

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: P252561

Luminaire Tested: **LD6B15D010 EU6B10208050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252561
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: io LED
Catalog Number: LD6B15D010 EU6B10208050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1513.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

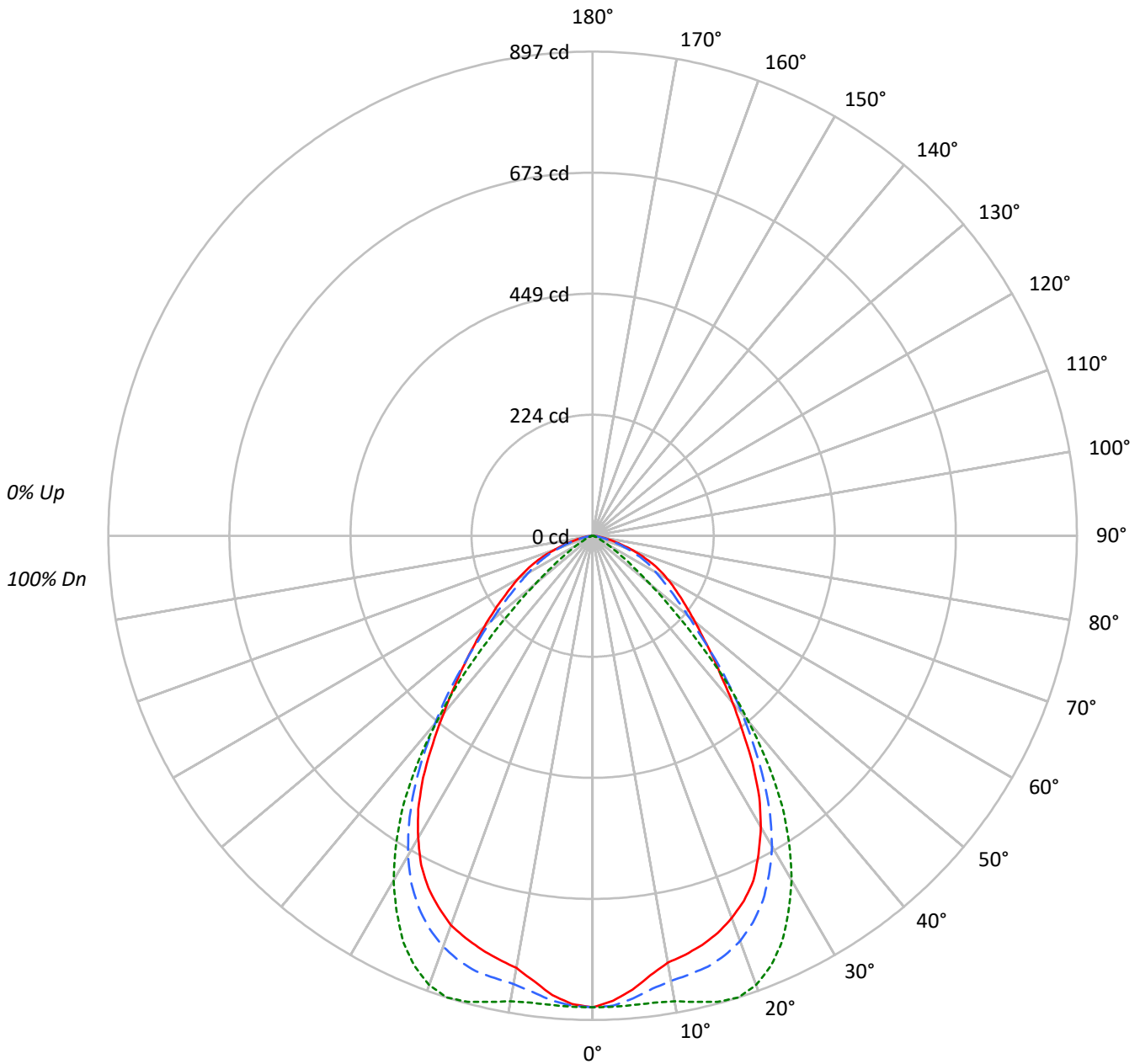
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	56988	56988	56988
5°	55287	57140	55948
10°	53183	58006	53852
15°	53000	60362	53615
20°	52307	61485	53286
25°	50742	59755	51829
30°	46940	55536	48688
35°	41176	48822	43589
40°	34313	38273	36553
45°	28888	25253	30844
50°	25009	13834	26551
55°	22624	7348	23204
60°	20825	3823	20825
65°	18864	2022	18401
70°	15222	1164	14058
75°	10436	756	9680
80°	6838	376	6086
85°	4566	749	3743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	5.4
10°-20°	235.5	15.6
20°-30°	348.0	23.0
30°-40°	351.5	23.2
40°-50°	242.3	16.0
50°-60°	139.1	9.2
60°-70°	81.0	5.4
70°-80°	29.5	2.0
80°-90°	4.5	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°	665.0	44.0
0°-40°	1016.5	67.2
0°-60°	1397.9	92.4
0°-90°	1513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	874	874	874	874	874	
5°	844	860	872	864	854	79
15°	785	826	894	835	794	221
25°	705	746	830	761	720	321
35°	517	552	613	578	547	321
45°	313	317	274	337	334	243
55°	199	175	65	182	204	179
65°	122	103	13	102	119	120
75°	41	33	3	32	38	47
85°	6	3	1	4	5	8
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°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	862.4	863.4	864.4	863.4	864.4	868.5	865.5	867.5	867.5	868.5	871.5
5°	844.2	844.2	846.3	845.3	848.3	852.3	849.3	852.3	853.3	855.4	860.4
7.5°	821.0	821.0	822.0	822.0	826.1	830.1	828.1	832.1	836.2	840.2	846.3
10°	802.8	804.9	804.9	805.9	809.9	815.0	813.9	819.0	823.0	829.1	837.2
12.5°	794.8	795.8	795.8	797.8	801.8	806.9	805.9	810.9	817.0	824.0	832.1
15°	784.7	786.7	785.7	787.7	791.7	796.8	795.8	800.8	807.9	815.0	826.1
17.5°	771.5	772.5	773.6	773.6	777.6	781.6	781.6	786.7	794.8	802.8	815.0
