

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: P252465

Luminaire Tested: **LE_6B15D010 EC6B10209730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

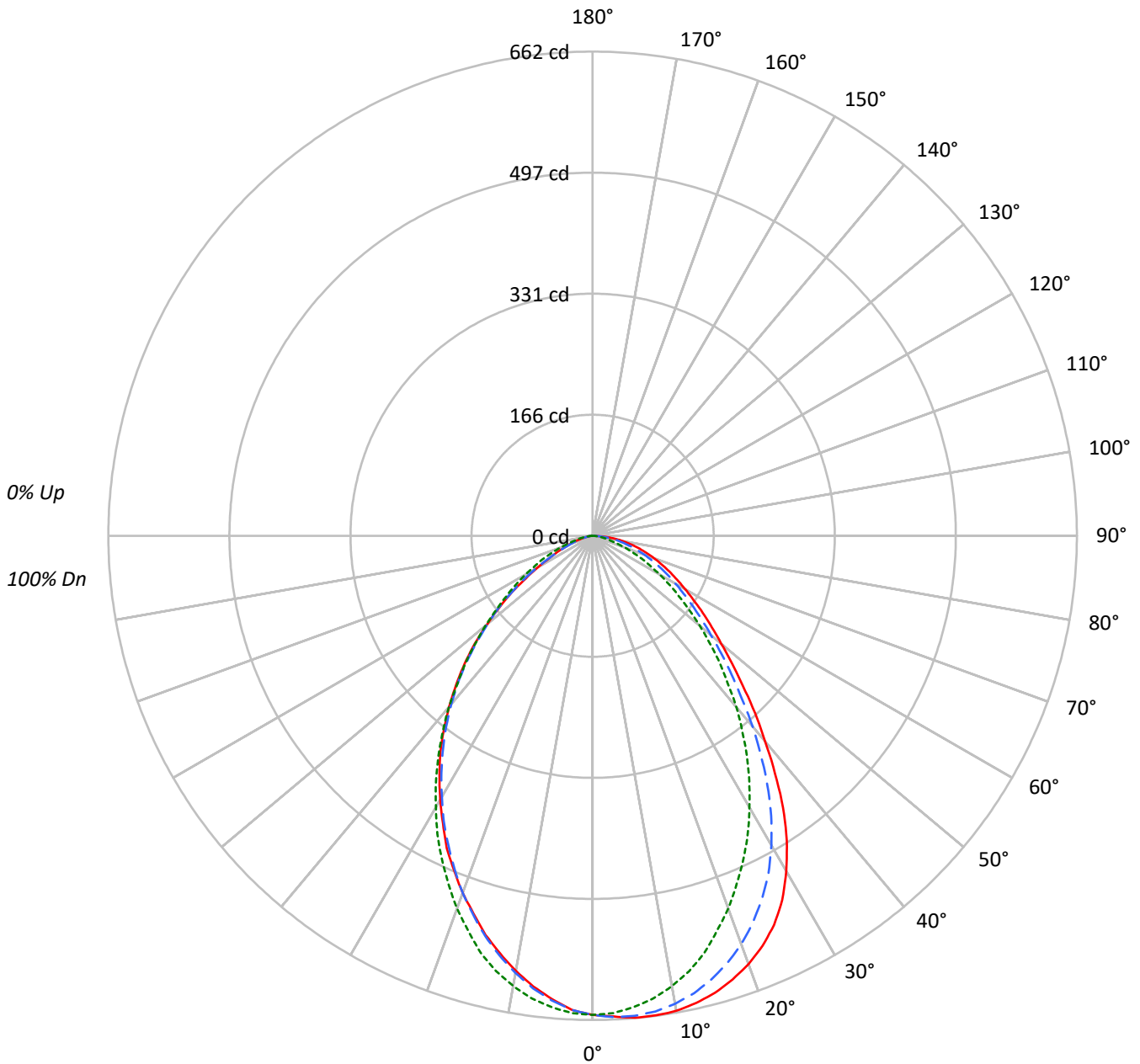
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42739	42739	42739
5°	43322	42365	41652
10°	43697	41411	40020
15°	43693	39884	38161
20°	43267	37644	36068
25°	42248	35114	33934
30°	39889	32280	31399
35°	36158	29277	28911
40°	31222	26044	25958
45°	26775	22660	22835
50°	23263	19396	19122
55°	20906	16356	15310
60°	18998	13766	11287
65°	17830	11393	8274
70°	16996	8851	6085
75°	16284	6428	4134
80°	15404	4471	2705
85°	13624	2695	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	5.3
10°-20°	167.8	14.5
20°-30°	233.0	20.1
30°-40°	241.3	20.8
40°-50°	198.3	17.1
50°-60°	136.3	11.7
60°-70°	78.4	6.7
70°-80°	36.0	3.1
80°-90°	8.8	0.8
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°	462.1	39.8
0°-40°	703.5	60.6
0°-60°	1038.1	89.4
0°-90°	1161.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	655	655	655	655	655	
5°	662	659	647	638	636	63
15°	647	628	590	567	565	182
25°	587	548	488	467	471	269
35°	454	417	368	357	363	282
45°	290	268	246	243	248	226
55°	184	166	144	136	135	165
65°	116	101	74	52	54	115
75°	65	51	26	16	16	68
85°	18	13	4	2	2	20
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°	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1
2.5°	657.9	663.2	659.6	658.8	660.6	660.6	660.6	657.9	659.6	656.9	658.8
5°	661.5	666.0	662.4	660.6	662.4	663.2	660.6	658.8	661.5	657.9	658.8
7.5°	661.5	666.0	662.4	661.5	662.4	662.4	661.5	657.9	659.6	656.0	656.0
10°	659.6	663.2	659.6	657.9	658.8	657.9	657.9	653.2	654.2	649.6	649.6
12.5°	654.2	658.8	654.2	652.4	652.4	652.4	649.6	646.0	646.9	641.5	640.5
15°	646.9	650.6	646.0	644.2	644.2	643.2	641.5	636.0	636.0	630.5	627.9
17.5°	636.0	639.6	636.0	633.2	632.4	630.5	628.8	623.2	621.5	615.1	612.4
20°	623.2	626.0	622.4	619.6	617.8	616.0	612.4	606.9	605.1	598.8	594.1
22.5°	606.9	610.5	605.1	602.4	600.5	597.8	594.1	588.8	586.0	577.8	572.4
25°	586.9	588.8	584.1	581.4	577.8	576.0	573.2	566.0	563.2	554.1	547.8
