.6
17.5°	738.5	749.4	760.2	770.1	777.4	782.0	787.4	792.9	801.9	804.6	805.5
20°	724.0	736.6	747.5	757.5	764.8	771.1	776.5	782.9	791.0	794.6	795.5
22.5°	702.2	714.9	725.8	736.6	743.9	749.4	754.8	762.0	770.1	773.8	773.8
25°	675.9	687.8	699.5	707.6	714.9	721.2	724.0	732.1	740.2	744.8	744.8
27.5°	642.4	653.2	664.1	673.2	677.8	683.1	687.8	695.0	701.2	704.9	708.5
30°	599.9	610.8	620.6	629.8	635.1	640.6	645.1	650.5	656.9	661.4	662.4
32.5°	553.6	562.6	572.6	581.8	587.1	589.0	593.5	598.9	604.4	608.0	608.9
35°	502.9	509.2	515.5	523.8	529.1	529.1	533.6	537.2	541.9	550.0	548.1
37.5°	443.1	452.1	456.6	459.4	463.0	466.6	467.5	472.1	477.5	479.2	482.0
40°	386.9	389.6	392.4	392.4	396.0	396.0	396.0	396.9	402.2	403.2	406.9
42.5°	330.8	330.8	328.0	325.2	326.1	325.2	320.8	320.8	323.5	327.1	327.1
45°	278.1	271.9	263.6	257.4	252.8	251.0	245.5	245.5	244.6	245.5	249.1
47.5°	233.8	222.9	209.2	196.6	192.1	188.5	180.2	176.6	174.9	175.8	177.6
50°	196.6	184.9	169.4	154.0	145.9	141.4	131.4	125.0	124.1	122.4	126.0
52.5°	169.4	155.0	138.6	120.5	112.4	105.1	94.2	88.8	85.1	85.1	86.1
55°	145.9	130.5	112.4	94.2	86.1	80.6	69.8	62.5	58.9	58.0	60.8
57.5°	126.0	111.5	93.4	75.2	67.0	60.8	49.9	43.5	40.8	39.0	39.9
60°	110.5	96.0	77.9	60.8	53.5	46.2	37.1	29.9	26.2	26.2	27.1
62.5°	96.0	82.5	66.1	49.9	43.5	37.1	27.1	20.9	18.1	17.2	18.1
65°	81.5	68.9	55.2	41.6	35.4	29.9	21.8	16.2	12.6	11.8	12.6
67.5°	66.1	56.1	44.4	33.5	28.1	23.5	16.2	11.8	9.0	8.1	9.0
70°	51.6	42.6	33.5	24.5	20.9	17.2	11.8	9.0	6.4	5.4	6.4
72.5°	37.1	30.8	23.5	17.2	14.5	11.8	8.1	6.4	4.5	3.6	4.5
75°	25.4	20.9	15.4	10.9	9.0	8.1	5.4	3.6	2.8	2.8	2.8
77.5°	16.2	12.6	10.0	7.2	5.4	4.5	2.8	1.8	1.8	1.8	1.8
80°	9.0	7.2	5.4	3.6	2.8	2.8	1.8	1.8	0.9	0.9	0.9
82.5°	5.4	3.6	2.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8
2.5°	782.0	782.9	780.1	783.8	781.0	784.6	784.6	781.0	782.0	780.1	783.8
5°	780.1	780.1	778.4	781.0	777.4	781.0	780.1	773.8	775.6	772.0	775.6
7.5°	780.1	778.4	775.6	778.4	773.8	776.5	772.9	766.5	764.8	760.2	760.2
10°	782.9	780.1	776.5	777.4	772.9	773.8	768.4	759.2	756.6	751.1	749.4
12.5°	789.2	786.5	781.0	782.9	776.5	776.5	769.2	758.4	753.0	745.8	743.9
15°	798.2	793.8	787.4	788.2	782.0	778.4	769.2	756.6	749.4	739.4	736.6
17.5°	800.0	795.5	787.4	787.4	779.2	774.8	763.9	749.4	740.2	730.2	724.9
20°	790.1	785.6	776.5	775.6	768.4	762.0	750.2	735.8	726.6	715.8	711.2
22.5°	769.2	763.9	755.6	754.8	747.5	743.9	731.2	716.8	707.6	696.8	693.1
25°	738.5	735.8	727.6	726.6	720.4	715.8	704.9	691.4	683.1	672.2	668.6
27.5°	702.2	699.5	691.4	691.4	684.1	681.4	671.4	658.8	652.4	642.4	637.9
30°	658.8	655.1	650.5	649.6	643.2	640.6	631.5	619.8	613.4	605.2	603.5
32.5°	607.1	604.4	601.6	600.8	594.4	591.6	585.4	573.5	568.1	560.9	558.1
35°	547.2	545.5	542.8	541.9	539.1	536.4	530.0	521.0	518.2	512.9	510.1
37.5°	478.4	480.2	478.4	478.4	475.8	476.6	471.1	465.8	463.0	459.4	457.6
40°	404.1	407.8	410.5	410.5	409.5	413.1	412.2	407.8	406.9	405.0	404.1
42.5°	328.9	330.8	336.1	339.8	338.9	347.9	348.9	352.5	355.1	353.4	354.2
45°	250.1	255.5	262.8	266.4	270.9	282.8	289.0	296.2	302.6	306.2	305.4
47.5°	180.2	186.6	194.8	200.2	208.4	222.9	239.2	248.2	257.4	261.9	266.4
