

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: P252550

Luminaire Tested: **LE_6B10D010 EC6B10209027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252550
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 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: 1087.5 lumens
Efficiency: N/A
Efficacy: 108.8 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

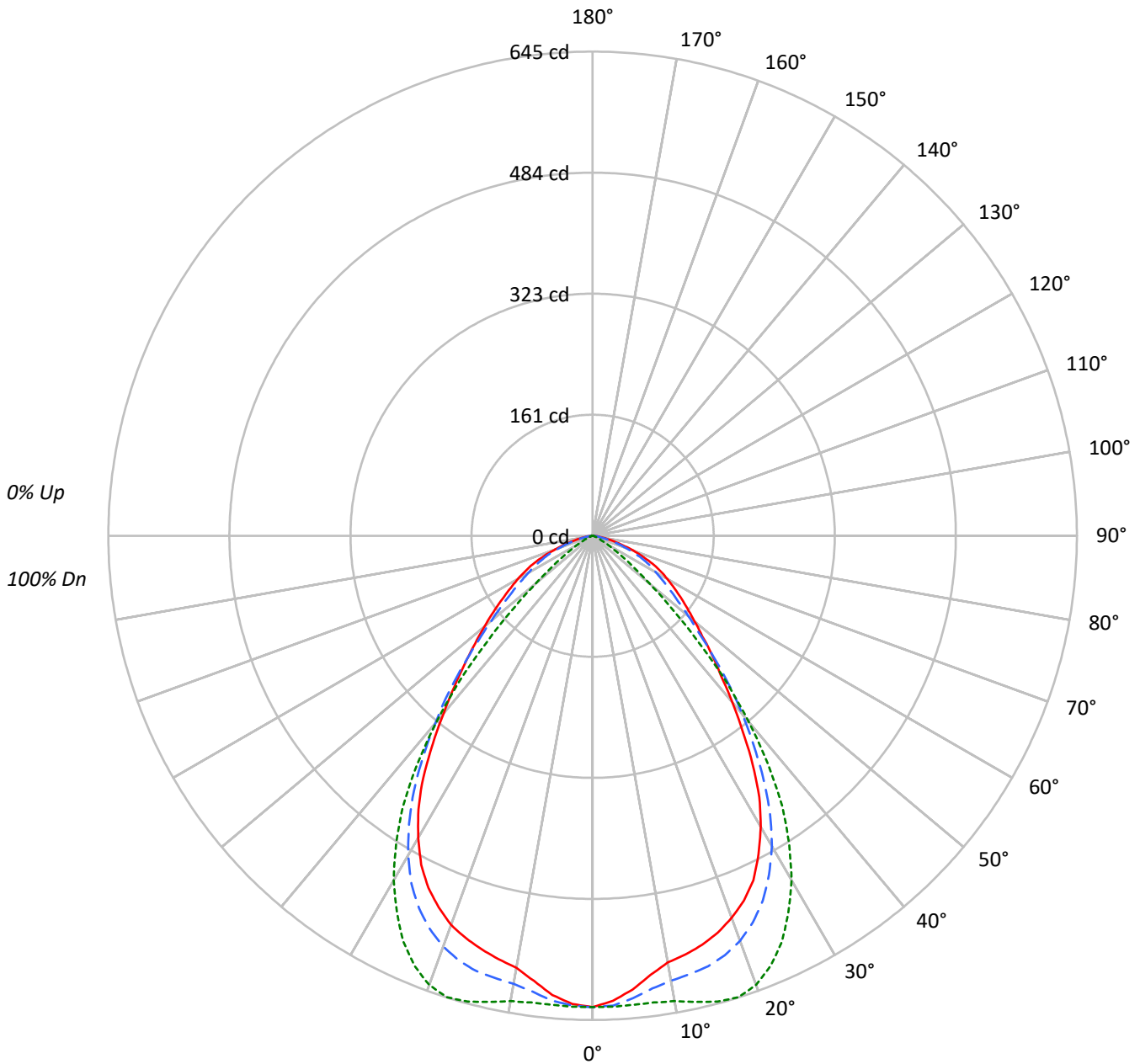
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	40965	40965	40965
5°	39746	41069	40217
10°	38225	41696	38715
15°	38094	43389	38533
20°	37595	44198	38296
25°	36468	42946	37252
30°	33742	39919	34992
35°	29596	35091	31332
40°	24664	27508	26274
45°	20759	18158	22162
50°	17975	9947	19081
55°	16265	5289	16675
60°	14953	2740	14953
65°	13569	1451	13214
70°	10949	839	10110
75°	7512	529	6957
80°	4922	301	4358
85°	3294	599	2695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	5.4
10°-20°	169.3	15.6
20°-30°	250.1	23.0
30°-40°	252.7	23.2
40°-50°	174.1	16.0
50°-60°	100.0	9.2
60°-70°	58.2	5.4
70°-80°	21.2	2.0
80°-90°	3.3	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°	478.0	44.0
0°-40°	730.6	67.2
0°-60°	1004.8	92.4
0°-90°	1087.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	628	628	628	628	628	
5°	607	618	627	621	614	57
15°	564	594	642	600	570	159
25°	507	536	597	547	518	231
35°	372	397	441	415	393	231
45°	225	228	197	242	240	175
55°	143	126	46	131	147	129
65°	88	74	9	73	86	86
75°	30	24	2	23	28	34
85°	4	2	1	3	4	6
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°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	619.9	620.6	621.4	620.6	621.4	624.2	622.0	623.5	623.5	624.2	626.4
5°	606.9	606.9	608.2	607.5	609.8	612.6	610.5	612.6	613.4	614.8	618.4
7.5°	590.1	590.1	590.9	590.9	593.8	596.6	595.2	598.1	601.0	603.9	608.2
10°	577.0	578.5	578.5	579.2	582.1	585.8	585.0	588.6	591.6	595.9	601.8
12.5°	571.2	572.0	572.0	573.4	576.4	580.0	579.2	582.9	587.2	592.2	598.1
15°	564.0	565.5	564.8	566.1	569.1	572.8	572.0	575.6	580.6	585.8	593.8
17.5°	554.5	555.2	556.0	556.0	558.9	561.9	561.9	565.5	571.2	577.0	585.8
20°	541.5	543.0	543.0	543.6	545.9	550.2	549.5	553.1	558.9	564.8	574.1
