

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: io LED

Report Number: P252152

Luminaire Tested: **LD6B15D010 EU6B10209727 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209727 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

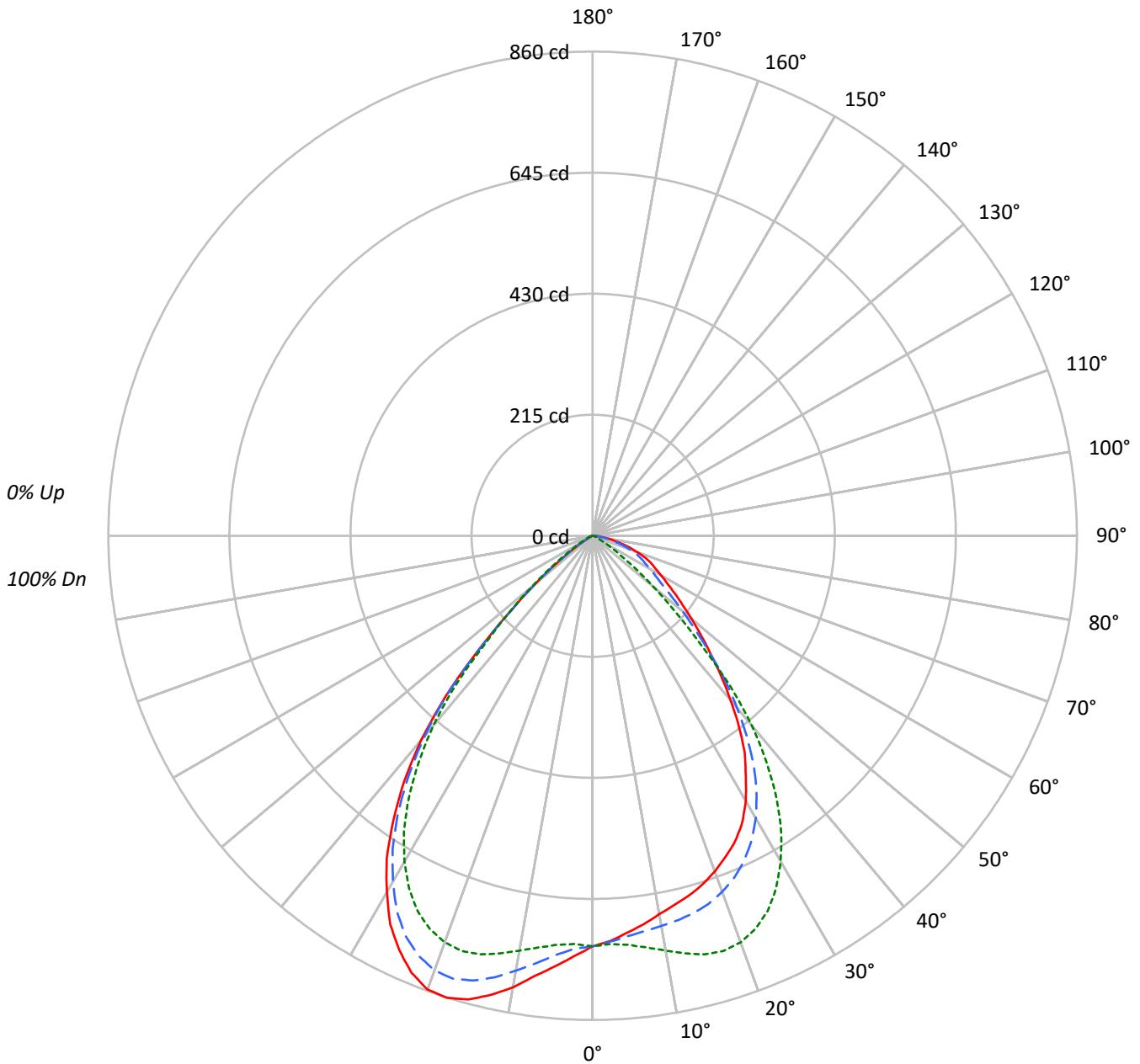
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47580	47580	47580
5°	46341	47762	50270
10°	45214	49559	53945
15°	44686	51987	57593
20°	44045	53341	59534
25°	43112	52945	58466
30°	40966	50315	55046
35°	37481	45365	49140
40°	32423	37464	40317
45°	27338	24570	26369
50°	23212	14220	13377
55°	20144	6825	5153
60°	18189	3184	1279
65°	17645	1837	432
70°	15832	1469	401
75°	13007	1059	176
80°	9693	526	0
85°	8384	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	5.3
10°-20°	214.7	16.1
20°-30°	328.0	24.6
30°-40°	343.1	25.7
40°-50°	222.5	16.7
50°-60°	88.4	6.6
60°-70°	41.9	3.1
70°-80°	19.9	1.5
80°-90°	4.1	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°	613.1	46.0
0°-40°	956.2	71.7
0°-60°	1267.1	95.1
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	729	729	729	729	729	
5°	708	714	729	747	768	67
15°	662	694	770	818	853	186
25°	599	636	736	785	812	274
35°	471	499	570	603	617	291
45°	296	294	266	282	286	231
55°	177	151	60	47	45	160
65°	114	95	12	3	3	112
75°	52	42	4	1	1	56
85°	11	7	0	0	0	13
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°	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
2.5°	720.2	721.6	713.9	711.8	717.4	719.5	720.2	718.1	718.8	721.6	721.6
5°	707.6	709.0	702.1	700.0	705.6	706.9	709.0	708.3	710.4	714.6	713.9
7.5°	695.8	697.9	690.2	687.4	694.4	697.9	699.3	699.3	702.1	707.6	708.3
10°	682.5	685.3	678.4	677.0	684.6	688.1	688.8	690.2	694.4	702.1	703.5
12.5°	671.4	674.2	669.3	667.2	675.6	679.1	680.5	683.2	688.1	697.9	699.3
15°	661.6	663.7	658.1	656.7	665.1	669.3	670.0	674.2	680.5	691.6	693.7
17.5°	649.1	650.5	646.3	644.9	653.3	657.4	658.1	663.0	670.7	681.8	685.3
20°	634.4	635.8	631.7	630.3	638.6	643.5	644.2	648.4	657.4	669.3	672.8
22.5°	617.0	619.8	614.9	613.5	621.9	626.1	628.2	631.7	640.7	652.6	657.4
25°	598.9	598.9	595.4	594.7	602.4	607.2	606.6	611.4	620.5	632.3	636.5
27.5°	575.2	574.5	571.0	570.3	578.7	582.8	581.5	586.3	594.7	606.6	610.7
30°	543.8	545.2	540.3	538.9	545.9	552.9	552.2	557.1	565.4	576.6	579.4
32.5°	506.2	507.6	506.9	504.8	511.0	514.5	516.6	520.1	527.1	538.9	541.7
35°	470.6	468.5	465.7	465.7	472.0	477.6	475.5	479.7	486.6	498.5	499.2