20°	753.4	755.4	755.4	756.4	759.4	765.5	764.5	769.5	777.6	785.7	798.8
22.5°	732.1	733.2	733.2	734.2	739.2	742.2	743.3	747.3	754.4	763.5	775.6
25°	704.9	705.9	704.9	707.9	709.9	716.0	714.0	719.0	727.1	734.2	746.3
27.5°	665.5	667.5	667.5	668.5	673.6	678.6	678.6	683.7	690.7	695.8	707.9
30°	623.1	626.1	623.1	628.1	630.2	634.2	637.2	640.3	646.3	653.4	664.5
32.5°	574.6	573.6	574.6	576.6	582.7	585.7	587.7	590.8	596.8	602.9	612.0
35°	517.0	519.1	520.1	524.1	524.1	529.2	530.2	532.2	541.3	545.3	552.4
37.5°	456.5	458.5	459.5	461.5	465.5	467.6	470.6	473.6	479.7	486.8	490.8
40°	402.9	402.9	403.9	406.0	409.0	410.0	413.0	417.1	421.1	427.2	431.2
42.5°	352.4	353.5	352.4	354.5	357.5	361.5	360.5	365.6	366.6	370.6	373.6
45°	313.1	313.1	311.0	313.1	313.1	317.1	316.1	318.1	317.1	319.1	317.1
47.5°	275.7	276.7	275.7	276.7	276.7	276.7	277.7	275.7	276.7	273.7	267.6
50°	246.4	247.4	245.4	246.4	245.4	244.4	245.4	242.4	241.4	237.3	231.3
52.5°	221.2	220.1	219.1	219.1	219.1	218.1	217.1	214.1	211.1	207.0	200.0
55°	198.9	197.9	196.9	196.9	194.9	193.9	193.9	190.9	187.8	182.8	174.7
57.5°	178.7	177.7	176.7	176.7	175.7	173.7	173.7	170.7	166.6	160.6	153.5
60°	159.6	159.6	159.6	158.5	158.5	156.5	156.5	153.5	149.5	143.4	135.3
62.5°	142.4	141.4	141.4	141.4	141.4	140.4	139.4	137.3	133.3	127.2	120.2
65°	122.2	122.2	122.2	122.2	121.2	121.2	121.2	118.2	116.1	110.1	103.0
67.5°	100.0	100.0	100.0	100.0	99.0	100.0	100.0	98.0	95.9	89.9	83.8
70°	79.8	78.8	77.8	78.8	77.8	77.8	78.8	76.7	75.7	70.7	64.6
72.5°	58.6	59.6	58.6	58.6	58.6	57.6	58.6	57.6	55.5	51.5	47.5
75°	41.4	42.4	42.4	41.4	41.4	41.4	40.4	40.4	38.4	35.3	33.3
77.5°	28.3	28.3	28.3	28.3	27.3	27.3	27.3	26.3	25.2	23.2	21.2
80°	18.2	18.2	18.2	18.2	17.2	17.2	17.2	16.2	16.2	14.1	12.1
82.5°	11.1	11.1	11.1	11.1	11.1	11.1	10.1	10.1	9.1	8.1	7.1
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.0	5.0	4.0	3.0
87.5°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	869.5	870.5	870.5	870.5	873.5	874.5	871.5	868.5	874.5	873.5	875.6
5°	859.4	862.4	864.4	865.5	868.5	870.5	867.5	866.5	871.5	872.5	873.5
7.5°	847.3	852.3	857.4	859.4	863.4	865.5	864.4	864.4	870.5	872.5	872.5
