

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: P252552

Luminaire Tested: **LE_6B10D010 EC6B10209035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252552
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 EC6B10209035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1147.5 lumens
Efficiency: N/A
Efficacy: 114.7 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

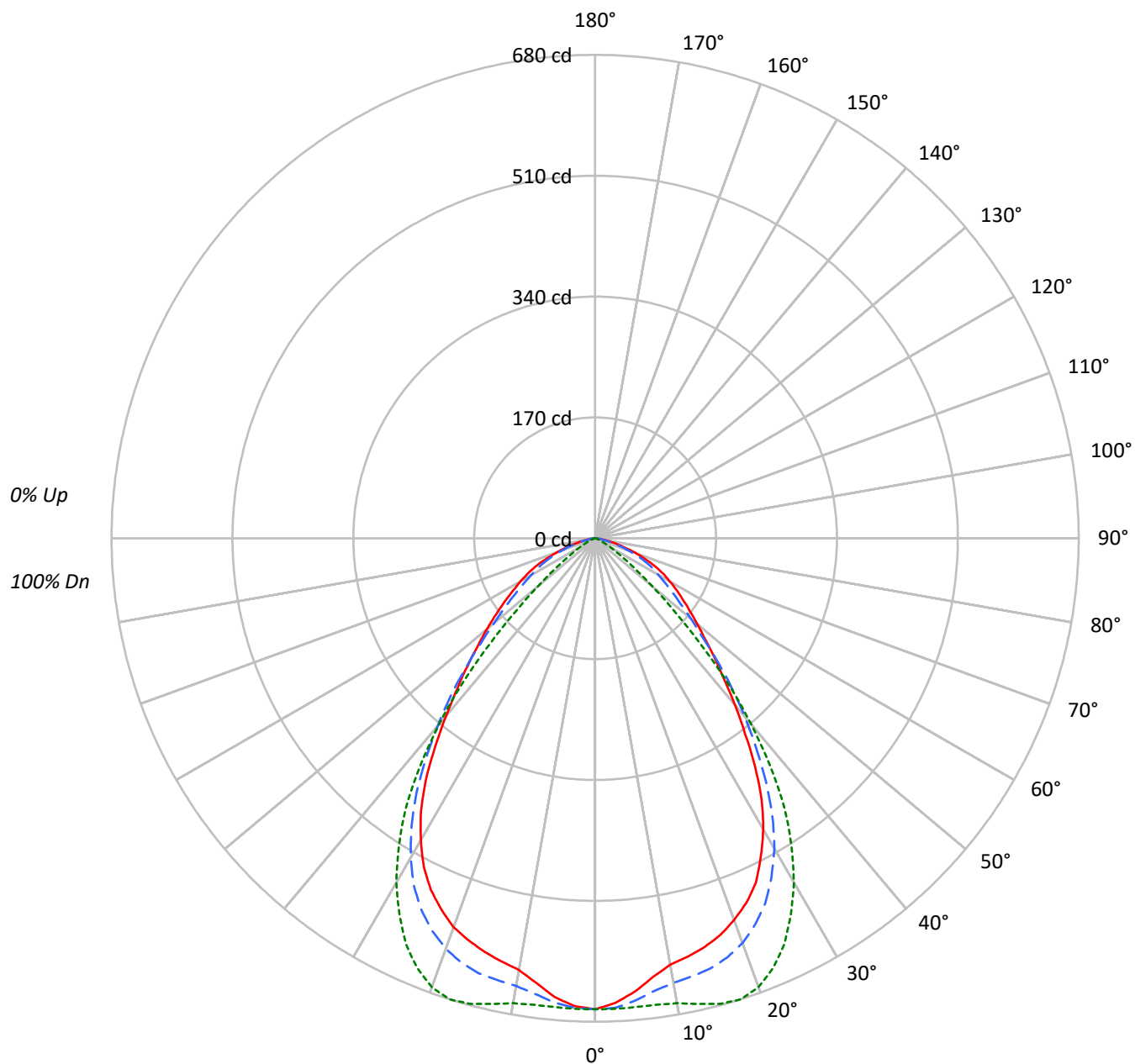
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43222	43222	43222
5°	41927	43341	42437
10°	40338	43988	40841
15°	40194	45787	40660
20°	39671	46641	40414
25°	38483	45322	39311
30°	35603	42119	36921
35°	31228	37027	33060
40°	26027	29033	27721
45°	21904	19145	23389
50°	18970	10495	20137
55°	17164	5573	17608
60°	15788	2897	15788
65°	14295	1544	13955
70°	11540	877	10663
75°	7915	555	7335
80°	5185	301	4584
85°	3443	599	2919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	5.4
10°-20°	178.6	15.6
20°-30°	263.9	23.0
30°-40°	266.6	23.2
40°-50°	183.8	16.0
50°-60°	105.5	9.2
60°-70°	61.4	5.4
70°-80°	22.4	2.0
80°-90°	3.4	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°	504.4	44.0
0°-40°	770.9	67.2
0°-60°	1060.2	92.4
0°-90°	1147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	662	662	662	662	662	
5°	640	652	662	656	648	60
15°	595	626	678	633	602	168
25°	535	566	630	578	546	244
35°	392	419	465	438	415	243
45°	237	240	208	256	254	185
55°	151	132	49	138	155	136
65°	93	78	10	77	90	91
75°	31	25	2	24	29	35
85°	5	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°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	654.1	654.9	655.6	654.9	655.6	658.6	656.4	657.9	657.9	658.6	661.0
5°	640.2	640.2	641.9	641.1	643.4	646.4	644.1	646.4	647.2	648.8	652.5
7.5°	622.6	622.6	623.5	623.5	626.5	629.6	628.0	631.1	634.1	637.2	641.9
10°	608.9	610.4	610.4	611.2	614.2	618.1	617.4	621.1	624.2	628.8	634.9
12.5°	602.8	603.5	603.5	605.1	608.1	612.0	611.2	615.0	619.6	625.0	631.1
15°	595.1	596.6	595.9	597.4	600.5	604.2	603.5	607.4	612.8	618.1	626.5
17.5°	585.1	585.9	586.6	586.6	589.8	592.8	592.8	596.6	602.8	608.9	618.1
20°	571.4	572.9	572.9	573.6	576.0	580.5	579.8	583.6	589.8	595.9	605.9
