

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: P252252

Luminaire Tested: **LE_6B15D010 EC6B10209030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.5 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

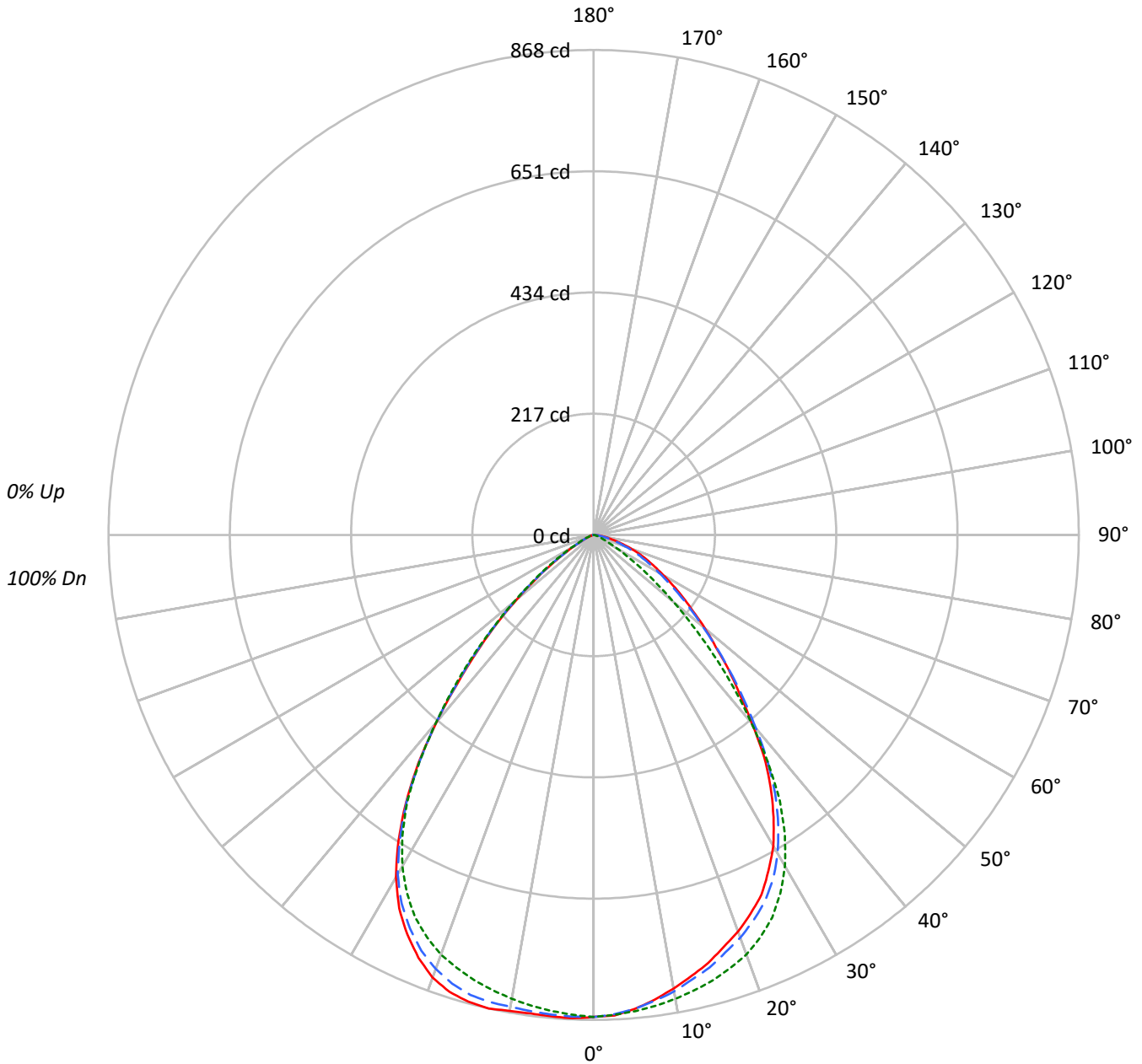
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56290	56290	56290
5°	55758	56027	56642
10°	54601	55846	57297
15°	53561	55736	58417
20°	52453	55487	58527
25°	51153	54385	56789
30°	48432	51573	53298
35°	43979	46225	46640
40°	37541	37371	37183
45°	31536	27974	27116
50°	26338	18929	17975
55°	22169	11613	10555
60°	18763	6120	5298
65°	16240	3226	2563
70°	13524	1984	1373
75°	9982	1311	781
80°	7852	789	376
85°	6288	749	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	5.6
10°-20°	232.8	16.1
20°-30°	343.8	23.8
30°-40°	354.3	24.5
40°-50°	244.7	16.9
50°-60°	120.6	8.3
60°-70°	48.9	3.4
70°-80°	17.4	1.2
80°-90°	3.6	0.2
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°	657.9	45.5
0°-40°	1012.3	69.9
0°-60°	1377.6	95.2
0°-90°	1447.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	863	863	863	863	863	
5°	851	851	856	862	865	80
15°	793	801	825	852	865	223
25°	711	724	756	777	789	325
35°	552	566	580	584	586	342
45°	342	344	303	299	294	264
55°	195	188	102	96	93	176
65°	105	95	21	17	17	105
75°	40	33	5	3	3	44
85°	8	6	1	0	0	10
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°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8
2.5°	860.8	857.6	859.6	855.5	860.8	855.5	856.5	857.6	856.5	857.6	858.6
5°	851.4	848.2	851.4	846.1	851.4	848.2	848.2	849.2	849.2	850.2	851.4
7.5°	838.9	835.8	838.9	833.6	839.9	836.8	836.8	838.9	837.8	838.9	840.9
10°	824.2	820.1	823.2	820.1	826.4	822.1	824.2	824.2	824.2	827.4	829.5
12.5°	808.6	804.5	808.6	803.4	809.6	806.5	807.6	810.8	811.8	813.9	814.9
15°	793.0	787.8	789.9	786.8	793.0	789.9	790.9	795.1	795.1	798.2	801.4
17.5°	773.1	769.0	773.1	769.0	774.2	772.1	774.2	777.4	777.4	780.5	783.6
20°	755.5	751.2	754.4	751.2	757.5	754.4	755.5	759.6	760.6	763.8	766.9
22.5°	733.6	730.5	732.5	729.4	735.6	733.6	734.6	738.8	739.9	741.9	747.1
25°	710.6	704.4	707.5	705.5	711.8	708.6	710.6	714.9	716.9	720.0	724.2
27.5°	677.4	674.2	676.2	676.2	681.5	678.4	679.4	683.6	686.8	689.9	695.0
30°	642.9	637.8	639.8	640.9	645.0	642.9	645.0	649.1	650.2	654.4	658.5
32.5°	599.1	597.1	601.2	599.1	601.2	601.2	602.2	605.4	607.5	609.6	614.8
35°	552.2	548.1	552.2	550.2	555.4	552.2	555.4	558.5	558.5	562.8	565.9
