

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: P252555

Luminaire Tested: **LE_6B10D010 EC6B10209727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252555
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_6B10D010 EC6B10209727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 946.2 lumens
Efficiency: N/A
Efficacy: 94.6 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

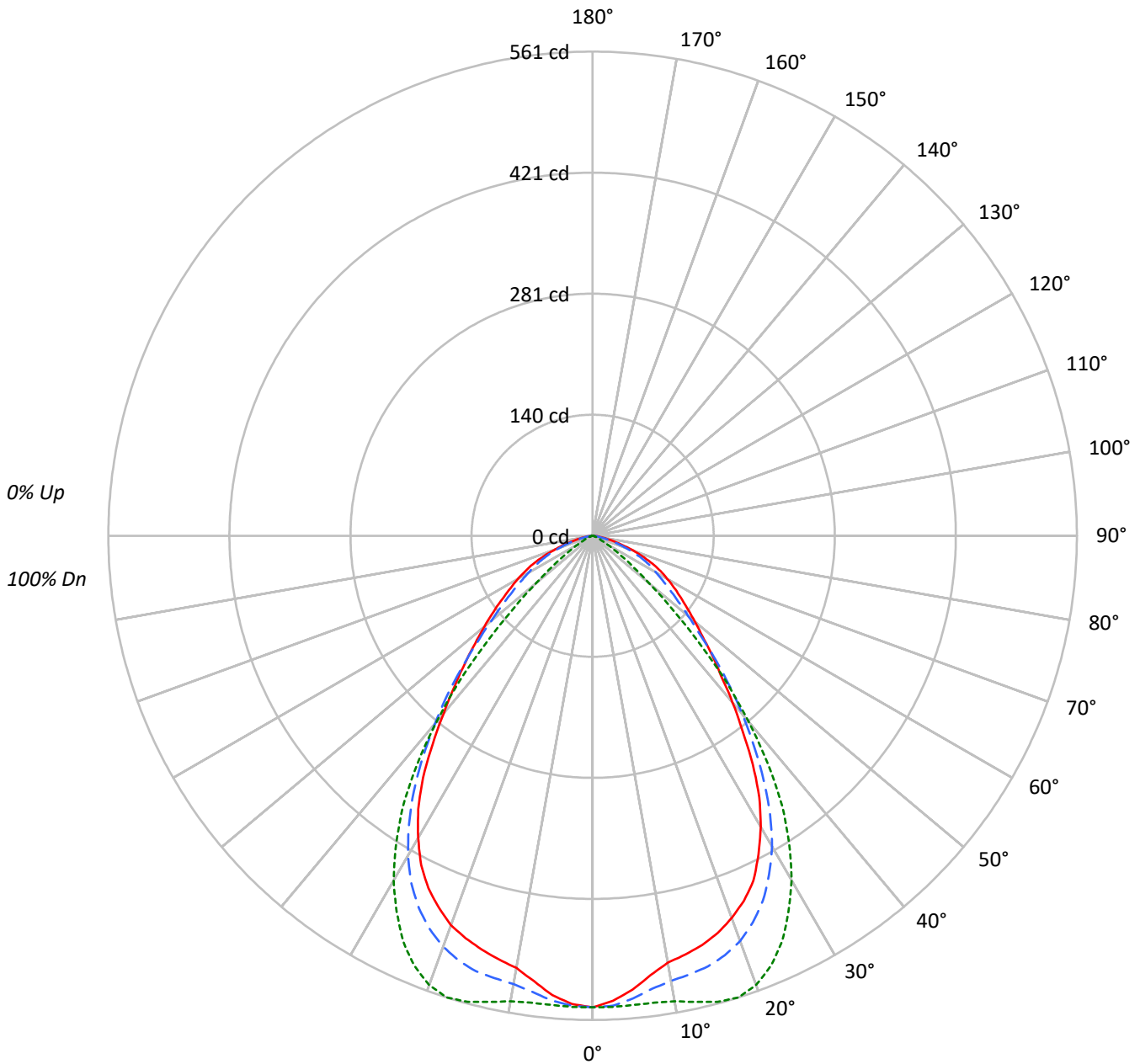
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35647	35647	35647
5°	34579	35731	34998
10°	33263	36277	33680
15°	33150	37756	33528
20°	32707	38456	33325
25°	31738	37367	32422
30°	29350	34729	30450
35°	25757	30536	27270
40°	21462	23932	22858
45°	18065	15786	19283
50°	15641	8647	16605
55°	14150	4595	14514
60°	13022	2401	13022
65°	11794	1266	11501
70°	9518	725	8794
75°	6529	479	6050
80°	4283	225	3795
85°	2844	449	2321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	5.4
10°-20°	147.3	15.6
20°-30°	217.6	23.0
30°-40°	219.8	23.2
40°-50°	151.5	16.0
50°-60°	87.0	9.2
60°-70°	50.6	5.4
70°-80°	18.5	2.0
80°-90°	2.8	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°	415.9	44.0
0°-40°	635.7	67.2
0°-60°	874.3	92.4
0°-90°	946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	528	538	546	541	534	50
15°	491	517	559	522	496	138
25°	441	467	519	476	450	201
35°	323	346	383	361	342	201
45°	196	198	171	211	209	152
55°	124	109	40	114	128	112
65°	76	64	8	64	74	75
75°	26	21	2	20	24	29
85°	4	2	1	2	3	5
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°	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4
2.5°	539.4	540.0	540.6	540.0	540.6	543.1	541.2	542.5	542.5	543.1	545.0
5°	528.0	528.0	529.2	528.6	530.5	533.0	531.1	533.0	533.6	535.0	538.1
7.5°	513.5	513.5	514.1	514.1	516.6	519.1	517.9	520.4	523.0	525.5	529.2
10°	502.1	503.4	503.4	504.0	506.5	509.6	509.0	512.2	514.8	518.5	523.6
12.5°	497.0	497.6	497.6	499.0	501.5	504.6	504.0	507.1	511.0	515.4	520.4
15°	490.8	492.0	491.4	492.6	495.1	498.4	497.6	500.9	505.2	509.6	516.6
17.5°	482.5	483.1	483.8	483.8	486.4	488.9	488.9	492.0	497.0	502.1	509.6
20°	471.1	472.4	472.4	473.0	475.0	478.8	478.1	481.2	486.4	491.4	499.6
