

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: P252667

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1404.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

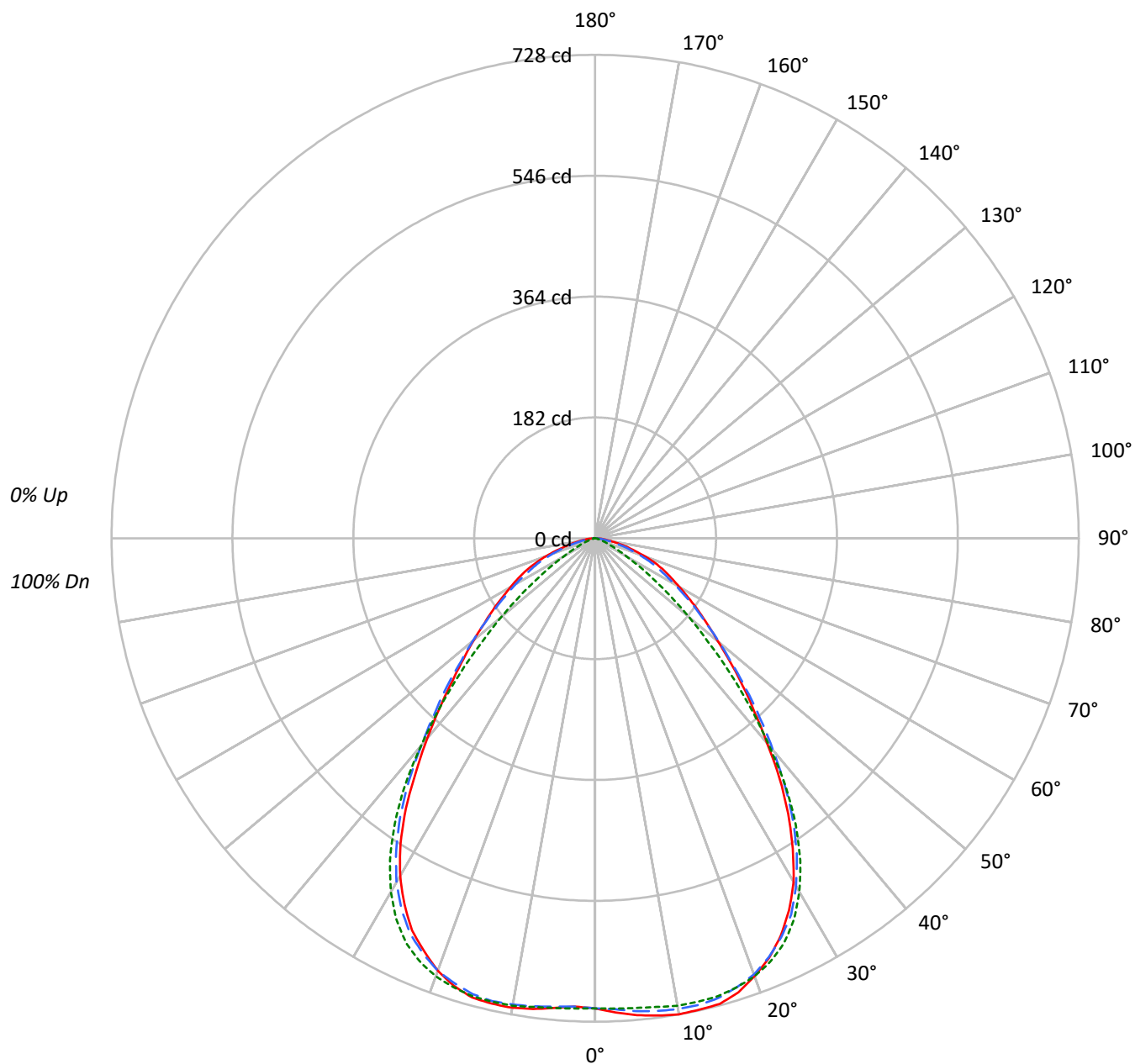
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68		
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61		
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54		
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48		
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44		
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40		
9	63	51	44	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46184	46184	46184
5°	47212	46491	46491
10°	48221	47360	47559
15°	49029	48218	48353
20°	48731	48731	48106
25°	47568	48439	46920
30°	45034	46315	44206
35°	40348	41941	39551
40°	34279	34705	33427
45°	29008	26517	27993
50°	24481	18696	24176
55°	21520	12068	21293
60°	19063	7190	19194
65°	17614	4322	17614
70°	15279	2480	14898
75°	12099	1512	11343
80°	9017	1127	8641
85°	8234	749	7486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	4.9
10°-20°	201.7	14.4
20°-30°	303.4	21.6
30°-40°	318.9	22.7
40°-50°	238.3	17.0
50°-60°	148.3	10.6
60°-70°	84.3	6.0
70°-80°	34.7	2.5
80°-90°	7.2	0.5
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°	573.2	40.8
0°-40°	892.2	63.5
0°-60°	1278.7	91.0
0°-90°	1404.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	708	708	708	708	708	
5°	721	715	710	708	710	69
15°	726	717	714	711	716	204
25°	661	663	673	658	652	303
35°	507	520	527	512	497	314
45°	314	321	287	315	303	244
55°	189	185	106	182	187	170
65°	114	102	28	102	114	112
75°	48	38	6	37	45	52
85°	11	7	1	6	10	12
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°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	714.9	713.9	714.9	712.9	711.9	711.9	712.9	710.9	709.9	710.9	709.9
5°	720.9	718.9	719.9	718.9	716.9	716.9	717.9	714.9	714.9	715.9	714.9
7.5°	724.9	724.9	724.9	722.9	721.9	720.9	722.9	719.9	718.9	718.9	717.9
10°	727.9	726.9	727.9	725.9	723.9	722.9	724.9	722.9	720.9	722.9	719.9
12.5°	726.9	726.9	726.9	725.9	723.9	722.9	724.9	721.9	720.9	721.9	719.9
15°	725.9	722.9	723.9	722.9	719.9	719.9	720.9	717.9	715.9	718.9	716.9