22.5°	555.2	556.0	556.0	556.9	560.6	563.0	563.8	566.8	572.1	579.0	588.2
25°	534.6	535.4	534.6	536.9	538.4	543.0	541.5	545.4	551.5	556.9	566.0
27.5°	504.8	506.2	506.2	507.0	510.9	514.8	514.8	518.5	523.9	527.8	536.9
30°	472.6	474.9	472.6	476.4	477.9	481.0	483.2	485.6	490.1	495.5	504.0
32.5°	435.8	435.0	435.8	437.4	441.9	444.2	445.8	448.0	452.6	457.2	464.1
35°	392.1	393.6	394.5	397.5	397.5	401.4	402.1	403.6	410.5	413.6	419.0
37.5°	346.2	347.8	348.5	350.0	353.1	354.6	356.9	359.2	363.8	369.1	372.2
40°	305.6	305.6	306.4	307.9	310.2	311.0	313.2	316.4	319.4	324.0	327.0
42.5°	267.2	268.1	267.2	268.9	271.1	274.2	273.4	277.2	278.0	281.1	283.4
45°	237.4	237.4	235.9	237.4	237.4	240.5	239.8	241.2	240.5	242.0	240.5
47.5°	209.1	209.9	209.1	209.9	209.9	209.9	210.6	209.1	209.9	207.5	203.0
50°	186.9	187.6	186.1	186.9	186.1	185.4	186.1	183.9	183.0	180.0	175.4
52.5°	167.8	167.0	166.2	166.2	166.2	165.4	164.6	162.4	160.1	157.0	151.6
55°	150.9	150.1	149.4	149.4	147.9	147.0	147.0	144.8	142.5	138.6	132.5
57.5°	135.6	134.8	134.0	134.0	133.2	131.8	131.8	129.5	126.4	121.8	116.4
60°	121.0	121.0	121.0	120.2	120.2	118.8	118.8	116.4	113.4	108.8	102.6
62.5°	108.0	107.2	107.2	107.2	107.2	106.5	105.8	104.1	101.1	96.5	91.1
65°	92.6	92.6	92.6	92.6	91.9	91.9	91.9	89.6	88.1	83.5	78.1
67.5°	75.9	75.9	75.9	75.9	75.0	75.9	75.9	74.2	72.8	68.1	63.6
70°	60.5	59.8	59.0	59.8	59.0	59.0	59.8	58.2	57.5	53.6	49.0
72.5°	44.4	45.2	44.4	44.4	44.4	43.6	44.4	43.6	42.1	39.0	36.0
75°	31.4	32.1	32.1	31.4	31.4	31.4	30.6	30.6	29.1	26.8	25.2
77.5°	21.5	21.5	21.5	21.5	20.6	20.6	20.6	19.9	19.1	17.6	16.1
80°	13.8	13.8	13.8	13.8	13.0	13.0	13.0	12.2	12.2	10.8	9.2
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	7.6	7.6	6.9	6.1	5.4
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.1	2.2
87.5°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	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°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	659.5	660.2	660.2	660.2	662.5	663.2	661.0	658.6	663.2	662.5	664.0
5°	651.8	654.1	655.6	656.4	658.6	660.2	657.9	657.1	661.0	661.8	662.5