22.5°	457.9	458.5	458.5	459.1	462.4	464.2	464.9	467.4	471.8	477.5	485.0
25°	440.9	441.5	440.9	442.8	444.0	447.8	446.5	449.6	454.8	459.1	466.8
27.5°	416.2	417.5	417.5	418.1	421.2	424.4	424.4	427.6	432.0	435.1	442.8
30°	389.6	391.6	389.6	392.9	394.1	396.6	398.5	400.4	404.2	408.6	415.6
32.5°	359.4	358.8	359.4	360.6	364.4	366.4	367.6	369.5	373.2	377.0	382.8
35°	323.4	324.6	325.2	327.8	327.8	331.0	331.6	332.9	338.5	341.0	345.5
37.5°	285.5	286.8	287.4	288.6	291.1	292.4	294.4	296.2	300.0	304.4	307.0
40°	252.0	252.0	252.6	253.9	255.8	256.4	258.4	260.9	263.4	267.1	269.6
42.5°	220.4	221.0	220.4	221.6	223.6	226.1	225.5	228.6	229.2	231.8	233.6
45°	195.8	195.8	194.5	195.8	195.8	198.4	197.6	199.0	198.4	199.6	198.4
47.5°	172.4	173.0	172.4	173.0	173.0	173.0	173.6	172.4	173.0	171.1	167.4
50°	154.1	154.8	153.5	154.1	153.5	152.9	153.5	151.6	151.0	148.4	144.6
52.5°	138.4	137.6	137.0	137.0	137.0	136.4	135.8	133.9	132.0	129.5	125.0
55°	124.4	123.8	123.1	123.1	121.9	121.2	121.2	119.4	117.5	114.4	109.2
57.5°	111.8	111.1	110.5	110.5	109.9	108.6	108.6	106.8	104.2	100.4	96.0
60°	99.8	99.8	99.8	99.1	99.1	97.9	97.9	96.0	93.5	89.6	84.6
62.5°	89.0	88.4	88.4	88.4	88.4	87.8	87.1	85.9	83.4	79.6	75.1
65°	76.4	76.4	76.4	76.4	75.8	75.8	75.8	73.9	72.6	68.9	64.4
67.5°	62.5	62.5	62.5	62.5	61.9	62.5	62.5	61.2	60.0	56.2	52.4
70°	49.9	49.2	48.6	49.2	48.6	48.6	49.2	48.0	47.4	44.2	40.4
72.5°	36.6	37.2	36.6	36.6	36.6	36.0	36.6	36.0	34.8	32.2	29.6
75°	25.9	26.5	26.5	25.9	25.9	25.9	25.2	25.2	24.0	22.1	20.9
77.5°	17.6	17.6	17.6	17.6	17.0	17.0	17.0	16.4	15.8	14.5	13.2
80°	11.4	11.4	11.4	11.4	10.8	10.8	10.8	10.1	10.1	8.9	7.6
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.4	6.4	5.6	5.0	4.4
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.1	2.5	1.9
87.5°	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2	1.2
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°	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4
2.5°	543.8	544.4	544.4	544.4	546.4	547.0	545.0	543.1	547.0	546.4	547.6
5°	537.5	539.4	540.6	541.2	543.1	544.4	542.5	541.9	545.0	545.6	546.4