17.5°	716.9	714.9	715.9	713.9	711.9	710.9	711.9	710.9	708.9	710.9	708.9
20°	701.9	701.9	702.9	700.9	698.9	697.9	699.9	697.9	695.9	698.9	698.9
22.5°	683.9	683.9	683.9	682.9	681.9	681.9	681.9	680.9	679.9	681.9	682.9
25°	660.8	659.8	660.8	661.9	660.8	659.8	660.8	660.8	658.8	662.9	662.9
27.5°	631.8	631.8	633.8	632.8	632.8	631.8	633.8	633.8	632.8	635.8	638.8
30°	597.8	595.8	597.8	597.8	598.8	598.8	599.8	599.8	599.8	602.8	604.8
32.5°	553.6	554.6	557.6	556.6	555.6	558.6	558.6	560.8	561.8	563.8	564.8
35°	506.6	507.6	507.6	508.6	510.6	508.6	513.6	512.6	513.6	517.6	519.6
37.5°	456.5	453.5	458.6	456.5	457.5	457.5	459.6	460.6	463.6	468.6	468.6
40°	402.5	403.5	405.5	406.5	407.5	407.5	407.5	410.5	411.5	417.5	416.5
42.5°	355.4	355.4	357.5	358.5	358.5	358.5	358.5	361.5	363.5	365.5	367.5
45°	314.4	311.4	313.4	313.4	315.4	314.4	316.4	318.4	319.4	322.4	321.4
47.5°	275.4	274.4	275.4	276.4	275.4	276.4	277.4	278.4	279.4	279.4	279.4
50°	241.2	241.2	242.2	243.2	243.2	243.2	243.2	244.2	244.2	246.2	244.2
52.5°	213.2	214.2	214.2	213.2	214.2	214.2	215.2	215.2	214.2	214.2	211.2
55°	189.2	188.2	189.2	188.2	189.2	189.2	188.2	188.2	187.2	186.2	185.2
57.5°	166.2	166.2	166.2	166.2	165.2	166.2	165.2	164.2	164.2	162.2	159.2
60°	146.1	146.1	146.1	146.1	146.1	145.1	146.1	145.1	143.1	141.1	137.1
62.5°	129.1	128.1	129.1	128.1	128.1	127.1	127.1	126.1	124.1	122.1	118.1
65°	114.1	115.1	114.1	114.1	113.1	112.1	112.1	111.1	108.1	106.1	102.1
67.5°	98.1	97.1	97.1	97.1	96.1	96.1	96.1	94.1	92.1	89.1	85.1
70°	80.1	80.1	80.1	79.1	79.1	78.1	78.1	77.1	75.1	73.1	68.1
72.5°	63.1	63.1	63.1	61.1	62.1	61.1	61.1	59.1	58.1	55.1	52.1
75°	48.0	48.0	47.0	47.0	46.0	45.0	45.0	44.0	43.0	41.0	38.0
77.5°	35.0	35.0	35.0	34.0	33.0	32.0	32.0	31.0	30.0	29.0	27.0
80°	24.0	24.0	24.0	24.0	23.0	22.0	22.0	21.0	21.0	20.0	18.0
82.5°	16.0	16.0	16.0	16.0	15.0	15.0	15.0	14.0	13.0	13.0	11.0
85°	11.0	11.0	10.0	10.0	10.0	10.0	9.0	9.0	8.0	7.0	7.0
87.5°	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	4.0	4.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	712.9	712.9	711.9	708.9	709.9	708.9	709.9	708.9	705.9	708.9	705.9
5°	716.9	717.9	715.9	711.9	712.9	711.9	711.9	710.9	707.9	709.9	707.9