10°	839.2	846.3	852.3	857.4	862.4	865.5	865.5	866.5	873.5	875.6	877.6
12.5°	837.2	846.3	854.3	861.4	865.5	870.5	871.5	874.5	881.6	884.6	884.6
15°	832.1	844.2	854.3	863.4	869.5	875.6	877.6	883.6	891.7	893.7	895.7
17.5°	823.0	835.2	847.3	858.4	866.5	871.5	877.6	883.6	893.7	896.8	897.8
20°	806.9	821.0	833.1	844.2	852.3	859.4	865.5	872.5	881.6	885.6	886.7
22.5°	782.6	796.8	808.9	821.0	829.1	835.2	841.2	849.3	858.4	862.4	862.4
25°	753.4	766.5	779.6	788.7	796.8	803.8	806.9	816.0	825.1	830.1	830.1
27.5°	716.0	728.1	740.2	750.3	755.4	761.4	766.5	774.6	781.6	785.7	789.7
30°	668.5	680.6	691.8	701.9	707.9	714.0	719.0	725.1	732.1	737.2	738.2
32.5°	617.0	627.1	638.2	648.3	654.4	656.4	661.5	667.5	673.6	677.6	678.6
35°	560.5	567.5	574.6	583.7	589.8	589.8	594.8	598.8	603.9	613.0	611.0
37.5°	493.8	503.9	509.0	512.0	516.0	520.1	521.1	526.1	532.2	534.2	537.2
40°	431.2	434.2	437.3	437.3	441.3	441.3	441.3	442.3	448.4	449.4	453.4
42.5°	368.6	368.6	365.6	362.5	363.6	362.5	357.5	357.5	360.5	364.6	364.6
45°	310.0	303.0	293.9	286.8	281.8	279.7	273.7	273.7	272.7	273.7	277.7
47.5°	260.5	248.4	233.3	219.1	214.1	210.1	201.0	196.9	194.9	195.9	197.9
50°	219.1	206.0	188.8	171.7	162.6	157.5	146.4	139.4	138.4	136.3	140.4
52.5°	188.8	172.7	154.5	134.3	125.2	117.1	105.0	99.0	94.9	94.9	95.9
55°	162.6	145.4	125.2	105.0	95.9	89.9	77.8	69.7	65.6	64.6	67.7
57.5°	140.4	124.2	104.0	83.8	74.7	67.7	55.5	48.5	45.4	43.4	44.4
60°	123.2	107.0	86.8	67.7	59.6	51.5	41.4	33.3	29.3	29.3	30.3
62.5°	107.0	91.9	73.7	55.5	48.5	41.4	30.3	23.2	20.2	19.2	20.2
65°	90.9	76.7	61.6	46.5	39.4	33.3	24.2	18.2	14.1	13.1	14.1
67.5°	73.7	62.6	49.5	37.4	31.3	26.3	18.2	13.1	10.1	9.1	10.1
70°	57.6	47.5	37.4	27.3	23.2	19.2	13.1	10.1	7.1	6.1	7.1
72.5°	41.4	34.3	26.3	19.2	16.2	13.1	9.1	7.1	5.0	4.0	5.0
75°	28.3	23.2	17.2	12.1	10.1	9.1	6.1	4.0	3.0	3.0	3.0
77.5°	18.2	14.1	11.1	8.1	6.1	5.0	3.0	2.0	2.0	2.0	2.0
80°	10.1	8.1	6.1	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
82.5°	6.1	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	871.5	872.5	869.5	873.5	870.5	874.5	874.5	870.5	871.5	869.5	873.5