7.5°	529.9	533.0	536.2	537.5	540.0	541.2	540.6	540.6	544.4	545.6	545.6
10°	524.9	529.2	533.0	536.2	539.4	541.2	541.2	541.9	546.4	547.6	548.9
12.5°	523.6	529.2	534.4	538.8	541.2	544.4	545.0	547.0	551.4	553.2	553.2
15°	520.4	528.0	534.4	540.0	543.8	547.6	548.9	552.6	557.6	559.0	560.2
17.5°	514.8	522.4	529.9	536.9	541.9	545.0	548.9	552.6	559.0	560.9	561.5
20°	504.6	513.5	521.0	528.0	533.0	537.5	541.2	545.6	551.4	553.9	554.5
22.5°	489.5	498.4	505.9	513.5	518.5	522.4	526.1	531.1	536.9	539.4	539.4
25°	471.1	479.4	487.6	493.2	498.4	502.8	504.6	510.4	516.0	519.1	519.1
27.5°	447.8	455.4	463.0	469.2	472.4	476.2	479.4	484.4	488.9	491.4	493.9
30°	418.1	425.6	432.6	439.0	442.8	446.5	449.6	453.5	457.9	461.0	461.6
32.5°	385.9	392.2	399.1	405.5	409.2	410.5	413.6	417.5	421.2	423.8	424.4
35°	350.5	355.0	359.4	365.0	368.9	368.9	372.0	374.5	377.6	383.4	382.1
37.5°	308.9	315.1	318.4	320.2	322.8	325.2	325.9	329.0	332.9	334.1	336.0
40°	269.6	271.6	273.5	273.5	276.0	276.0	276.0	276.6	280.4	281.0	283.6
42.5°	230.5	230.5	228.6	226.8	227.4	226.8	223.6	223.6	225.5	228.0	228.0
45°	193.9	189.5	183.8	179.4	176.2	175.0	171.1	171.1	170.5	171.1	173.6
47.5°	163.0	155.4	145.9	137.0	133.9	131.4	125.6	123.1	121.9	122.5	123.8
50°	137.0	128.9	118.1	107.4	101.6	98.5	91.6	87.1	86.5	85.2	87.8
52.5°	118.1	108.0	96.6	84.0	78.4	73.2	65.6	61.9	59.4	59.4	60.0
55°	101.6	91.0	78.4	65.6	60.0	56.2	48.6	43.6	41.0	40.4	42.4
57.5°	87.8	77.6	65.0	52.4	46.8	42.4	34.8	30.4	28.4	27.1	27.8
60°	77.0	67.0	54.4	42.4	37.2	32.2	25.9	20.9	18.4	18.4	19.0
62.5°	67.0	57.5	46.1	34.8	30.4	25.9	19.0	14.5	12.6	12.0	12.6
65°	56.9	48.0	38.5	29.0	24.6	20.9	15.1	11.4	8.9	8.2	8.9
67.5°	46.1	39.1	31.0	23.4	19.6	16.4	11.4	8.2	6.4	5.6	6.4
70°	36.0	29.6	23.4	17.0	14.5	12.0	8.2	6.4	4.4	3.8	4.4
72.5°	25.9	21.5	16.4	12.0	10.1	8.2	5.6	4.4	3.1	2.5	3.1
75°	17.6	14.5	10.8	7.6	6.4	5.6	3.8	2.5	1.9	1.9	1.9
77.5°	11.4	8.9	7.0	5.0	3.8	3.1	1.9	1.2	1.2	1.2	1.2
80°	6.4	5.0	3.8	2.5	1.9	1.9	1.2	1.2	0.6	0.6	0.6
82.5°	3.8	2.5	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
85°	1.9	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	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°	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4
