

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: P252563

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252563
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_6B15D010 EC6B10209027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1501.2 lumens
Efficiency: N/A
Efficacy: 104.2 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

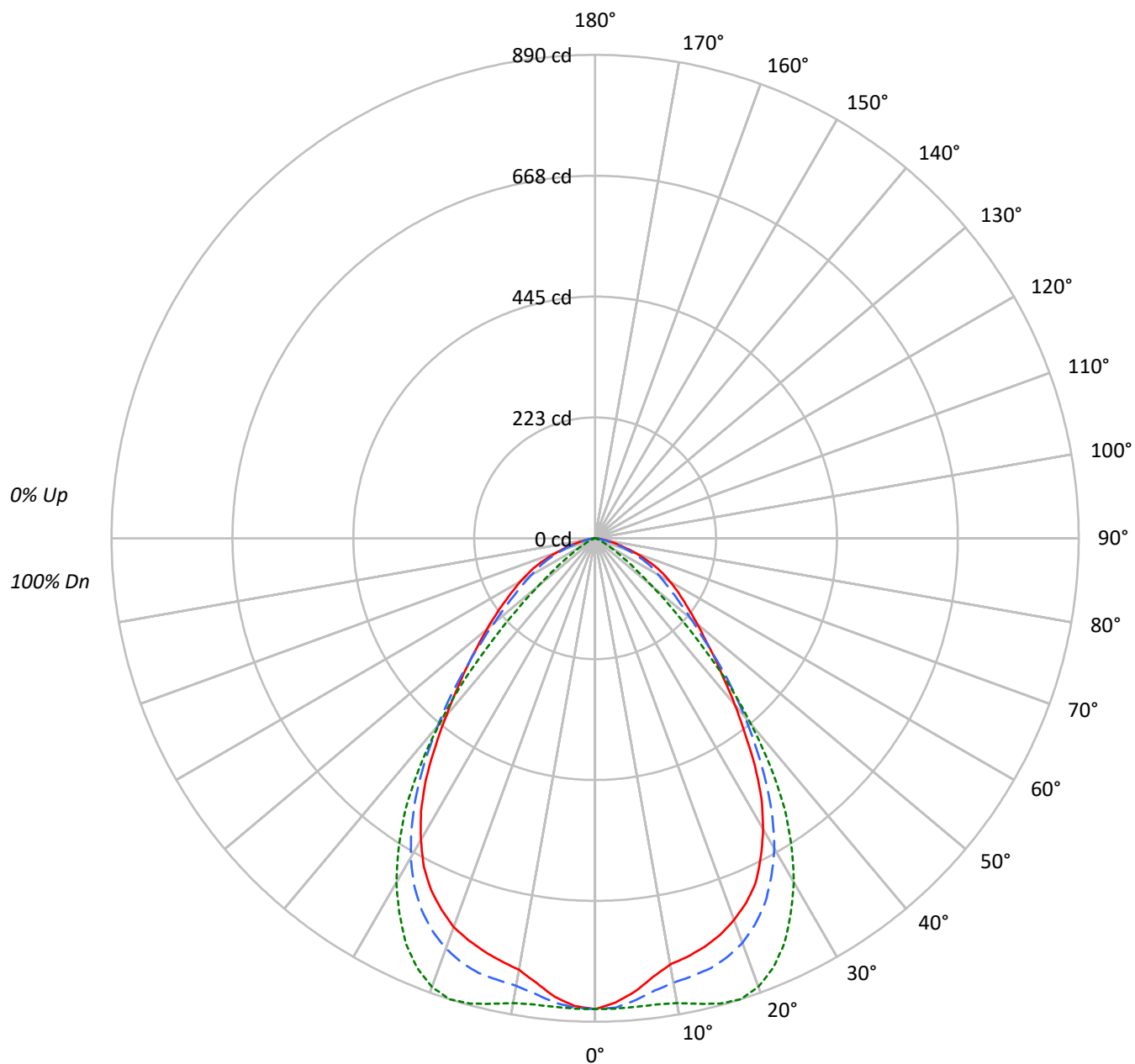
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56551	56551	56551
5°	54867	56701	55522
10°	52772	57555	53435
15°	52588	59896	53196
20°	51897	61013	52869
25°	50346	59287	51433
30°	46571	55106	48304
35°	40857	48440	43255
40°	34049	37975	36272
45°	28657	25050	30595
50°	24816	13722	26338
55°	22453	7291	23022
60°	20668	3784	20668
65°	18710	2007	18247
70°	15088	1145	13944
75°	10360	756	9604
80°	6763	376	6011
85°	4491	749	3743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	5.4
10°-20°	233.7	15.6
20°-30°	345.3	23.0
30°-40°	348.8	23.2
40°-50°	240.4	16.0
50°-60°	138.1	9.2
60°-70°	80.3	5.4
70°-80°	29.3	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°	659.8	44.0
0°-40°	1008.6	67.2
0°-60°	1387.1	92.4
0°-90°	1501.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	867	867	867	867	867	
5°	838	854	866	858	848	79
15°	779	820	887	829	788	219
25°	699	740	824	756	714	319
35°	513	548	608	573	543	318
45°	311	315	272	335	332	242
55°	197	173	64	180	202	178
65°	121	102	13	101	118	119
75°	41	33	3	32	38	46
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°	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8
2.5°	855.8	856.8	857.8	856.8	857.8	861.8	858.8	860.8	860.8	861.8	864.8
5°	837.8	837.8	839.8	838.8	841.8	845.8	842.8	845.8	846.8	848.8	853.8
7.5°	814.6	814.6	815.6	815.6	819.6	823.6	821.6	825.6	829.6	833.6	839.8
10°	796.6	798.6	798.6	799.6	803.6	808.6	807.6	812.6	816.6	822.6	830.6
12.5°	788.6	789.6	789.6	791.6	795.6	800.6	799.6	804.6	810.6	817.6	825.6
15°	778.6	780.6	779.6	781.6	785.6	790.6	789.6	794.6	801.6	808.6	819.6
17.5°	765.5	766.5	767.5	767.5	771.5	775.6	775.6	780.6	788.6	796.6	808.6
20°	747.5	749.5	749.5	750.5	753.5	759.5	758.5	763.5	771.5	779.6	792.6