7.5°	720.9	719.9	718.9	714.9	715.9	714.9	714.9	712.9	709.9	711.9	708.9
10°	722.9	722.9	720.9	716.9	716.9	715.9	716.9	715.9	711.9	714.9	712.9
12.5°	722.9	721.9	721.9	716.9	717.9	716.9	717.9	715.9	712.9	714.9	713.9
15°	719.9	719.9	718.9	713.9	714.9	714.9	715.9	713.9	710.9	713.9	711.9
17.5°	713.9	713.9	712.9	708.9	710.9	710.9	711.9	709.9	706.9	708.9	708.9
20°	701.9	702.9	702.9	699.9	701.9	701.9	702.9	701.9	700.9	701.9	699.9
22.5°	687.9	689.9	689.9	686.9	688.9	688.9	691.9	690.9	688.9	689.9	688.9
25°	666.9	668.9	670.9	668.9	670.9	670.9	673.9	672.9	670.9	672.9	669.9
27.5°	642.8	643.8	645.8	643.8	646.8	645.8	648.8	647.8	644.8	647.8	646.8
30°	608.8	612.8	615.8	612.8	615.8	615.8	617.8	616.8	615.8	614.8	614.8
32.5°	570.8	574.8	574.8	573.8	575.8	575.8	576.8	574.8	573.8	574.8	575.8
35°	523.6	525.6	527.6	526.6	527.6	528.6	527.6	528.6	525.6	526.6	526.6
37.5°	472.6	474.6	474.6	471.6	473.6	473.6	471.6	471.6	469.6	471.6	467.6
40°	418.5	416.5	417.5	415.5	413.5	413.5	412.5	408.5	406.5	407.5	408.5
42.5°	365.5	365.5	362.5	357.5	352.4	352.4	349.4	347.4	343.4	345.4	344.4
45°	320.4	315.4	311.4	303.4	300.4	298.4	293.4	288.4	286.4	287.4	286.4
47.5°	277.4	273.4	263.4	252.2	249.2	246.2	240.2	234.2	232.2	230.2	230.2
50°	241.2	234.2	223.2	211.2	206.2	201.2	193.2	187.2	183.2	184.2	184.2
52.5°	208.2	200.2	187.2	172.2	166.2	160.2	153.2	146.1	143.1	142.1	142.1
55°	179.2	170.2	157.2	140.1	135.1	128.1	119.1	111.1	107.1	106.1	108.1
57.5°	153.2	145.1	130.1	113.1	107.1	100.1	91.1	84.1	79.1	78.1	79.1
60°	132.1	121.1	108.1	92.1	84.1	78.1	68.1	62.1	57.1	55.1	56.1
62.5°	111.1	101.1	88.1	72.1	66.1	60.1	51.1	44.0	40.0	39.0	40.0
65°	95.1	85.1	73.1	59.1	53.1	47.0	39.0	32.0	29.0	28.0	29.0
67.5°	79.1	70.1	60.1	47.0	42.0	37.0	29.0	24.0	20.0	19.0	20.0
70°	64.1	56.1	46.0	37.0	32.0	28.0	22.0	17.0	14.0	13.0	14.0
72.5°	48.0	42.0	35.0	27.0	24.0	21.0	16.0	12.0	10.0	9.0	10.0
75°	35.0	30.0	25.0	19.0	17.0	15.0	11.0	8.0	7.0	6.0	7.0
77.5°	24.0	21.0	17.0	13.0	11.0	10.0	7.0	6.0	5.0	4.0	4.0
80°	16.0	14.0	11.0	9.0	8.0	7.0	5.0	4.0	3.0	3.0	3.0
82.5°	10.0	8.0	7.0	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0