37.5°	501.2	496.0	498.1	498.1	500.1	499.1	499.1	504.4	505.4	508.5	511.6
40°	440.8	438.8	442.9	441.9	442.9	442.9	443.9	447.0	449.1	450.1	451.2
42.5°	386.6	387.6	388.6	388.6	388.6	388.6	388.6	392.9	391.8	394.9	396.0
45°	341.8	337.6	339.8	338.6	341.8	338.6	341.8	344.9	342.9	346.0	343.9
47.5°	295.9	295.9	295.9	294.9	297.0	295.9	298.0	299.0	299.0	299.0	298.0
50°	259.5	256.4	257.4	257.4	258.4	257.4	259.5	260.5	260.5	258.4	254.2
52.5°	224.0	223.0	223.0	225.1	225.1	224.0	224.0	224.0	224.0	220.9	218.9
55°	194.9	192.8	193.9	193.9	193.9	193.9	194.9	193.9	193.9	190.8	187.6
57.5°	168.8	166.8	166.8	166.8	167.8	166.8	166.8	166.8	165.6	162.5	158.4
60°	143.8	142.8	143.8	143.8	144.9	143.8	143.8	143.8	141.8	138.6	134.4
62.5°	123.0	123.0	123.0	124.0	124.0	123.0	123.0	121.9	120.9	116.8	112.5
65°	105.2	104.2	105.2	105.2	106.2	106.2	105.2	104.2	103.1	99.0	94.9
67.5°	87.5	86.5	87.5	87.5	88.6	87.5	87.5	87.5	84.4	82.4	78.1
70°	70.9	69.9	69.9	69.9	70.9	68.8	69.9	69.9	67.8	64.6	60.5
72.5°	54.1	54.1	54.1	54.1	54.1	54.1	53.1	53.1	51.0	47.9	45.9
75°	39.6	39.6	40.6	40.6	39.6	39.6	39.6	38.5	37.5	35.4	33.4
77.5°	29.1	29.1	29.1	29.1	28.1	28.1	28.1	27.1	26.0	25.0	22.9
80°	20.9	20.9	20.9	19.8	20.9	19.8	19.8	19.8	17.8	16.6	15.6
82.5°	14.6	13.5	13.5	13.5	13.5	13.5	13.5	12.5	12.5	11.5	10.4
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.2	6.2	6.2
87.5°	4.1	5.2	5.2	5.2	5.2	5.2	5.2	4.1	4.1	4.1	3.1
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°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8
2.5°	858.6	858.6	860.8	857.6	862.8	859.6	858.6	863.9	860.8	859.6	861.8
5°	851.4	852.4	853.4	851.4	856.5	853.4	853.4	858.6	856.5	855.5	858.6
7.5°	842.0	843.0	845.1	844.0	848.2	846.1	847.1	852.4	850.2	850.2	853.4
10°	830.5	832.6	834.6	834.6	839.9	837.8	837.8	844.0	842.0	843.0	847.1
12.5°	817.0	820.1	823.2	824.2	829.5	826.4	827.4	834.6	833.6	834.6	838.9
15°	802.4	806.5	809.6	809.6	815.9	812.8	815.9	823.2	821.1	825.2	830.5
17.5°	785.8	789.9	794.0	795.1	801.4	799.2	803.4	810.8	810.8	812.8	819.0
20°	770.0	775.2	777.4	780.5	786.8	785.8	787.8	796.1	796.1	799.2	805.5
22.5°	749.2	754.4	758.6	761.8	766.9	766.9	770.0	777.4	777.4	779.4	785.8
25°	726.2	732.5	735.6	738.8	744.0	743.0	746.1	752.4	753.4	755.5	761.8
27.5°	697.1	702.4	706.5	708.6	715.9	711.8	714.9	722.1	721.1	723.1	728.4
30°	660.6	665.9	670.0	670.0	676.2	676.2	679.4	682.5	682.5	684.6	688.8
32.5°	617.9	624.1	624.1	627.2	631.5	627.2	631.5	635.6	633.5	636.6	639.8