27.5°	561.4	563.2	557.8	556.0	551.4	549.6	545.9	539.5	535.9	526.9	520.5
30°	529.5	531.4	527.8	525.0	521.4	517.8	515.0	508.6	503.1	494.1	488.6
32.5°	494.1	496.8	493.1	489.5	483.1	484.0	479.5	473.1	468.6	460.4	454.0
35°	454.0	455.9	451.2	450.4	446.8	443.1	438.6	434.0	431.2	422.1	416.8
37.5°	409.5	414.0	409.5	405.8	404.0	401.2	398.5	392.1	390.4	384.9	377.6
40°	366.6	369.4	366.6	363.0	360.4	360.4	356.6	353.0	348.5	343.0	340.2
42.5°	328.5	326.6	325.8	323.9	320.2	319.4	318.5	313.9	311.1	305.8	301.1
45°	290.2	291.1	289.4	288.4	285.8	283.9	282.1	278.4	277.5	272.0	268.4
47.5°	258.4	257.5	255.6	255.6	253.9	252.0	250.2	247.5	246.6	242.0	238.4
50°	229.2	230.2	229.2	228.4	225.6	224.8	222.9	221.1	219.2	214.8	211.1
52.5°	205.6	204.8	203.9	203.9	201.1	200.1	198.4	196.5	194.8	190.1	187.4
55°	183.8	183.8	182.9	182.0	179.2	178.4	177.4	175.6	172.9	169.2	166.5
57.5°	163.8	163.8	162.9	162.0	160.1	160.1	158.4	156.5	154.6	151.0	147.4
60°	145.6	146.5	145.6	144.6	142.9	142.9	142.0	139.2	138.2	133.8	131.0
62.5°	130.1	130.1	130.1	129.2	128.2	126.5	126.5	123.8	121.9	119.2	115.5
65°	115.5	115.5	115.5	114.6	112.9	111.9	111.0	109.1	107.4	104.6	101.0
67.5°	101.9	101.9	101.9	101.0	99.1	98.2	97.4	96.5	93.8	91.0	87.4
70°	89.1	89.1	88.2	87.4	86.5	85.5	84.6	82.8	81.0	77.4	74.6
72.5°	76.4	76.4	76.4	74.6	73.8	73.8	71.9	71.0	69.1	65.5	62.8
75°	64.6	63.8	63.8	62.8	61.9	61.0	60.0	59.1	56.4	54.6	51.0
77.5°	52.8	52.8	51.9	51.0	51.0	50.0	49.1	47.4	46.4	43.6	41.0
80°	41.0	41.0	41.0	41.0	40.0	39.1	39.1	37.2	36.4	33.6	31.9
82.5°	30.9	30.0	30.0	30.0	29.1	28.2	28.2	27.2	26.4	24.6	22.8
85°	18.2	17.2	17.2	17.2	16.4	16.4	15.5	15.5	14.5	12.8	12.8
87.5°	5.5	5.5	6.4	6.4	5.5	5.5	5.5	5.5	5.5	4.5	4.5
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°	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1
2.5°	656.9	659.6	656.0	655.1	658.8	656.9	656.0	654.2	655.1	653.2	650.6
5°	656.0	659.6	655.1	652.4	656.9	654.2	652.4	650.6	650.6	646.9	645.1
7.5°	653.2	655.1	650.6	647.9	650.6	647.9	646.0	643.2	642.4	637.9	635.1
10°	646.0	647.9	642.4	638.8	641.5	637.9	635.1	632.4	630.5	625.1	621.5