5°	869.5	869.5	867.5	870.5	866.5	870.5	869.5	862.4	864.4	860.4	864.4
7.5°	869.5	867.5	864.4	867.5	862.4	865.5	861.4	854.3	852.3	847.3	847.3
10°	872.5	869.5	865.5	866.5	861.4	862.4	856.4	846.3	843.2	837.2	835.2
12.5°	879.6	876.6	870.5	872.5	865.5	865.5	857.4	845.3	839.2	831.1	829.1
15°	889.7	884.6	877.6	878.6	871.5	867.5	857.4	843.2	835.2	824.0	821.0
17.5°	891.7	886.7	877.6	877.6	868.5	863.4	851.3	835.2	825.1	813.9	807.9
20°	880.6	875.6	865.5	864.4	856.4	849.3	836.2	820.0	809.9	797.8	792.7
22.5°	857.4	851.3	842.2	841.2	833.1	829.1	815.0	798.8	788.7	776.6	772.5
25°	823.0	820.0	810.9	809.9	802.8	797.8	785.7	770.5	761.4	749.3	745.3
27.5°	782.6	779.6	770.5	770.5	762.4	759.4	748.3	734.2	727.1	716.0	710.9
30°	734.2	730.1	725.1	724.1	717.0	714.0	703.9	690.7	683.7	674.6	672.6
32.5°	676.6	673.6	670.5	669.5	662.5	659.4	652.4	639.2	633.2	625.1	622.1
35°	610.0	607.9	604.9	603.9	600.9	597.8	590.8	580.7	577.6	571.6	568.6
37.5°	533.2	535.2	533.2	533.2	530.2	531.2	525.1	519.1	516.0	512.0	510.0
40°	450.4	454.4	457.5	457.5	456.5	460.5	459.5	454.4	453.4	451.4	450.4
42.5°	366.6	368.6	374.7	378.7	377.7	387.8	388.8	392.8	395.9	393.8	394.9
45°	278.7	284.8	292.9	296.9	301.9	315.1	322.1	330.2	337.3	341.3	340.3
47.5°	201.0	208.0	217.1	223.2	232.3	248.4	266.6	276.7	286.8	291.9	296.9
50°	145.4	152.5	163.6	172.7	178.7	201.0	220.1	233.3	244.4	251.5	256.5
52.5°	102.0	110.1	122.2	130.3	139.4	160.6	182.8	197.9	210.1	219.1	224.2
55°	70.7	79.8	90.9	99.0	109.1	131.3	152.5	168.6	181.8	189.9	195.9
57.5°	49.5	57.6	68.7	75.7	85.8	107.0	128.3	144.4	157.5	165.6	172.7
60°	33.3	41.4	52.5	59.6	67.7	88.9	108.1	125.2	137.3	145.4	152.5
62.5°	23.2	30.3	41.4	48.5	55.5	73.7	91.9	107.0	119.2	128.3	134.3
65°	18.2	24.2	33.3	39.4	46.5	61.6	76.7	89.9	102.0	111.1	115.1
67.5°	13.1	19.2	26.3	31.3	36.4	49.5	62.6	72.7	83.8	90.9	95.9
70°	9.1	13.1	19.2	23.2	27.3	37.4	47.5	56.6	64.6	69.7	73.7
72.5°	7.1	9.1	13.1	16.2	19.2	26.3	34.3	41.4	47.5	51.5	55.5
75°	4.0	6.1	9.1	11.1	13.1	18.2	23.2	28.3	32.3	35.3	37.4
77.5°	2.0	3.0	5.0	6.1	8.1	11.1	15.1	18.2	21.2	23.2	25.2
80°	2.0	2.0	3.0	3.0	4.0	6.1	8.1	10.1	12.1	14.1	15.1
82.5°	1.0	1.0	2.0	2.0	2.0	3.0	4.0	6.1	7.1	8.1	9.1