85°	6.0	5.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	707.9	705.9	705.9	706.9	707.9	708.9	706.9	705.9	705.9	708.9	706.9
5°	707.9	706.9	706.9	706.9	708.9	709.9	707.9	706.9	707.9	710.9	709.9
7.5°	710.9	708.9	709.9	709.9	710.9	712.9	710.9	709.9	710.9	713.9	711.9
10°	712.9	710.9	711.9	710.9	713.9	714.9	712.9	711.9	712.9	716.9	715.9
12.5°	713.9	712.9	712.9	711.9	714.9	715.9	713.9	712.9	713.9	716.9	715.9
15°	711.9	710.9	710.9	710.9	712.9	714.9	711.9	710.9	710.9	713.9	712.9
17.5°	707.9	705.9	705.9	705.9	706.9	707.9	704.9	703.9	702.9	705.9	704.9
20°	700.9	698.9	696.9	696.9	697.9	697.9	695.9	692.9	692.9	693.9	691.9
22.5°	687.9	686.9	684.9	683.9	685.9	684.9	680.9	677.9	676.9	677.9	675.9
25°	669.9	667.9	666.9	665.9	666.9	665.9	661.9	657.8	657.8	657.8	654.8
27.5°	644.8	642.8	641.8	641.8	642.8	640.8	636.8	632.8	630.8	630.8	627.8
30°	612.8	612.8	611.8	610.8	609.8	609.8	603.8	599.8	597.8	598.8	596.8
32.5°	573.8	572.8	571.8	568.8	569.8	568.8	563.8	560.8	557.6	555.6	554.6
35°	523.6	523.6	522.6	522.6	522.6	521.6	516.6	513.6	511.6	510.6	507.6
37.5°	468.6	467.6	466.6	466.6	466.6	466.6	463.6	460.6	460.6	459.6	457.5
40°	406.5	407.5	408.5	407.5	410.5	413.5	409.5	407.5	406.5	409.5	405.5
42.5°	346.4	345.4	350.4	351.4	351.4	356.5	357.5	358.5	357.5	359.5	359.5
45°	288.4	287.4	292.4	294.4	299.4	305.4	308.4	313.4	315.4	317.4	315.4
47.5°	233.2	237.2	241.2	246.2	250.2	260.4	266.4	271.4	273.4	276.4	276.4
50°	187.2	191.2	198.2	202.2	207.2	219.2	229.2	236.2	240.2	243.2	242.2
52.5°	144.1	151.1	160.2	164.2	171.2	185.2	196.2	204.2	209.2	212.2	213.2
55°	111.1	117.1	126.1	132.1	139.1	154.2	168.2	177.2	182.2	186.2	188.2
57.5°	82.1	89.1	99.1	104.1	112.1	129.1	141.1	152.1	158.2	163.2	164.2
60°	60.1	67.1	76.1	82.1	90.1	107.1	121.1	131.1	138.1	142.1	144.1
62.5°	43.0	50.0	59.1	65.1	72.1	87.1	101.1	111.1	118.1	123.1	126.1
65°	31.0	38.0	47.0	52.1	58.1	72.1	85.1	95.1	102.1	108.1	110.1
67.5°	23.0	28.0	36.0	41.0	47.0	58.1	69.1	78.1	85.1	90.1	92.1
70°	17.0	21.0	28.0	31.0	35.0	45.0	54.1	62.1	68.1	72.1	74.1
72.5°	12.0	15.0	20.0	23.0	26.0	34.0	41.0	47.0	51.1	55.1	57.1
75°	8.0	10.0	14.0	16.0	18.0	24.0	29.0	34.0	37.0	40.0	41.0
77.5°	5.0	7.0	10.0	11.0	13.0	16.0	20.0	23.0	25.0	27.0	29.0