7.5°	642.6	646.4	650.2	651.8	654.9	656.4	655.6	655.6	660.2	661.8	661.8
10°	636.5	641.9	646.4	650.2	654.1	656.4	656.4	657.1	662.5	664.0	665.6
12.5°	634.9	641.9	648.0	653.4	656.4	660.2	661.0	663.2	668.6	670.9	670.9
15°	631.1	640.2	648.0	654.9	659.5	664.0	665.6	670.1	676.2	677.9	679.4
17.5°	624.2	633.4	642.6	651.0	657.1	661.0	665.6	670.1	677.9	680.1	680.9
20°	612.0	622.6	631.9	640.2	646.4	651.8	656.4	661.8	668.6	671.8	672.5
22.5°	593.6	604.2	613.5	622.6	628.8	633.4	638.0	644.1	651.0	654.1	654.1
25°	571.4	581.4	591.2	598.1	604.2	609.6	612.0	618.9	625.8	629.6	629.6
27.5°	543.0	552.2	561.4	569.1	572.9	577.5	581.4	587.5	592.8	595.9	599.0
30°	507.0	516.2	524.6	532.2	536.9	541.5	545.4	549.9	555.2	559.1	559.9
32.5°	468.0	475.6	484.0	491.8	496.2	497.9	501.6	506.2	510.9	513.9	514.8
35°	425.1	430.5	435.8	442.8	447.2	447.2	451.1	454.1	458.0	464.9	463.4
37.5°	374.5	382.1	386.0	388.4	391.4	394.5	395.2	399.0	403.6	405.1	407.5
40°	327.0	329.4	331.6	331.6	334.8	334.8	334.8	335.5	340.0	340.9	343.9
42.5°	279.5	279.5	277.2	275.0	275.8	275.0	271.1	271.1	273.4	276.5	276.5
45°	235.1	229.8	222.9	217.5	213.8	212.1	207.5	207.5	206.8	207.5	210.6
47.5°	197.6	188.4	176.9	166.2	162.4	159.2	152.4	149.4	147.9	148.6	150.1
50°	166.2	156.2	143.2	130.2	123.2	119.5	111.0	105.8	104.9	103.4	106.5
52.5°	143.2	131.0	117.1	101.9	95.0	88.9	79.6	75.0	72.0	72.0	72.8
55°	123.2	110.2	95.0	79.6	72.8	68.1	59.0	52.9	49.8	49.0	51.4
57.5°	106.5	94.2	78.9	63.6	56.6	51.4	42.1	36.8	34.5	32.9	33.8
60°	93.5	81.1	65.9	51.4	45.2	39.0	31.4	25.2	22.2	22.2	23.0
62.5°	81.1	69.8	55.9	42.1	36.8	31.4	23.0	17.6	15.4	14.5	15.4
65°	68.9	58.2	46.8	35.2	29.9	25.2	18.4	13.8	10.8	10.0	10.8
67.5°	55.9	47.5	37.5	28.4	23.8	19.9	13.8	10.0	7.6	6.9	7.6
70°	43.6	36.0	28.4	20.6	17.6	14.5	10.0	7.6	5.4	4.6	5.4
72.5°	31.4	26.0	19.9	14.5	12.2	10.0	6.9	5.4	3.9	3.1	3.9
75°	21.5	17.6	13.0	9.2	7.6	6.9	4.6	3.1	2.2	2.2	2.2
77.5°	13.8	10.8	8.4	6.1	4.6	3.9	2.2	1.5	1.5	1.5	1.5
80°	7.6	6.1	4.6	3.1	2.2	2.2	1.5	1.5	0.8	0.8	0.8
82.5°	4.6	3.1	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.2	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°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	661.0	661.8	659.5	662.5	660.2	663.2	663.2	660.2	661.0	659.5	662.5