35°	569.0	572.1	573.1	573.1	576.2	575.2	574.1	577.2	575.2	580.4	583.5
37.5°	509.5	513.8	511.6	513.8	512.6	509.5	509.5	514.8	510.6	511.6	514.8
40°	452.2	452.2	451.2	446.0	447.0	443.9	442.9	443.9	439.8	438.8	442.9
42.5°	392.9	391.8	388.6	381.4	382.4	377.2	373.0	373.0	371.0	369.9	371.0
45°	339.8	336.6	331.4	323.0	321.0	316.8	308.5	306.4	303.2	303.2	304.2
47.5°	290.8	286.5	278.2	268.9	263.6	258.4	250.1	247.0	241.8	239.6	241.8
50°	250.1	242.8	232.4	218.9	213.6	207.4	199.0	193.9	188.6	186.5	185.5
52.5°	212.6	202.1	191.8	175.0	170.9	164.6	153.1	148.0	142.8	138.6	138.6
55°	180.2	170.9	156.2	140.6	134.4	128.1	116.8	109.4	104.2	102.1	100.0
57.5°	151.1	140.6	127.1	110.5	104.2	98.0	86.5	79.2	74.0	70.9	68.8
60°	127.1	115.6	102.1	87.5	80.2	74.0	62.5	55.2	50.0	46.9	44.8
62.5°	104.2	94.9	81.2	67.8	61.5	55.2	45.9	38.5	33.4	31.2	28.1
65°	87.5	78.1	65.6	54.1	49.0	42.8	34.4	28.1	24.0	20.9	18.8
67.5°	70.9	63.6	53.1	42.8	37.5	33.4	26.0	20.9	16.6	14.6	13.5
70°	56.2	49.0	40.6	32.2	29.1	25.0	19.8	14.6	12.5	10.4	9.4
72.5°	41.6	36.5	30.2	24.0	20.9	18.8	13.5	11.5	8.4	7.2	6.2
75°	30.2	26.0	21.9	16.6	14.6	13.5	10.4	7.2	6.2	5.2	4.1
77.5°	20.9	18.8	14.6	11.5	10.4	9.4	7.2	5.2	4.1	3.1	3.1
80°	13.5	11.5	9.4	7.2	7.2	6.2	4.1	3.1	3.1	2.1	2.1
82.5°	8.4	7.2	6.2	5.2	4.1	4.1	3.1	2.1	2.1	1.0	1.0
85°	5.2	4.1	3.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0
87.5°	2.1	2.1	2.1	1.0	1.0	1.0	1.0	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°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8
2.5°	861.8	861.8	863.9	860.8	862.8	862.8	864.9	860.8	862.8	863.9	865.9
5°	857.6	858.6	860.8	859.6	860.8	860.8	862.8	857.6	861.8	861.8	864.9
7.5°	853.4	853.4	855.5	854.5	856.5	857.6	859.6	855.5	859.6	859.6	862.8
10°	848.2	848.2	851.4	850.2	853.4	854.5	857.6	853.4	857.6	858.6	861.8
12.5°	840.9	842.0	845.1	845.1	848.2	850.2	853.4	851.4	856.5	857.6	861.8
15°	832.6	834.6	838.9	837.8	840.9	844.0	848.2	845.1	852.4	854.5	858.6
17.5°	822.1	824.2	827.4	827.4	830.5	832.6	837.8	835.8	842.0	843.0	848.2
20°	806.5	809.6	813.9	812.8	815.9	818.0	822.1	820.1	826.4	828.4	833.6
22.5°	787.8	789.9	793.0	793.0	796.1	798.2	802.4	799.2	805.5	806.5	810.8
25°	762.8	764.9	766.9	768.0	771.1	772.1	774.2	772.1	777.4	778.4	783.6
27.5°	730.5	731.5	734.6	734.6	736.8	737.8	740.9	736.8	744.0	744.0	747.1
30°	691.9	690.9	695.0	693.0	695.0	695.0	698.1	696.1	701.2	699.2	702.4
32.5°	640.9	642.9	642.9	640.9	645.0	644.0	644.0	641.9	645.0	646.0	648.1
35°	581.5	584.6	584.6	585.6	586.6	583.5	584.6	578.4	583.5	584.6	585.6