37.5°	426.7	426.0	424.6	423.2	430.2	431.6	432.3	435.0	441.3	451.1	449.7
40°	380.7	381.4	380.7	377.9	382.1	387.6	386.9	388.3	393.9	400.9	398.8
42.5°	337.4	337.4	337.4	334.6	339.5	342.3	343.7	343.0	344.4	350.7	347.9
45°	296.3	297.0	296.3	295.6	296.3	297.7	296.3	295.6	295.6	297.7	293.5
47.5°	260.7	260.7	258.7	256.6	258.7	259.4	257.3	255.2	254.5	253.8	246.8
50°	228.7	228.0	227.3	223.8	225.9	226.6	223.8	222.4	219.6	216.1	207.8
52.5°	200.8	200.1	199.4	195.9	197.3	198.0	195.2	192.4	188.9	186.1	175.7
55°	177.1	176.4	176.4	174.3	172.9	174.3	171.5	169.4	164.5	161.0	150.6
57.5°	156.9	156.9	155.5	153.4	154.1	154.1	151.3	148.5	144.3	140.1	131.8
60°	139.4	139.4	139.4	137.3	137.3	137.3	136.0	133.2	129.7	125.5	117.1
62.5°	125.5	125.5	124.8	122.7	123.4	123.4	122.0	119.2	115.7	112.9	104.6
65°	114.3	114.3	114.3	112.2	112.2	112.9	111.5	108.8	106.0	102.5	94.8
67.5°	100.4	99.7	99.7	98.3	99.0	99.7	98.3	96.2	92.7	90.6	83.7
70°	83.0	83.7	84.4	82.3	83.0	83.0	82.3	80.2	78.1	76.0	69.7
72.5°	67.6	67.6	66.9	66.2	66.2	66.9	65.5	63.4	62.0	60.7	55.8
75°	51.6	50.9	51.6	50.2	50.2	50.2	48.8	48.1	47.4	45.3	41.8
77.5°	37.6	37.0	37.0	35.6	36.3	36.3	35.6	34.2	32.8	32.1	29.3
80°	25.8	25.8	25.8	25.1	25.1	24.4	24.4	23.7	22.3	21.6	20.2
82.5°	17.4	17.4	17.4	16.7	16.7	16.7	16.0	15.3	14.6	13.9	12.5
85°	11.2	11.2	11.2	10.5	10.5	10.5	9.8	9.8	9.1	8.4	7.0
87.5°	6.3	6.3	6.3	5.6	5.6	5.6	5.6	5.6	4.9	4.2	3.5
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°	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
2.5°	726.5	716.7	723.0	723.0	720.9	726.5	730.0	732.7	732.0	725.8	725.1
5°	720.9	712.5	719.5	720.2	718.1	725.8	730.7	734.1	734.8	729.3	730.0
7.5°	716.7	709.7	718.8	721.6	720.9	727.9	733.4	739.0	741.8	737.6	738.3
10°	714.6	709.0	718.8	723.0	723.7	731.3	739.7	747.4	750.9	748.1	750.2
12.5°	711.8	708.3	719.5	725.8	728.6	736.2	746.7	755.7	761.3	759.9	764.1
15°	709.0	706.2	719.5	728.6	732.0	739.0	750.9	764.1	770.4	769.7	775.3
17.5°	702.1	701.4	715.3	725.1	730.0	738.3	749.5	765.5	771.8	773.2	780.2
20°	690.9	690.9	706.2	716.7	722.3	730.0	743.9	759.2	766.9	768.3	776.0
22.5°	675.6	677.0	691.6	702.1	710.4	716.0	730.7	746.7	753.7	755.7	764.1
25°	655.4	656.7	670.7	681.2	690.2	696.5	710.4	725.1	733.4	735.5	741.8
27.5°	628.9	631.7	644.9	655.4	663.0	667.2	681.8	697.2	703.5	705.6	711.8
30°	598.2	598.9	612.1	621.2	628.9	632.3	644.9	660.9	665.8	667.9	677.0