22.5°	726.5	727.5	727.5	728.5	733.5	736.5	737.5	741.5	748.5	757.5	769.5
25°	699.4	700.4	699.4	702.4	704.4	710.4	708.4	713.5	721.5	728.5	740.5
27.5°	660.4	662.4	662.4	663.4	668.4	673.4	673.4	678.4	685.4	690.4	702.4
30°	618.2	621.2	618.2	623.2	625.2	629.2	632.2	635.2	641.2	648.2	659.4
32.5°	570.1	569.1	570.1	572.1	578.1	581.1	583.1	586.1	592.2	598.2	607.2
35°	513.0	515.0	516.0	520.0	520.0	525.0	526.0	528.1	537.1	541.1	548.1
37.5°	452.9	454.9	455.9	457.9	461.9	463.9	467.0	470.0	476.0	483.0	487.0
40°	399.8	399.8	400.8	402.8	405.9	406.9	409.9	413.9	417.9	423.9	427.9
42.5°	349.8	350.8	349.8	351.8	354.8	358.8	357.8	362.8	363.8	367.8	370.8
45°	310.6	310.6	308.6	310.6	310.6	314.6	313.6	315.6	314.6	316.6	314.6
47.5°	273.5	274.5	273.5	274.5	274.5	274.5	275.5	273.5	274.5	271.5	265.5
50°	244.5	245.5	243.5	244.5	243.5	242.5	243.5	240.5	239.5	235.5	229.5
52.5°	219.5	218.5	217.5	217.5	217.5	216.4	215.4	212.4	209.4	205.4	198.4
55°	197.4	196.4	195.4	195.4	193.4	192.4	192.4	189.4	186.4	181.4	173.4
57.5°	177.4	176.4	175.4	175.4	174.4	172.4	172.4	169.4	165.4	159.4	152.2
60°	158.4	158.4	158.4	157.4	157.4	155.4	155.4	152.2	148.2	142.2	134.2
62.5°	141.2	140.2	140.2	140.2	140.2	139.2	138.2	136.2	132.2	126.2	119.2
65°	121.2	121.2	121.2	121.2	120.2	120.2	120.2	117.2	115.2	109.2	102.2
67.5°	99.2	99.2	99.2	99.2	98.2	99.2	99.2	97.2	95.2	89.1	83.1
70°	79.1	78.1	77.1	78.1	77.1	77.1	78.1	76.1	75.1	70.1	64.1
72.5°	58.1	59.1	58.1	58.1	58.1	57.1	58.1	57.1	55.1	51.1	47.1
75°	41.1	42.1	42.1	41.1	41.1	41.1	40.1	40.1	38.1	35.1	33.1
77.5°	28.0	28.0	28.0	28.0	27.0	27.0	27.0	26.0	25.0	23.0	21.0
80°	18.0	18.0	18.0	18.0	17.0	17.0	17.0	16.0	16.0	14.0	12.0
82.5°	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0	9.0	8.0	7.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	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°	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8
2.5°	862.8	863.8	863.8	863.8	866.8	867.8	864.8	861.8	867.8	866.8	868.8
5°	852.8	855.8	857.8	858.8	861.8	863.8	860.8	859.8	864.8	865.8	866.8