80°	3.0	4.0	6.0	7.0	8.0	11.0	13.0	15.0	17.0	19.0	20.0
82.5°	2.0	3.0	4.0	4.0	5.0	6.0	8.0	10.0	11.0	12.0	13.0
85°	1.0	1.0	2.0	2.0	3.0	3.0	4.0	5.0	6.0	7.0	8.0
87.5°	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0
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°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	704.9	707.9	704.9	706.9	705.9	705.9	704.9	705.9
5°	707.9	711.9	707.9	710.9	708.9	708.9	708.9	709.9
7.5°	710.9	714.9	711.9	714.9	713.9	712.9	712.9	714.9
10°	713.9	716.9	714.9	717.9	716.9	715.9	715.9	717.9
12.5°	713.9	717.9	715.9	718.9	717.9	716.9	716.9	717.9
15°	710.9	715.9	712.9	715.9	714.9	713.9	713.9	715.9
17.5°	701.9	705.9	703.9	705.9	705.9	704.9	705.9	706.9
20°	689.9	692.9	690.9	692.9	692.9	690.9	691.9	692.9
22.5°	672.9	675.9	673.9	675.9	674.9	673.9	673.9	672.9
25°	651.8	655.8	652.8	654.8	652.8	650.8	650.8	651.8
27.5°	625.8	628.8	624.8	626.8	624.8	622.8	622.8	621.8
30°	591.8	592.8	589.8	591.8	589.8	588.8	586.8	586.8
32.5°	550.6	551.6	548.6	548.6	546.6	546.6	542.6	545.6
35°	502.6	503.6	502.6	501.6	498.6	497.6	496.6	496.6
37.5°	452.5	452.5	449.5	448.5	446.5	444.5	445.5	442.5
40°	401.5	400.5	397.5	398.5	397.5	394.5	393.5	392.5
42.5°	353.4	353.4	350.4	351.4	349.4	348.4	345.4	346.4
45°	311.4	311.4	308.4	308.4	307.4	304.4	305.4	303.4
47.5°	273.4	273.4	272.4	272.4	269.4	268.4	268.4	268.4
50°	240.2	240.2	240.2	240.2	239.2	238.2	237.2	238.2
52.5°	212.2	214.2	213.2	213.2	212.2	211.2	210.2	210.2
55°	187.2	188.2	188.2	189.2	188.2	187.2	188.2	187.2
57.5°	165.2	167.2	167.2	167.2	167.2	167.2	166.2	165.2
60°	146.1	147.1	147.1	148.1	148.1	148.1	147.1	147.1
62.5°	127.1	129.1	130.1	130.1	131.1	130.1	130.1	130.1
65°	112.1	114.1	115.1	114.1	115.1	115.1	114.1	114.1
67.5°	94.1	96.1	96.1	96.1	96.1	97.1	96.1	96.1
70°	76.1	78.1	77.1	78.1	78.1	78.1	78.1	78.1
72.5°	58.1	59.1	60.1	60.1	61.1	60.1	60.1	60.1
75°	42.0	44.0	44.0	44.0	44.0	45.0	45.0	45.0
77.5°	30.0	31.0	31.0	32.0	32.0	32.0	32.0	33.0
80°	21.0	21.0	22.0	22.0	23.0	23.0	23.0	23.0
82.5°	14.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
85°	8.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0
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)