12.5°	636.0	636.9	630.5	626.0	627.9	625.1	620.5	616.9	615.1	609.6	605.1
15°	622.4	623.2	616.0	609.6	611.5	607.8	602.4	598.8	596.0	590.5	584.1
17.5°	606.0	605.1	596.9	590.5	591.4	586.9	581.4	576.0	572.4	566.0	561.4
20°	587.8	585.0	576.0	568.6	569.6	564.1	557.8	552.2	547.8	542.2	535.9
22.5°	565.0	561.4	553.2	544.1	545.0	540.5	531.4	526.9	522.2	515.0	509.5
25°	540.5	535.0	526.9	517.8	517.8	512.2	505.0	499.5	495.0	487.8	481.4
27.5°	511.4	508.6	497.8	490.4	489.5	484.0	477.8	471.4	465.9	459.5	453.1
30°	479.5	475.0	466.8	458.6	456.8	452.2	445.9	438.6	434.9	428.5	423.1
32.5°	445.9	441.2	432.2	424.0	423.1	419.5	414.0	406.8	403.1	398.5	394.9
35°	407.6	405.8	396.8	390.4	390.4	386.8	381.2	374.9	372.1	367.6	363.0
37.5°	371.2	368.5	360.4	354.9	354.9	350.2	344.9	342.1	339.4	335.8	333.0
40°	333.0	331.2	324.9	319.4	320.2	316.6	313.0	309.4	307.5	305.8	303.0
42.5°	297.5	295.8	291.1	286.6	286.6	283.9	280.2	277.5	275.8	273.0	272.0
45°	265.6	263.0	259.4	254.8	254.8	252.0	250.2	248.4	247.5	245.6	243.0
47.5°	234.8	232.9	229.2	224.8	224.8	224.8	221.1	218.4	218.4	216.5	215.6
50°	208.4	205.6	202.9	199.2	199.2	197.5	194.8	192.0	192.0	191.1	189.2
52.5°	183.8	182.0	178.4	174.8	174.8	172.9	170.1	169.2	168.4	165.6	164.8
55°	162.9	161.0	158.4	153.8	152.9	152.0	149.2	147.4	146.5	143.8	143.8
57.5°	143.8	142.0	137.4	134.6	133.8	131.9	129.2	127.4	126.5	124.6	122.9
60°	127.4	124.6	121.0	117.4	116.5	114.6	111.9	110.1	109.1	105.5	103.8
62.5°	111.9	109.1	105.5	101.9	101.0	99.1	95.5	93.8	91.9	88.2	86.5
65°	97.4	94.6	91.0	87.4	85.5	84.6	81.0	78.2	76.4	73.8	70.0
67.5°	83.8	81.0	77.4	72.8	72.8	70.0	67.4	64.6	61.9	59.1	56.4
70°	71.0	68.2	64.6	61.0	60.0	58.2	55.5	51.9	50.0	46.4	43.6
72.5°	59.1	56.4	52.8	49.1	48.2	46.4	43.6	40.0	37.2	34.6	31.9
75°	48.2	45.5	41.9	39.1	38.2	36.4	33.6	30.0	27.2	25.5	22.8
77.5°	38.2	35.5	32.8	30.0	29.1	27.2	24.6	22.8	20.0	18.2	15.5
80°	29.1	27.2	24.6	22.8	21.9	20.0	18.2	15.5	13.6	11.9	10.9
82.5°	20.9	19.1	17.2	14.5	14.5	12.8	11.9	10.0	8.2	7.2	6.4
85°	11.9	10.0	9.1	8.2	7.2	7.2	6.4	5.5	4.5	3.6	3.6
87.5°	3.6	3.6	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