5°	659.5	659.5	657.9	660.2	657.1	660.2	659.5	654.1	655.6	652.5	655.6
7.5°	659.5	657.9	655.6	657.9	654.1	656.4	653.4	648.0	646.4	642.6	642.6
10°	661.8	659.5	656.4	657.1	653.4	654.1	649.5	641.9	639.5	634.9	633.4
12.5°	667.1	664.8	660.2	661.8	656.4	656.4	650.2	641.1	636.5	630.4	628.8
15°	674.8	670.9	665.6	666.4	661.0	657.9	650.2	639.5	633.4	625.0	622.6
17.5°	676.2	672.5	665.6	665.6	658.6	654.9	645.6	633.4	625.8	617.4	612.8
20°	667.9	664.0	656.4	655.6	649.5	644.1	634.1	621.9	614.2	605.1	601.2
22.5°	650.2	645.6	638.8	638.0	631.9	628.8	618.1	605.9	598.1	589.0	585.9
25°	624.2	621.9	615.0	614.2	608.9	605.1	595.9	584.4	577.5	568.2	565.2
27.5°	593.6	591.2	584.4	584.4	578.2	576.0	567.5	556.9	551.5	543.0	539.2
30°	556.9	553.8	549.9	549.1	543.8	541.5	533.9	523.9	518.5	511.6	510.1
32.5°	513.1	510.9	508.5	507.8	502.4	500.1	494.8	484.9	480.2	474.1	471.8
35°	462.6	461.1	458.8	458.0	455.8	453.4	448.0	440.4	438.1	433.5	431.2
37.5°	404.4	405.9	404.4	404.4	402.1	402.9	398.2	393.6	391.4	388.4	386.8
40°	341.6	344.6	347.0	347.0	346.2	349.2	348.5	344.6	343.9	342.4	341.6
42.5°	278.0	279.5	284.1	287.2	286.5	294.1	294.9	298.0	300.2	298.8	299.5
45°	211.4	216.0	222.1	225.1	229.0	239.0	244.4	250.5	255.9	258.9	258.1
47.5°	152.4	157.8	164.6	169.2	176.1	188.4	202.2	209.9	217.5	221.4	225.1
50°	110.2	115.6	124.1	131.0	135.6	152.4	167.0	176.9	185.4	190.8	194.5
52.5°	77.4	83.5	92.6	98.8	105.8	121.8	138.6	150.1	159.2	166.2	170.0
55°	53.6	60.5	68.9	75.0	82.8	99.6	115.6	127.9	137.9	144.0	148.6
57.5°	37.5	43.6	52.1	57.5	65.1	81.1	97.2	109.5	119.5	125.6	131.0
60°	25.2	31.4	39.9	45.2	51.4	67.4	82.0	95.0	104.1	110.2	115.6
62.5°	17.6	23.0	31.4	36.8	42.1	55.9	69.8	81.1	90.4	97.2	101.9
65°	13.8	18.4	25.2	29.9	35.2	46.8	58.2	68.1	77.4	84.2	87.4
67.5°	10.0	14.5	19.9	23.8	27.6	37.5	47.5	55.1	63.6	68.9	72.8
70°	6.9	10.0	14.5	17.6	20.6	28.4	36.0	42.9	49.0	52.9	55.9
72.5°	5.4	6.9	10.0	12.2	14.5	19.9	26.0	31.4	36.0	39.0	42.1
75°	3.1	4.6	6.9	8.4	10.0	13.8	17.6	21.5	24.5	26.8	28.4
77.5°	1.5	2.2	3.9	4.6	6.1	8.4	11.5	13.8	16.1	17.6	19.1