22.5°	526.2	527.0	527.0	527.8	531.4	533.5	534.2	537.1	542.2	548.8	557.5
25°	506.6	507.4	506.6	508.9	510.2	514.6	513.1	516.8	522.6	527.8	536.4
27.5°	478.4	479.8	479.8	480.5	484.1	487.8	487.8	491.4	496.5	500.1	508.9
30°	447.9	450.0	447.9	451.5	452.9	455.9	458.0	460.2	464.5	469.6	477.6
32.5°	413.0	412.2	413.0	414.5	418.9	421.0	422.5	424.6	429.0	433.4	439.9
35°	371.6	373.1	373.9	376.8	376.8	380.4	381.1	382.5	389.0	392.0	397.0
37.5°	328.1	329.5	330.2	331.8	334.6	336.1	338.2	340.4	344.8	349.9	352.8
40°	289.6	289.6	290.4	291.8	294.0	294.8	296.9	299.8	302.6	307.0	310.0
42.5°	253.4	254.0	253.4	254.8	257.0	259.9	259.1	262.8	263.5	266.4	268.6
45°	225.0	225.0	223.6	225.0	225.0	227.9	227.2	228.6	227.9	229.4	227.9
47.5°	198.1	198.9	198.1	198.9	198.9	198.9	199.6	198.1	198.9	196.8	192.4
50°	177.1	177.9	176.4	177.1	176.4	175.6	176.4	174.2	173.5	170.6	166.2
52.5°	159.0	158.2	157.5	157.5	157.5	156.8	156.0	153.9	151.8	148.8	143.8
55°	143.0	142.2	141.5	141.5	140.1	139.4	139.4	137.1	135.0	131.4	125.6
57.5°	128.5	127.8	127.0	127.0	126.2	124.9	124.9	122.6	119.8	115.4	110.4
60°	114.6	114.6	114.6	114.0	114.0	112.5	112.5	110.4	107.4	103.1	97.2
62.5°	102.4	101.6	101.6	101.6	101.6	100.9	100.1	98.8	95.9	91.5	86.4
65°	87.9	87.9	87.9	87.9	87.1	87.1	87.1	84.9	83.5	79.1	74.0
67.5°	71.9	71.9	71.9	71.9	71.1	71.9	71.9	70.4	69.0	64.6	60.2
70°	57.4	56.6	55.9	56.6	55.9	55.9	56.6	55.1	54.5	50.8	46.5
72.5°	42.1	42.9	42.1	42.1	42.1	41.4	42.1	41.4	39.9	37.0	34.1
75°	29.8	30.5	30.5	29.8	29.8	29.8	29.0	29.0	27.6	25.4	24.0
77.5°	20.4	20.4	20.4	20.4	19.6	19.6	19.6	18.9	18.1	16.8	15.2
80°	13.1	13.1	13.1	13.1	12.4	12.4	12.4	11.6	11.6	10.1	8.8
82.5°	8.0	8.0	8.0	8.0	8.0	8.0	7.2	7.2	6.5	5.8	5.1
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.6	3.6	2.9	2.1
87.5°	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.5	1.5
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°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	625.0	625.8	625.8	625.8	627.9	628.6	626.4	624.2	628.6	627.9	629.4
5°	617.8	619.9	621.4	622.0	624.2	625.8	623.5	622.8	626.4	627.1	627.9