50°	130.5	136.9	146.8	155.0	160.4	180.2	197.5	209.2	219.2	225.6	230.1
52.5°	91.5	98.8	109.6	116.9	125.0	144.1	164.0	177.6	188.5	196.6	201.1
55°	63.4	71.6	81.5	88.8	97.9	117.8	136.9	151.4	163.1	170.4	175.8
57.5°	44.4	51.6	61.6	68.0	77.0	96.0	115.1	129.6	141.4	148.6	155.0
60°	29.9	37.1	47.1	53.5	60.8	79.8	97.0	112.4	123.2	130.5	136.9
62.5°	20.9	27.1	37.1	43.5	49.9	66.1	82.5	96.0	106.9	115.1	120.5
65°	16.2	21.8	29.9	35.4	41.6	55.2	68.9	80.6	91.5	99.6	103.2
67.5°	11.8	17.2	23.5	28.1	32.6	44.4	56.1	65.2	75.2	81.5	86.1
70°	8.1	11.8	17.2	20.9	24.5	33.5	42.6	50.8	58.0	62.5	66.1
72.5°	6.4	8.1	11.8	14.5	17.2	23.5	30.8	37.1	42.6	46.2	49.9
75°	3.6	5.4	8.1	10.0	11.8	16.2	20.9	25.4	29.0	31.8	33.5
77.5°	1.8	2.8	4.5	5.4	7.2	10.0	13.6	16.2	19.0	20.9	22.6
80°	1.8	1.8	2.8	2.8	3.6	5.4	7.2	9.0	10.9	12.6	13.6
82.5°	0.9	0.9	1.8	1.8	1.8	2.8	3.6	5.4	6.4	7.2	8.1
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	3.6	4.5	4.5
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.8
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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CATALOG NUMBER: LE_6B10D010 EC6B10208035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	783.8	783.8	783.8	783.8	783.8	783.8	783.8	783.8
2.5°	781.0	782.9	782.0	783.8	781.0	780.1	782.0	779.2
5°	771.1	772.0	771.1	771.1	769.2	767.5	769.2	766.5
7.5°	755.6	755.6	753.0	753.0	749.4	747.5	747.5	746.6
10°	743.0	740.2	737.5	738.5	733.0	731.2	730.2	729.4
12.5°	736.6	734.9	730.2	730.2	724.9	723.0	722.1	721.2
15°	729.4	725.8	722.1	721.2	716.8	714.9	714.0	712.1
17.5°	716.8	714.0	709.5	709.5	704.9	704.0	702.2	701.2
20°	703.1	699.5	695.9	695.9	690.4	690.4	687.8	688.6
22.5°	684.1	681.4	677.8	677.8	673.2	672.2	669.6	668.6
25°	661.4	657.8	655.1	654.1	650.5	648.8	647.9	646.0
27.5°	631.5	628.9	626.1	624.2	619.8	618.9	616.1	617.0
30°	594.4	592.6	591.6	589.9	584.4	582.6	582.6	579.9
32.5°	553.6	550.9	549.1	546.4	541.9	540.9	538.2	539.1
35°	503.8	500.1	497.4	498.4	492.9	492.0	490.1	491.1
37.5°	452.1	448.5	444.9	444.0	439.5	439.5	436.8	436.8
40°	398.6	395.0	393.2	393.2	387.8	388.8	386.0	385.1
42.5°	350.6	347.0	346.1	345.2	342.5	341.6	338.9	339.8
45°	305.4	304.5	304.5	302.6	299.9	299.0	299.9	299.9
47.5°	265.5	266.4	265.5	265.5	263.6	265.5	263.6	264.6
50°	232.0	233.8	233.8	233.8	232.9	233.8	233.8	234.6
52.5°	203.9	206.6	205.6	206.6	205.6	207.5	206.6	207.5
55°	179.4	181.2	182.1	183.0	183.0	183.0	183.0	183.0
57.5°	156.8	159.5	160.4	161.2	161.2	163.1	161.2	161.2
60°	138.6	141.4	142.2	143.1	143.1	144.1	142.2	143.1
62.5°	122.4	125.0	125.0	126.0	126.0	126.0	124.1	125.0
65°	106.0	106.9	107.9	107.9	106.9	106.9	106.0	106.9
67.5°	87.9	88.8	87.9	87.9	87.0	87.0	85.1	86.1
70°	68.0	68.0	68.9	68.0	67.0	68.0	67.0	66.1
72.5°	50.8	50.8	50.8	49.9	49.9	48.9	49.9	49.9
75°	34.4	34.4	35.4	35.4	35.4	35.4	34.4	34.4
77.5°	22.6	22.6	22.6	22.6	23.5	22.6	22.6	22.6
80°	14.5	14.5	15.4	15.4	14.5	14.5	14.5	14.5
82.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
85°	5.4	5.4	5.4	5.4	4.5	4.5	4.5	4.5
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.8	1.8
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)