2.5°	545.0	545.6	543.8	546.4	544.4	547.0	547.0	544.4	545.0	543.8	546.4
5°	543.8	543.8	542.5	544.4	541.9	544.4	543.8	539.4	540.6	538.1	540.6
7.5°	543.8	542.5	540.6	542.5	539.4	541.2	538.8	534.4	533.0	529.9	529.9
10°	545.6	543.8	541.2	541.9	538.8	539.4	535.6	529.2	527.4	523.6	522.4
12.5°	550.1	548.2	544.4	545.6	541.2	541.2	536.2	528.6	524.9	519.8	518.5
15°	556.4	553.2	548.9	549.5	545.0	542.5	536.2	527.4	522.4	515.4	513.5
17.5°	557.6	554.5	548.9	548.9	543.1	540.0	532.4	522.4	516.0	509.0	505.2
20°	550.8	547.6	541.2	540.6	535.6	531.1	523.0	512.9	506.5	499.0	495.8
22.5°	536.2	532.4	526.8	526.1	521.0	518.5	509.6	499.6	493.2	485.6	483.1
25°	514.8	512.9	507.1	506.5	502.1	499.0	491.4	481.9	476.2	468.6	466.1
27.5°	489.5	487.6	481.9	481.9	476.9	475.0	468.0	459.1	454.8	447.8	444.6
30°	459.1	456.6	453.5	452.9	448.4	446.5	440.2	432.0	427.6	421.9	420.6
32.5°	423.1	421.2	419.4	418.8	414.4	412.4	408.0	399.8	396.0	391.0	389.0
35°	381.5	380.2	378.4	377.6	375.8	373.9	369.5	363.1	361.2	357.5	355.6
37.5°	333.5	334.8	333.5	333.5	331.6	332.2	328.4	324.6	322.8	320.2	319.0
40°	281.6	284.2	286.1	286.1	285.5	288.0	287.4	284.2	283.6	282.4	281.6
42.5°	229.2	230.5	234.4	236.9	236.2	242.5	243.1	245.6	247.6	246.4	247.0
45°	174.4	178.1	183.1	185.6	188.9	197.0	201.5	206.5	211.0	213.5	212.9
47.5°	125.6	130.1	135.8	139.6	145.2	155.4	166.8	173.0	179.4	182.5	185.6
50°	91.0	95.4	102.4	108.0	111.8	125.6	137.6	145.9	152.9	157.2	160.4
52.5°	63.8	68.9	76.4	81.5	87.1	100.4	114.4	123.8	131.4	137.0	140.2
55°	44.2	49.9	56.9	61.9	68.2	82.1	95.4	105.5	113.6	118.8	122.5
57.5°	31.0	36.0	43.0	47.4	53.6	67.0	80.2	90.4	98.5	103.6	108.0
60°	20.9	25.9	32.9	37.2	42.4	55.6	67.6	78.4	85.9	91.0	95.4
62.5°	14.5	19.0	25.9	30.4	34.8	46.1	57.5	67.0	74.5	80.2	84.0
65°	11.4	15.1	20.9	24.6	29.0	38.5	48.0	56.2	63.8	69.5	72.0
67.5°	8.2	12.0	16.4	19.6	22.8	31.0	39.1	45.5	52.4	56.9	60.0
70°	5.6	8.2	12.0	14.5	17.0	23.4	29.6	35.4	40.4	43.6	46.1
72.5°	4.4	5.6	8.2	10.1	12.0	16.4	21.5	25.9	29.6	32.2	34.8
75°	2.5	3.8	5.6	7.0	8.2	11.4	14.5	17.6	20.2	22.1	23.4
77.5°	1.2	1.9	3.1	3.8	5.0	7.0	9.5	11.4	13.2	14.5	15.8