7.5°	609.0	612.6	616.2	617.8	620.6	622.0	621.4	621.4	625.8	627.1	627.1
10°	603.2	608.2	612.6	616.2	619.9	622.0	622.0	622.8	627.9	629.4	630.8
12.5°	601.8	608.2	614.1	619.1	622.0	625.8	626.4	628.6	633.6	635.9	635.9
15°	598.1	606.9	614.1	620.6	625.0	629.4	630.8	635.1	640.9	642.4	643.9
17.5°	591.6	600.2	609.0	617.0	622.8	626.4	630.8	635.1	642.4	644.6	645.2
20°	580.0	590.1	598.9	606.9	612.6	617.8	622.0	627.1	633.6	636.6	637.2
22.5°	562.5	572.8	581.4	590.1	595.9	600.2	604.6	610.5	617.0	619.9	619.9
25°	541.5	550.9	560.4	566.9	572.8	577.8	580.0	586.5	593.0	596.6	596.6
27.5°	514.6	523.4	532.0	539.4	543.0	547.2	550.9	556.8	561.9	564.8	567.6
30°	480.5	489.2	497.2	504.5	508.9	513.1	516.8	521.1	526.2	529.9	530.6
32.5°	443.5	450.8	458.8	466.0	470.4	471.8	475.5	479.8	484.1	487.0	487.8
35°	402.9	407.9	413.0	419.5	423.9	423.9	427.5	430.4	434.1	440.6	439.1
37.5°	355.0	362.2	365.9	368.0	370.9	373.9	374.5	378.1	382.5	384.0	386.1
40°	310.0	312.1	314.2	314.2	317.2	317.2	317.2	317.9	322.2	323.0	325.9
42.5°	265.0	265.0	262.8	260.6	261.2	260.6	257.0	257.0	259.1	262.0	262.0
45°	222.9	217.8	211.2	206.1	202.5	201.1	196.8	196.8	196.0	196.8	199.6
47.5°	187.2	178.5	167.6	157.5	153.9	151.0	144.5	141.5	140.1	140.9	142.2
50°	157.5	148.1	135.8	123.4	116.9	113.2	105.2	100.1	99.5	98.0	100.9
52.5°	135.8	124.1	111.0	96.5	90.0	84.2	75.5	71.1	68.2	68.2	69.0
55°	116.9	104.5	90.0	75.5	69.0	64.6	55.9	50.1	47.1	46.5	48.6
57.5°	100.9	89.2	74.8	60.2	53.8	48.6	39.9	34.9	32.6	31.2	32.0
60°	88.5	77.0	62.4	48.6	42.9	37.0	29.8	24.0	21.0	21.0	21.8
62.5°	77.0	66.0	53.0	39.9	34.9	29.8	21.8	16.8	14.5	13.8	14.5
65°	65.4	55.1	44.2	33.4	28.2	24.0	17.4	13.1	10.1	9.4	10.1
67.5°	53.0	45.0	35.6	26.9	22.5	18.9	13.1	9.4	7.2	6.5	7.2
70°	41.4	34.1	26.9	19.6	16.8	13.8	9.4	7.2	5.1	4.4	5.1
72.5°	29.8	24.6	18.9	13.8	11.6	9.4	6.5	5.1	3.6	2.9	3.6
75°	20.4	16.8	12.4	8.8	7.2	6.5	4.4	2.9	2.1	2.1	2.1
77.5°	13.1	10.1	8.0	5.8	4.4	3.6	2.1	1.5	1.5	1.5	1.5
80°	7.2	5.8	4.4	2.9	2.1	2.1	1.5	1.5	0.8	0.8	0.8
82.5°	4.4	2.9	2.1	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.1	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	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°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	626.4	627.1	625.0	627.9	625.8	628.6	628.6	625.8	626.4	625.0	627.9