32.5°	560.5	559.8	572.4	580.8	587.0	591.2	604.5	614.9	619.8	623.3	628.2
35°	515.2	514.5	523.6	533.3	538.2	539.6	552.9	564.0	566.8	569.6	575.9
37.5°	464.3	464.3	472.0	476.9	482.5	484.5	490.8	503.4	508.2	507.6	512.4
40°	410.6	407.9	413.4	418.3	419.7	420.4	426.7	436.4	439.9	439.9	443.4
42.5°	354.2	350.0	350.7	353.5	354.9	350.0	354.2	360.4	358.4	361.1	361.8
45°	294.2	287.9	285.1	278.9	280.3	275.4	272.6	274.0	273.3	266.3	267.7
47.5°	245.4	234.3	229.4	220.3	218.2	212.6	209.2	202.9	197.3	197.3	193.8
50°	204.3	193.1	183.4	172.9	169.4	164.5	156.9	148.5	144.3	140.1	136.6
52.5°	171.5	159.7	147.8	136.6	131.8	125.5	115.0	106.7	99.0	94.8	90.6
55°	145.0	131.8	119.2	107.4	101.1	94.8	84.4	74.6	65.5	60.0	56.5
57.5°	124.8	112.2	99.0	86.5	80.9	73.9	62.7	52.3	43.9	37.6	34.2
60°	110.2	97.6	85.8	72.5	66.9	60.0	48.1	38.3	30.0	24.4	20.2
62.5°	97.6	86.5	73.9	62.0	56.5	49.5	38.3	28.6	20.9	15.3	11.9
65°	88.5	77.4	66.9	55.1	50.2	43.2	32.8	23.7	16.7	11.9	8.4
67.5°	78.1	68.3	57.9	48.1	43.2	37.6	27.9	20.2	13.9	9.8	7.0
70°	65.5	57.9	48.8	39.7	36.3	31.4	23.0	16.7	11.2	7.7	5.6
72.5°	52.3	46.0	39.0	32.1	29.3	24.4	18.8	13.2	8.4	5.6	4.2
75°	39.7	34.9	29.3	24.4	21.6	18.8	13.9	9.8	6.3	4.2	2.8
77.5°	27.2	25.1	20.9	16.7	15.3	13.2	9.1	6.3	4.2	2.8	1.4
80°	18.8	16.7	13.9	11.2	9.8	8.4	5.6	4.2	2.1	1.4	0.7
82.5°	11.9	9.8	8.4	7.0	6.3	4.9	3.5	2.1	1.4	0.7	0.7
85°	6.3	5.6	4.9	3.5	3.5	2.8	2.1	1.4	0.7	0.0	0.0
87.5°	3.5	2.8	2.1	1.4	1.4	0.7	0.7	0.7	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°	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
2.5°	733.4	733.4	732.7	741.1	731.3	741.1	736.2	741.1	734.1	733.4	734.1
5°	739.0	741.1	741.8	749.5	740.4	752.3	748.1	752.3	747.4	748.8	750.9
7.5°	750.2	753.7	753.0	762.7	753.7	766.9	764.1	770.4	765.5	766.9	769.7
10°	762.7	766.9	767.6	777.4	769.0	785.0	781.5	788.5	784.3	786.4	789.9
12.5°	777.4	782.2	782.9	794.1	785.0	801.8	799.7	806.6	803.2	805.2	809.4
15°	788.5	795.5	796.9	808.0	798.3	815.7	814.3	823.4	817.8	821.3	824.8
17.5°	794.1	800.4	803.2	813.6	805.2	822.7	821.3	829.0	824.8	828.3	832.4
20°	790.6	798.3	800.4	810.8	802.5	819.9	817.8	825.5	821.3	824.1	828.3
22.5°	778.1	785.7	788.5	798.3	790.6	806.6	805.9	812.9	807.3	810.8	814.3
25°	755.7	764.1	765.5	774.6	766.2	782.9	781.5	789.2	785.0	787.1	792.0
27.5°	723.7	733.4	735.5	743.2	736.9	750.9	750.9	757.1	752.3	752.3	757.1
30°	685.3	695.1	696.5	702.8	697.2	709.7	710.4	716.7	709.0	713.2	713.9
32.5°	638.6	644.9	649.1	654.7	646.3	662.3	660.2	665.1	660.9	660.9	664.4