80°	1.2	1.2	1.9	1.9	2.5	3.8	5.0	6.4	7.6	8.9	9.5
82.5°	0.6	0.6	1.2	1.2	1.2	1.9	2.5	3.8	4.4	5.0	5.6
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9	2.5	3.1	3.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	546.4	546.4	546.4	546.4	546.4	546.4	546.4	546.4
2.5°	544.4	545.6	545.0	546.4	544.4	543.8	545.0	543.1
5°	537.5	538.1	537.5	537.5	536.2	535.0	536.2	534.4
7.5°	526.8	526.8	524.9	524.9	522.4	521.0	521.0	520.4
10°	517.9	516.0	514.1	514.8	511.0	509.6	509.0	508.4
12.5°	513.5	512.2	509.0	509.0	505.2	504.0	503.4	502.8
15°	508.4	505.9	503.4	502.8	499.6	498.4	497.6	496.4
17.5°	499.6	497.6	494.5	494.5	491.4	490.8	489.5	488.9
20°	490.1	487.6	485.0	485.0	481.2	481.2	479.4	480.0
22.5°	476.9	475.0	472.4	472.4	469.2	468.6	466.8	466.1
25°	461.0	458.5	456.6	456.0	453.5	452.2	451.6	450.4
27.5°	440.2	438.4	436.4	435.1	432.0	431.4	429.5	430.1
30°	414.4	413.0	412.4	411.1	407.4	406.1	406.1	404.2
32.5°	385.9	384.0	382.8	380.9	377.6	377.0	375.1	375.8
35°	351.1	348.6	346.8	347.4	343.6	343.0	341.6	342.4
37.5°	315.1	312.6	310.1	309.5	306.4	306.4	304.4	304.4
40°	277.9	275.4	274.1	274.1	270.4	271.0	269.0	268.4
42.5°	244.4	241.9	241.2	240.6	238.8	238.1	236.2	236.9
45°	212.9	212.2	212.2	211.0	209.0	208.4	209.0	209.0
47.5°	185.0	185.6	185.0	185.0	183.8	185.0	183.8	184.4
50°	161.6	163.0	163.0	163.0	162.4	163.0	163.0	163.6
52.5°	142.1	144.0	143.4	144.0	143.4	144.6	144.0	144.6
55°	125.0	126.4	127.0	127.6	127.6	127.6	127.6	127.6
57.5°	109.2	111.1	111.8	112.4	112.4	113.6	112.4	112.4
60°	96.6	98.5	99.1	99.8	99.8	100.4	99.1	99.8
62.5°	85.2	87.1	87.1	87.8	87.8	87.8	86.5	87.1
65°	73.9	74.5	75.1	75.1	74.5	74.5	73.9	74.5
67.5°	61.2	61.9	61.2	61.2	60.6	60.6	59.4	60.0
70°	47.4	47.4	48.0	47.4	46.8	47.4	46.8	46.1
72.5°	35.4	35.4	35.4	34.8	34.8	34.1	34.8	34.8
75°	24.0	24.0	24.6	24.6	24.6	24.6	24.0	24.0
77.5°	15.8	15.8	15.8	15.8	16.4	15.8	15.8	15.8
80°	10.1	10.1	10.8	10.8	10.1	10.1	10.1	10.1
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.8	3.8	3.8	3.8	3.1	3.1	3.1	3.1
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2
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)