5°	625.0	625.0	623.5	625.8	622.8	625.8	625.0	619.9	621.4	618.4	621.4
7.5°	625.0	623.5	621.4	623.5	619.9	622.0	619.1	614.1	612.6	609.0	609.0
10°	627.1	625.0	622.0	622.8	619.1	619.9	615.5	608.2	606.1	601.8	600.2
12.5°	632.2	630.0	625.8	627.1	622.0	622.0	616.2	607.5	603.2	597.4	595.9
15°	639.5	635.9	630.8	631.5	626.4	623.5	616.2	606.1	600.2	592.2	590.1
17.5°	640.9	637.2	630.8	630.8	624.2	620.6	611.9	600.2	593.0	585.0	580.6
20°	633.0	629.4	622.0	621.4	615.5	610.5	601.0	589.4	582.1	573.4	569.8
22.5°	616.2	611.9	605.4	604.6	598.9	595.9	585.8	574.1	566.9	558.1	555.2
25°	591.6	589.4	582.9	582.1	577.0	573.4	564.8	553.9	547.2	538.6	535.6
27.5°	562.5	560.4	553.9	553.9	548.0	545.9	537.9	527.8	522.6	514.6	511.0
30°	527.8	524.8	521.1	520.5	515.4	513.1	505.9	496.5	491.4	484.9	483.4
32.5°	486.4	484.1	482.0	481.2	476.1	474.0	468.9	459.5	455.1	449.2	447.1
35°	438.4	437.0	434.8	434.1	431.9	429.8	424.6	417.4	415.2	410.9	408.6
37.5°	383.2	384.8	383.2	383.2	381.1	381.8	377.5	373.1	370.9	368.0	366.5
40°	323.8	326.6	328.9	328.9	328.1	331.0	330.2	326.6	325.9	324.5	323.8
42.5°	263.5	265.0	269.2	272.2	271.5	278.8	279.5	282.4	284.5	283.1	283.8
45°	200.4	204.8	210.5	213.4	217.0	226.5	231.5	237.4	242.4	245.4	244.6
47.5°	144.5	149.5	156.0	160.4	167.0	178.5	191.6	198.9	206.1	209.8	213.4
50°	104.5	109.6	117.6	124.1	128.5	144.5	158.2	167.6	175.6	180.8	184.4
52.5°	73.2	79.1	87.9	93.6	100.1	115.4	131.4	142.2	151.0	157.5	161.1
55°	50.8	57.4	65.4	71.1	78.4	94.4	109.6	121.2	130.6	136.5	140.9
57.5°	35.6	41.4	49.4	54.5	61.8	77.0	92.1	103.8	113.2	119.0	124.1
60°	24.0	29.8	37.8	42.9	48.6	63.9	77.6	90.0	98.8	104.5	109.6
62.5°	16.8	21.8	29.8	34.9	39.9	53.0	66.0	77.0	85.6	92.1	96.5
65°	13.1	17.4	24.0	28.2	33.4	44.2	55.1	64.6	73.2	79.9	82.8
67.5°	9.4	13.8	18.9	22.5	26.1	35.6	45.0	52.2	60.2	65.4	69.0
70°	6.5	9.4	13.8	16.8	19.6	26.9	34.1	40.6	46.5	50.1	53.0
72.5°	5.1	6.5	9.4	11.6	13.8	18.9	24.6	29.8	34.1	37.0	39.9
75°	2.9	4.4	6.5	8.0	9.4	13.1	16.8	20.4	23.2	25.4	26.9