7.5°	840.8	845.8	850.8	852.8	856.8	858.8	857.8	857.8	863.8	865.8	865.8
10°	832.6	839.8	845.8	850.8	855.8	858.8	858.8	859.8	866.8	868.8	870.8
12.5°	830.6	839.8	847.8	854.8	858.8	863.8	864.8	867.8	874.8	877.8	877.8
15°	825.6	837.8	847.8	856.8	862.8	868.8	870.8	876.8	884.8	886.8	888.8
17.5°	816.6	828.6	840.8	851.8	859.8	864.8	870.8	876.8	886.8	889.8	890.8
20°	800.6	814.6	826.6	837.8	845.8	852.8	858.8	865.8	874.8	878.8	879.8
22.5°	776.6	790.6	802.6	814.6	822.6	828.6	834.6	842.8	851.8	855.8	855.8
25°	747.5	760.5	773.5	782.6	790.6	797.6	800.6	809.6	818.6	823.6	823.6
27.5°	710.4	722.5	734.5	744.5	749.5	755.5	760.5	768.5	775.6	779.6	783.6
30°	663.4	675.4	686.4	696.4	702.4	708.4	713.5	719.5	726.5	731.5	732.5
32.5°	612.2	622.2	633.2	643.2	649.2	651.2	656.4	662.4	668.4	672.4	673.4
35°	556.1	563.1	570.1	579.1	585.1	585.1	590.2	594.2	599.2	608.2	606.2
37.5°	490.0	500.0	505.0	508.0	512.0	516.0	517.0	522.0	528.1	530.1	533.1
40°	427.9	430.9	433.9	433.9	437.9	437.9	437.9	438.9	444.9	445.9	449.9
42.5°	365.8	365.8	362.8	359.8	360.8	359.8	354.8	354.8	357.8	361.8	361.8
45°	307.6	300.6	291.6	284.6	279.6	277.5	271.5	271.5	270.5	271.5	275.5
47.5°	258.5	246.5	231.5	217.5	212.4	208.4	199.4	195.4	193.4	194.4	196.4
50°	217.5	204.4	187.4	170.4	161.4	156.4	145.2	138.2	137.2	135.2	139.2
52.5°	187.4	171.4	153.2	133.2	124.2	116.2	104.2	98.2	94.2	94.2	95.2
55°	161.4	144.2	124.2	104.2	95.2	89.1	77.1	69.1	65.1	64.1	67.1
57.5°	139.2	123.2	103.2	83.1	74.1	67.1	55.1	48.1	45.1	43.1	44.1
60°	122.2	106.2	86.1	67.1	59.1	51.1	41.1	33.1	29.0	29.0	30.0
62.5°	106.2	91.1	73.1	55.1	48.1	41.1	30.0	23.0	20.0	19.0	20.0
65°	90.1	76.1	61.1	46.1	39.1	33.1	24.0	18.0	14.0	13.0	14.0
67.5°	73.1	62.1	49.1	37.1	31.1	26.0	18.0	13.0	10.0	9.0	10.0
70°	57.1	47.1	37.1	27.0	23.0	19.0	13.0	10.0	7.0	6.0	7.0
72.5°	41.1	34.1	26.0	19.0	16.0	13.0	9.0	7.0	5.0	4.0	5.0
75°	28.0	23.0	17.0	12.0	10.0	9.0	6.0	4.0	3.0	3.0	3.0
77.5°	18.0	14.0	11.0	8.0	6.0	5.0	3.0	2.0	2.0	2.0	2.0
80°	10.0	8.0	6.0	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
82.5°	6.0	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°	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8