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°	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1
2.5°	650.6	651.5	649.6	651.5	649.6	650.6	648.8	650.6	648.8	650.6	646.9
5°	644.2	644.2	641.5	643.2	641.5	642.4	638.8	639.6	637.9	639.6	636.0
7.5°	633.2	634.2	629.6	631.5	628.8	628.8	626.0	626.9	624.1	625.1	622.4
10°	620.5	619.6	615.1	616.9	613.2	613.2	610.5	610.5	606.9	607.8	604.1
12.5°	602.4	601.4	596.0	597.8	594.1	594.1	591.4	591.4	587.8	589.6	586.0
15°	581.4	580.5	575.0	576.0	572.4	572.4	568.6	569.6	566.9	568.6	565.0
17.5°	557.8	556.9	551.4	552.2	547.8	548.6	545.9	545.0	543.2	544.1	541.4
20°	533.2	531.4	525.9	526.9	525.0	522.2	520.5	521.4	519.5	521.4	518.6
22.5°	507.8	504.1	499.5	499.5	497.8	497.8	495.0	496.8	493.1	495.9	494.1
25°	478.6	475.9	472.2	474.0	470.4	470.4	467.6	468.6	466.8	468.6	466.8
27.5°	450.4	448.6	443.1	444.9	442.2	443.1	440.4	441.2	440.4	442.2	440.4
30°	420.4	419.5	415.9	415.9	414.9	414.0	413.1	413.1	412.1	414.9	413.1
32.5°	392.1	389.4	385.8	388.5	384.0	386.8	384.9	386.8	384.9	386.8	385.8
35°	363.0	362.1	357.6	358.5	357.6	357.6	356.6	356.6	356.6	359.4	359.4
37.5°	332.1	331.2	328.5	329.4	327.5	326.6	326.6	328.5	328.5	330.2	330.2
40°	302.1	303.0	300.2	300.2	299.4	299.4	299.4	301.1	300.2	302.1	301.1
42.5°	272.0	272.0	269.4	270.2	269.4	270.2	270.2	272.0	272.0	273.0	272.0
45°	243.9	243.9	243.0	243.9	242.0	243.0	242.0	243.9	243.0	243.9	243.9
47.5°	215.6	215.6	215.6	214.8	214.8	214.8	214.8	214.8	213.9	215.6	214.8
50°	189.2	190.1	189.2	189.2	188.4	189.2	188.4	188.4	186.5	187.4	187.4
52.5°	165.6	165.6	163.8	163.8	163.8	162.9	162.9	162.9	162.0	162.0	160.1
55°	142.9	142.9	141.0	141.0	140.1	139.2	138.2	138.2	135.6	135.6	132.9
57.5°	121.9	121.0	118.2	118.2	116.5	115.5	114.6	113.8	111.9	110.1	109.1
60°	102.9	101.0	99.1	98.2	96.5	94.6	92.8	91.0	89.1	88.2	87.4
62.5°	84.6	81.9	80.1	79.1	77.4	74.6	72.8	71.0	69.1	68.2	66.4
65°	68.2	65.5	62.8	61.9	60.0	58.2	55.5	53.6	51.9	51.0	51.0
67.5°	53.6	51.0	47.4	47.4	45.5	43.6	41.9	40.0	39.1	40.0	40.0
70°	40.0	38.2	35.5	34.6	32.8	30.9	30.0	30.0	30.0	30.9	30.0