77.5°	1.5	2.1	3.6	4.4	5.8	8.0	10.9	13.1	15.2	16.8	18.1
80°	1.5	1.5	2.1	2.1	2.9	4.4	5.8	7.2	8.8	10.1	10.9
82.5°	0.8	0.8	1.5	1.5	1.5	2.1	2.9	4.4	5.1	5.8	6.5
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.1	2.9	3.6	3.6
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	625.8	627.1	626.4	627.9	625.8	625.0	626.4	624.2
5°	617.8	618.4	617.8	617.8	616.2	614.8	616.2	614.1
7.5°	605.4	605.4	603.2	603.2	600.2	598.9	598.9	598.1
10°	595.2	593.0	590.9	591.6	587.2	585.8	585.0	584.4
12.5°	590.1	588.6	585.0	585.0	580.6	579.2	578.5	577.8
15°	584.4	581.4	578.5	577.8	574.1	572.8	572.0	570.5
17.5°	574.1	572.0	568.4	568.4	564.8	564.0	562.5	561.9
20°	563.2	560.4	557.5	557.5	553.1	553.1	550.9	551.6
22.5°	548.0	545.9	543.0	543.0	539.4	538.6	536.4	535.6
25°	529.9	527.0	524.8	524.1	521.1	519.8	519.0	517.5
27.5°	505.9	503.8	501.6	500.1	496.5	495.8	493.6	494.2
30°	476.1	474.8	474.0	472.5	468.1	466.8	466.8	464.5
32.5°	443.5	441.4	439.9	437.8	434.1	433.4	431.1	431.9
35°	403.6	400.6	398.5	399.2	394.9	394.1	392.8	393.4
37.5°	362.2	359.2	356.4	355.6	352.0	352.0	349.9	349.9
40°	319.4	316.5	315.0	315.0	310.6	311.4	309.2	308.5
42.5°	280.9	278.0	277.2	276.5	274.4	273.6	271.5	272.2
45°	244.6	243.9	243.9	242.4	240.2	239.5	240.2	240.2
47.5°	212.6	213.4	212.6	212.6	211.2	212.6	211.2	212.0
50°	185.9	187.2	187.2	187.2	186.5	187.2	187.2	188.0
52.5°	163.4	165.5	164.8	165.5	164.8	166.2	165.5	166.2
55°	143.8	145.1	145.9	146.6	146.6	146.6	146.6	146.6
57.5°	125.6	127.8	128.5	129.2	129.2	130.6	129.2	129.2
60°	111.0	113.2	114.0	114.6	114.6	115.4	114.0	114.6
62.5°	98.0	100.1	100.1	100.9	100.9	100.9	99.5	100.1
65°	84.9	85.6	86.4	86.4	85.6	85.6	84.9	85.6
67.5°	70.4	71.1	70.4	70.4	69.6	69.6	68.2	69.0
70°	54.5	54.5	55.1	54.5	53.8	54.5	53.8	53.0
72.5°	40.6	40.6	40.6	39.9	39.9	39.2	39.9	39.9
75°	27.6	27.6	28.2	28.2	28.2	28.2	27.6	27.6
77.5°	18.1	18.1	18.1	18.1	18.9	18.1	18.1	18.1
80°	11.6	11.6	12.4	12.4	11.6	11.6	11.6	11.6
82.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
85°	4.4	4.4	4.4	4.4	3.6	3.6	3.6	3.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.5
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)