37.5°	516.9	513.8	515.8	512.6	517.9	511.6	511.6	507.5	511.6	511.6	512.6
40°	442.9	441.9	443.9	441.9	440.8	439.8	437.6	434.5	438.8	436.6	439.8
42.5°	373.0	372.0	372.0	369.9	368.9	368.9	366.8	364.8	363.6	363.6	368.9
45°	301.1	303.2	301.1	300.1	302.2	300.1	301.1	297.0	299.0	297.0	299.0
47.5°	240.8	241.8	239.6	237.6	240.8	237.6	237.6	234.5	238.6	238.6	236.5
50°	186.5	185.5	183.4	185.5	184.5	184.5	184.5	181.4	183.4	180.2	182.4
52.5°	137.5	136.5	136.5	135.5	136.5	135.5	135.5	134.4	134.4	133.4	134.4
55°	100.0	99.0	96.9	96.9	96.9	98.0	96.9	95.9	95.9	94.9	95.9
57.5°	67.8	65.6	65.6	65.6	65.6	64.6	64.6	63.6	64.6	63.6	64.6
60°	43.8	43.8	41.6	41.6	41.6	41.6	41.6	40.6	41.6	41.6	41.6
62.5°	27.1	27.1	26.0	25.0	26.0	25.0	25.0	25.0	26.0	25.0	26.0
65°	17.8	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
67.5°	12.5	11.5	11.5	11.5	11.5	11.5	11.5	10.4	11.5	11.5	11.5
70°	8.4	8.4	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
75°	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8
2.5°	862.8	863.9	861.8	862.8	860.8	862.8	863.9	865.9
5°	860.8	861.8	859.6	861.8	859.6	861.8	862.8	864.9
7.5°	858.6	860.8	858.6	860.8	858.6	860.8	861.8	863.9
10°	858.6	861.8	859.6	862.8	859.6	861.8	863.9	864.9
12.5°	858.6	861.8	860.8	862.8	861.8	863.9	865.9	868.0
15°	856.5	859.6	857.6	860.8	859.6	860.8	864.9	864.9
17.5°	845.1	848.2	848.2	850.2	850.2	853.4	855.5	857.6
20°	830.5	833.6	832.6	835.8	835.8	838.9	840.9	843.0
22.5°	808.6	812.8	811.8	814.9	813.9	815.9	820.1	819.0
25°	780.5	785.8	784.6	786.8	785.8	785.8	787.8	788.9
27.5°	746.1	749.2	748.1	750.2	748.1	750.2	752.4	753.4
30°	701.2	703.4	702.4	703.4	702.4	704.4	705.5	707.5
32.5°	647.1	650.2	647.1	649.1	648.1	648.1	652.2	650.2
35°	582.5	583.5	584.6	584.6	582.5	583.5	585.6	585.6
37.5°	510.6	515.8	509.5	512.6	511.6	511.6	511.6	514.8
40°	435.6	436.6	434.5	434.5	434.5	433.5	437.6	436.6
42.5°	364.8	365.8	364.8	361.6	362.6	362.6	365.8	361.6
45°	295.9	298.0	297.0	297.0	294.9	294.9	295.9	293.9
47.5°	234.5	236.5	233.4	234.5	232.4	234.5	233.4	235.5
50°	178.1	180.2	179.2	180.2	180.2	178.1	181.4	177.1
52.5°	133.4	134.4	133.4	132.4	131.2	131.2	133.4	132.4
55°	94.9	93.8	93.8	93.8	94.9	94.9	93.8	92.8
57.5°	63.6	63.6	62.5	62.5	63.6	61.5	62.5	61.5
60°	40.6	40.6	40.6	40.6	39.6	40.6	40.6	40.6
62.5°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
67.5°	10.4	11.5	11.5	11.5	10.4	10.4	10.4	10.4
70°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)