72.5°	30.0	27.2	25.5	24.6	23.6	22.8	22.8	22.8	21.9	22.8	22.8
75°	20.9	19.1	17.2	17.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4
77.5°	14.5	12.8	11.9	11.9	11.9	10.9	10.9	10.9	10.9	10.9	10.9
80°	9.1	9.1	8.2	8.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
82.5°	5.5	5.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	655.1	655.1	655.1	655.1	655.1	655.1	655.1	655.1
2.5°	646.9	649.6	646.0	648.8	647.9	646.9	645.1	648.8
5°	636.0	636.9	633.2	636.9	636.0	634.2	632.4	636.0
7.5°	620.5	623.2	618.8	622.4	621.5	619.6	617.8	621.5
10°	603.2	606.0	602.4	605.1	605.1	603.2	600.5	604.1
12.5°	584.1	586.0	582.4	586.0	585.0	583.2	582.4	585.0
15°	563.2	566.0	562.2	565.0	564.1	563.2	562.2	565.0
17.5°	540.5	543.2	540.5	543.2	543.2	540.5	539.5	541.4
20°	517.8	519.5	516.9	519.5	518.6	518.6	516.9	519.5
22.5°	492.2	495.0	493.1	495.0	494.1	494.1	493.1	495.0
25°	466.8	469.5	466.8	469.5	468.6	468.6	466.8	471.4
27.5°	441.2	443.1	440.4	444.0	443.1	441.2	442.2	443.1
30°	414.0	415.9	414.0	416.8	416.8	416.8	414.9	416.8
32.5°	386.8	389.4	386.8	389.4	388.5	388.5	387.6	389.4
35°	359.4	360.4	358.5	361.2	361.2	362.1	360.4	363.0
37.5°	331.2	332.1	331.2	332.1	333.9	331.2	333.0	333.9
40°	302.1	303.9	303.0	303.9	303.9	304.8	303.9	304.8
42.5°	273.0	274.8	273.0	275.8	274.8	274.8	275.8	275.8
45°	243.0	245.6	243.9	245.6	246.6	245.6	245.6	247.5
47.5°	214.8	216.5	215.6	216.5	216.5	216.5	216.5	218.4
50°	186.5	187.4	187.4	188.4	188.4	189.2	187.4	188.4
52.5°	158.4	160.1	160.1	160.1	159.2	160.1	160.1	160.1
55°	132.9	133.8	131.9	133.8	133.8	132.9	132.9	134.6
57.5°	108.2	108.2	108.2	108.2	108.2	107.4	108.2	108.2
60°	85.5	86.5	85.5	85.5	85.5	85.5	84.6	86.5
62.5°	66.4	66.4	65.5	66.4	66.4	66.4	67.4	67.4
65°	51.9	52.8	51.9	52.8	52.8	52.8	52.8	53.6
67.5°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
70°	30.9	30.9	30.9	31.9	30.9	30.9	30.9	31.9
72.5°	22.8	22.8	22.8	22.8	22.8	22.8	23.6	23.6
75°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
77.5°	10.9	10.9	10.9	11.9	10.9	11.9	10.9	10.9
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9
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)