35°	582.2	589.8	591.9	598.9	591.9	604.5	604.5	607.2	603.1	603.1	608.6
37.5°	520.8	526.4	527.1	534.0	528.5	538.9	538.2	540.3	536.1	538.9	538.9
40°	449.0	453.2	454.6	458.1	457.4	465.0	464.3	465.7	463.6	464.3	465.7
42.5°	365.3	370.9	373.7	376.5	372.3	382.8	380.7	382.8	382.1	382.8	384.8
45°	269.1	273.3	275.4	276.1	274.7	281.0	285.8	281.7	282.4	281.0	283.8
47.5°	194.5	195.2	193.8	198.0	194.5	197.3	198.7	199.4	195.2	194.5	197.3
50°	133.2	136.6	131.8	133.9	133.2	136.0	134.6	135.3	131.1	133.2	131.8
52.5°	88.5	87.8	86.5	87.1	85.8	85.8	85.8	87.1	84.4	83.0	81.6
55°	53.7	52.3	49.5	48.8	48.8	49.5	48.1	46.7	46.7	46.0	46.0
57.5°	31.4	29.3	27.9	27.2	25.8	25.1	24.4	24.4	23.0	23.0	23.0
60°	17.4	15.3	13.9	12.5	12.5	11.9	11.2	10.5	10.5	10.5	9.8
62.5°	9.1	7.7	6.3	5.6	5.6	4.9	4.2	4.2	4.2	4.2	3.5
65°	6.3	4.9	4.2	3.5	3.5	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	4.9	4.2	3.5	2.8	2.8	2.8	2.1	2.1	2.1	2.1	2.1
70°	4.2	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
2.5°	740.4	739.7	740.4	741.8	739.0	747.4	743.2	747.4
5°	756.4	757.1	757.8	759.9	756.4	766.9	761.3	767.6
7.5°	777.4	778.1	778.8	780.8	778.8	789.2	782.9	788.5
10°	799.0	800.4	800.4	803.9	801.8	811.5	807.3	814.3
12.5°	819.2	820.6	822.0	824.1	822.7	833.1	829.7	835.2
15°	835.2	838.0	838.7	841.5	840.1	851.3	847.1	852.7
17.5°	842.9	845.7	845.7	849.2	847.8	859.6	854.1	860.3
20°	838.7	840.8	841.5	845.0	843.6	855.4	849.9	857.5
22.5°	825.5	826.2	826.9	830.3	829.7	840.1	835.2	840.1
25°	801.1	803.2	802.5	805.2	805.2	813.6	808.0	812.2
27.5°	766.2	768.3	768.3	771.8	769.0	777.4	771.8	778.1
30°	723.7	725.8	724.4	727.2	724.4	732.7	728.6	730.7
32.5°	672.8	672.8	673.5	674.2	672.8	680.5	676.3	680.5
35°	612.1	613.5	614.2	614.9	613.5	619.1	614.2	617.0
37.5°	543.8	547.3	546.6	547.3	545.2	552.2	548.0	549.4
40°	470.6	470.6	469.9	471.3	469.2	474.8	472.0	473.4
42.5°	385.5	387.6	384.8	388.3	382.8	390.4	387.6	385.5
45°	289.3	286.5	285.8	286.5	284.5	285.1	287.2	285.8
47.5°	197.3	197.3	195.9	193.8	196.6	197.3	194.5	194.5
50°	132.5	132.5	131.1	130.4	131.8	131.1	129.7	131.8
52.5°	84.4	81.6	81.6	83.0	81.6	80.2	82.3	80.9
55°	46.0	44.6	44.6	46.0	44.6	44.6	43.9	45.3
57.5°	22.3	23.0	22.3	22.3	22.3	22.3	21.6	22.3
60°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
62.5°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	2.1	2.1	2.1	2.1	2.1	2.8	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)