2.5°	864.8	865.8	862.8	866.8	863.8	867.8	867.8	863.8	864.8	862.8	866.8
5°	862.8	862.8	860.8	863.8	859.8	863.8	862.8	855.8	857.8	853.8	857.8
7.5°	862.8	860.8	857.8	860.8	855.8	858.8	854.8	847.8	845.8	840.8	840.8
10°	865.8	862.8	858.8	859.8	854.8	855.8	849.8	839.8	836.6	830.6	828.6
12.5°	872.8	869.8	863.8	865.8	858.8	858.8	850.8	838.8	832.6	824.6	822.6
15°	882.8	877.8	870.8	871.8	864.8	860.8	850.8	836.6	828.6	817.6	814.6
17.5°	884.8	879.8	870.8	870.8	861.8	856.8	844.8	828.6	818.6	807.6	801.6
20°	873.8	868.8	858.8	857.8	849.8	842.8	829.6	813.6	803.6	791.6	786.6
22.5°	850.8	844.8	835.6	834.6	826.6	822.6	808.6	792.6	782.6	770.5	766.5
25°	816.6	813.6	804.6	803.6	796.6	791.6	779.6	764.5	755.5	743.5	739.5
27.5°	776.6	773.5	764.5	764.5	756.5	753.5	742.5	728.5	721.5	710.4	705.4
30°	728.5	724.5	719.5	718.5	711.4	708.4	698.4	685.4	678.4	669.4	667.4
32.5°	671.4	668.4	665.4	664.4	657.4	654.4	647.2	634.2	628.2	620.2	617.2
35°	605.2	603.2	600.2	599.2	596.2	593.2	586.1	576.1	573.1	567.1	564.1
37.5°	529.1	531.1	529.1	529.1	526.0	527.0	521.0	515.0	512.0	508.0	506.0
40°	446.9	450.9	453.9	453.9	452.9	456.9	455.9	450.9	449.9	447.9	446.9
42.5°	363.8	365.8	371.8	375.8	374.8	384.8	385.8	389.8	392.8	390.8	391.8
45°	276.5	282.6	290.6	294.6	299.6	312.6	319.6	327.6	334.6	338.6	337.6
47.5°	199.4	206.4	215.4	221.5	230.5	246.5	264.5	274.5	284.6	289.6	294.6
50°	144.2	151.2	162.4	171.4	177.4	199.4	218.5	231.5	242.5	249.5	254.5
52.5°	101.2	109.2	121.2	129.2	138.2	159.4	181.4	196.4	208.4	217.5	222.5
55°	70.1	79.1	90.1	98.2	108.2	130.2	151.2	167.4	180.4	188.4	194.4
57.5°	49.1	57.1	68.1	75.1	85.1	106.2	127.2	143.2	156.4	164.4	171.4
60°	33.1	41.1	52.1	59.1	67.1	88.1	107.2	124.2	136.2	144.2	151.2
62.5°	23.0	30.0	41.1	48.1	55.1	73.1	91.1	106.2	118.2	127.2	133.2
65°	18.0	24.0	33.1	39.1	46.1	61.1	76.1	89.1	101.2	110.2	114.2
67.5°	13.0	19.0	26.0	31.1	36.1	49.1	62.1	72.1	83.1	90.1	95.2
70°	9.0	13.0	19.0	23.0	27.0	37.1	47.1	56.1	64.1	69.1	73.1
72.5°	7.0	9.0	13.0	16.0	19.0	26.0	34.1	41.1	47.1	51.1	55.1
75°	4.0	6.0	9.0	11.0	13.0	18.0	23.0	28.0	32.1	35.1	37.1