85°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	5.0	5.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0
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°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	870.5	872.5	871.5	873.5	870.5	869.5	871.5	868.5
5°	859.4	860.4	859.4	859.4	857.4	855.4	857.4	854.3
7.5°	842.2	842.2	839.2	839.2	835.2	833.1	833.1	832.1
10°	828.1	825.1	822.0	823.0	817.0	815.0	813.9	812.9
12.5°	821.0	819.0	813.9	813.9	807.9	805.9	804.9	803.8
15°	812.9	808.9	804.9	803.8	798.8	796.8	795.8	793.8
17.5°	798.8	795.8	790.7	790.7	785.7	784.7	782.6	781.6
20°	783.7	779.6	775.6	775.6	769.5	769.5	766.5	767.5
22.5°	762.4	759.4	755.4	755.4	750.3	749.3	746.3	745.3
25°	737.2	733.2	730.1	729.1	725.1	723.1	722.1	720.0
27.5°	703.9	700.8	697.8	695.8	690.7	689.7	686.7	687.7
30°	662.5	660.4	659.4	657.4	651.4	649.3	649.3	646.3
32.5°	617.0	614.0	612.0	608.9	603.9	602.9	599.9	600.9
35°	561.5	557.4	554.4	555.4	549.4	548.4	546.3	547.3
37.5°	503.9	499.9	495.8	494.8	489.8	489.8	486.8	486.8
40°	444.3	440.3	438.3	438.3	432.2	433.2	430.2	429.2
42.5°	390.8	386.8	385.8	384.8	381.7	380.7	377.7	378.7
45°	340.3	339.3	339.3	337.3	334.3	333.3	334.3	334.3
47.5°	295.9	296.9	295.9	295.9	293.9	295.9	293.9	294.9
50°	258.5	260.5	260.5	260.5	259.5	260.5	260.5	261.6
52.5°	227.2	230.2	229.2	230.2	229.2	231.3	230.2	231.3
55°	200.0	202.0	203.0	204.0	204.0	204.0	204.0	204.0
57.5°	174.7	177.7	178.7	179.8	179.8	181.8	179.8	179.8
60°	154.5	157.5	158.5	159.6	159.6	160.6	158.5	159.6
62.5°	136.3	139.4	139.4	140.4	140.4	140.4	138.4	139.4
65°	118.2	119.2	120.2	120.2	119.2	119.2	118.2	119.2
67.5°	98.0	99.0	98.0	98.0	96.9	96.9	94.9	95.9
70°	75.7	75.7	76.7	75.7	74.7	75.7	74.7	73.7
72.5°	56.6	56.6	56.6	55.5	55.5	54.5	55.5	55.5
75°	38.4	38.4	39.4	39.4	39.4	39.4	38.4	38.4
77.5°	25.2	25.2	25.2	25.2	26.3	25.2	25.2	25.2
80°	16.2	16.2	17.2	17.2	16.2	16.2	16.2	16.2
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
85°	6.1	6.1	6.1	6.1	5.0	5.0	5.0	5.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0
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)