80°	1.5	1.5	2.2	2.2	3.1	4.6	6.1	7.6	9.2	10.8	11.5
82.5°	0.8	0.8	1.5	1.5	1.5	2.2	3.1	4.6	5.4	6.1	6.9
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.2	3.1	3.9	3.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	660.2	661.8	661.0	662.5	660.2	659.5	661.0	658.6
5°	651.8	652.5	651.8	651.8	650.2	648.8	650.2	648.0
7.5°	638.8	638.8	636.5	636.5	633.4	631.9	631.9	631.1
10°	628.0	625.8	623.5	624.2	619.6	618.1	617.4	616.5
12.5°	622.6	621.1	617.4	617.4	612.8	611.2	610.4	609.6
15°	616.5	613.5	610.4	609.6	605.9	604.2	603.5	602.0
17.5°	605.9	603.5	599.8	599.8	595.9	595.1	593.6	592.8
20°	594.4	591.2	588.2	588.2	583.6	583.6	581.4	582.1
22.5°	578.2	576.0	572.9	572.9	569.1	568.2	566.0	565.2
25°	559.1	556.0	553.8	553.0	549.9	548.4	547.6	546.1
27.5°	533.9	531.5	529.2	527.8	523.9	523.1	520.9	521.6
30°	502.4	500.9	500.1	498.6	494.0	492.5	492.5	490.1
32.5°	468.0	465.6	464.1	461.9	458.0	457.2	455.0	455.8
35°	425.9	422.8	420.5	421.2	416.6	415.9	414.4	415.1
37.5°	382.1	379.1	376.0	375.2	371.5	371.5	369.1	369.1
40°	337.0	333.9	332.4	332.4	327.8	328.6	326.2	325.5
42.5°	296.4	293.4	292.6	291.8	289.5	288.8	286.5	287.2
45°	258.1	257.4	257.4	255.9	253.5	252.8	253.5	253.5
47.5°	224.4	225.1	224.4	224.4	222.9	224.4	222.9	223.6
50°	196.1	197.6	197.6	197.6	196.9	197.6	197.6	198.4
52.5°	172.4	174.6	173.9	174.6	173.9	175.4	174.6	175.4
55°	151.6	153.1	154.0	154.8	154.8	154.8	154.8	154.8
57.5°	132.5	134.8	135.6	136.4	136.4	137.9	136.4	136.4
60°	117.1	119.5	120.2	121.0	121.0	121.8	120.2	121.0
62.5°	103.4	105.8	105.8	106.5	106.5	106.5	104.9	105.8
65°	89.6	90.4	91.1	91.1	90.4	90.4	89.6	90.4
67.5°	74.2	75.0	74.2	74.2	73.5	73.5	72.0	72.8
70°	57.5	57.5	58.2	57.5	56.6	57.5	56.6	55.9
72.5°	42.9	42.9	42.9	42.1	42.1	41.4	42.1	42.1
75°	29.1	29.1	29.9	29.9	29.9	29.9	29.1	29.1
77.5°	19.1	19.1	19.1	19.1	19.9	19.1	19.1	19.1
80°	12.2	12.2	13.0	13.0	12.2	12.2	12.2	12.2
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
85°	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.9
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	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)