77.5°	2.0	3.0	5.0	6.0	8.0	11.0	15.0	18.0	21.0	23.0	25.0
80°	2.0	2.0	3.0	3.0	4.0	6.0	8.0	10.0	12.0	14.0	15.0
82.5°	1.0	1.0	2.0	2.0	2.0	3.0	4.0	6.0	7.0	8.0	9.0
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°	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8
2.5°	863.8	865.8	864.8	866.8	863.8	862.8	864.8	861.8
5°	852.8	853.8	852.8	852.8	850.8	848.8	850.8	847.8
7.5°	835.6	835.6	832.6	832.6	828.6	826.6	826.6	825.6
10°	821.6	818.6	815.6	816.6	810.6	808.6	807.6	806.6
12.5°	814.6	812.6	807.6	807.6	801.6	799.6	798.6	797.6
15°	806.6	802.6	798.6	797.6	792.6	790.6	789.6	787.6
17.5°	792.6	789.6	784.6	784.6	779.6	778.6	776.6	775.6
20°	777.6	773.5	769.5	769.5	763.5	763.5	760.5	761.5
22.5°	756.5	753.5	749.5	749.5	744.5	743.5	740.5	739.5
25°	731.5	727.5	724.5	723.5	719.5	717.5	716.5	714.5
27.5°	698.4	695.4	692.4	690.4	685.4	684.4	681.4	682.4
30°	657.4	655.4	654.4	652.4	646.2	644.2	644.2	641.2
32.5°	612.2	609.2	607.2	604.2	599.2	598.2	595.2	596.2
35°	557.1	553.1	550.1	551.1	545.1	544.1	542.1	543.1
37.5°	500.0	496.0	492.0	491.0	486.0	486.0	483.0	483.0
40°	440.9	436.9	434.9	434.9	428.9	429.9	426.9	425.9
42.5°	387.8	383.8	382.8	381.8	378.8	377.8	374.8	375.8
45°	337.6	336.6	336.6	334.6	331.6	330.6	331.6	331.6
47.5°	293.6	294.6	293.6	293.6	291.6	293.6	291.6	292.6
50°	256.5	258.5	258.5	258.5	257.5	258.5	258.5	259.5
52.5°	225.5	228.5	227.5	228.5	227.5	229.5	228.5	229.5
55°	198.4	200.4	201.4	202.4	202.4	202.4	202.4	202.4
57.5°	173.4	176.4	177.4	178.4	178.4	180.4	178.4	178.4
60°	153.2	156.4	157.4	158.4	158.4	159.4	157.4	158.4
62.5°	135.2	138.2	138.2	139.2	139.2	139.2	137.2	138.2
65°	117.2	118.2	119.2	119.2	118.2	118.2	117.2	118.2
67.5°	97.2	98.2	97.2	97.2	96.2	96.2	94.2	95.2
70°	75.1	75.1	76.1	75.1	74.1	75.1	74.1	73.1
72.5°	56.1	56.1	56.1	55.1	55.1	54.1	55.1	55.1
75°	38.1	38.1	39.1	39.1	39.1	39.1	38.1	38.1
77.5°	25.0	25.0	25.0	25.0	26.0	25.0	25.0	25.0
80°	16.0	16.0	17.0	17.0	16.0	16.0	16.0	16.0
82.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
85°	6.0	6.0	6.0	6.0	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)